

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: P193110

Luminaire Tested: **GLEON-AF-02-LED-E1-T2-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193110
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-AF-02-LED-E1-T2-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11558.5 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 113
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



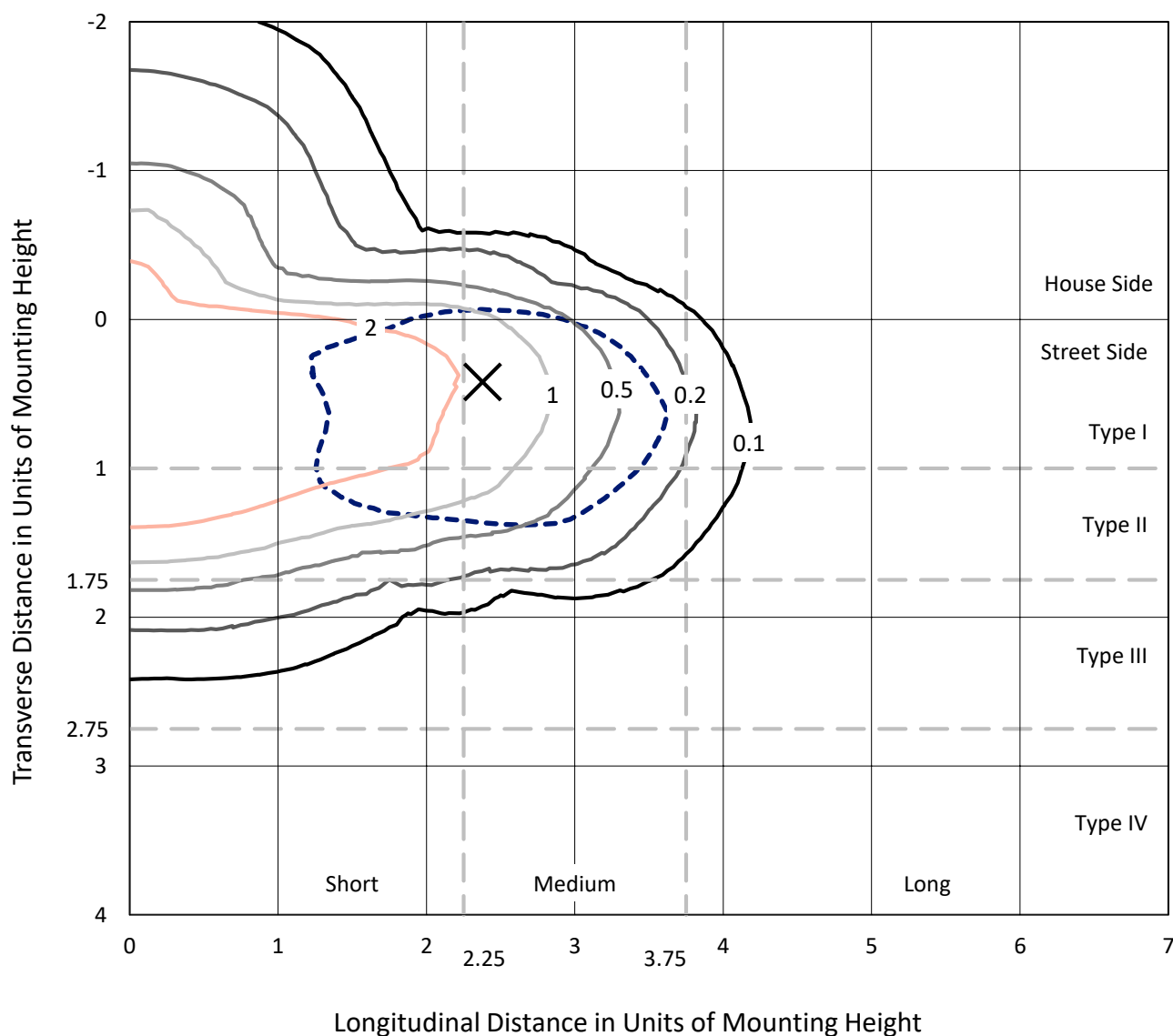
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

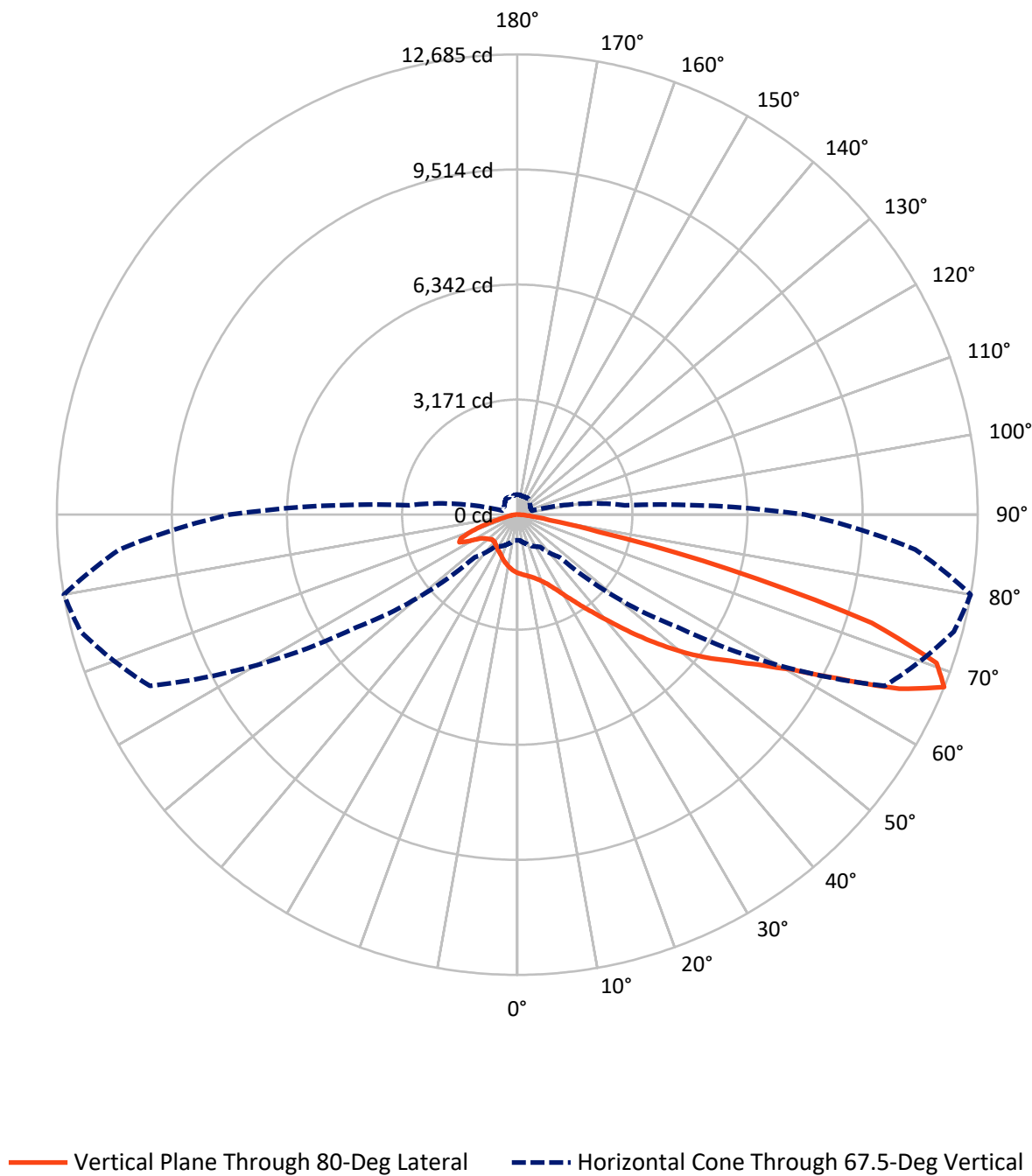


Based on 20 foot mounting height. Maximum calculated value = 4.9 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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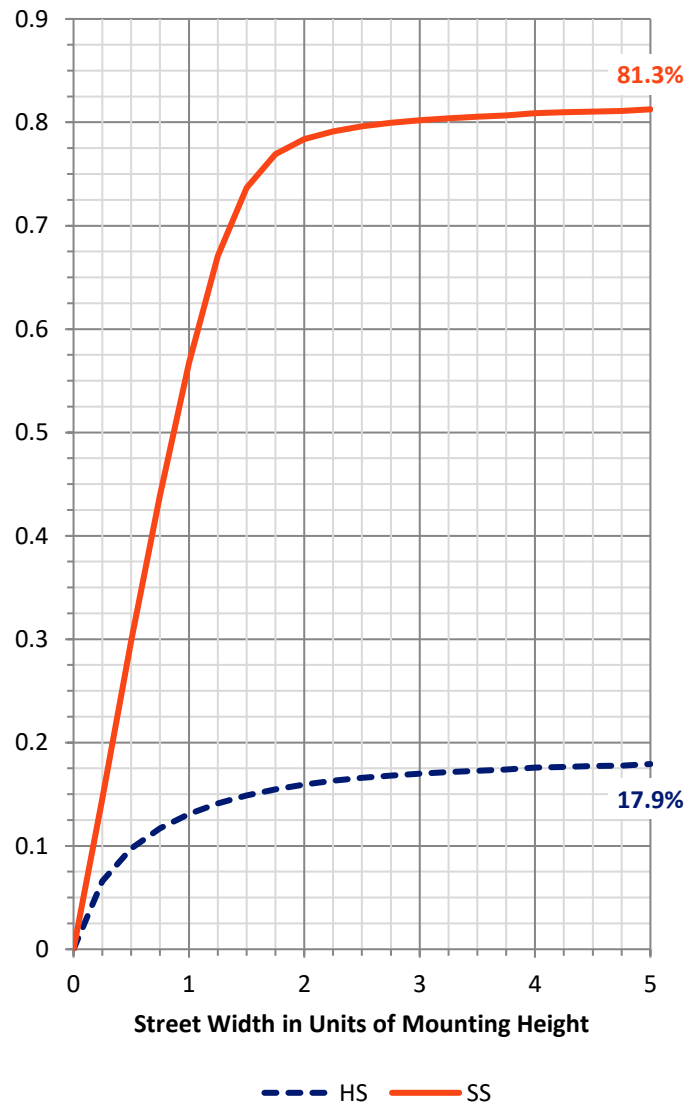
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2128.6	0.0	2128.6
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	9429.9	0.0	9429.9
	% Fixture	81.6	0.0	81.6
Total	Lumens	11558.5	0.0	11558.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.1	1.3
10°-20°	426.7	3.7
20°-30°	706.3	6.1
30°-40°	1155.3	10.0
40°-50°	1865.4	16.1
50°-60°	2693.1	23.3
60°-70°	2972.0	25.7
70°-80°	1369.9	11.9
80°-90°	221.6	1.9
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°	11558.5	100.0
0°-180°	11558.5	100.0

Coefficient of Utilization



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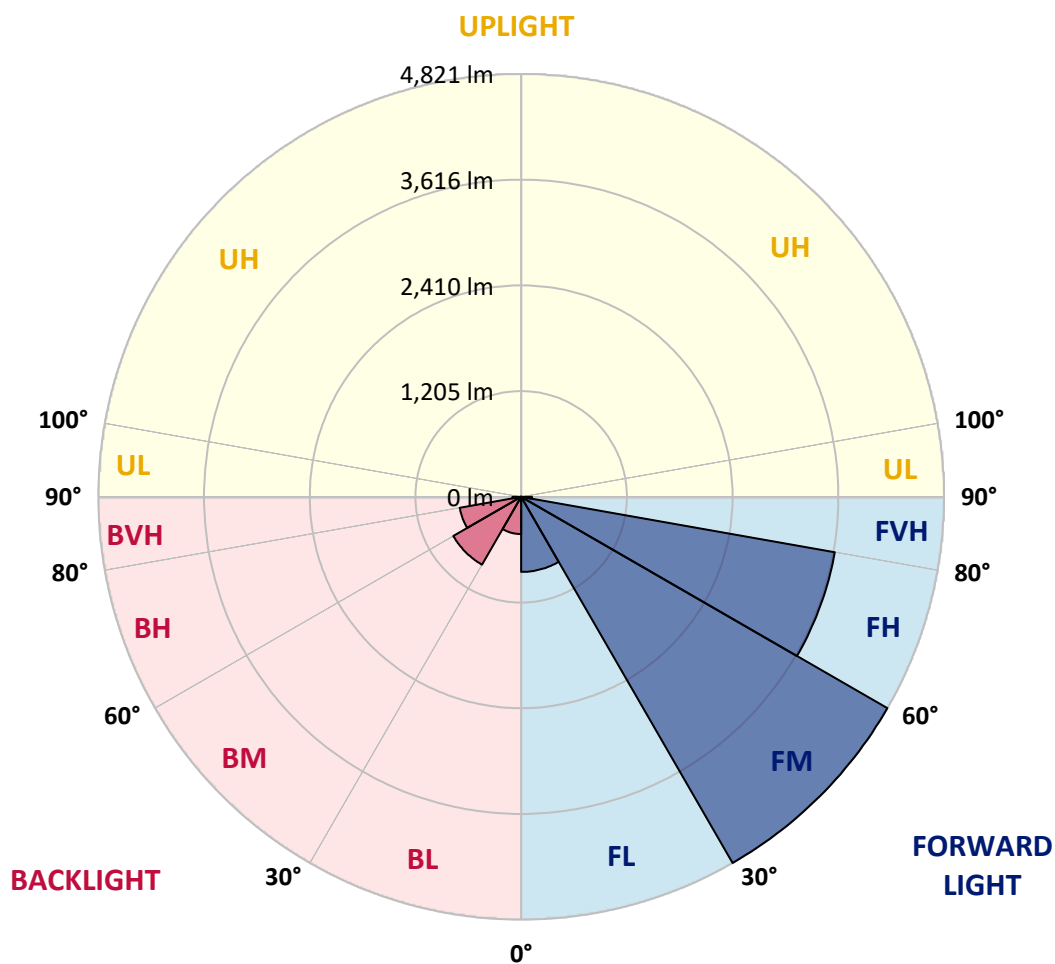
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	856.5	7.4			
FM	(30°-60°)	4820.8	41.7			
FH	(60°-80°)	3630.8	31.4			G2/5000
FVH	(80°-90°)	121.8	1.1			G2/225
BL	(0°-30°)	424.7	3.7	B1/500		
BM	(30°-60°)	893.1	7.7	B1/1000		
BH	(60°-80°)	711.1	6.2	B2/1000		G2/1000
BVH	(80°-90°)	99.8	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	1605.8	1605.8	1605.8	1605.8	1605.8	1605.8	1605.8	1605.8	1605.8	1605.8	1605.8
2.5°	1756.6	1746.4	1748.0	1745.2	1736.6	1721.9	1706.0	1676.9	1646.7	1630.8	1618.3
5°	1903.4	1900.6	1896.6	1887.5	1865.8	1835.1	1797.0	1745.9	1690.6	1661.7	1633.8
7.5°	2013.2	2011.6	2006.4	2000.7	1979.7	1942.7	1885.2	1812.4	1732.2	1692.3	1649.0
10°	2022.4	2025.2	2029.2	2044.6	2047.4	2027.6	1968.9	1880.7	1775.4	1724.2	1668.9
12.5°	1945.0	1951.3	1966.5	2005.9	2047.4	2071.9	2041.7	1952.4	1826.0	1764.0	1694.1
15°	1842.5	1845.9	1864.7	1918.8	1993.3	2069.1	2097.4	2031.4	1891.5	1815.3	1731.5
17.5°	1798.7	1800.4	1813.4	1849.3	1918.8	2026.9	2128.8	2117.3	1971.7	1878.9	1777.6
20°	1776.5	1780.5	1799.3	1834.6	1878.3	1972.9	2133.3	2210.1	2067.3	1958.6	1835.7
22.5°	1839.7	1838.0	1844.9	1862.5	1899.5	1956.4	2129.9	2305.7	2189.1	2061.0	1911.4
25°	1987.1	1993.3	1981.4	1961.4	1973.4	2013.2	2148.1	2409.2	2341.5	2192.5	2010.4
27.5°	2197.1	2190.7	2173.1	2126.5	2102.0	2119.1	2208.4	2520.8	2531.1	2365.5	2141.3
30°	2406.4	2401.3	2384.2	2327.3	2277.3	2263.1	2325.7	2648.9	2756.9	2573.2	2301.8
32.5°	2623.9	2618.2	2602.2	2545.3	2485.0	2452.0	2492.4	2796.8	3023.3	2821.3	2490.7
35°	2891.9	2881.0	2847.4	2768.3	2709.2	2683.5	2702.3	2982.9	3330.6	3114.9	2720.0
37.5°	3143.9	3160.5	3126.2	3016.9	2940.1	2931.1	2952.1	3209.9	3661.8	3443.2	2983.5
40°	3397.1	3400.0	3369.2	3280.0	3200.9	3186.0	3239.0	3485.4	4052.7	3835.9	3303.8
42.5°	3658.9	3664.5	3612.7	3530.2	3472.3	3475.1	3535.4	3808.0	4501.1	4298.5	3672.5
45°	3969.1	3977.6	3920.7	3812.5	3759.6	3866.0	3841.0	4169.9	4992.7	4824.3	4095.9
47.5°	4293.4	4306.5	4263.2	4161.9	4095.9	4242.2	4146.6	4571.1	5522.0	5388.2	4560.8
50°	4470.4	4489.1	4531.2	4523.9	4509.5	4485.1	4487.4	5001.3	6067.6	5975.4	5038.8
52.5°	4375.3	4374.7	4528.4	4715.0	4914.2	4929.0	4902.8	5454.8	6577.5	6549.5	5488.9
55°	3940.6	3970.2	4202.8	4564.2	5108.2	5448.0	5525.3	5974.3	7078.3	7110.7	5945.9
57.5°	3216.7	3241.1	3555.3	4059.0	4846.5	5756.4	6410.8	6729.4	7638.2	7789.5	6554.1
60°	2181.7	2211.3	2544.1	3149.1	4142.0	5584.5	7253.5	8076.9	8308.5	8652.8	7407.7
62.5°	1282.0	1308.8	1580.2	1986.6	2916.3	4786.1	7623.3	9994.0	9373.2	9955.2	8709.6
65°	882.6	900.8	1032.8	1236.5	1675.8	3223.5	7164.6	11317.5	11011.3	11569.0	10219.3
67.5°	710.1	707.9	812.6	951.4	1078.9	1662.2	5417.7	11167.9	12452.2	12684.9	11002.9
70°	585.0	582.7	653.8	768.7	862.0	936.1	2951.0	9424.3	12158.6	12253.0	10281.3
72.5°	489.4	491.6	537.1	622.6	707.4	705.0	1296.8	6629.9	9564.9	10218.2	8195.9
75°	413.1	414.3	444.4	504.8	574.1	567.9	703.3	3591.8	5560.1	6014.7	4543.2
77.5°	351.7	352.8	372.1	405.7	455.2	453.0	513.3	1551.8	2319.3	2290.9	1554.0
80°	313.6	313.6	322.7	328.9	356.1	346.1	380.7	745.4	980.5	905.3	620.3
82.5°	245.9	246.9	302.7	300.5	280.6	267.4	267.4	439.3	519.5	480.3	363.1
85°	138.3	137.6	195.1	235.6	246.9	188.4	186.7	245.9	282.8	249.2	175.8
87.5°	59.2	60.3	90.4	104.7	140.0	117.2	115.5	126.8	144.0	124.7	81.4
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°	1605.8	1605.8	1605.8	1605.8	1605.8	1605.8	1605.8	1605.8	1605.8	1605.8	1605.8
2.5°	1606.4	1591.6	1559.1	1518.7	1482.3	1458.4	1436.8	1405.5	1407.3	1385.6	1369.7
5°	1605.2	1574.5	1499.4	1410.1	1324.1	1262.2	1215.5	1173.3	1163.1	1143.2	1131.3
7.5°	1606.4	1556.3	1429.9	1287.2	1180.8	1102.2	1062.4	1040.1	1035.1	1028.2	1028.7
10°	1610.4	1539.8	1353.7	1172.3	1060.7	1008.9	999.1	1006.1	1014.0	1016.3	1016.8
12.5°	1619.4	1525.0	1270.1	1069.7	985.5	969.6	986.2	1009.4	1024.9	1032.3	1031.6
15°	1640.0	1513.7	1189.9	989.6	944.0	952.5	983.4	1016.3	1038.5	1048.8	1049.3
17.5°	1662.2	1497.2	1107.4	928.0	913.3	934.9	973.1	1011.7	1039.0	1050.4	1052.7
20°	1691.3	1476.6	1020.8	882.0	884.2	908.7	944.5	983.4	1013.5	1023.1	1027.7
22.5°	1729.2	1454.5	945.2	844.5	851.2	870.0	897.9	931.6	957.6	962.2	966.2
25°	1780.5	1430.5	884.9	810.2	813.1	824.0	842.7	862.7	880.8	875.7	879.7
27.5°	1849.3	1410.1	839.8	779.0	773.9	776.2	785.8	792.1	801.8	787.5	789.3
30°	1930.2	1387.9	805.1	751.7	737.5	733.4	735.8	739.1	746.6	727.2	724.4
32.5°	2024.0	1361.2	772.8	727.7	707.9	700.0	701.0	710.1	738.6	726.7	720.3
35°	2133.3	1331.0	738.6	701.7	688.0	676.6	675.4	703.8	788.7	781.3	775.6
37.5°	2261.3	1300.8	704.5	672.1	673.1	660.7	656.6	689.1	798.3	769.3	765.4
40°	2424.1	1284.9	675.4	640.7	655.0	653.3	645.2	661.8	734.7	681.7	674.9
42.5°	2625.5	1287.2	653.8	607.2	633.3	651.5	639.0	639.6	665.7	625.9	619.7
45°	2874.2	1314.0	638.5	580.3	608.9	649.9	636.8	627.7	629.9	608.9	605.4
47.5°	3164.3	1369.1	627.7	558.2	585.5	643.5	636.2	624.2	619.1	607.7	604.9
50°	3487.0	1449.4	619.7	537.1	564.5	633.3	636.8	620.8	615.1	610.5	608.9
52.5°	3804.0	1541.0	607.7	519.0	547.9	620.8	638.5	617.5	611.2	607.7	606.1
55°	4157.5	1655.3	589.6	503.5	534.3	604.9	638.5	612.3	605.4	606.1	605.4
57.5°	4634.8	1840.3	567.9	490.5	517.8	585.5	627.7	606.6	598.0	598.6	599.2
60°	5380.8	2166.3	541.7	477.5	497.3	562.8	612.8	594.1	585.5	587.9	588.4
62.5°	6477.9	2644.8	507.6	458.2	475.8	538.3	592.4	578.1	569.6	575.2	575.2
65°	7618.2	3067.1	465.5	433.6	453.0	511.6	566.7	558.2	549.7	562.8	562.2
67.5°	7924.9	2972.6	423.4	406.9	430.2	482.0	536.0	531.4	526.9	549.7	548.6
70°	7040.1	2386.5	384.7	379.5	405.2	450.1	503.0	503.0	500.2	517.3	513.3
72.5°	5363.7	1692.3	347.7	350.5	376.7	415.4	467.2	471.1	466.6	475.2	471.8
75°	2871.4	968.5	310.8	318.7	341.4	380.1	427.3	431.3	428.6	428.0	429.6
77.5°	954.3	473.4	271.9	284.5	304.4	343.7	385.8	392.0	385.2	384.0	383.5
80°	425.0	297.6	229.3	245.9	263.5	302.2	342.0	347.1	339.7	349.9	336.8
82.5°	273.1	195.8	183.8	202.0	219.1	260.6	298.2	299.3	292.5	339.7	289.6
85°	132.5	121.2	138.3	154.8	169.6	204.9	246.9	247.6	230.4	210.0	202.5
87.5°	66.0	70.6	92.3	107.0	114.4	140.5	179.8	176.5	169.1	153.6	141.7
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)