

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: P193114

Luminaire Tested: **GLEON-AF-06-LED-E1-T2-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193114
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-06-LED-E1-T2-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 33789.5 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 333
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



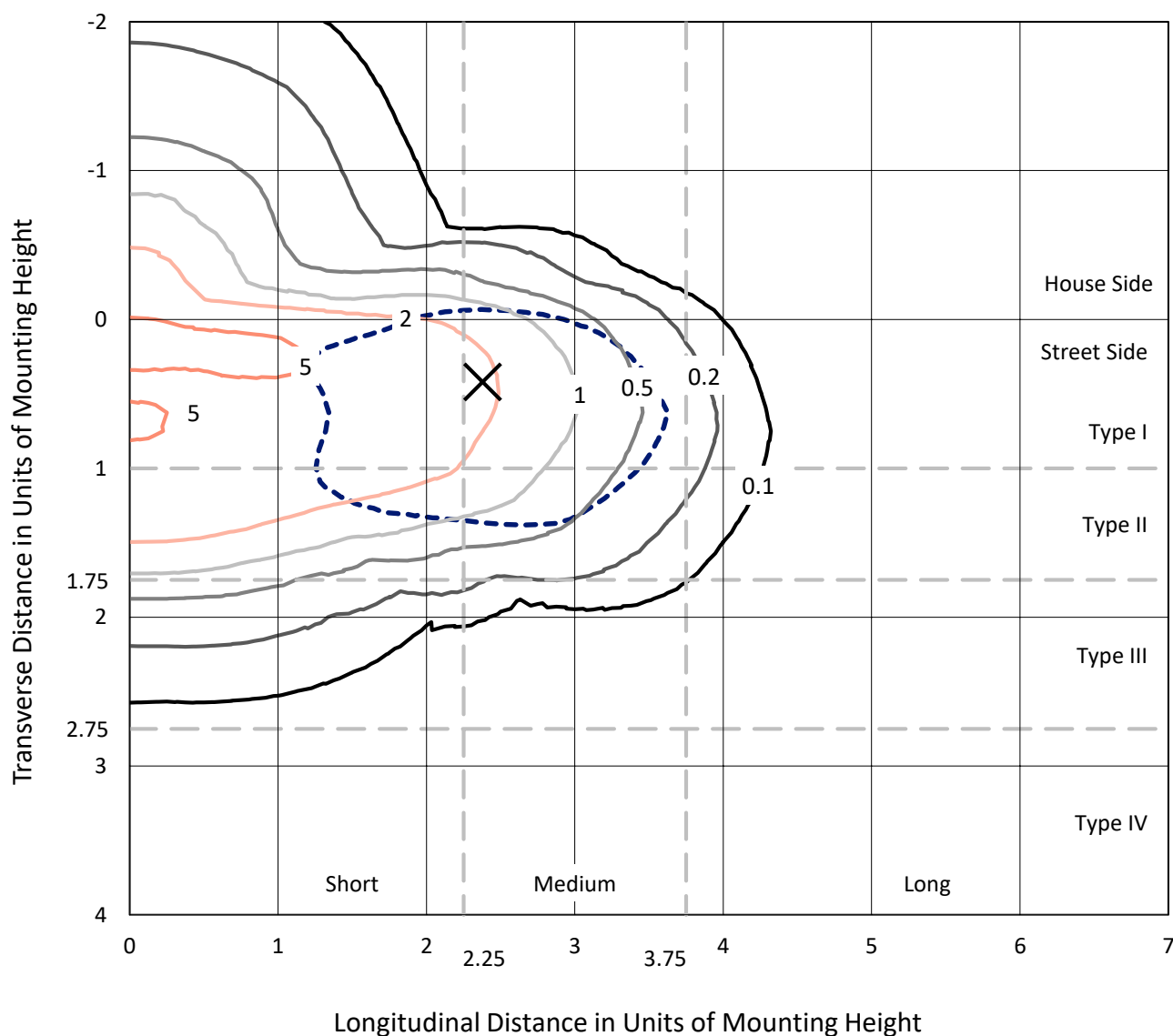
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

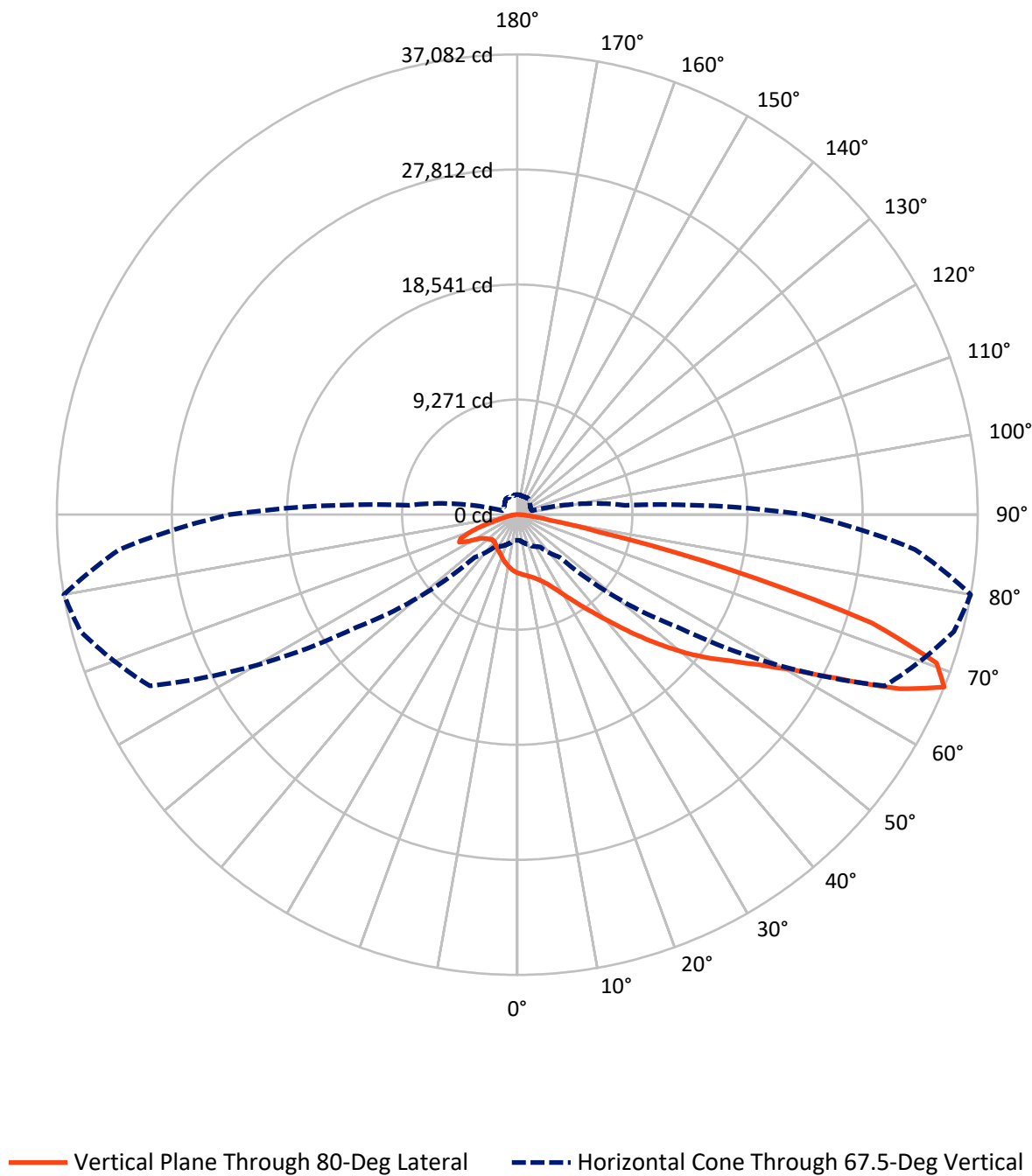


Based on 30 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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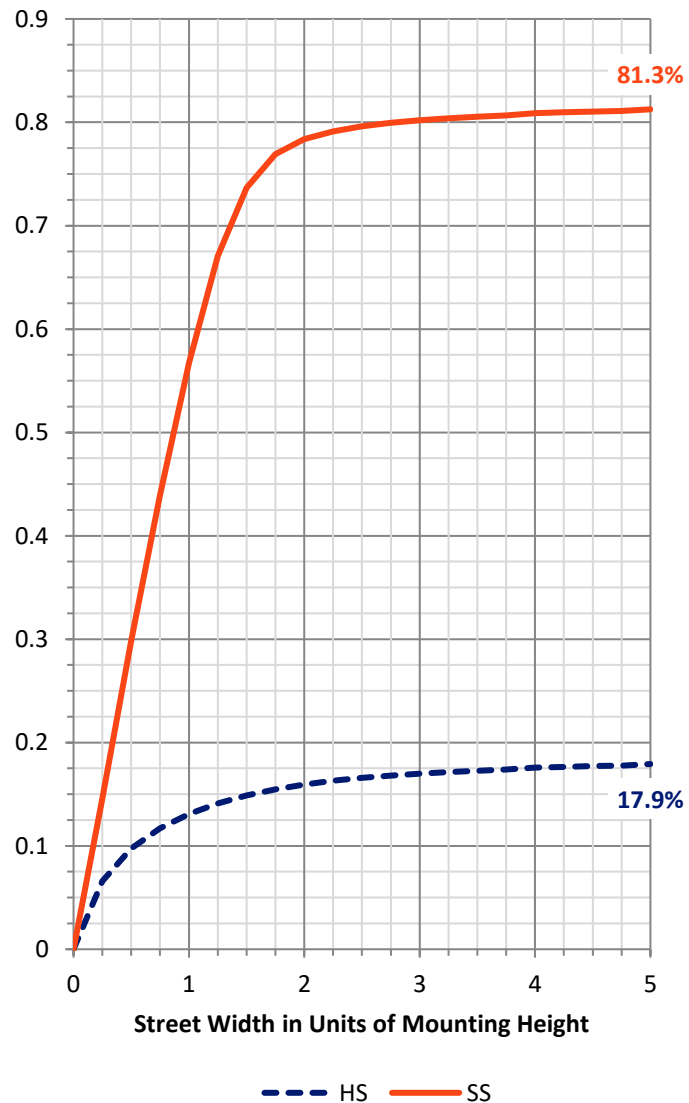
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6222.7	0.0	6222.7
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	27566.8	0.0	27566.8
	% Fixture	81.6	0.0	81.6
Total	Lumens	33789.5	0.0	33789.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	433.0	1.3
10°-20°	1247.4	3.7
20°-30°	2064.8	6.1
30°-40°	3377.5	10.0
40°-50°	5453.2	16.1
50°-60°	7872.9	23.3
60°-70°	8688.2	25.7
70°-80°	4004.7	11.9
80°-90°	647.7	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°	33789.5	100.0
0°-180°	33789.5	100.0

Coefficient of Utilization



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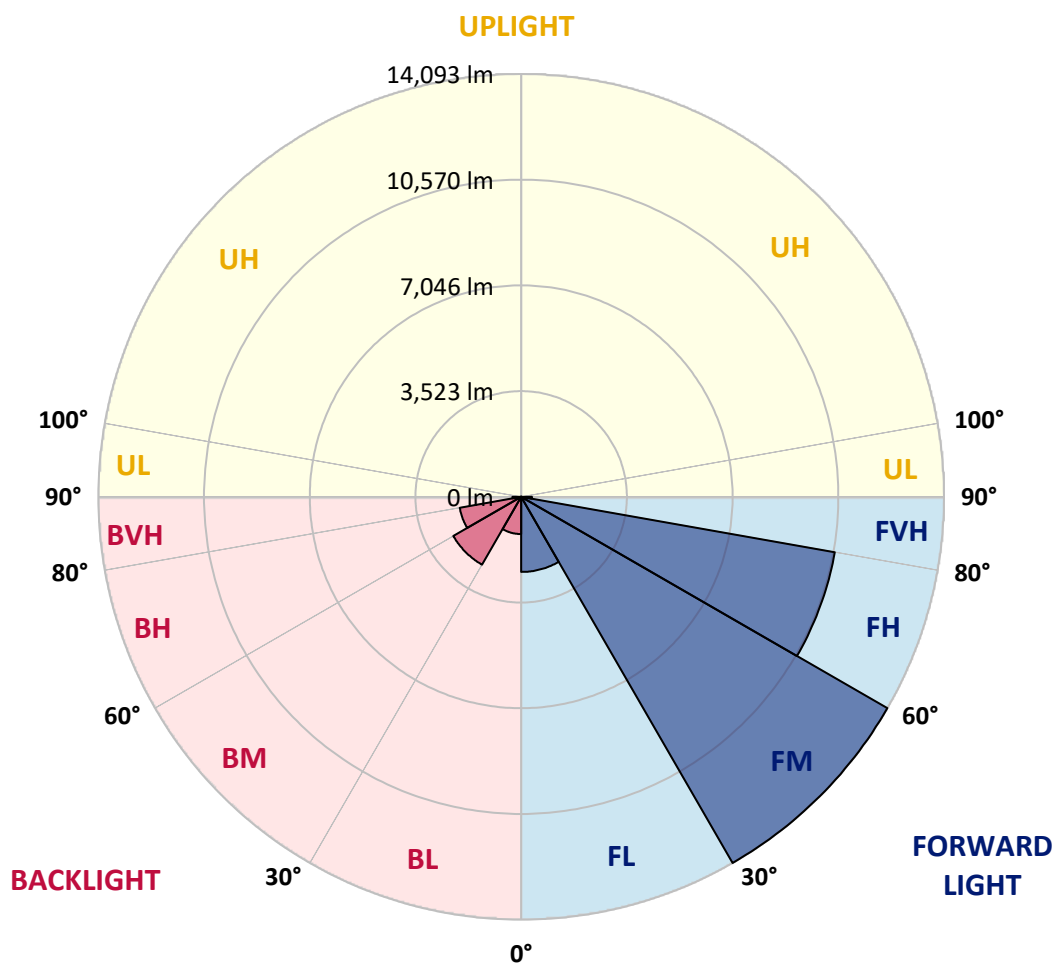
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2503.7	7.4			
FM	(30°-60°)	14092.7	41.7			
FH	(60°-80°)	10614.2	31.4			G4/12000
FVH	(80°-90°)	356.1	1.1			G3/500
BL	(0°-30°)	1241.5	3.7	B3/2500		
BM	(30°-60°)	2610.8	7.7	B3/5000		
BH	(60°-80°)	2078.8	6.2	B3/2500		G3/2500
BVH	(80°-90°)	291.6	0.9			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	4694.4	4694.4	4694.4	4694.4	4694.4	4694.4	4694.4	4694.4	4694.4	4694.4	4694.4
2.5°	5135.1	5105.2	5110.2	5101.9	5076.9	5033.7	4987.1	4902.3	4814.1	4767.5	4730.9
5°	5564.3	5556.1	5544.4	5517.8	5454.6	5364.7	5253.3	5103.6	4942.3	4857.3	4775.8
7.5°	5885.4	5880.5	5865.5	5848.7	5787.3	5679.1	5511.1	5298.2	5063.6	4947.2	4820.7
10°	5912.0	5920.3	5932.0	5976.9	5985.2	5927.0	5755.7	5497.8	5190.1	5040.3	4879.0
12.5°	5685.8	5704.1	5749.0	5863.7	5985.2	6056.8	5968.7	5707.3	5338.1	5156.8	4952.1
15°	5386.4	5396.4	5451.3	5609.3	5827.2	6048.4	6131.6	5938.7	5529.4	5306.5	5062.0
17.5°	5258.3	5263.2	5301.5	5406.3	5609.3	5925.3	6223.1	6189.9	5764.0	5492.8	5196.7
20°	5193.4	5205.0	5260.0	5363.1	5491.2	5767.2	6236.4	6460.9	6043.4	5725.7	5366.4
22.5°	5378.1	5373.1	5393.0	5444.6	5552.7	5719.0	6226.4	6740.4	6399.5	6025.1	5587.6
25°	5808.9	5827.2	5792.3	5734.0	5769.0	5885.4	6279.6	7043.2	6845.2	6409.3	5877.0
27.5°	6422.7	6404.4	6352.9	6216.5	6144.8	6194.8	6456.0	7369.2	7399.1	6915.1	6259.7
30°	7034.8	7019.9	6969.9	6803.7	6657.2	6615.6	6798.6	7743.5	8059.6	7522.3	6728.7
32.5°	7670.3	7653.7	7607.0	7440.8	7264.4	7168.0	7286.1	8176.0	8838.1	8247.6	7281.0
35°	8453.8	8422.2	8324.0	8092.9	7919.8	7845.1	7899.9	8720.0	9736.3	9105.8	7951.5
37.5°	9190.8	9239.0	9139.2	8819.7	8595.2	8568.5	8630.2	9383.7	10704.4	10065.7	8721.6
40°	9931.0	9939.4	9849.5	9588.3	9357.1	9313.8	9468.5	10188.9	11847.3	11213.5	9658.2
42.5°	10696.2	10712.9	10561.4	10320.2	10150.6	10158.9	10335.2	11132.0	13158.1	12565.9	10736.2
45°	11602.8	11627.7	11461.4	11145.3	10990.6	11301.7	11228.5	12189.9	14595.4	14102.9	11973.7
47.5°	12550.9	12589.2	12462.7	12166.7	11973.7	12401.3	12121.8	13362.7	16142.4	15751.5	13332.8
50°	13068.3	13123.2	13246.3	13224.6	13183.1	13111.5	13118.2	14620.3	17737.7	17468.3	14730.2
52.5°	12790.6	12788.9	13238.0	13783.6	14365.9	14409.1	14332.5	15946.2	19228.2	19146.7	16046.0
55°	11519.6	11606.1	12286.5	13342.7	14933.1	15926.1	16152.5	17464.9	20692.1	20786.9	17381.7
57.5°	9403.6	9475.2	10393.4	11865.7	14167.8	16827.8	18740.8	19672.3	22328.9	22771.4	19160.0
60°	6377.8	6464.4	7437.4	9205.7	12108.4	16325.4	21204.4	23611.5	24288.6	25294.9	21655.1
62.5°	3747.8	3826.0	4619.5	5807.2	8525.4	13991.5	22285.7	29215.7	27400.9	29102.7	25461.2
65°	2580.0	2633.2	3019.3	3614.8	4898.9	9423.6	20944.9	33085.1	32190.1	33820.2	29874.4
67.5°	2076.0	2069.4	2375.4	2781.3	3154.0	4859.0	15838.0	32647.5	36402.0	37082.4	32165.1
70°	1710.0	1703.4	1911.4	2247.4	2520.2	2736.4	8626.8	27550.6	35543.6	35819.8	30055.8
72.5°	1430.6	1437.2	1570.3	1819.8	2067.7	2061.0	3791.1	19381.3	27961.5	29871.2	23959.1
75°	1207.7	1211.0	1299.2	1475.5	1678.4	1660.2	2056.0	10500.0	16253.9	17583.0	13281.2
77.5°	1028.0	1031.4	1087.9	1186.0	1330.8	1324.1	1500.4	4536.3	6780.3	6697.1	4543.0
80°	916.5	916.5	943.2	961.5	1041.4	1011.4	1113.0	2179.1	2866.2	2646.6	1813.1
82.5°	718.6	721.9	885.0	878.3	820.1	781.9	781.9	1284.3	1518.8	1404.0	1061.4
85°	404.3	402.5	570.6	688.7	721.9	550.6	545.6	718.6	826.8	728.6	514.1
87.5°	172.9	176.4	264.5	306.0	409.1	342.6	337.7	370.9	420.8	364.3	237.8
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°	4694.4	4694.4	4694.4	4694.4	4694.4	4694.4	4694.4	4694.4	4694.4	4694.4	4694.4
2.5°	4696.0	4652.8	4558.0	4439.9	4333.3	4263.6	4200.3	4108.8	4113.8	4050.6	4004.1
5°	4692.6	4602.9	4383.3	4122.2	3870.9	3689.5	3553.2	3430.0	3400.1	3341.9	3307.0
7.5°	4696.0	4549.7	4180.4	3762.8	3451.7	3222.2	3105.7	3040.8	3025.8	3005.9	3007.6
10°	4707.7	4501.4	3957.4	3426.8	3100.8	2949.4	2921.0	2941.0	2964.3	2971.0	2972.6
12.5°	4734.3	4458.1	3712.8	3127.3	2881.1	2834.6	2882.8	2951.0	2995.9	3017.5	3015.9
15°	4794.2	4424.9	3478.4	2892.7	2759.7	2784.7	2874.5	2971.0	3035.9	3065.9	3067.5
17.5°	4859.0	4376.6	3237.2	2713.1	2669.9	2733.1	2844.6	2957.6	3037.5	3070.8	3077.4
20°	4943.9	4316.8	2984.3	2578.4	2585.1	2656.5	2761.4	2874.5	2962.7	2991.0	3004.3
22.5°	5055.3	4251.9	2763.0	2468.6	2488.6	2543.4	2625.0	2723.1	2799.7	2813.0	2824.6
25°	5205.0	4182.0	2586.7	2368.8	2377.2	2408.7	2463.6	2521.8	2575.0	2560.1	2571.8
27.5°	5406.3	4122.2	2455.3	2277.3	2262.3	2269.0	2297.2	2315.5	2343.8	2302.3	2307.2
30°	5642.5	4057.3	2353.9	2197.4	2155.9	2144.2	2150.9	2160.8	2182.5	2125.9	2117.7
32.5°	5917.1	3979.0	2259.1	2127.6	2069.4	2046.1	2049.3	2076.0	2159.2	2124.2	2106.0
35°	6236.4	3890.8	2159.2	2051.2	2011.1	1977.9	1974.6	2057.7	2305.6	2283.9	2267.3
37.5°	6610.7	3802.8	2059.4	1964.6	1967.9	1931.2	1919.6	2014.5	2333.9	2249.0	2237.4
40°	7086.4	3756.2	1974.6	1873.0	1914.7	1909.7	1886.4	1934.7	2147.6	1992.9	1972.9
42.5°	7675.4	3762.8	1911.4	1774.9	1851.5	1904.7	1868.2	1869.8	1946.2	1829.9	1811.5
45°	8402.2	3841.0	1866.4	1696.8	1780.0	1899.7	1861.4	1834.8	1841.4	1780.0	1769.9
47.5°	9250.7	4002.3	1834.8	1631.9	1711.8	1881.5	1859.8	1824.8	1809.9	1776.5	1768.3
50°	10193.8	4236.8	1811.5	1570.3	1650.2	1851.5	1861.4	1814.9	1798.2	1785.0	1780.0
52.5°	11120.4	4504.8	1776.5	1517.1	1602.0	1814.9	1866.4	1804.9	1786.6	1776.5	1771.6
55°	12153.5	4839.1	1723.3	1472.2	1562.0	1768.3	1866.4	1789.8	1769.9	1771.6	1769.9
57.5°	13549.0	5379.7	1660.2	1433.9	1513.8	1711.8	1834.8	1773.3	1748.3	1750.0	1751.7
60°	15729.8	6332.8	1583.6	1395.7	1453.9	1645.2	1791.6	1736.6	1711.8	1718.4	1720.1
62.5°	18937.1	7731.8	1483.8	1339.1	1390.7	1573.7	1731.6	1690.1	1665.1	1681.8	1681.8
65°	22270.8	8966.2	1360.8	1267.6	1324.1	1495.4	1656.8	1631.9	1606.8	1645.2	1643.5
67.5°	23167.4	8690.1	1237.6	1189.4	1257.6	1409.0	1567.0	1553.6	1540.3	1606.8	1603.6
70°	20580.6	6976.6	1124.5	1109.5	1184.4	1315.8	1470.5	1470.5	1462.2	1512.1	1500.4
72.5°	15680.1	4947.2	1016.4	1024.8	1101.3	1214.3	1365.7	1377.3	1364.1	1389.0	1379.1
75°	8394.0	2831.2	908.3	931.6	998.1	1111.1	1249.3	1261.0	1252.5	1250.9	1255.9
77.5°	2789.6	1384.0	795.2	831.8	889.9	1004.7	1127.9	1146.1	1126.1	1122.8	1121.2
80°	1242.6	870.0	670.5	718.6	770.2	883.4	999.7	1014.7	993.0	1023.0	984.8
82.5°	798.4	572.2	537.3	590.5	640.5	761.9	871.7	874.9	855.1	993.0	846.8
85°	387.6	354.3	404.3	452.5	495.7	598.8	721.9	723.7	673.7	613.8	592.1
87.5°	193.0	206.3	269.5	312.7	334.4	411.0	525.6	515.7	494.1	449.2	414.2
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)