

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: P402643

Luminaire Tested: **GAN-AF-10-LED-U-SL3-AMB-HSS**

Issue Date: 6/8/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P402643  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2003-697-7)  
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-SL3-AMB-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) NARROW BAND AMBER, 500mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

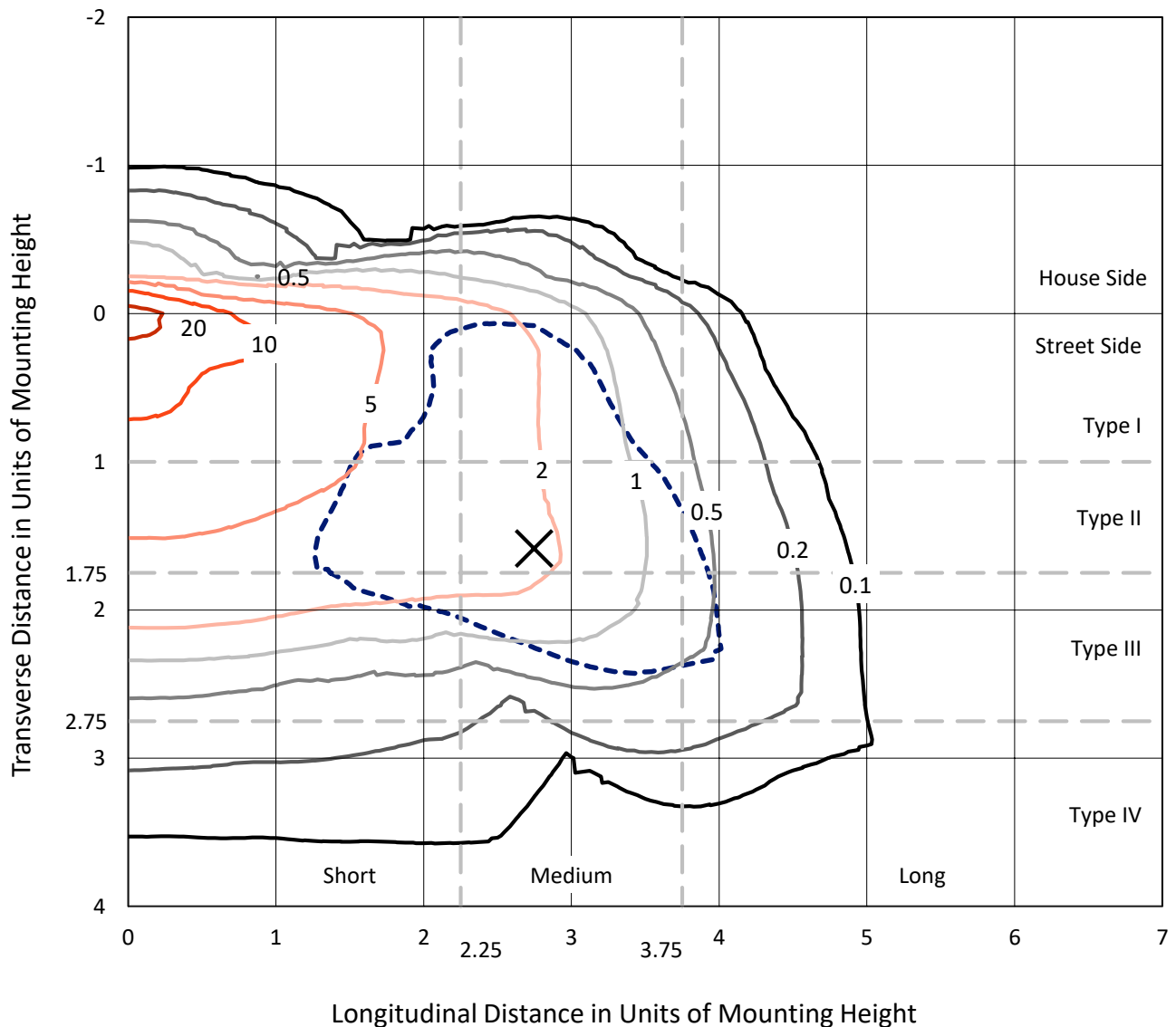
Lumens per Lamp: N/A  
Luminaire Lumens: 8033 lumens  
Efficiency: N/A  
Efficacy: 40.4 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 198.9  
Input Voltage (V): NR  
Input Current (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

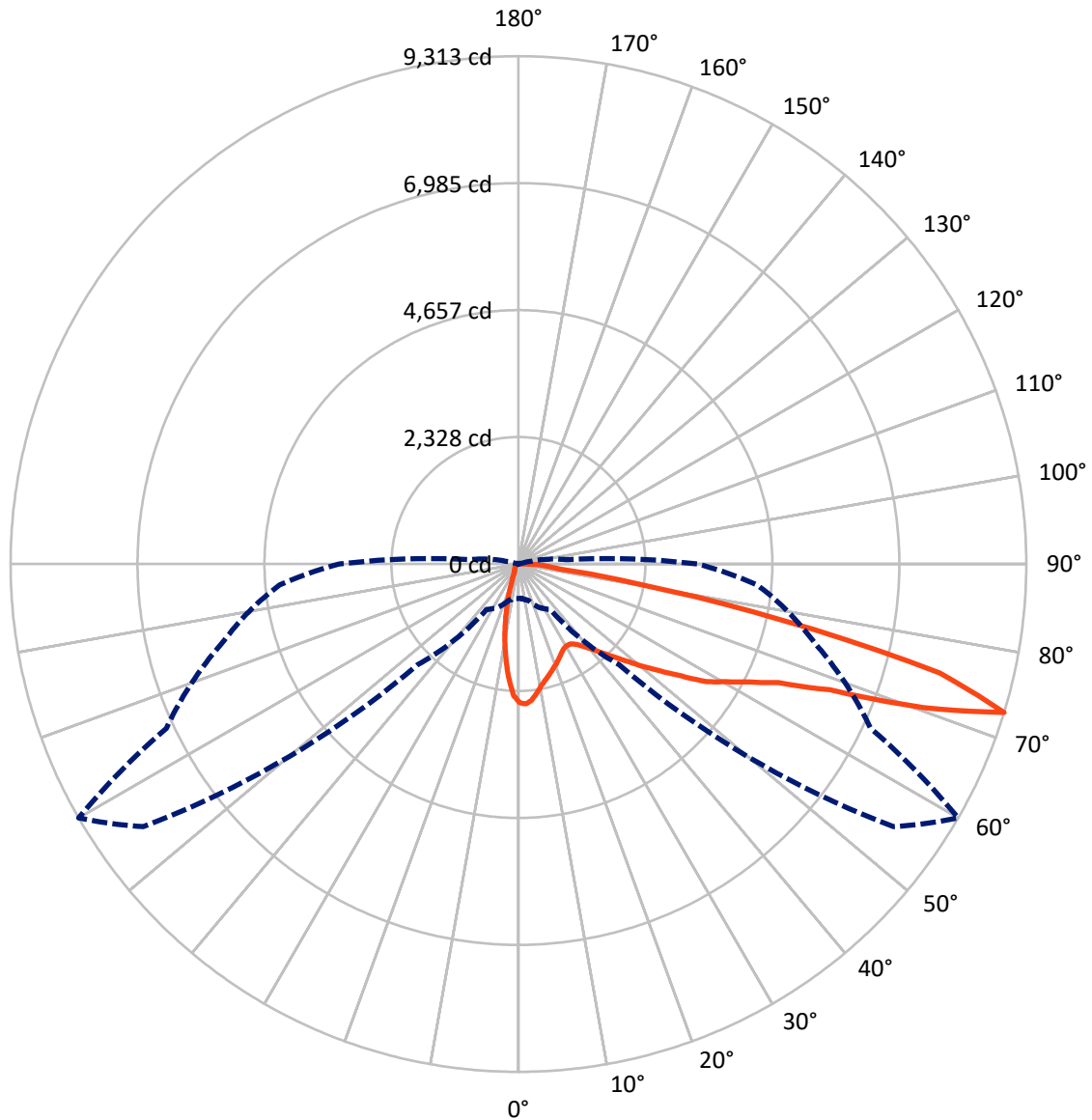


Based on 10 foot mounting height. Maximum calculated value = 25.4 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical



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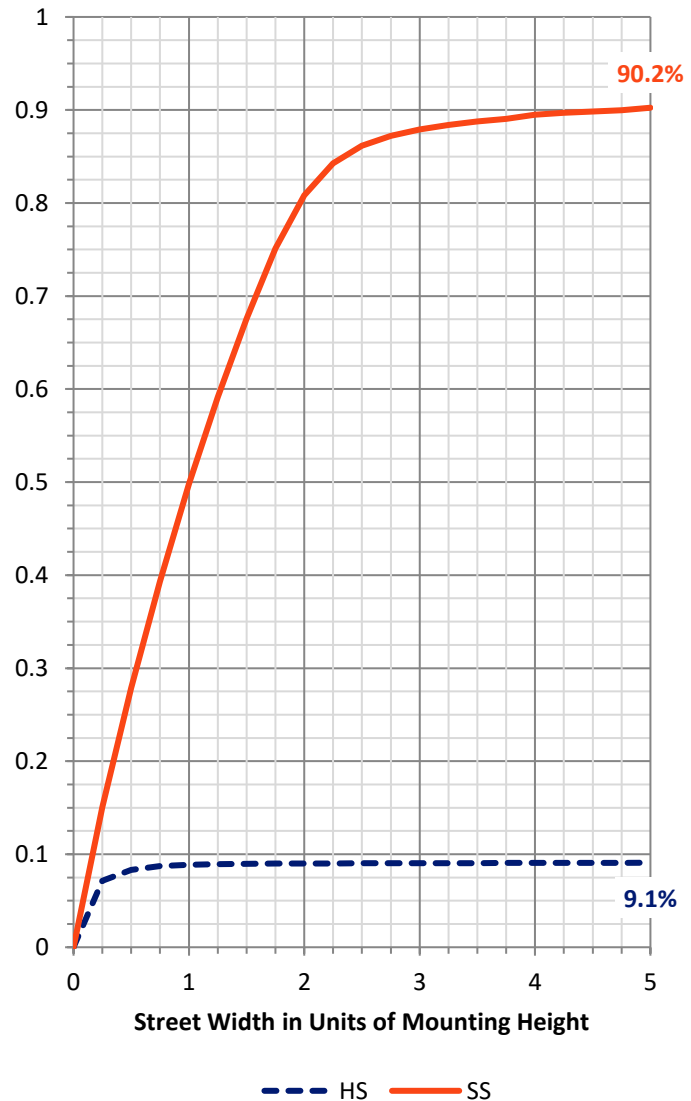
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	737.4	0.0	737.4
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	7295.6	0.0	7295.6
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	8033.0	0.0	8033.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	197.5	2.5
10°-20°	386.0	4.8
20°-30°	506.6	6.3
30°-40°	683.2	8.5
40°-50°	1017.0	12.7
50°-60°	1577.7	19.6
60°-70°	2164.1	26.9
70°-80°	1364.3	17.0
80°-90°	136.6	1.7
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°	8033.0	100.0
0°-180°	8033.0	100.0



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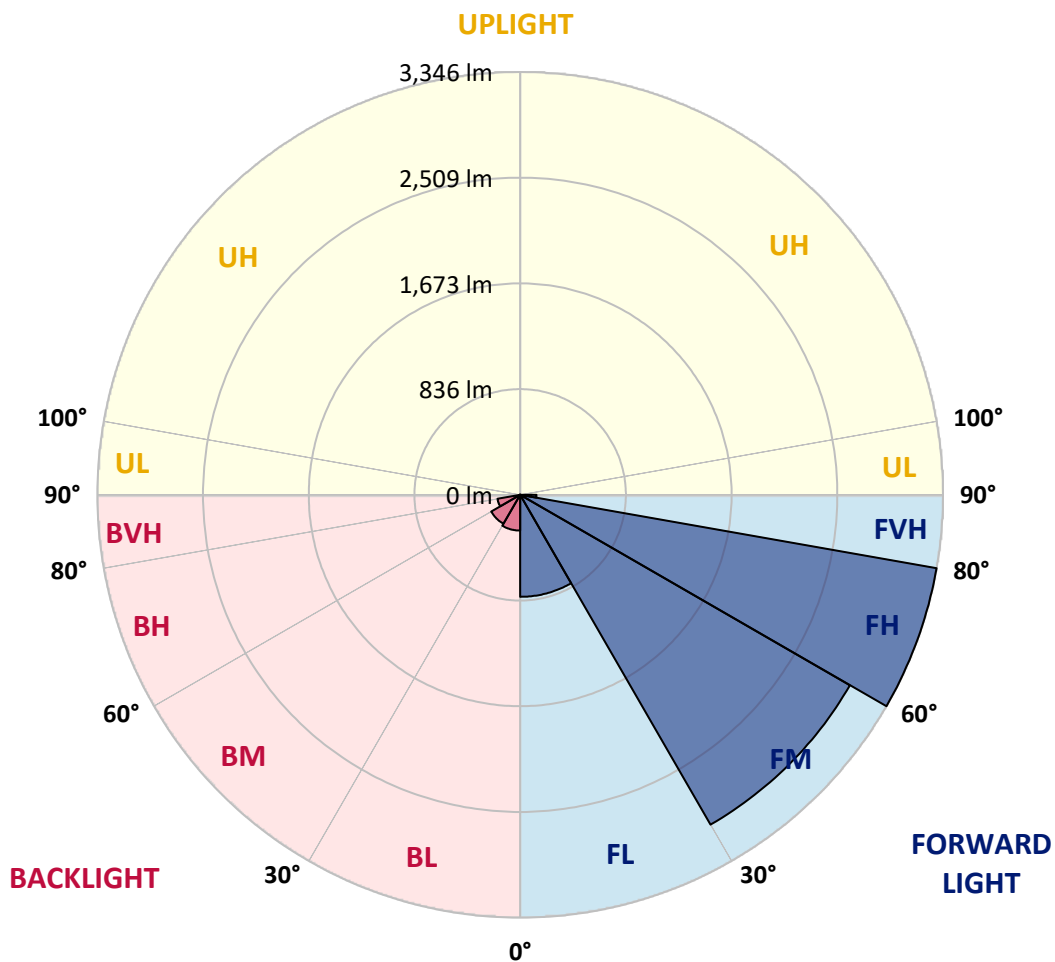
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	807.2	10.0			
FM (30°-60°)	3013.2	37.5			
FH (60°-80°)	3345.9	41.7			G2/5000
FVH (80°-90°)	129.2	1.6			G2/225
BL (0°-30°)	282.9	3.5	B1/500		
BM (30°-60°)	264.7	3.3	B1/1000		
BH (60°-80°)	182.5	2.3	B1/500		G1/500
BVH (80°-90°)	7.4	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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	2540.3	2540.3	2540.3	2540.3	2540.3	2540.3	2540.3	2540.3	2540.3	2540.3	2540.3
2.5°	2583.6	2579.3	2579.3	2583.6	2587.9	2574.9	2574.9	2570.6	2557.6	2553.3	2527.3
5°	2419.1	2432.1	2432.1	2449.4	2466.7	2475.4	2510.0	2510.0	2505.7	2505.7	2466.7
7.5°	2220.1	2220.1	2250.4	2280.7	2323.9	2336.9	2375.9	2393.2	2401.8	2423.5	2388.9
10°	2042.6	2055.6	2060.0	2103.2	2142.2	2189.8	2254.7	2276.3	2298.0	2341.2	2306.6
12.5°	1908.5	1917.1	1930.1	1969.1	2016.7	2068.6	2146.5	2185.5	2207.1	2267.7	2241.7
15°	1770.0	1778.7	1804.6	1839.2	1904.2	1969.1	2055.6	2107.6	2146.5	2215.7	2194.1
17.5°	1679.1	1683.4	1687.8	1718.1	1783.0	1869.5	1977.7	2029.7	2081.6	2168.1	2159.5
20°	1635.8	1640.2	1635.8	1653.2	1692.1	1765.7	1895.5	1964.7	2021.0	2146.5	2133.5
22.5°	1622.9	1627.2	1618.5	1614.2	1631.5	1696.4	1813.3	1891.2	1969.1	2142.2	2124.9
25°	1631.5	1631.5	1618.5	1605.6	1605.6	1640.2	1739.7	1821.9	1917.1	2150.8	2116.2
27.5°	1666.1	1661.8	1648.8	1622.9	1601.2	1614.2	1692.1	1765.7	1869.5	2163.8	2116.2
30°	1709.4	1705.1	1700.8	1679.1	1640.2	1614.2	1670.5	1739.7	1843.6	2194.1	2120.5
32.5°	1757.0	1761.3	1761.3	1744.0	1700.8	1644.5	1683.4	1748.4	1847.9	2237.4	2133.5
35°	1843.6	1834.9	1847.9	1839.2	1791.6	1718.1	1748.4	1804.6	1891.2	2285.0	2163.8
37.5°	1925.8	1925.8	1943.1	1947.4	1904.2	1813.3	1852.2	1908.5	1960.4	2362.9	2220.1
40°	2021.0	2016.7	2042.6	2068.6	2034.0	1956.1	1995.0	2042.6	2090.2	2479.7	2315.3
42.5°	2098.9	2107.6	2146.5	2189.8	2202.8	2094.6	2159.5	2211.4	2233.1	2609.6	2458.1
45°	2172.5	2185.5	2259.0	2328.3	2371.5	2285.0	2358.6	2414.8	2436.5	2774.0	2631.2
47.5°	2250.4	2267.7	2358.6	2466.7	2544.6	2501.4	2583.6	2652.8	2665.8	2977.4	2890.9
50°	2332.6	2349.9	2453.8	2600.9	2730.7	2756.7	2860.6	2942.8	2929.8	3180.8	3154.8
52.5°	2436.5	2458.1	2600.9	2765.4	2942.8	3020.7	3180.8	3254.4	3215.4	3444.8	3397.2
55°	2709.1	2717.8	2817.3	2986.1	3167.8	3323.6	3557.3	3622.2	3522.7	3639.5	3643.9
57.5°	3172.2	3172.2	3193.8	3245.7	3414.5	3643.9	4016.0	4072.3	3886.2	3838.6	3860.2
60°	3449.1	3492.4	3583.3	3682.8	3760.7	3990.1	4379.6	4379.6	4115.6	4046.3	4055.0
62.5°	3379.9	3414.5	3682.8	3907.9	4258.4	4552.7	4773.4	4764.7	4375.2	4241.1	4301.7
65°	2475.4	2536.0	2882.2	3587.6	4453.1	5331.6	5431.2	5240.8	4695.5	4535.4	4782.0
67.5°	1328.6	1376.2	1666.1	2298.0	3514.0	5863.9	6781.4	6158.2	5271.1	5136.9	5271.1
70°	874.2	865.5	887.2	1129.5	1921.5	4859.9	8590.3	7880.6	6227.5	5617.3	5275.4
72.5°	631.8	631.8	688.1	874.2	1017.0	2609.6	8395.6	9313.1	7123.3	5630.2	4396.9
75°	424.1	432.8	523.6	705.4	947.8	856.9	6530.4	7980.2	7002.1	4228.1	2293.6
77.5°	220.7	233.7	346.2	558.3	869.9	766.0	3656.8	4942.2	4115.6	1943.1	510.7
80°	99.5	103.9	151.5	419.8	796.3	709.7	1194.4	2202.8	1302.6	233.7	86.6
82.5°	47.6	47.6	64.9	207.7	657.8	610.2	735.7	783.3	307.3	73.6	60.6
85°	17.3	17.3	34.6	116.8	389.5	367.8	627.5	523.6	173.1	47.6	43.3
87.5°	8.7	8.7	13.0	34.6	103.9	298.6	432.8	346.2	73.6	17.3	17.3
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°	2540.3	2540.3	2540.3	2540.3	2540.3	2540.3	2540.3	2540.3	2540.3	2540.3	2540.3
2.5°	2514.4	2501.4	2466.7	2436.5	2397.5	2345.6	2336.9	2285.0	2241.7	2237.4	2224.4
5°	2445.1	2406.2	2319.6	2194.1	2077.3	1982.1	1878.2	1813.3	1778.7	1739.7	1765.7
7.5°	2349.9	2285.0	2111.9	1917.1	1726.7	1562.3	1402.2	1285.3	1237.7	1168.5	1181.4
10°	2250.4	2159.5	1908.5	1614.2	1367.5	1125.2	917.5	744.4	653.5	623.2	623.2
12.5°	2181.1	2051.3	1700.8	1332.9	1008.3	696.7	506.3	367.8	277.0	246.7	246.7
15°	2111.9	1951.8	1510.3	1064.6	666.5	402.5	242.3	207.7	203.4	203.4	203.4
17.5°	2051.3	1834.9	1311.3	813.6	437.1	225.0	199.1	194.7	190.4	190.4	190.4
20°	1990.7	1731.1	1142.5	584.2	242.3	190.4	181.8	181.8	181.8	181.8	177.4
22.5°	1934.5	1640.2	960.7	402.5	186.1	173.1	168.8	168.8	168.8	164.4	164.4
25°	1891.2	1557.9	796.3	255.3	164.4	160.1	155.8	151.5	147.1	147.1	147.1
27.5°	1847.9	1480.0	623.2	177.4	151.5	142.8	138.5	134.2	125.5	125.5	121.2
30°	1817.6	1402.2	497.7	151.5	138.5	129.8	121.2	112.5	103.9	99.5	99.5
32.5°	1800.3	1341.6	372.2	138.5	125.5	112.5	103.9	95.2	86.6	77.9	77.9
35°	1787.3	1281.0	255.3	125.5	112.5	99.5	90.9	77.9	64.9	60.6	60.6
37.5°	1808.9	1237.7	173.1	116.8	103.9	90.9	73.6	64.9	56.3	51.9	51.9
40°	1856.6	1203.1	138.5	108.2	95.2	77.9	64.9	51.9	43.3	38.9	38.9
42.5°	1938.8	1190.1	121.2	103.9	86.6	69.2	51.9	43.3	38.9	34.6	34.6
45°	2090.2	1185.8	112.5	95.2	77.9	56.3	43.3	34.6	30.3	26.0	26.0
47.5°	2259.0	1194.4	108.2	90.9	69.2	51.9	38.9	30.3	26.0	21.6	21.6
50°	2466.7	1229.0	99.5	82.2	64.9	43.3	30.3	26.0	17.3	17.3	17.3
52.5°	2665.8	1263.7	95.2	77.9	56.3	38.9	26.0	17.3	17.3	13.0	13.0
55°	2860.6	1341.6	86.6	77.9	51.9	30.3	21.6	17.3	13.0	8.7	8.7
57.5°	3055.3	1397.8	82.2	69.2	43.3	26.0	17.3	13.0	8.7	8.7	8.7
60°	3254.4	1449.8	73.6	60.6	34.6	21.6	13.0	8.7	8.7	8.7	8.7
62.5°	3505.4	1536.3	64.9	51.9	30.3	17.3	13.0	8.7	4.3	4.3	4.3
65°	3977.1	1683.4	56.3	43.3	21.6	17.3	13.0	8.7	4.3	4.3	4.3
67.5°	4280.0	1661.8	47.6	34.6	21.6	13.0	8.7	8.7	4.3	4.3	4.3
70°	4219.4	1501.7	38.9	30.3	17.3	13.0	8.7	8.7	4.3	4.3	4.3
72.5°	3280.3	913.1	34.6	26.0	17.3	13.0	8.7	8.7	4.3	4.3	4.3
75°	1497.4	203.4	30.3	21.6	13.0	13.0	8.7	8.7	4.3	4.3	4.3
77.5°	264.0	51.9	26.0	17.3	17.3	13.0	13.0	8.7	4.3	4.3	4.3
80°	69.2	34.6	26.0	17.3	17.3	21.6	17.3	13.0	4.3	4.3	4.3
82.5°	47.6	26.0	26.0	21.6	21.6	26.0	21.6	13.0	4.3	4.3	4.3
85°	34.6	21.6	26.0	26.0	17.3	21.6	21.6	13.0	4.3	4.3	4.3
87.5°	17.3	8.7	8.7	8.7	8.7	13.0	13.0	4.3	4.3	4.3	4.3
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)