

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: P194710

Luminaire Tested: **GLEON-AF-02-LED-E1-T2-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194710
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-T2-7060
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11951 lumens
Efficiency: N/A
Efficacy: 105.8 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



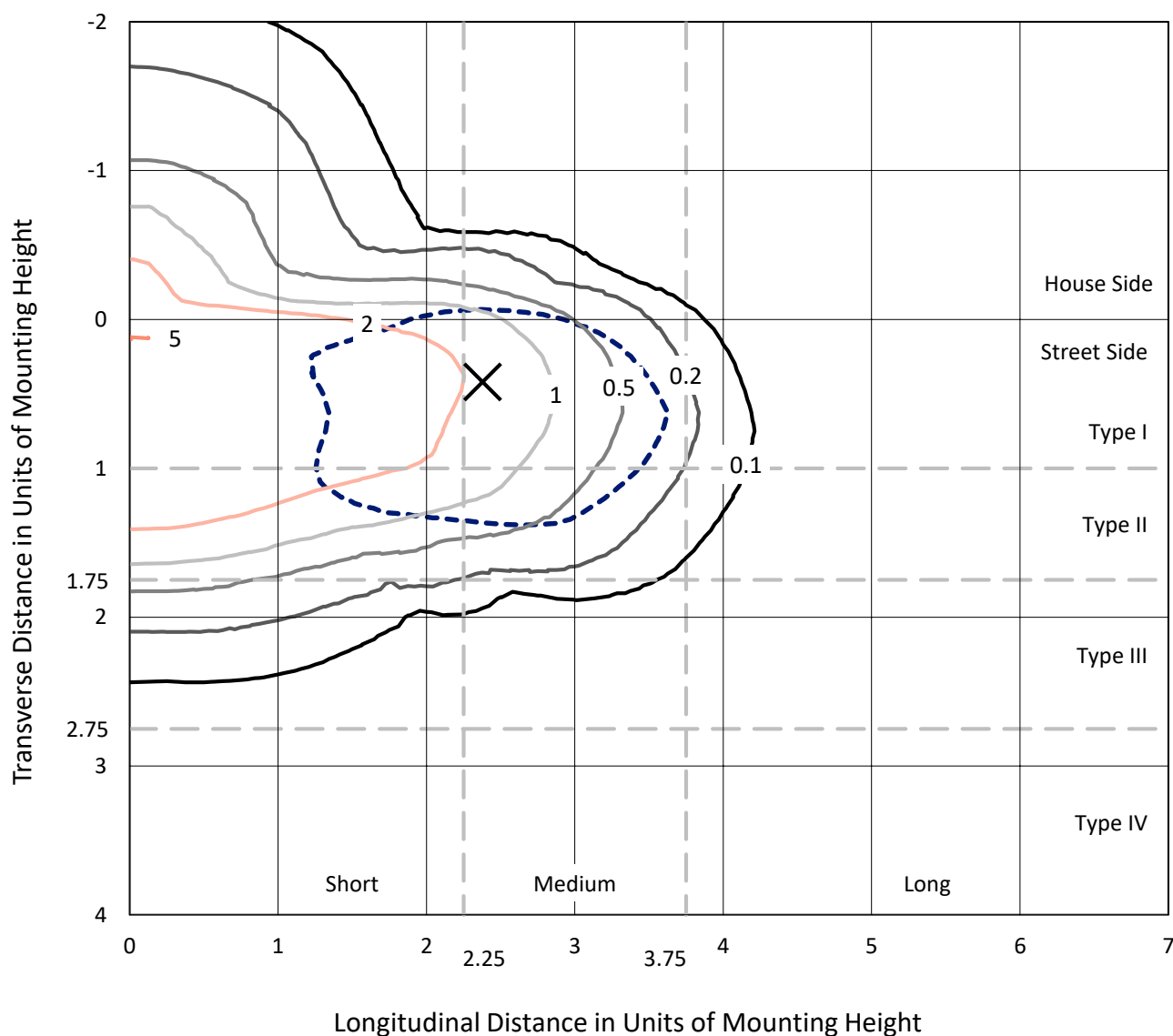
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

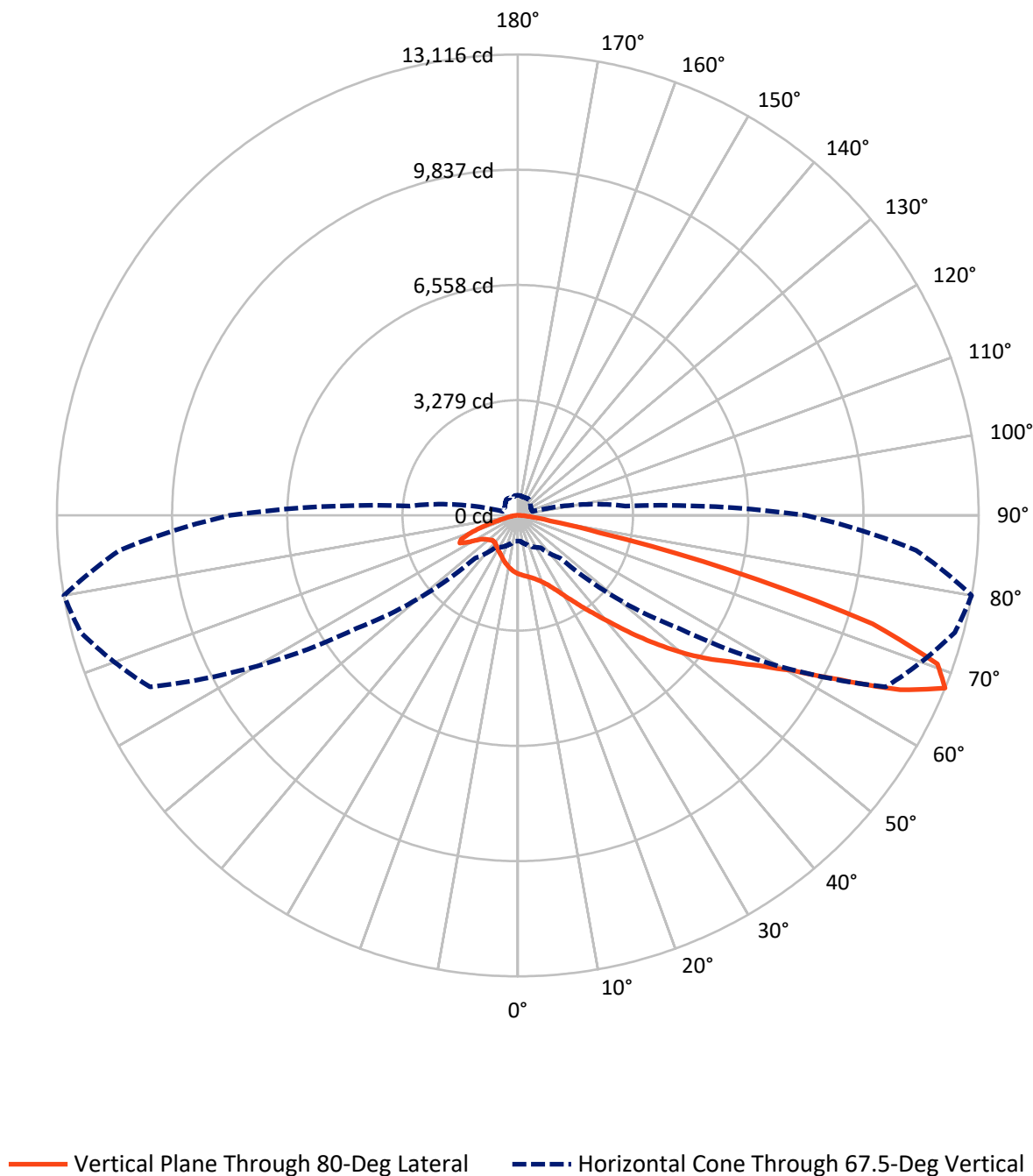


Based on 20 foot mounting height. Maximum calculated value = 5 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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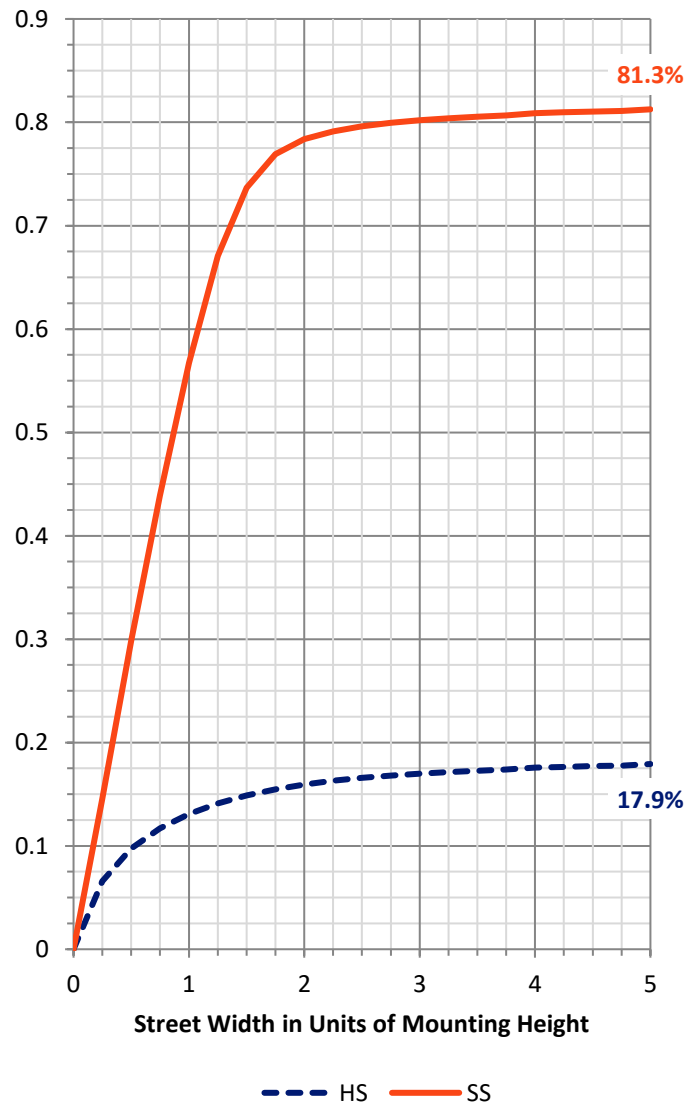
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2200.9	0.0	2200.9
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	9750.1	0.0	9750.1
	% Fixture	81.6	0.0	81.6
Total	Lumens	11951.0	0.0	11951.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.2	1.3
10°-20°	441.2	3.7
20°-30°	730.3	6.1
30°-40°	1194.6	10.0
40°-50°	1928.8	16.1
50°-60°	2784.6	23.3
60°-70°	3072.9	25.7
70°-80°	1416.4	11.9
80°-90°	229.1	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°	11951.0	100.0
0°-180°	11951.0	100.0

Coefficient of Utilization



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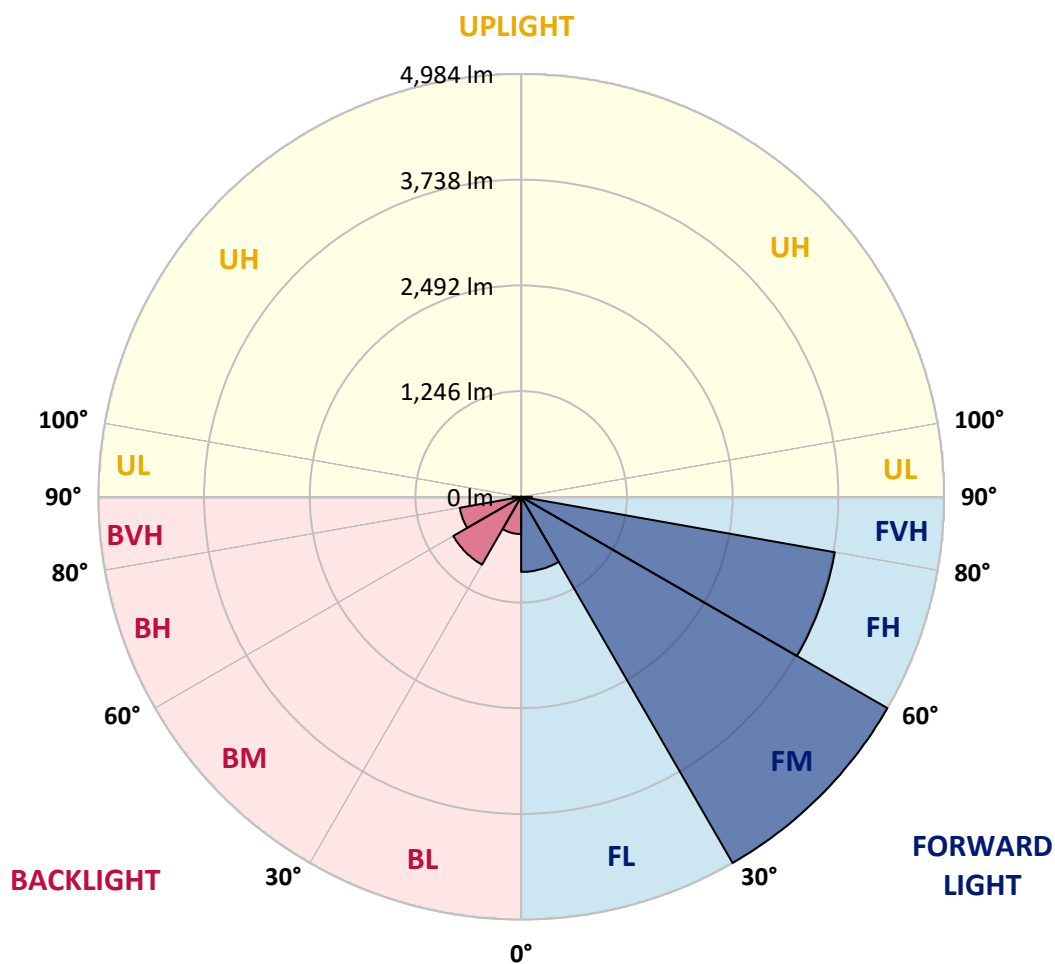
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	885.5	7.4			
FM	(30°-60°)	4984.5	41.7			
FH	(60°-80°)	3754.1	31.4			G2/5000
FVH	(80°-90°)	126.0	1.1			G2/225
BL	(0°-30°)	439.1	3.7	B1/500		
BM	(30°-60°)	923.4	7.7	B1/1000		
BH	(60°-80°)	735.2	6.2	B2/1000		G2/1000
BVH	(80°-90°)	103.1	0.9			G2/225
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°	1660.3	1660.3	1660.3	1660.3	1660.3	1660.3	1660.3	1660.3	1660.3	1660.3	1660.3
2.5°	1816.3	1805.7	1807.4	1804.5	1795.7	1780.4	1763.9	1733.9	1702.7	1686.2	1673.3
5°	1968.1	1965.1	1961.0	1951.6	1929.2	1897.4	1858.0	1805.1	1748.0	1718.0	1689.2
7.5°	2081.6	2079.8	2074.5	2068.7	2046.9	2008.6	1949.2	1873.9	1791.0	1749.8	1705.1
10°	2091.0	2094.0	2098.1	2114.0	2116.9	2096.3	2035.7	1944.5	1835.7	1782.7	1725.6
12.5°	2011.0	2017.5	2033.4	2074.0	2116.9	2142.2	2111.0	2018.7	1888.0	1823.9	1751.5
15°	1905.1	1908.6	1928.0	1983.9	2061.0	2139.3	2168.7	2100.4	1955.7	1876.9	1790.4
17.5°	1859.8	1861.6	1875.1	1912.2	1983.9	2095.7	2201.0	2189.3	2038.7	1942.8	1838.0
20°	1836.8	1841.0	1860.4	1896.9	1942.2	2039.8	2205.7	2285.2	2137.5	2025.1	1898.0
22.5°	1902.2	1900.4	1907.5	1925.7	1963.9	2022.8	2202.2	2384.0	2263.4	2131.0	1976.3
25°	2054.5	2061.0	2048.7	2028.1	2040.4	2081.6	2221.0	2491.1	2421.1	2266.9	2078.7
27.5°	2271.6	2265.2	2246.9	2198.7	2173.4	2191.0	2283.4	2606.4	2617.0	2445.8	2214.0
30°	2488.2	2482.9	2465.2	2406.4	2354.6	2339.9	2404.6	2738.8	2850.6	2660.5	2379.9
32.5°	2712.9	2707.0	2690.6	2631.7	2569.4	2535.2	2577.0	2891.8	3125.9	2917.1	2575.2
35°	2990.0	2978.8	2944.1	2862.4	2801.2	2774.7	2794.1	3084.2	3443.6	3220.7	2812.3
37.5°	3250.7	3267.7	3232.4	3119.5	3040.0	3030.6	3052.4	3318.9	3786.1	3560.1	3084.8
40°	3512.5	3515.4	3483.7	3391.3	3309.5	3294.2	3348.9	3603.7	4190.3	3966.1	3416.0
42.5°	3783.1	3789.0	3735.5	3650.2	3590.2	3593.1	3655.5	3937.3	4653.9	4444.4	3797.3
45°	4103.8	4112.6	4053.8	3942.0	3887.3	3997.3	3971.4	4311.5	5162.2	4988.1	4235.0
47.5°	4439.1	4452.7	4408.0	4303.2	4235.0	4386.2	4287.4	4726.3	5709.4	5571.1	4715.7
50°	4622.1	4641.5	4685.1	4677.4	4662.7	4637.4	4639.8	5171.1	6273.6	6178.3	5209.9
52.5°	4523.9	4523.3	4682.1	4875.1	5081.0	5096.3	5069.3	5640.0	6800.8	6772.0	5675.3
55°	4074.4	4105.0	4345.6	4719.2	5281.7	5632.9	5712.9	6177.2	7318.6	7352.1	6147.7
57.5°	3326.0	3351.3	3676.1	4196.7	5011.0	5951.8	6628.4	6957.9	7897.5	8054.0	6776.7
60°	2255.8	2286.4	2630.5	3256.0	4282.6	5774.1	7499.8	8351.1	8590.6	8946.5	7659.2
62.5°	1325.6	1353.2	1633.9	2054.0	3015.3	4948.7	7882.2	10333.3	9691.4	10293.3	9005.4
65°	912.5	931.4	1067.9	1278.5	1732.7	3333.0	7408.0	11701.8	11385.3	11961.9	10566.3
67.5°	734.3	731.9	840.2	983.7	1115.5	1718.6	5601.7	11547.1	12875.0	13115.6	11376.5
70°	604.8	602.5	676.0	794.9	891.4	967.8	3051.2	9744.4	12571.4	12669.1	10630.4
72.5°	506.0	508.3	555.4	643.7	731.3	729.0	1340.9	6854.9	9889.7	10565.1	8474.1
75°	427.1	428.3	459.5	521.9	593.7	587.2	727.2	3713.7	5748.8	6218.9	4697.4
77.5°	363.6	364.8	384.8	419.5	470.7	468.3	530.7	1604.4	2398.1	2368.7	1606.8
80°	324.2	324.2	333.6	340.1	368.3	357.7	393.6	770.7	1013.7	936.1	641.3
82.5°	254.2	255.3	313.0	310.7	290.1	276.5	276.5	454.2	537.2	496.6	375.4
85°	143.0	142.4	201.8	243.6	255.3	194.7	193.0	254.2	292.4	257.7	181.8
87.5°	61.2	62.4	93.5	108.3	144.7	121.2	119.4	131.2	148.9	128.9	84.1
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°	1660.3	1660.3	1660.3	1660.3	1660.3	1660.3	1660.3	1660.3	1660.3	1660.3	1660.3
2.5°	1660.9	1645.6	1612.1	1570.3	1532.7	1508.0	1485.6	1453.2	1455.0	1432.6	1416.2
5°	1659.8	1628.0	1550.3	1457.9	1369.1	1305.0	1256.7	1213.2	1202.6	1182.0	1169.7
7.5°	1660.9	1609.2	1478.5	1330.9	1220.8	1139.6	1098.5	1075.5	1070.2	1063.2	1063.7
10°	1665.0	1592.1	1399.7	1212.0	1096.7	1043.2	1033.2	1040.2	1048.5	1050.8	1051.4
12.5°	1674.5	1576.8	1313.2	1106.1	1019.0	1002.6	1019.6	1043.7	1059.6	1067.3	1066.7
15°	1695.6	1565.0	1230.3	1023.2	976.1	984.9	1016.7	1050.8	1073.8	1084.3	1084.9
17.5°	1718.6	1548.0	1144.9	959.6	944.3	966.7	1006.1	1046.1	1074.3	1086.1	1088.5
20°	1748.6	1526.8	1055.5	912.0	914.3	939.6	976.7	1016.7	1047.9	1057.9	1062.6
22.5°	1788.0	1503.8	977.3	873.1	880.2	899.6	928.4	963.1	990.2	994.9	999.0
25°	1841.0	1479.1	914.9	837.8	840.8	851.9	871.4	891.9	910.8	905.5	909.6
27.5°	1912.2	1457.9	868.4	805.5	800.2	802.5	812.5	819.0	829.0	814.3	816.1
30°	1995.7	1435.0	832.5	777.2	762.5	758.4	760.7	764.3	771.9	751.9	749.0
32.5°	2092.8	1407.3	799.0	752.5	731.9	723.7	724.9	734.3	763.7	751.3	744.9
35°	2205.7	1376.2	763.7	725.4	711.3	699.6	698.4	727.8	815.5	807.8	801.9
37.5°	2338.1	1345.0	728.4	694.8	696.0	683.1	679.0	712.5	825.5	795.5	791.3
40°	2506.4	1328.5	698.4	662.5	677.2	675.4	667.2	684.3	759.6	704.9	697.8
42.5°	2714.7	1330.9	676.0	627.8	654.8	673.7	660.7	661.3	688.4	647.2	640.7
45°	2971.8	1358.5	660.1	600.1	629.5	671.9	658.4	649.0	651.3	629.5	626.0
47.5°	3271.8	1415.6	649.0	577.2	605.4	665.4	657.8	645.4	640.1	628.4	625.4
50°	3605.4	1498.5	640.7	555.4	583.6	654.8	658.4	641.9	636.0	631.3	629.5
52.5°	3933.2	1593.3	628.4	536.6	566.6	641.9	660.1	638.4	631.9	628.4	626.6
55°	4298.5	1711.5	609.5	520.7	552.5	625.4	660.1	633.1	626.0	626.6	626.0
57.5°	4792.2	1902.7	587.2	507.2	535.4	605.4	649.0	627.2	618.4	619.0	619.5
60°	5563.5	2239.9	560.1	493.6	514.2	581.9	633.7	614.2	605.4	607.8	608.4
62.5°	6697.8	2734.7	524.8	473.6	491.9	556.6	612.5	597.8	588.9	594.8	594.8
65°	7876.9	3171.2	481.3	448.3	468.3	528.9	586.0	577.2	568.4	581.9	581.3
67.5°	8194.0	3073.6	437.7	420.7	444.8	498.3	554.2	549.5	544.8	568.4	567.2
70°	7279.1	2467.6	397.7	392.4	418.9	465.4	520.1	520.1	517.2	534.8	530.7
72.5°	5545.8	1749.8	359.5	362.4	389.5	429.5	483.0	487.2	482.5	491.3	487.7
75°	2968.8	1001.4	321.2	329.5	353.0	393.0	441.9	446.0	443.0	442.4	444.2
77.5°	986.7	489.5	281.2	294.2	314.8	355.4	398.9	405.4	398.3	397.1	396.6
80°	439.5	307.7	237.1	254.2	272.4	312.4	353.6	358.9	351.2	361.8	348.3
82.5°	282.4	202.4	190.0	208.9	226.5	269.5	308.3	309.5	302.4	351.2	299.5
85°	137.1	125.3	143.0	160.0	175.3	211.8	255.3	255.9	238.3	217.1	209.5
87.5°	68.2	73.0	95.3	110.6	118.3	145.3	185.9	182.4	174.7	158.9	146.5
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)