

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: P402645

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

Issue Date: 6/8/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P402645  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2003-697-9)  
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-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) NARROW BAND AMBER, 500mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

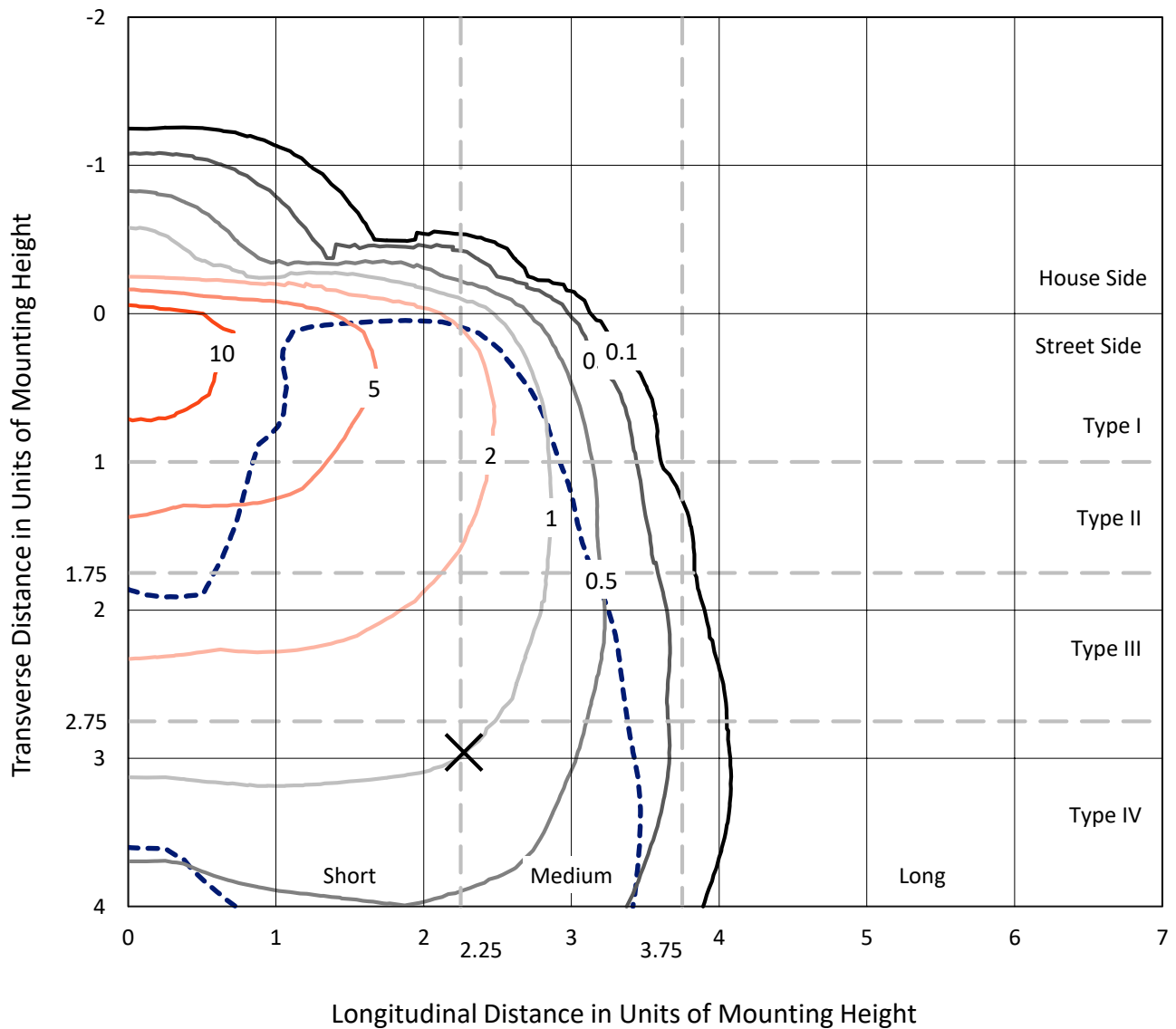
Lumens per Lamp: N/A  
Luminaire Lumens: 7747 lumens  
Efficiency: N/A  
Efficacy: 38.9 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium - Non-Cutoff  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 198.9  
Input Voltage (V): NR  
Input Current (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



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### Iso-Footcandle Lines of Horizontal Illumination

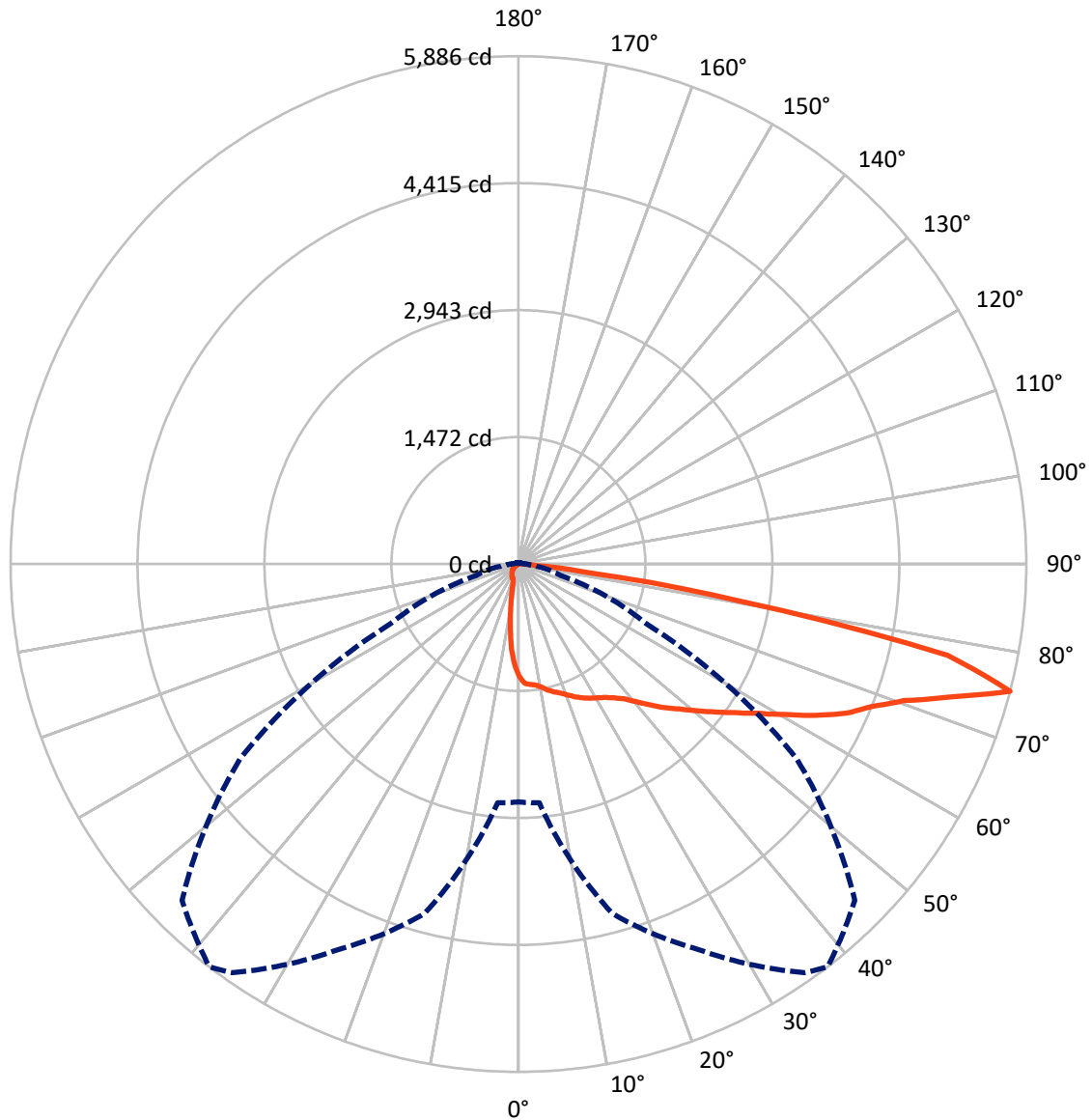
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14 fc  
 Type IV - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 37.5-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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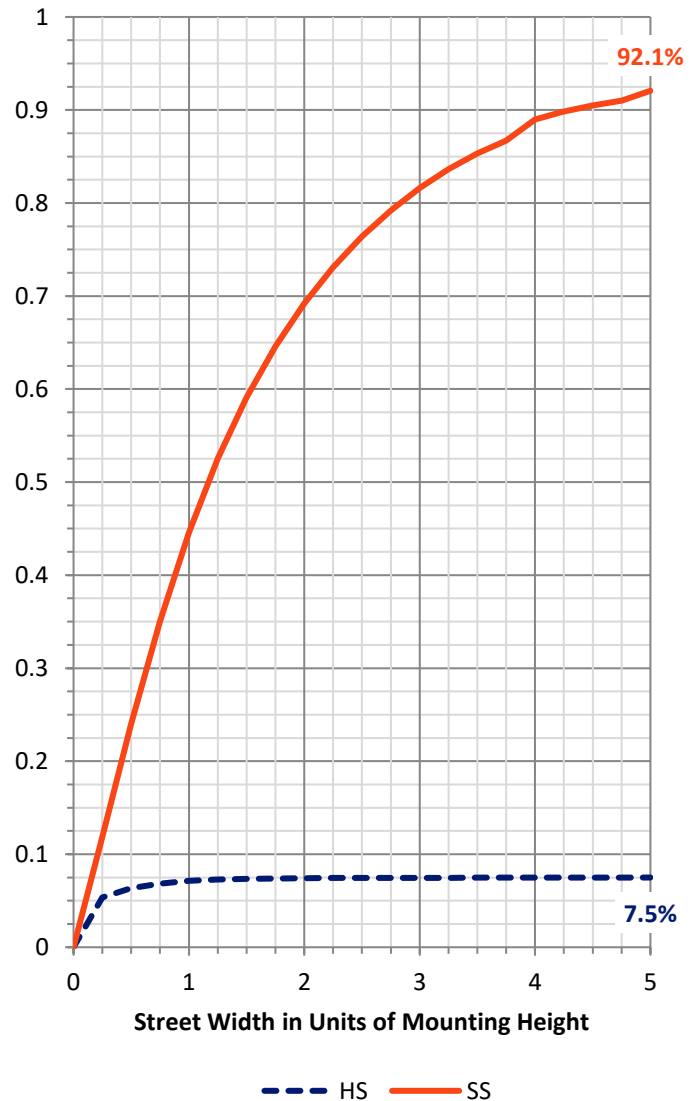
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	585.5	0.0	585.5
	% Fixture	7.6	0.0	7.6
<b>Street Side</b>	Lumens	7161.5	0.0	7161.5
	% Fixture	92.4	0.0	92.4
<b>Total</b>	Lumens	7747.0	0.0	7747.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.5	1.4
10°-20°	279.8	3.6
20°-30°	457.9	5.9
30°-40°	680.4	8.8
40°-50°	1018.6	13.1
50°-60°	1463.6	18.9
60°-70°	1961.5	25.3
70°-80°	1588.9	20.5
80°-90°	185.8	2.4
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°	7747.0	100.0
0°-180°	7747.0	100.0



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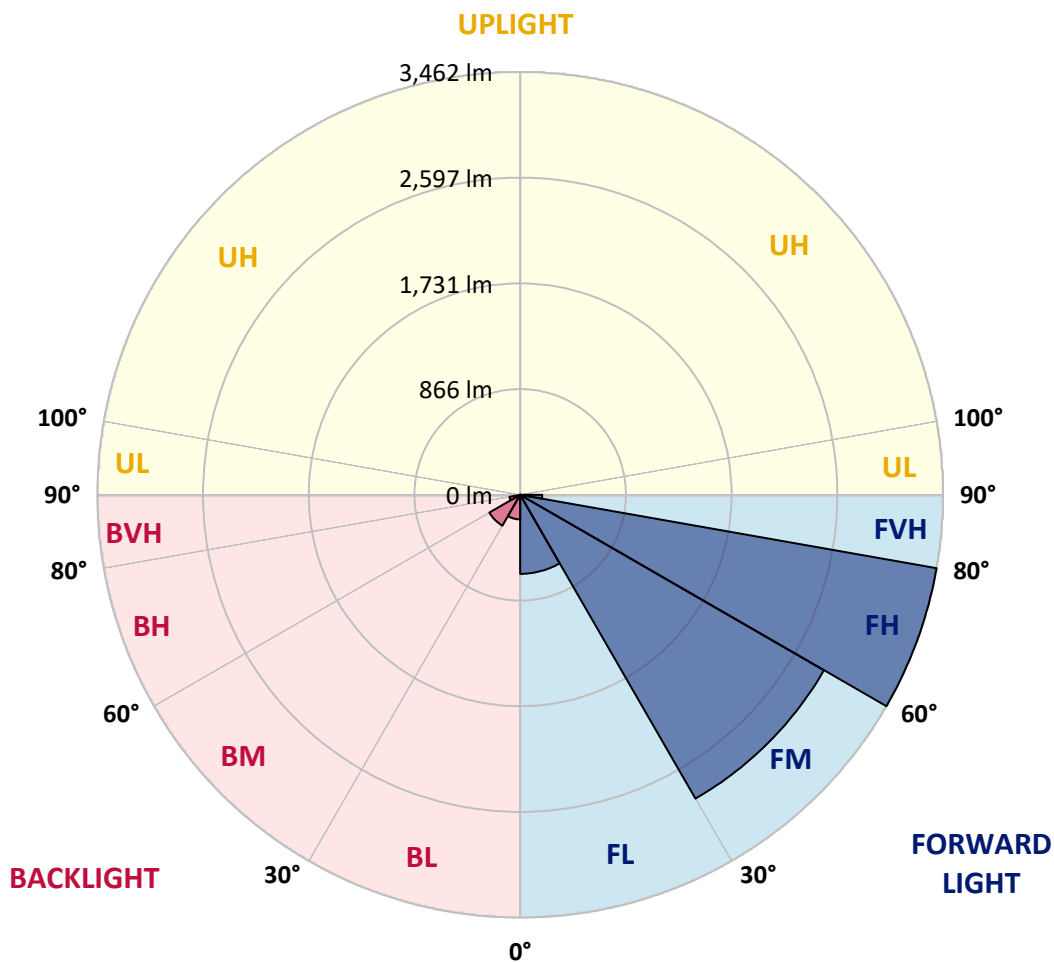
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	647.0	8.4			
FM	(30°-60°)	2871.9	37.1			
FH	(60°-80°)	3462.0	44.7			G2/5000
FVH	(80°-90°)	180.5	2.3			G2/225
BL	(0°-30°)	201.1	2.6	B1/500		
BM	(30°-60°)	290.8	3.8	B1/1000		
BH	(60°-80°)	88.4	1.1	B0/110		G0/110
BVH	(80°-90°)	5.3	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37.5°	45°	55°	65°	75°	85°
0°	1302.7	1302.7	1302.7	1302.7	1302.7	1302.7	1302.7	1302.7	1302.7	1302.7	1302.7
2.5°	1402.3	1398.0	1398.0	1389.3	1385.0	1385.0	1367.7	1363.3	1346.0	1328.7	1307.1
5°	1406.6	1406.6	1402.3	1406.6	1402.3	1402.3	1393.6	1389.3	1372.0	1337.4	1298.4
7.5°	1432.6	1428.2	1423.9	1423.9	1415.3	1415.3	1393.6	1385.0	1367.7	1346.0	1289.8
10°	1432.6	1432.6	1441.2	1449.9	1449.9	1449.9	1428.2	1402.3	1376.3	1354.7	1289.8
12.5°	1428.2	1428.2	1441.2	1471.5	1493.2	1497.5	1484.5	1449.9	1406.6	1367.7	1307.1
15°	1423.9	1428.2	1445.6	1488.8	1527.8	1536.4	1532.1	1506.2	1449.9	1393.6	1328.7
17.5°	1432.6	1441.2	1462.9	1523.5	1566.7	1571.1	1575.4	1558.1	1497.5	1428.2	1363.3
20°	1445.6	1449.9	1497.5	1571.1	1614.4	1618.7	1614.4	1588.4	1536.4	1471.5	1402.3
22.5°	1467.2	1475.9	1536.4	1618.7	1666.3	1670.6	1657.6	1614.4	1558.1	1506.2	1445.6
25°	1510.5	1519.1	1592.7	1674.9	1709.6	1718.2	1705.2	1653.3	1579.7	1545.1	1493.2
27.5°	1562.4	1575.4	1653.3	1731.2	1752.9	1761.5	1748.5	1687.9	1610.0	1597.0	1553.8
30°	1640.3	1649.0	1722.6	1787.5	1796.1	1800.5	1791.8	1722.6	1653.3	1653.3	1614.4
32.5°	1735.5	1748.5	1796.1	1843.7	1839.4	1843.7	1839.4	1765.8	1705.2	1739.9	1687.9
35°	1848.1	1835.1	1891.3	1913.0	1895.7	1904.3	1908.7	1835.1	1783.1	1852.4	1787.5
37.5°	1934.6	1934.6	1964.9	1986.6	1973.6	1982.2	1995.2	1926.0	1891.3	2012.5	1939.0
40°	2008.2	2008.2	2029.8	2073.1	2077.5	2094.8	2120.7	2038.5	2038.5	2198.6	2116.4
42.5°	2064.5	2073.1	2090.4	2146.7	2203.0	2233.3	2259.2	2177.0	2215.9	2436.7	2350.1
45°	2120.7	2129.4	2138.0	2220.3	2332.8	2376.1	2428.0	2350.1	2419.4	2687.7	2592.5
47.5°	2190.0	2190.0	2185.7	2315.5	2454.0	2510.3	2601.1	2536.2	2661.7	2995.0	2847.8
50°	2276.5	2267.9	2228.9	2415.0	2601.1	2670.4	2808.9	2744.0	2934.4	3315.3	3038.3
52.5°	2376.1	2354.4	2293.9	2518.9	2761.3	2847.8	3025.3	2982.0	3220.1	3570.6	3146.5
55°	2501.6	2467.0	2384.7	2644.4	2956.0	3042.6	3250.3	3276.3	3492.7	3717.8	3259.0
57.5°	2661.7	2596.8	2505.9	2800.2	3181.1	3263.3	3505.7	3562.0	3674.5	3860.6	3401.8
60°	2821.9	2752.6	2670.4	3012.3	3427.8	3540.3	3778.4	3800.0	3821.6	4059.7	3557.6
62.5°	2964.7	2925.7	2878.1	3250.3	3765.4	3864.9	4012.1	3981.8	4007.8	4293.4	3683.1
65°	3146.5	3107.5	3098.9	3523.0	4085.7	4172.2	4189.5	4202.5	4297.7	4522.8	3748.1
67.5°	3302.3	3289.3	3367.2	3847.6	4375.6	4410.3	4475.2	4548.8	4600.7	4626.7	3315.3
70°	3523.0	3501.4	3674.5	4172.2	4665.6	4739.2	4968.6	5042.1	4682.9	3791.4	2029.8
72.5°	3544.7	3583.6	4055.4	4509.8	5098.4	5258.6	5544.2	5150.4	3639.9	2034.2	631.9
75°	2757.0	2778.6	4189.5	4929.6	5782.2	5886.1	5513.9	3938.5	1627.3	502.1	142.8
77.5°	1536.4	1618.7	2800.2	4574.7	5254.2	5089.8	3769.7	1739.9	419.8	112.5	73.6
80°	1125.3	1164.2	1350.3	2618.5	2973.4	2614.1	1571.1	662.2	229.4	77.9	51.9
82.5°	333.3	359.2	696.8	844.0	1051.7	835.3	471.8	506.4	147.2	56.3	43.3
85°	90.9	95.2	238.0	333.3	303.0	194.8	173.1	437.1	60.6	39.0	34.6
87.5°	43.3	43.3	73.6	147.2	125.5	103.9	142.8	255.4	13.0	13.0	8.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1302.7	1302.7	1302.7	1302.7	1302.7	1302.7	1302.7	1302.7	1302.7	1302.7	1302.7
2.5°	1294.1	1285.4	1250.8	1233.5	1216.2	1185.9	1168.6	1155.6	1151.3	1142.6	1146.9
5°	1272.4	1242.1	1185.9	1138.3	1082.0	1021.4	986.8	947.8	908.9	900.2	895.9
7.5°	1255.1	1211.8	1125.3	1034.4	939.2	835.3	740.1	679.5	618.9	610.3	605.9
10°	1246.5	1185.9	1060.4	926.2	770.4	627.6	523.7	454.4	411.2	389.5	380.9
12.5°	1246.5	1172.9	1008.4	818.0	618.9	463.1	359.2	290.0	259.7	246.7	242.4
15°	1255.1	1164.2	947.8	692.5	484.7	328.9	251.0	216.4	203.4	199.1	203.4
17.5°	1276.8	1164.2	891.6	584.3	367.9	242.4	199.1	194.8	190.4	190.4	190.4
20°	1307.1	1172.9	831.0	489.1	272.7	199.1	186.1	186.1	186.1	186.1	186.1
22.5°	1341.7	1177.2	761.7	398.2	220.7	181.8	177.4	177.4	177.4	177.4	177.4
25°	1376.3	1185.9	688.2	311.6	181.8	173.1	168.8	173.1	173.1	173.1	173.1
27.5°	1419.6	1194.5	614.6	246.7	168.8	164.5	164.5	164.5	164.5	164.5	164.5
30°	1458.5	1194.5	545.3	203.4	160.1	155.8	155.8	155.8	155.8	155.8	155.8
32.5°	1506.2	1190.2	471.8	168.8	151.5	147.2	142.8	147.2	147.2	147.2	142.8
35°	1575.4	1190.2	389.5	155.8	142.8	138.5	134.2	134.2	134.2	134.2	134.2
37.5°	1666.3	1207.5	307.3	142.8	129.8	125.5	125.5	125.5	121.2	121.2	121.2
40°	1800.5	1237.8	246.7	134.2	121.2	116.9	112.5	112.5	108.2	103.9	103.9
42.5°	1960.6	1272.4	203.4	125.5	112.5	108.2	103.9	99.5	95.2	90.9	90.9
45°	2120.7	1298.4	160.1	116.9	103.9	99.5	95.2	90.9	82.2	77.9	73.6
47.5°	2289.5	1298.4	129.8	108.2	99.5	90.9	86.6	77.9	69.2	60.6	60.6
50°	2389.1	1250.8	116.9	99.5	90.9	82.2	77.9	64.9	56.3	47.6	47.6
52.5°	2445.3	1185.9	108.2	90.9	86.6	77.9	64.9	56.3	43.3	34.6	34.6
55°	2492.9	1155.6	99.5	86.6	77.9	69.2	56.3	43.3	30.3	26.0	26.0
57.5°	2553.5	1108.0	90.9	77.9	69.2	60.6	47.6	34.6	21.6	17.3	17.3
60°	2605.5	1043.1	82.2	73.6	64.9	51.9	39.0	26.0	13.0	8.7	8.7
62.5°	2631.4	943.5	73.6	64.9	56.3	43.3	30.3	17.3	8.7	4.3	4.3
65°	2557.9	792.0	69.2	56.3	47.6	34.6	21.6	8.7	4.3	0.0	0.0
67.5°	2090.4	510.7	56.3	47.6	39.0	26.0	17.3	8.7	4.3	0.0	0.0
70°	1073.4	216.4	47.6	39.0	34.6	21.6	13.0	4.3	0.0	0.0	0.0
72.5°	281.3	77.9	39.0	34.6	30.3	21.6	8.7	4.3	0.0	0.0	0.0
75°	86.6	51.9	30.3	26.0	26.0	17.3	8.7	4.3	0.0	0.0	0.0
77.5°	60.6	39.0	26.0	21.6	21.6	17.3	8.7	4.3	0.0	0.0	0.0
80°	47.6	34.6	21.6	17.3	21.6	21.6	8.7	4.3	0.0	0.0	0.0
82.5°	39.0	30.3	17.3	17.3	21.6	21.6	13.0	4.3	0.0	0.0	0.0
85°	30.3	21.6	17.3	17.3	21.6	17.3	8.7	4.3	0.0	0.0	0.0
87.5°	8.7	8.7	4.3	4.3	4.3	8.7	8.7	4.3	0.0	0.0	0.0
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)