

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: McGRAW-EDISON

Report Number: P200110

Luminaire Tested: **GWC-AF-02-LED-E1-SL2-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200110  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GWC-AF-02-LED-E1-SL2-800-HSS  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8503.8 lumens  
Efficiency: N/A  
Efficacy: 98.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G2

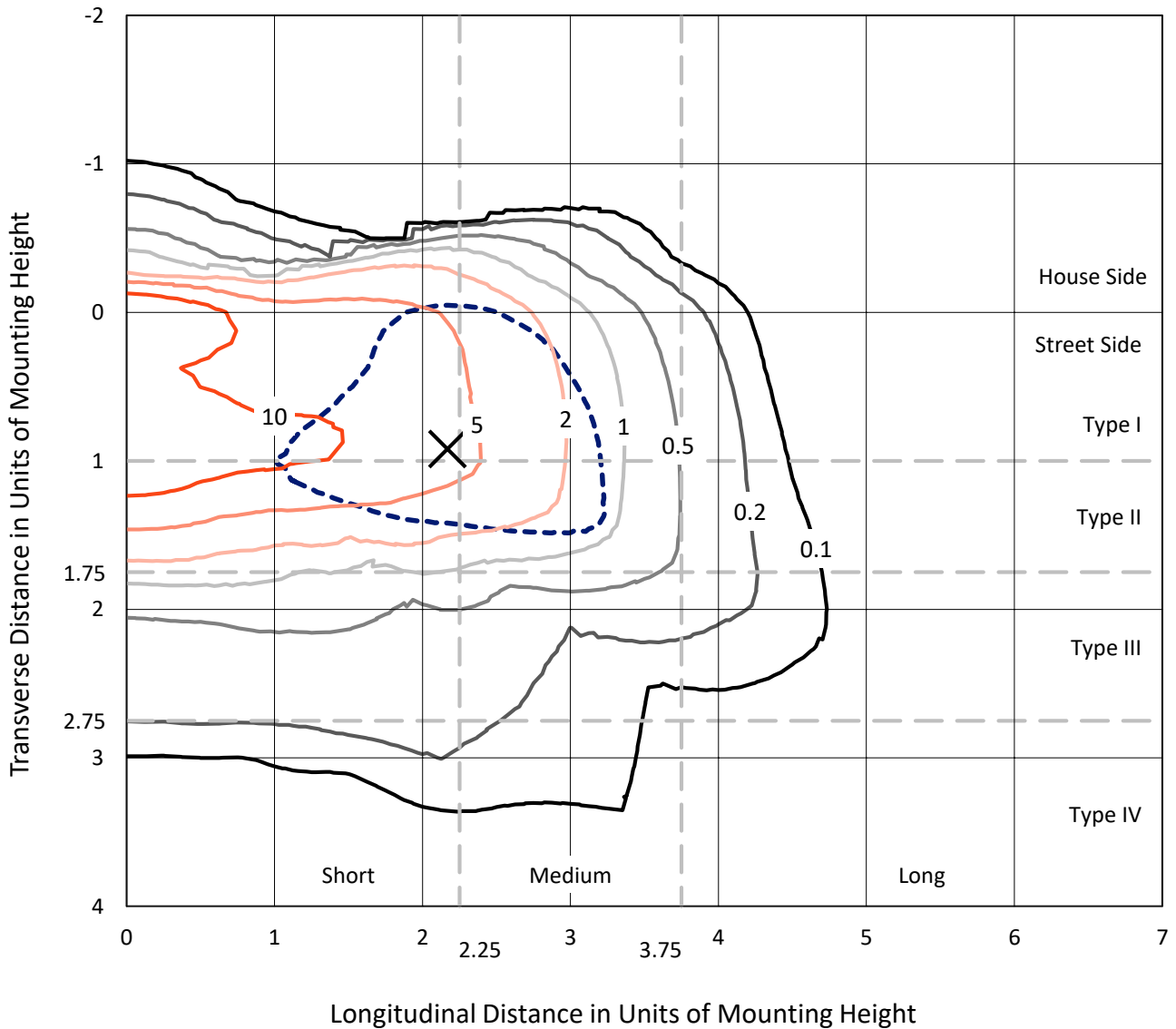
Input Watts (W): 86  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

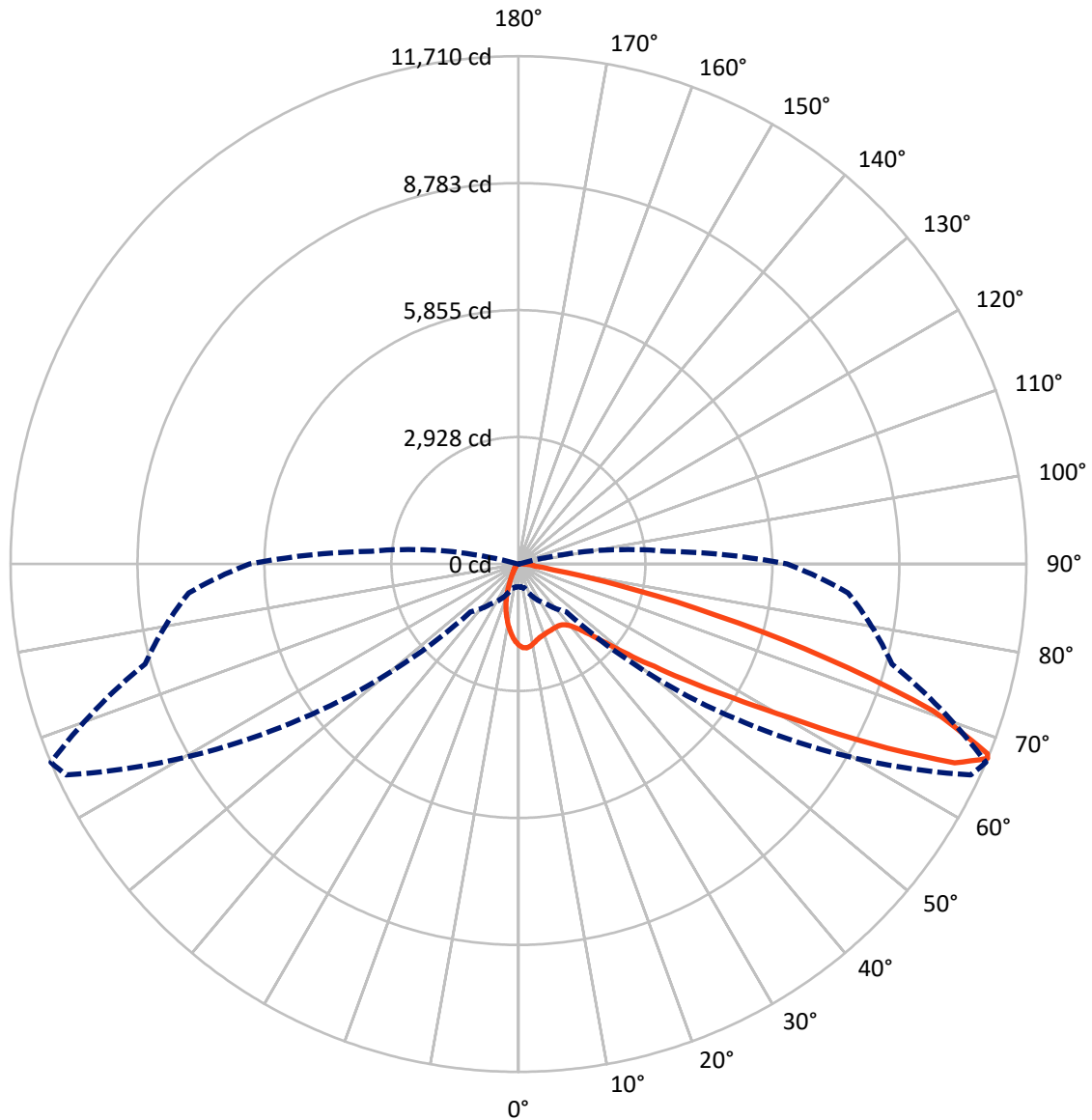
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.8 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical

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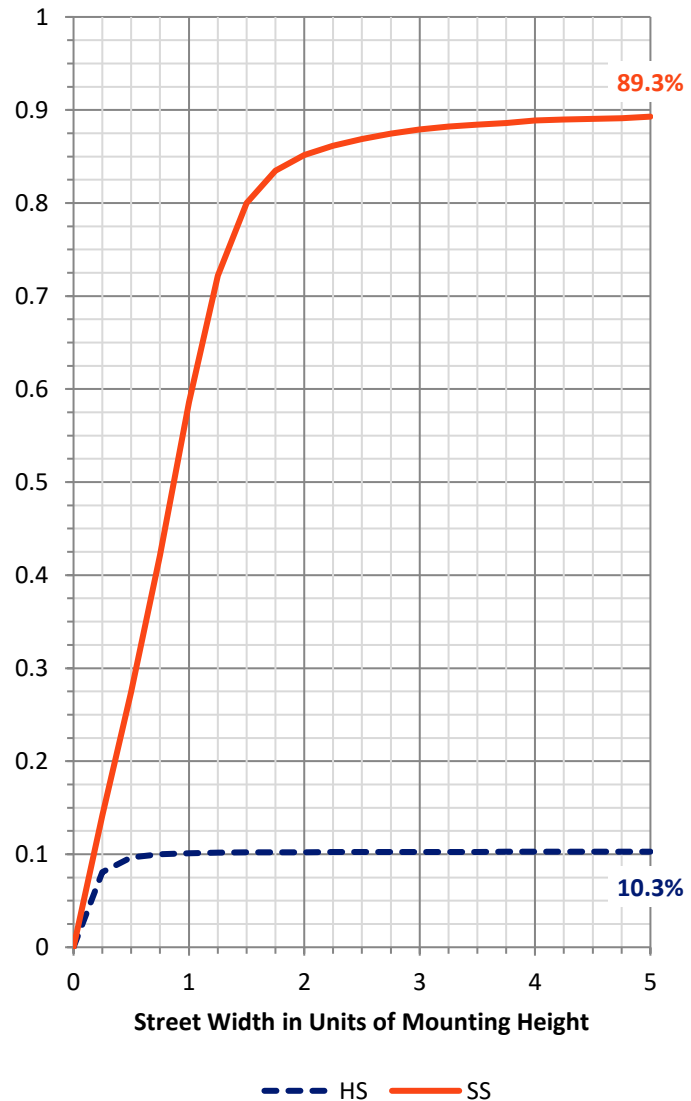
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	883.0	0.0	883.0
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	7620.8	0.0	7620.8
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	8503.8	0.0	8503.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	152.6	1.8
10°-20°	324.8	3.8
20°-30°	472.2	5.6
30°-40°	736.7	8.7
40°-50°	1305.0	15.3
50°-60°	2065.0	24.3
60°-70°	2365.2	27.8
70°-80°	981.1	11.5
80°-90°	101.3	1.2
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°	8503.8	100.0
0°-180°	8503.8	100.0



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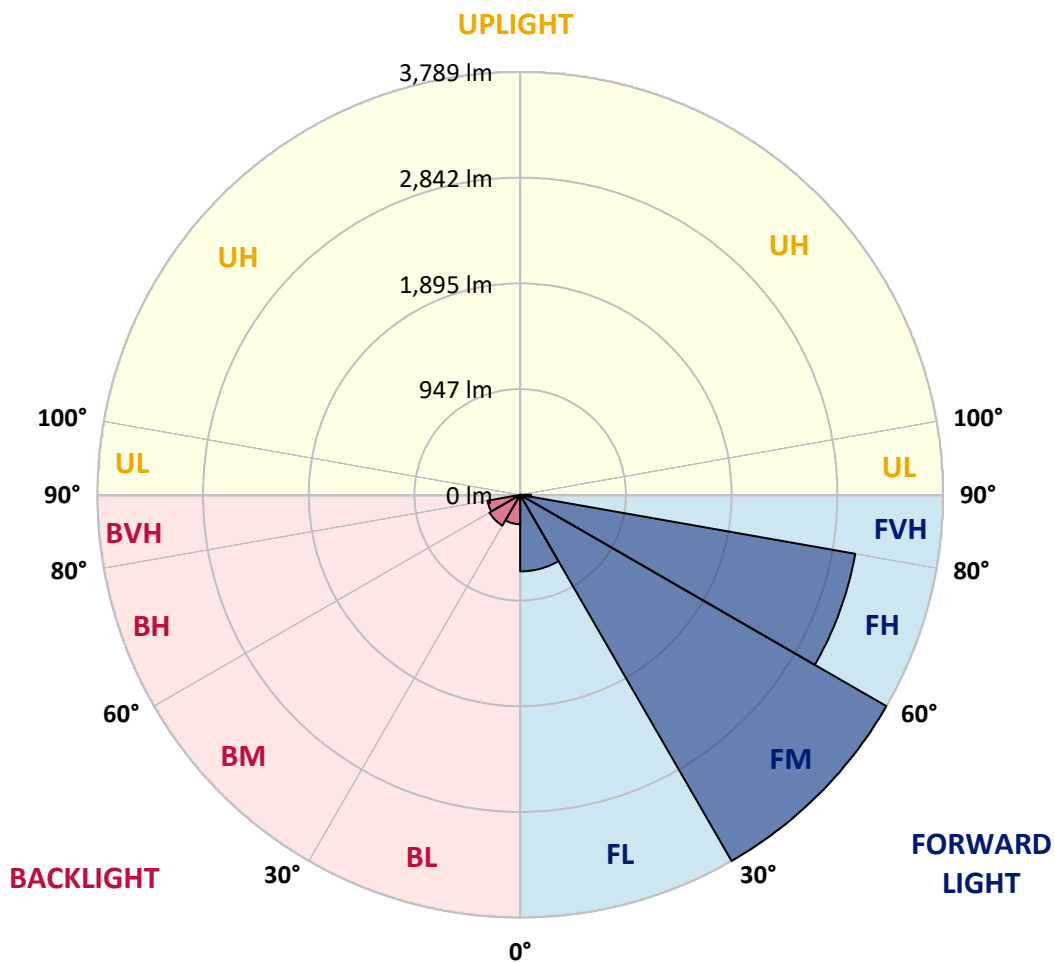
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	686.1	8.1			
FM	(30°-60°)	3789.3	44.6			
FH	(60°-80°)	3048.6	35.9			G2/5000
FVH	(80°-90°)	96.8	1.1			G1/100
BL	(0°-30°)	263.5	3.1	B1/500		
BM	(30°-60°)	317.3	3.7	B1/1000		
BH	(60°-80°)	297.6	3.5	B1/500		G1/500
BVH	(80°-90°)	4.6	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1875.4	1875.4	1875.4	1875.4	1875.4	1875.4	1875.4	1875.4	1875.4	1875.4	1875.4
2.5°	1938.9	1942.9	1942.4	1945.3	1952.3	1952.8	1945.9	1932.5	1929.5	1912.1	1881.8
5°	1788.1	1799.5	1806.4	1834.8	1866.5	1904.6	1933.5	1943.8	1942.4	1930.0	1884.4
7.5°	1616.0	1627.4	1635.3	1668.5	1710.7	1776.1	1851.1	1912.6	1918.0	1931.4	1882.3
10°	1501.4	1503.4	1514.3	1546.1	1590.2	1657.2	1746.5	1854.1	1870.5	1919.6	1877.4
12.5°	1407.2	1408.7	1423.0	1457.3	1504.4	1571.9	1665.6	1790.1	1815.4	1904.6	1876.4
15°	1340.2	1345.7	1358.6	1394.3	1444.4	1511.3	1607.6	1743.0	1773.2	1899.2	1885.3
17.5°	1317.9	1323.8	1327.8	1353.6	1399.2	1464.7	1563.4	1712.2	1746.5	1902.2	1902.7
20°	1341.2	1345.7	1336.7	1343.1	1371.5	1430.0	1526.2	1685.9	1726.6	1905.7	1925.0
22.5°	1428.0	1430.0	1405.6	1377.4	1372.5	1404.7	1497.0	1665.1	1708.7	1915.1	1951.3
25°	1576.8	1573.3	1533.6	1472.6	1415.2	1400.2	1479.6	1652.2	1699.8	1925.0	1978.6
27.5°	1756.4	1761.3	1706.8	1618.0	1508.3	1430.0	1477.1	1646.7	1695.8	1931.9	2002.4
30°	1974.6	1981.6	1919.1	1807.5	1650.2	1503.4	1500.0	1645.7	1693.4	1927.4	2004.4
32.5°	2197.3	2205.8	2156.6	2041.6	1839.7	1626.4	1551.5	1656.7	1698.3	1912.1	1992.9
35°	2430.4	2442.3	2409.6	2310.8	2096.6	1804.0	1642.2	1689.9	1721.6	1910.6	1981.6
37.5°	2752.4	2763.3	2701.7	2597.1	2407.6	2042.0	1788.1	1752.4	1776.7	1934.4	1984.5
40°	3232.9	3231.5	3072.7	2912.5	2749.4	2344.6	1992.9	1865.5	1877.8	2006.3	2021.2
42.5°	3756.8	3754.2	3519.7	3276.1	3128.8	2717.2	2262.3	2060.9	2052.4	2138.8	2116.5
45°	4160.5	4160.0	3968.5	3694.3	3585.6	3144.7	2610.5	2332.7	2319.8	2354.0	2292.0
47.5°	4332.6	4335.6	4239.4	4046.4	4092.0	3723.0	3049.4	2726.6	2707.2	2693.3	2599.1
50°	4198.7	4204.6	4212.6	4174.9	4463.5	4500.3	3638.2	3281.6	3272.1	3210.1	3062.8
52.5°	3761.2	3791.5	3884.8	4004.2	4592.5	5246.3	4561.2	3971.0	3920.5	3854.5	3692.2
55°	3024.1	3057.4	3234.5	3524.6	4400.5	5736.3	5854.9	4859.8	4775.5	4578.6	4344.5
57.5°	2001.4	2053.0	2309.9	2678.9	3843.0	5815.2	7145.5	6093.4	5799.8	5260.6	4996.8
60°	1102.6	1152.3	1431.0	1765.3	2775.7	5425.3	8013.5	7699.5	7180.7	6023.0	5788.9
62.5°	679.0	705.8	911.7	1222.6	1664.6	4282.1	8193.0	9717.7	9117.0	7004.6	6745.6
65°	540.6	552.1	652.7	999.4	1193.4	2546.9	7613.2	11256.3	11056.0	8193.0	7602.3
67°	524.8	529.3	576.8	858.1	1124.9	1561.4	6378.1	11506.9	11710.2	8912.3	7629.1
67.5°	528.3	533.2	578.4	818.9	1123.0	1435.0	5952.6	11408.2	11665.1	8969.2	7510.5
70°	509.4	524.8	662.2	818.4	1067.9	1192.4	3564.8	9884.4	10151.8	8333.9	6372.7
72.5°	180.6	181.6	286.2	662.2	1161.2	1205.3	1790.1	7246.2	7444.0	6375.1	4594.5
75°	107.1	91.2	95.2	188.5	1109.6	1170.6	1032.7	4630.2	4704.1	3653.1	2326.8
77.5°	73.9	64.4	66.5	83.4	422.6	1154.2	820.4	2414.6	2335.7	1281.1	495.5
80°	42.1	37.2	39.7	72.9	153.7	1076.9	773.8	979.1	834.7	217.3	136.9
82.5°	22.3	18.8	22.8	60.0	107.1	671.1	775.3	473.2	375.0	73.4	93.3
85°	8.0	6.4	10.9	41.1	71.4	205.8	718.7	397.8	312.5	35.7	70.9
87.5°	1.5	1.5	4.5	16.9	28.7	63.0	425.0	236.1	158.3	21.3	48.6
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°	1875.4	1875.4	1875.4	1875.4	1875.4	1875.4	1875.4	1875.4	1875.4	1875.4	1875.4
2.5°	1869.4	1848.2	1819.3	1784.1	1742.5	1705.8	1678.5	1650.2	1644.3	1634.4	1632.8
5°	1857.1	1820.3	1748.9	1667.1	1579.7	1500.9	1436.9	1379.9	1354.6	1332.8	1330.2
7.5°	1838.7	1783.6	1662.1	1530.1	1393.8	1269.8	1164.6	1090.3	1021.7	989.0	984.1
10°	1817.4	1738.5	1564.4	1381.4	1192.9	1017.8	861.5	730.6	651.2	604.2	598.2
12.5°	1797.5	1694.3	1464.7	1227.1	976.6	742.6	541.7	416.6	333.3	299.6	295.6
15°	1788.1	1658.6	1371.5	1069.4	750.4	472.7	296.1	229.1	201.8	194.0	193.4
17.5°	1787.1	1628.4	1280.2	906.2	525.8	274.8	192.9	176.0	170.6	168.7	168.7
20°	1786.6	1599.6	1189.0	737.0	333.8	183.0	160.7	156.7	152.7	150.3	150.3
22.5°	1792.1	1573.8	1093.7	564.5	210.3	148.3	141.4	137.4	132.5	129.0	128.5
25°	1797.5	1554.0	996.5	401.8	152.3	129.0	122.0	116.5	109.7	105.2	104.6
27.5°	1798.6	1529.2	892.3	268.8	127.5	112.6	103.6	95.2	87.3	82.9	82.3
30°	1783.6	1487.5	776.7	181.6	112.6	97.7	85.8	76.9	69.5	66.0	66.0
32.5°	1754.4	1435.9	649.8	136.9	100.1	83.8	70.9	62.5	57.5	56.1	55.5
35°	1728.1	1380.4	519.4	116.1	89.8	70.9	58.0	52.6	49.6	49.1	48.6
37.5°	1712.7	1335.8	396.8	105.2	79.9	59.5	49.1	45.1	43.7	42.7	43.2
40°	1724.6	1298.5	293.2	96.3	70.0	49.6	41.6	39.7	38.2	37.7	37.7
42.5°	1776.7	1292.1	217.8	88.3	60.6	41.1	36.2	34.7	33.8	33.2	33.8
45°	1913.6	1331.8	169.1	80.8	51.0	34.7	30.8	30.3	29.8	29.8	29.8
47.5°	2119.5	1413.6	140.9	72.4	42.7	29.8	26.8	26.3	25.8	26.3	26.3
50°	2468.2	1563.4	126.0	63.9	35.2	25.3	22.8	22.8	22.8	22.8	23.3
52.5°	2998.4	1858.1	116.1	55.5	28.7	21.3	19.3	19.3	19.8	19.8	20.4
55°	3589.1	2248.9	107.1	47.2	24.3	17.9	15.9	16.4	16.9	17.4	17.4
57.5°	4229.9	2681.9	99.7	38.7	20.9	14.4	13.4	13.9	14.4	15.3	15.3
60°	5003.3	3150.6	88.8	30.3	17.4	11.5	10.4	11.5	12.9	13.9	14.4
62.5°	5852.4	3604.0	74.9	23.8	14.4	8.9	8.4	10.4	12.4	13.4	13.9
65°	6432.7	3746.4	57.5	19.3	10.9	6.4	7.0	9.4	11.9	13.4	13.4
67°	6197.5	3396.6	47.2	16.4	8.9	4.9	6.4	9.4	11.9	12.9	13.4
67.5°	6034.4	3259.7	45.1	15.9	8.4	4.9	6.4	9.4	11.9	13.4	13.4
70°	4910.0	2448.7	37.7	11.9	7.0	4.5	5.4	8.9	11.5	12.9	12.9
72.5°	3411.5	1509.9	33.8	8.4	5.9	4.0	4.9	8.4	10.9	12.4	12.9
75°	1622.0	546.6	28.7	6.4	5.4	3.5	4.5	8.4	10.9	12.4	12.4
77.5°	330.8	126.9	23.3	5.4	4.5	3.5	4.0	8.0	10.4	11.9	11.9
80°	108.6	49.1	17.4	4.9	4.5	3.5	4.0	7.5	10.4	11.5	11.9
82.5°	78.4	24.8	11.5	4.9	4.5	3.5	3.5	7.5	9.9	11.5	11.5
85°	60.0	17.4	7.5	4.9	4.5	3.5	3.5	7.0	9.4	10.9	10.9
87.5°	39.7	7.0	5.9	4.9	4.5	3.5	3.5	7.0	8.9	10.4	10.9
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)