

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P402646

Luminaire Tested: **GAN-AF-10-LED-U-SL4-AMB**

Issue Date: 6/8/2020

Test Information

Test Method: LM-79-08
Report Number: P402646
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2003-697-18)
Test Lab: INNOVATION CENTER
Issue Date: 6/8/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-10-LED-U-SL4-AMB
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) NARROW BAND AMBER, 500mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9638 lumens
Efficiency: N/A
Efficacy: 48.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G3

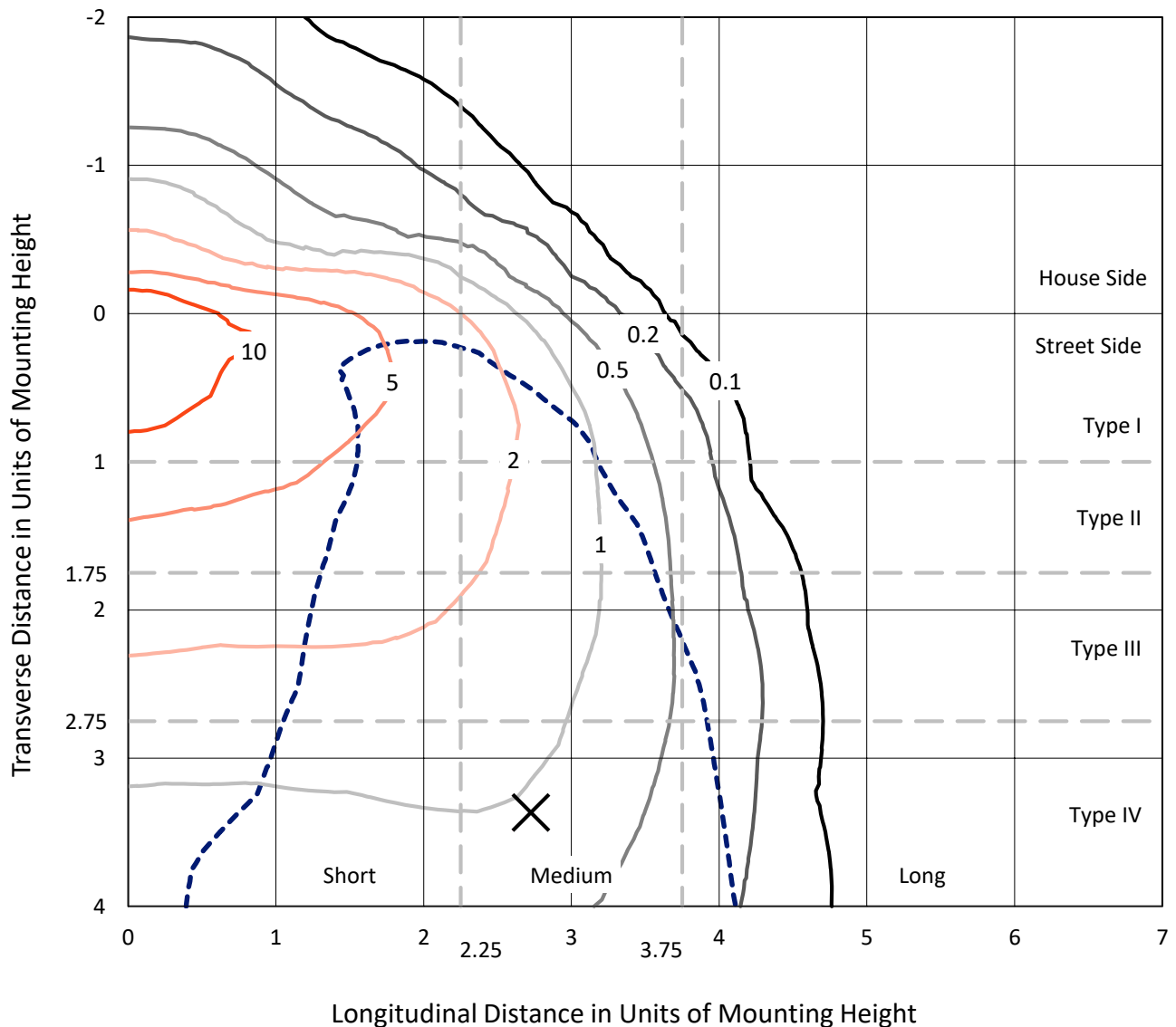
Input Watts (W): 198.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P402646
 CATALOG NUMBER: GAN-AF-10-LED-U-SL4-AMB

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

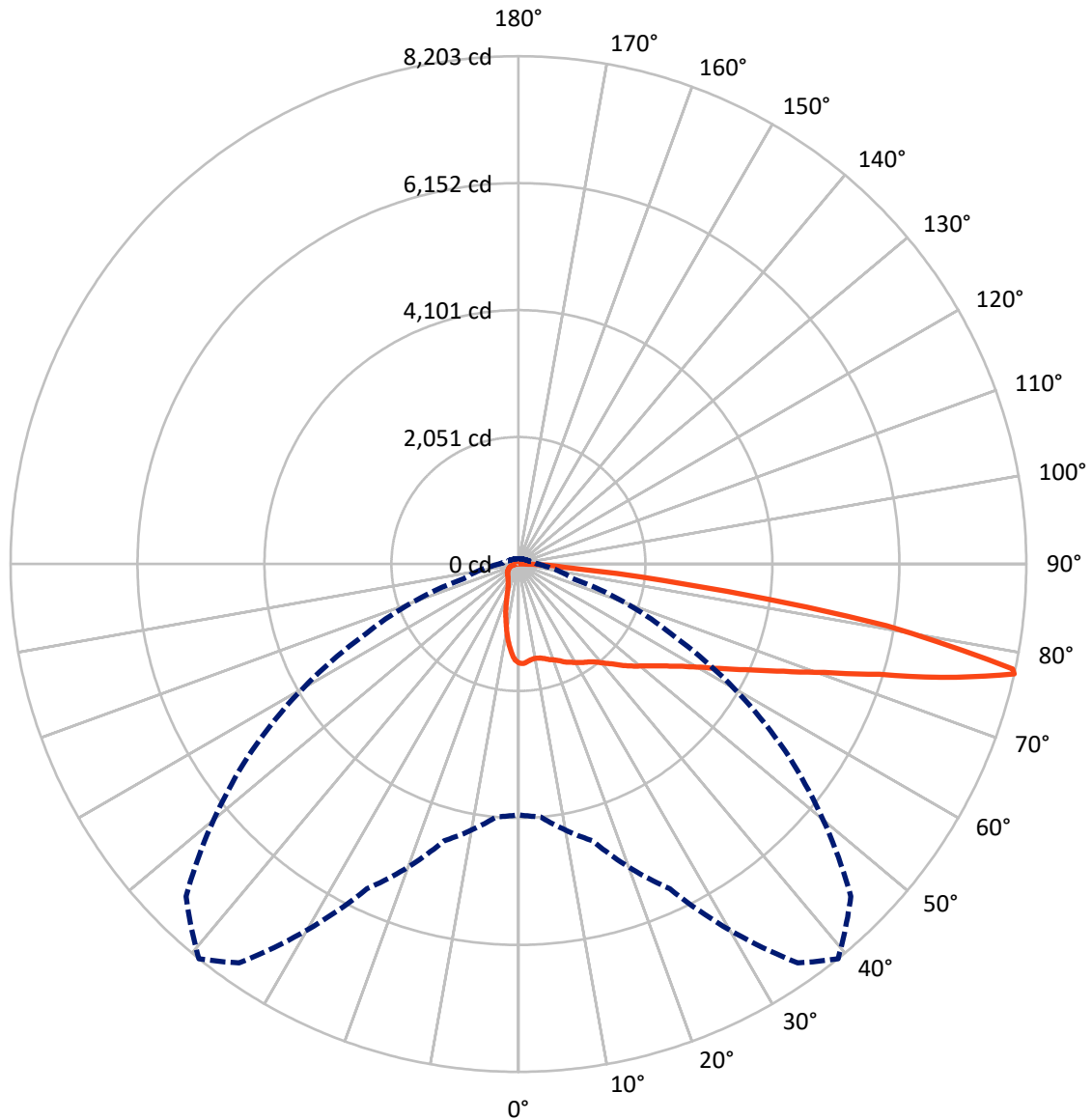


Based on 10 foot mounting height. Maximum calculated value = 16 fc
 Type IV - Medium - Non-Cutoff

REPORT NUMBER: P402646

CATALOG NUMBER: GAN-AF-10-LED-U-SL4-AMB

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 77-Deg Vertical



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CATALOG NUMBER: GAN-AF-10-LED-U-SL4-AMB

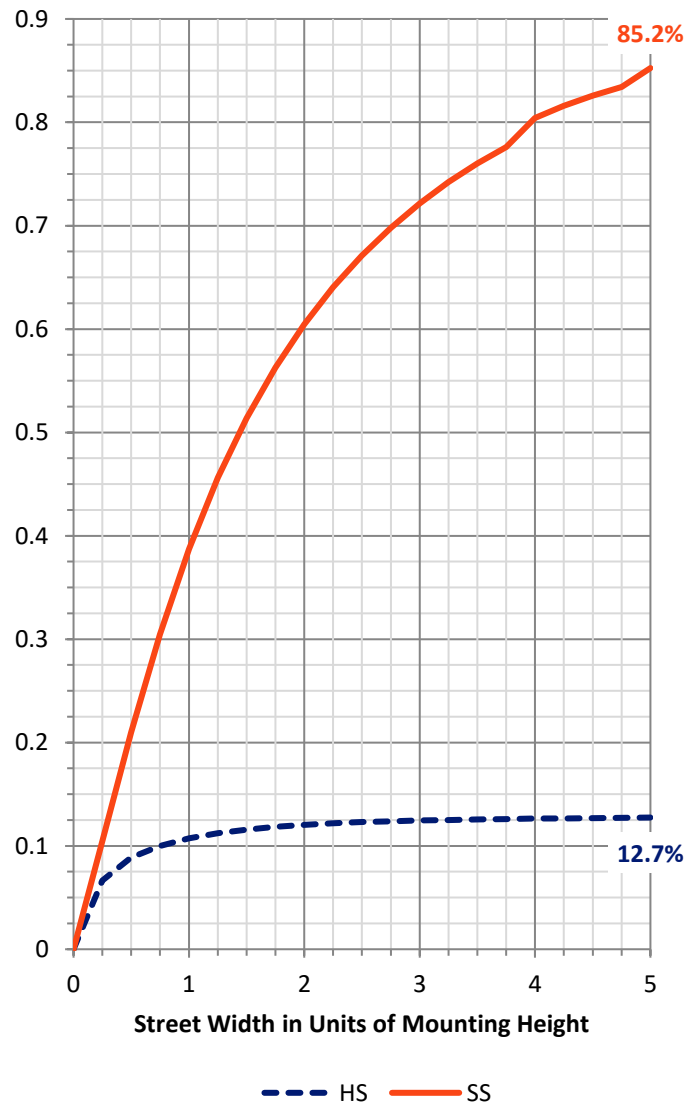
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1243.5	0.0	1243.5
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	8394.5	0.0	8394.5
	% Fixture	87.1	0.0	87.1
Total	Lumens	9638.0	0.0	9638.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.9	1.5
10°-20°	351.0	3.6
20°-30°	536.3	5.6
30°-40°	771.2	8.0
40°-50°	1119.7	11.6
50°-60°	1607.1	16.7
60°-70°	2213.5	23.0
70°-80°	2388.4	24.8
80°-90°	510.9	5.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	9638.0	100.0
0°-180°	9638.0	100.0

Coefficient of Utilization



REPORT NUMBER: P402646

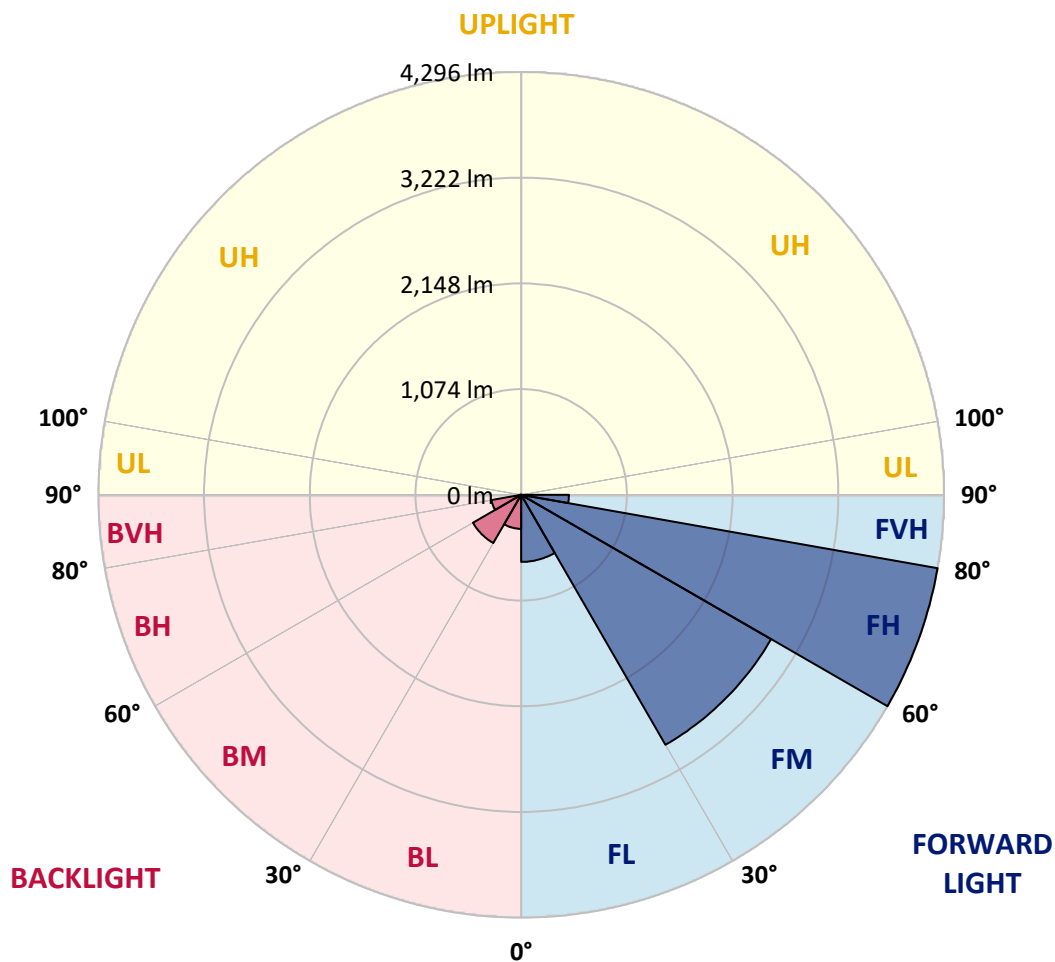
CATALOG NUMBER: GAN-AF-10-LED-U-SL4-AMB

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	681.7	7.1			
FM (30°-60°)	2932.1	30.4			
FH (60°-80°)	4295.5	44.6			G2/5000
FVH (80°-90°)	485.2	5.0			G3/500
BL (0°-30°)	345.5	3.6	B1/500		
BM (30°-60°)	565.9	5.9	B1/1000		
BH (60°-80°)	306.4	3.2	B1/500		G1/500
BVH (80°-90°)	25.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Medium





REPORT NUMBER: P402646

CATALOG NUMBER: GAN-AF-10-LED-U-SL4-AMB

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1601.6	1601.6	1601.6	1601.6	1601.6	1601.6	1601.6	1601.6	1601.6	1601.6	1601.6
2.5°	1618.9	1605.9	1605.9	1618.9	1610.3	1610.3	1601.6	1610.3	1601.6	1593.0	1601.6
5°	1597.3	1588.6	1584.3	1597.3	1588.6	1580.0	1588.6	1584.3	1580.0	1562.7	1562.7
7.5°	1558.3	1549.7	1549.7	1562.7	1567.0	1554.0	1558.3	1562.7	1549.7	1532.4	1536.7
10°	1523.7	1519.4	1528.0	1545.3	1554.0	1545.3	1554.0	1549.7	1532.4	1515.0	1510.7
12.5°	1497.7	1493.4	1506.4	1541.0	1558.3	1558.3	1562.7	1549.7	1536.7	1515.0	1497.7
15°	1480.4	1480.4	1506.4	1549.7	1575.6	1584.3	1588.6	1580.0	1549.7	1519.4	1497.7
17.5°	1489.1	1484.7	1519.4	1571.3	1601.6	1623.3	1623.3	1610.3	1571.3	1532.4	1506.4
20°	1510.7	1502.1	1545.3	1610.3	1649.2	1653.6	1662.2	1636.2	1597.3	1554.0	1523.7
22.5°	1519.4	1541.0	1588.6	1662.2	1683.9	1696.8	1696.8	1670.9	1614.6	1584.3	1549.7
25°	1588.6	1593.0	1649.2	1714.2	1735.8	1753.1	1744.5	1688.2	1640.6	1623.3	1593.0
27.5°	1662.2	1666.5	1722.8	1770.4	1783.4	1796.4	1800.7	1722.8	1675.2	1670.9	1631.9
30°	1727.1	1744.5	1800.7	1835.4	1835.4	1848.4	1844.0	1774.8	1722.8	1731.5	1692.5
32.5°	1839.7	1835.4	1891.6	1896.0	1874.3	1896.0	1896.0	1818.0	1783.4	1822.4	1761.8
35°	1934.9	1952.2	1978.2	1956.6	1926.3	1943.6	1952.2	1878.7	1861.3	1939.3	1874.3
37.5°	2064.8	2051.8	2064.8	2025.8	1982.5	2004.2	2025.8	1960.9	1969.6	2082.1	1999.9
40°	2164.3	2142.7	2151.4	2099.4	2056.1	2099.4	2121.1	2060.5	2099.4	2281.2	2181.7
42.5°	2246.6	2229.3	2212.0	2181.7	2147.0	2203.3	2237.9	2190.3	2272.6	2502.0	2406.8
45°	2302.9	2289.9	2263.9	2259.6	2263.9	2333.2	2376.5	2337.5	2450.0	2779.0	2657.8
47.5°	2337.5	2324.5	2328.8	2337.5	2372.1	2463.0	2540.9	2502.0	2683.8	3069.0	2895.9
50°	2385.1	2363.5	2367.8	2441.4	2493.3	2588.6	2714.1	2696.8	2934.9	3376.4	3155.6
52.5°	2445.7	2411.1	2411.1	2540.9	2623.2	2731.4	2891.6	2913.2	3194.6	3692.4	3419.7
55°	2545.3	2502.0	2471.7	2649.2	2792.0	2908.9	3095.0	3190.2	3475.9	4021.4	3662.1
57.5°	2653.5	2610.2	2562.6	2787.7	2978.1	3116.7	3328.8	3467.3	3796.3	4315.7	3835.2
60°	2822.3	2744.4	2696.8	2965.2	3237.9	3380.7	3640.4	3817.9	4133.9	4584.1	3991.1
62.5°	2943.5	2882.9	2869.9	3190.2	3558.2	3722.7	3969.4	4155.5	4445.6	4843.8	4125.2
65°	3069.0	3034.4	3038.7	3432.7	3939.1	4120.9	4389.3	4588.4	4848.1	5081.9	4138.2
67.5°	3246.5	3211.9	3285.5	3727.0	4380.6	4618.7	4891.4	5064.6	5229.1	5120.8	3904.5
70°	3480.3	3437.0	3571.2	4082.0	4930.4	5237.7	5549.4	5735.5	5415.2	4986.6	3155.6
72.5°	3722.7	3692.4	3913.1	4588.4	5700.9	6094.8	6449.7	6345.9	5506.1	4276.7	2056.1
75°	4017.0	4025.7	4380.6	5242.0	6930.2	7306.8	7605.5	6579.6	4649.0	2528.0	783.5
77°	4051.7	4099.3	4627.4	5787.5	7865.2	8202.9	7592.5	5255.0	2796.3	904.7	441.5
77.5°	3908.8	3952.1	4571.1	5865.4	7977.8	8163.9	7354.4	4908.7	2242.3	727.2	389.6
80°	2913.2	2869.9	3545.2	4891.4	6410.8	6029.9	4402.3	1904.6	653.6	376.6	238.1
82.5°	1151.4	1229.3	1657.9	2411.1	3134.0	2753.0	1649.2	831.1	393.9	203.4	99.6
85°	532.4	571.4	623.3	640.6	809.5	835.4	619.0	770.5	285.7	95.2	60.6
87.5°	389.6	406.9	458.8	406.9	393.9	372.3	454.5	839.8	142.8	56.3	30.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P402646

CATALOG NUMBER: GAN-AF-10-LED-U-SL4-AMB

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1601.6	1601.6	1601.6	1601.6	1601.6	1601.6	1601.6	1601.6	1601.6	1601.6	1601.6
2.5°	1588.6	1575.6	1580.0	1575.6	1567.0	1558.3	1549.7	1541.0	1545.3	1545.3	1532.4
5°	1554.0	1536.7	1528.0	1506.4	1480.4	1454.4	1424.1	1402.5	1385.2	1376.5	1385.2
7.5°	1519.4	1497.7	1480.4	1428.5	1385.2	1311.6	1264.0	1199.0	1190.4	1181.7	1173.1
10°	1493.4	1476.1	1432.8	1363.5	1272.6	1186.1	1077.8	1008.6	965.3	939.3	948.0
12.5°	1476.1	1454.4	1385.2	1277.0	1160.1	1030.2	909.0	818.1	766.2	731.5	722.9
15°	1471.8	1432.8	1333.2	1190.4	1034.6	887.4	766.2	658.0	575.7	549.7	541.1
17.5°	1471.8	1419.8	1285.6	1099.5	917.7	753.2	619.0	519.4	450.2	424.2	415.6
20°	1480.4	1415.5	1229.3	1008.6	800.8	619.0	502.1	419.9	380.9	363.6	363.6
22.5°	1493.4	1411.2	1168.7	909.0	688.3	519.4	415.6	367.9	350.6	337.6	337.6
25°	1519.4	1406.8	1116.8	818.1	588.7	445.9	372.3	342.0	324.7	320.3	320.3
27.5°	1554.0	1411.2	1064.9	731.5	497.8	393.9	342.0	324.7	316.0	311.7	311.7
30°	1588.6	1419.8	1008.6	636.3	432.9	355.0	320.3	307.3	303.0	298.7	298.7
32.5°	1627.6	1428.5	943.7	558.4	385.3	324.7	303.0	294.4	294.4	290.0	285.7
35°	1692.5	1445.8	870.1	484.8	346.3	303.0	290.0	281.4	281.4	277.0	277.0
37.5°	1783.4	1467.4	796.5	432.9	320.3	285.7	272.7	272.7	268.4	268.4	264.1
40°	1917.6	1528.0	735.9	389.6	298.7	272.7	264.1	259.7	259.7	255.4	255.4
42.5°	2069.1	1601.6	679.6	359.3	285.7	259.7	251.1	251.1	251.1	246.7	242.4
45°	2246.6	1670.9	627.7	337.6	272.7	251.1	242.4	242.4	238.1	233.7	233.7
47.5°	2437.1	1757.4	593.0	324.7	268.4	246.7	238.1	229.4	229.4	225.1	225.1
50°	2627.5	1831.0	562.7	316.0	264.1	238.1	229.4	225.1	220.8	212.1	212.1
52.5°	2809.3	1909.0	554.1	307.3	255.4	233.7	220.8	216.4	212.1	203.4	203.4
55°	2965.2	1999.9	562.7	303.0	251.1	225.1	212.1	207.8	203.4	194.8	194.8
57.5°	3077.7	2047.5	567.1	303.0	246.7	212.1	199.1	203.4	194.8	190.5	190.5
60°	3194.6	2090.8	562.7	303.0	242.4	199.1	186.1	194.8	190.5	186.1	186.1
62.5°	3272.5	2073.4	541.1	303.0	238.1	190.5	177.5	190.5	194.8	186.1	190.5
65°	3159.9	1878.7	476.2	294.4	238.1	181.8	164.5	186.1	199.1	194.8	194.8
67.5°	2753.0	1419.8	398.2	277.0	229.4	177.5	151.5	168.8	186.1	181.8	186.1
70°	1952.2	857.1	329.0	246.7	207.8	168.8	142.8	142.8	147.2	151.5	155.8
72.5°	1012.9	467.5	268.4	216.4	181.8	151.5	129.9	121.2	121.2	121.2	125.5
75°	445.9	307.3	220.8	177.5	151.5	129.9	116.9	103.9	103.9	99.6	99.6
77°	311.7	242.4	181.8	147.2	125.5	108.2	103.9	90.9	90.9	86.6	86.6
77.5°	281.4	225.1	177.5	138.5	121.2	103.9	99.6	86.6	86.6	86.6	86.6
80°	190.5	177.5	134.2	103.9	95.2	82.2	77.9	73.6	69.3	69.3	69.3
82.5°	112.5	129.9	95.2	73.6	69.3	60.6	56.3	56.3	56.3	51.9	47.6
85°	69.3	95.2	60.6	47.6	47.6	39.0	39.0	34.6	34.6	30.3	30.3
87.5°	30.3	60.6	34.6	21.6	17.3	13.0	17.3	13.0	13.0	8.7	13.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)