

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: P402635

Luminaire Tested: **GAN-AF-09-LED-U-SL3-AMB-HSS**

Issue Date: 6/8/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P402635  
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-09-LED-U-SL3-AMB-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 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: 7192 lumens  
Efficiency: N/A  
Efficacy: 40.3 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

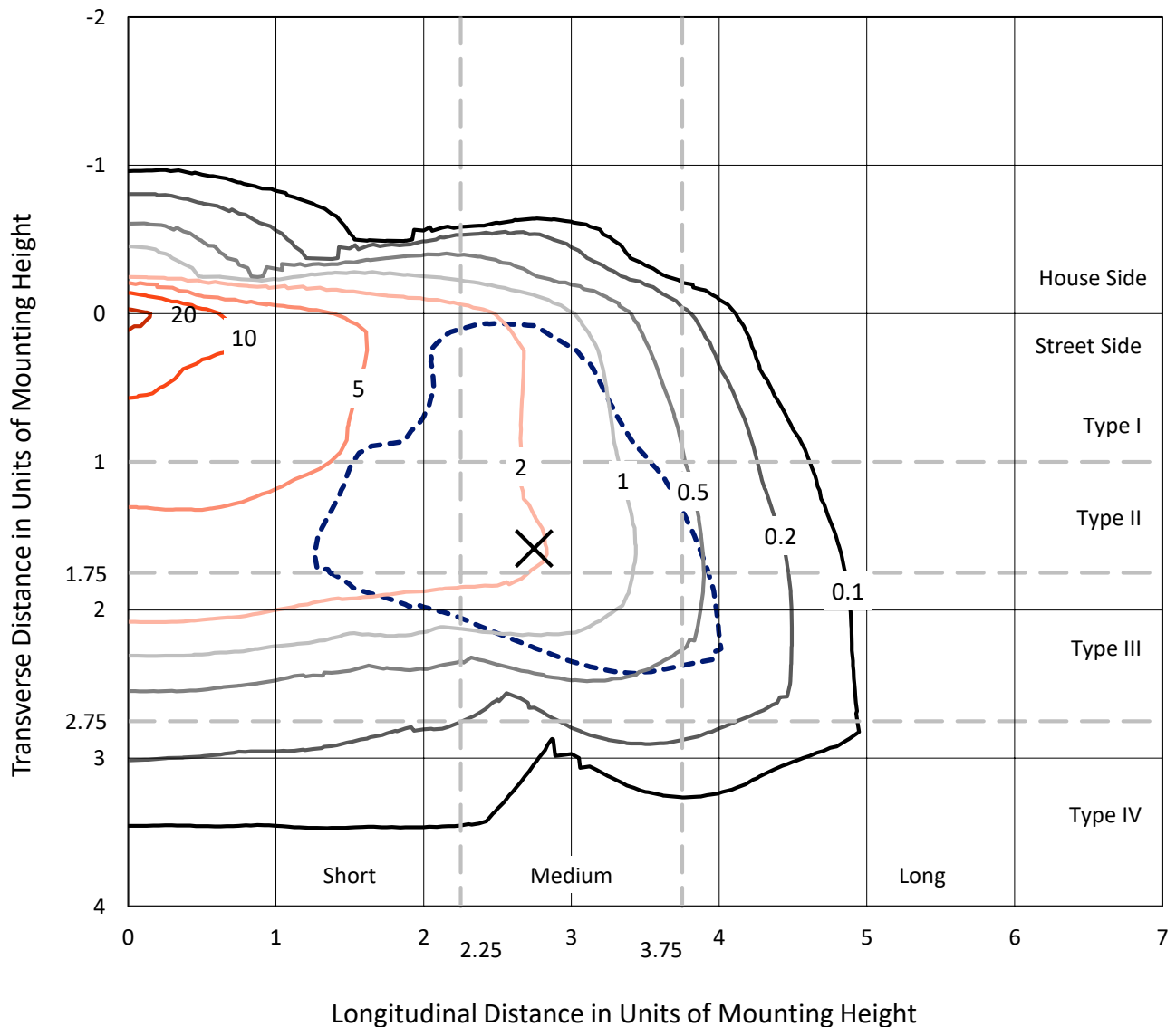
Input Watts (W): 178.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

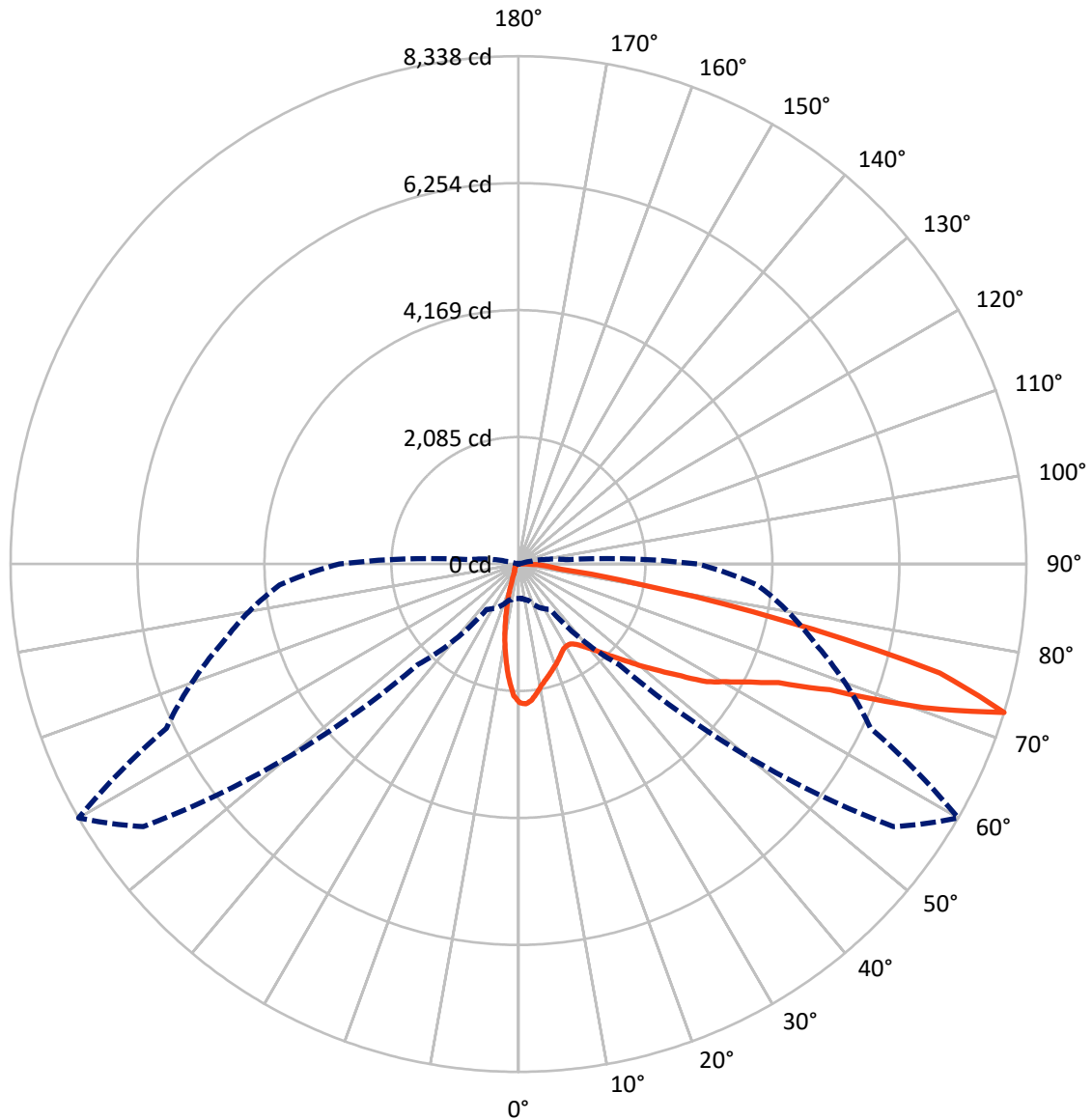
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.7 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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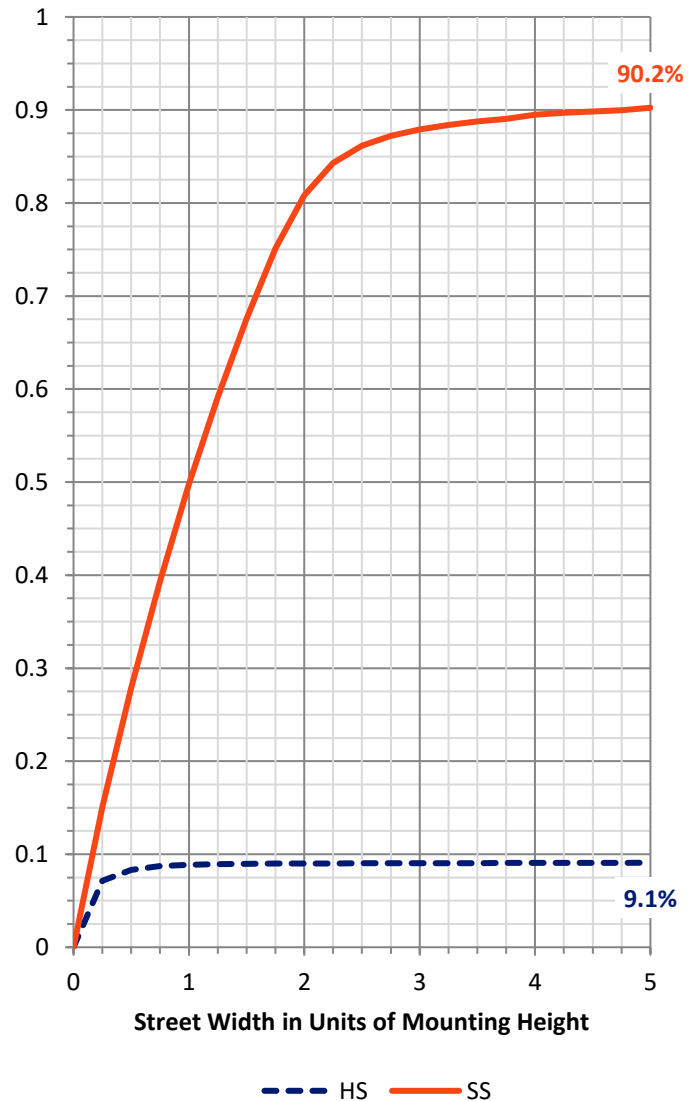
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	660.2	0.0	660.2
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	6531.8	0.0	6531.8
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	7192.0	0.0	7192.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	176.8	2.5
10°-20°	345.6	4.8
20°-30°	453.6	6.3
30°-40°	611.6	8.5
40°-50°	910.5	12.7
50°-60°	1412.6	19.6
60°-70°	1937.6	26.9
70°-80°	1221.4	17.0
80°-90°	122.3	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°	7192.0	100.0
0°-180°	7192.0	100.0



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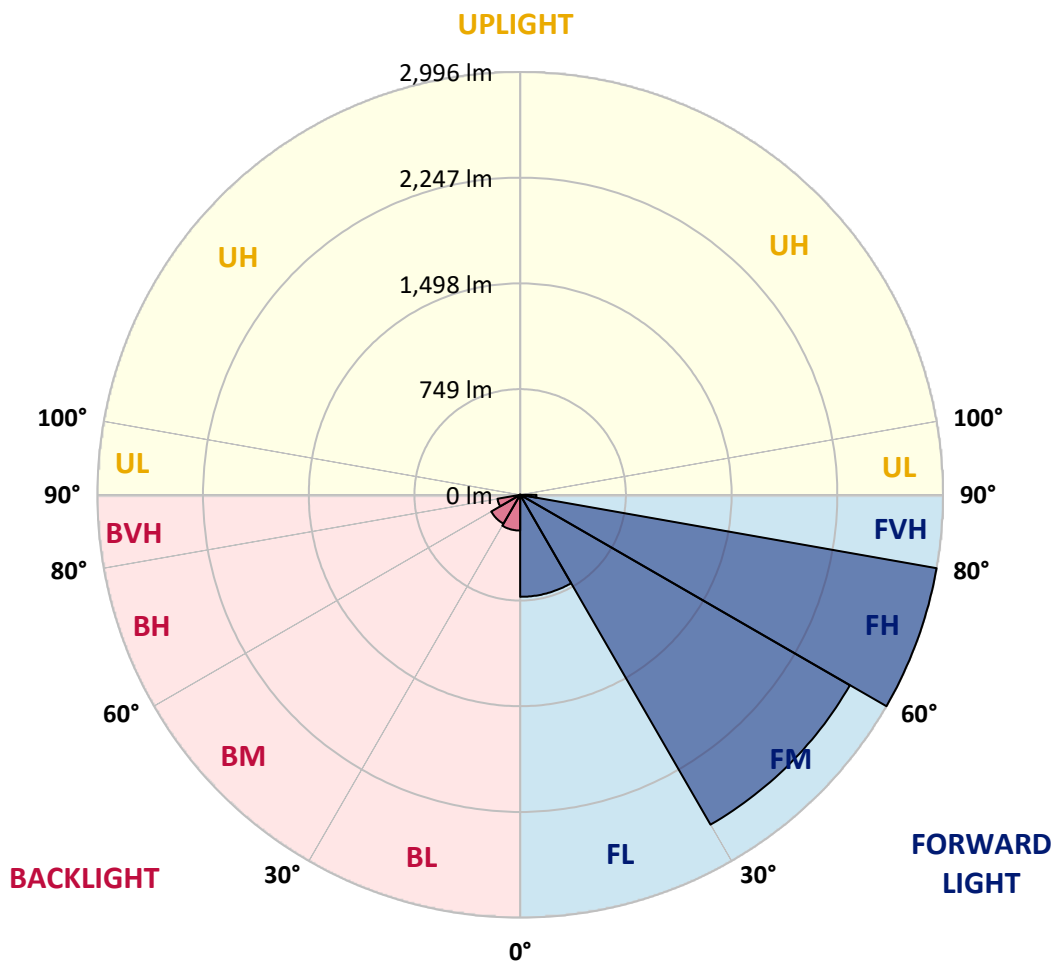
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	722.7	10.0			
FM	(30°-60°)	2697.7	37.5			
FH	(60°-80°)	2995.6	41.7			G2/5000
FVH	(80°-90°)	115.7	1.6			G2/225
BL	(0°-30°)	253.3	3.5	B1/500		
BM	(30°-60°)	237.0	3.3	B1/1000		
BH	(60°-80°)	163.4	2.3	B1/500		G1/500
BVH	(80°-90°)	6.6	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°	2274.4	2274.4	2274.4	2274.4	2274.4	2274.4	2274.4	2274.4	2274.4	2274.4	2274.4
2.5°	2313.1	2309.2	2309.2	2313.1	2317.0	2305.4	2305.4	2301.5	2289.9	2286.0	2262.7
5°	2165.9	2177.5	2177.5	2193.0	2208.5	2216.2	2247.2	2247.2	2243.4	2243.4	2208.5
7.5°	1987.6	1987.6	2014.8	2041.9	2080.6	2092.3	2127.1	2142.6	2150.4	2169.8	2138.8
10°	1828.8	1840.4	1844.3	1883.0	1917.9	1960.5	2018.6	2038.0	2057.4	2096.1	2065.1
12.5°	1708.7	1716.4	1728.1	1762.9	1805.5	1852.0	1921.8	1956.7	1976.0	2030.3	2007.0
15°	1584.7	1592.4	1615.7	1646.7	1704.8	1762.9	1840.4	1886.9	1921.8	1983.8	1964.4
17.5°	1503.3	1507.2	1511.1	1538.2	1596.3	1673.8	1770.7	1817.2	1863.7	1941.2	1933.4
20°	1464.6	1468.5	1464.6	1480.1	1515.0	1580.8	1697.1	1759.0	1809.4	1921.8	1910.2
22.5°	1453.0	1456.8	1449.1	1445.2	1460.7	1518.8	1623.4	1693.2	1762.9	1917.9	1902.4
25°	1460.7	1460.7	1449.1	1437.5	1437.5	1468.5	1557.6	1631.2	1716.4	1925.7	1894.7
27.5°	1491.7	1487.8	1476.2	1453.0	1433.6	1445.2	1515.0	1580.8	1673.8	1937.3	1894.7
30°	1530.5	1526.6	1522.7	1503.3	1468.5	1445.2	1495.6	1557.6	1650.6	1964.4	1898.5
32.5°	1573.1	1576.9	1576.9	1561.4	1522.7	1472.3	1507.2	1565.3	1654.4	2003.1	1910.2
35°	1650.6	1642.8	1654.4	1646.7	1604.1	1538.2	1565.3	1615.7	1693.2	2045.8	1937.3
37.5°	1724.2	1724.2	1739.7	1743.6	1704.8	1623.4	1658.3	1708.7	1755.2	2115.5	1987.6
40°	1809.4	1805.5	1828.8	1852.0	1821.0	1751.3	1786.2	1828.8	1871.4	2220.1	2072.9
42.5°	1879.2	1886.9	1921.8	1960.5	1972.1	1875.3	1933.4	1979.9	1999.3	2336.4	2200.7
45°	1945.0	1956.7	2022.5	2084.5	2123.3	2045.8	2111.6	2162.0	2181.4	2483.6	2355.7
47.5°	2014.8	2030.3	2111.6	2208.5	2278.2	2239.5	2313.1	2375.1	2386.7	2665.7	2588.2
50°	2088.4	2103.9	2196.9	2328.6	2444.8	2468.1	2561.1	2634.7	2623.1	2847.8	2824.6
52.5°	2181.4	2200.7	2328.6	2475.8	2634.7	2704.4	2847.8	2913.7	2878.8	3084.1	3041.5
55°	2425.5	2433.2	2522.3	2673.4	2836.2	2975.7	3184.9	3243.0	3153.9	3258.5	3262.4
57.5°	2840.1	2840.1	2859.4	2905.9	3057.0	3262.4	3595.6	3646.0	3479.4	3436.7	3456.1
60°	3088.0	3126.8	3208.1	3297.2	3367.0	3572.3	3921.1	3921.1	3684.7	3622.7	3630.5
62.5°	3026.0	3057.0	3297.2	3498.7	3812.6	4076.0	4273.6	4265.9	3917.2	3797.1	3851.3
65°	2216.2	2270.5	2580.5	3212.0	3986.9	4773.5	4862.6	4692.1	4203.9	4060.5	4281.4
67.5°	1189.5	1232.1	1491.7	2057.4	3146.1	5250.0	6071.4	5513.5	4719.2	4599.1	4719.2
70°	782.7	774.9	794.3	1011.3	1720.3	4351.1	7691.0	7055.6	5575.5	5029.2	4723.1
72.5°	565.7	565.7	616.1	782.7	910.5	2336.4	7516.6	8338.0	6377.5	5040.8	3936.6
75°	379.7	387.5	468.8	631.6	848.5	767.2	5846.7	7144.7	6269.0	3785.4	2053.5
77.5°	197.6	209.2	310.0	499.8	778.8	685.8	3274.0	4424.7	3684.7	1739.7	457.2
80°	89.1	93.0	135.6	375.8	712.9	635.4	1069.4	1972.1	1166.2	209.2	77.5
82.5°	42.6	42.6	58.1	186.0	588.9	546.3	658.7	701.3	275.1	65.9	54.2
85°	15.5	15.5	31.0	104.6	348.7	329.3	561.8	468.8	155.0	42.6	38.7
87.5°	7.7	7.7	11.6	31.0	93.0	267.3	387.5	310.0	65.9	15.5	15.5
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°	2274.4	2274.4	2274.4	2274.4	2274.4	2274.4	2274.4	2274.4	2274.4	2274.4	2274.4
2.5°	2251.1	2239.5	2208.5	2181.4	2146.5	2100.0	2092.3	2045.8	2007.0	2003.1	1991.5
5°	2189.1	2154.3	2076.8	1964.4	1859.8	1774.5	1681.6	1623.4	1592.4	1557.6	1580.8
7.5°	2103.9	2045.8	1890.8	1716.4	1545.9	1398.7	1255.4	1150.7	1108.1	1046.1	1057.8
10°	2014.8	1933.4	1708.7	1445.2	1224.4	1007.4	821.4	666.4	585.1	557.9	557.9
12.5°	1952.8	1836.5	1522.7	1193.4	902.8	623.8	453.3	329.3	248.0	220.8	220.8
15°	1890.8	1747.4	1352.2	953.1	596.7	360.3	217.0	186.0	182.1	182.1	182.1
17.5°	1836.5	1642.8	1174.0	728.4	391.3	201.5	178.2	174.4	170.5	170.5	170.5
20°	1782.3	1549.8	1022.9	523.1	217.0	170.5	162.7	162.7	162.7	162.7	158.9
22.5°	1731.9	1468.5	860.2	360.3	166.6	155.0	151.1	151.1	151.1	147.2	147.2
25°	1693.2	1394.8	712.9	228.6	147.2	143.4	139.5	135.6	131.7	131.7	131.7
27.5°	1654.4	1325.1	557.9	158.9	135.6	127.9	124.0	120.1	112.4	112.4	108.5
30°	1627.3	1255.4	445.6	135.6	124.0	116.2	108.5	100.7	93.0	89.1	89.1
32.5°	1611.8	1201.1	333.2	124.0	112.4	100.7	93.0	85.2	77.5	69.7	69.7
35°	1600.2	1146.9	228.6	112.4	100.7	89.1	81.4	69.7	58.1	54.2	54.2
37.5°	1619.6	1108.1	155.0	104.6	93.0	81.4	65.9	58.1	50.4	46.5	46.5
40°	1662.2	1077.1	124.0	96.9	85.2	69.7	58.1	46.5	38.7	34.9	34.9
42.5°	1735.8	1065.5	108.5	93.0	77.5	62.0	46.5	38.7	34.9	31.0	31.0
45°	1871.4	1061.6	100.7	85.2	69.7	50.4	38.7	31.0	27.1	23.2	23.2
47.5°	2022.5	1069.4	96.9	81.4	62.0	46.5	34.9	27.1	23.2	19.4	19.4
50°	2208.5	1100.4	89.1	73.6	58.1	38.7	27.1	23.2	15.5	15.5	15.5
52.5°	2386.7	1131.4	85.2	69.7	50.4	34.9	23.2	15.5	15.5	11.6	11.6
55°	2561.1	1201.1	77.5	69.7	46.5	27.1	19.4	15.5	11.6	7.7	7.7
57.5°	2735.4	1251.5	73.6	62.0	38.7	23.2	15.5	11.6	7.7	7.7	7.7
60°	2913.7	1298.0	65.9	54.2	31.0	19.4	11.6	7.7	7.7	7.7	7.7
62.5°	3138.4	1375.5	58.1	46.5	27.1	15.5	11.6	7.7	3.9	3.9	3.9
65°	3560.7	1507.2	50.4	38.7	19.4	15.5	11.6	7.7	3.9	3.9	3.9
67.5°	3831.9	1487.8	42.6	31.0	19.4	11.6	7.7	7.7	3.9	3.9	3.9
70°	3777.7	1344.5	34.9	27.1	15.5	11.6	7.7	7.7	3.9	3.9	3.9
72.5°	2936.9	817.5	31.0	23.2	15.5	11.6	7.7	7.7	3.9	3.9	3.9
75°	1340.6	182.1	27.1	19.4	11.6	11.6	7.7	7.7	3.9	3.9	3.9
77.5°	236.3	46.5	23.2	15.5	15.5	11.6	11.6	7.7	3.9	3.9	3.9
80°	62.0	31.0	23.2	15.5	15.5	19.4	15.5	11.6	3.9	3.9	3.9
82.5°	42.6	23.2	23.2	19.4	19.4	23.2	19.4	11.6	3.9	3.9	3.9
85°	31.0	19.4	23.2	23.2	15.5	19.4	19.4	11.6	3.9	3.9	3.9
87.5°	15.5	7.7	7.7	7.7	7.7	11.6	11.6	3.9	3.9	3.9	3.9
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)