

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: P193225

Luminaire Tested: **GLEON-AF-07-LED-E1-T3R-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193225
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-07-LED-E1-T3R-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33637.6 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 295
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



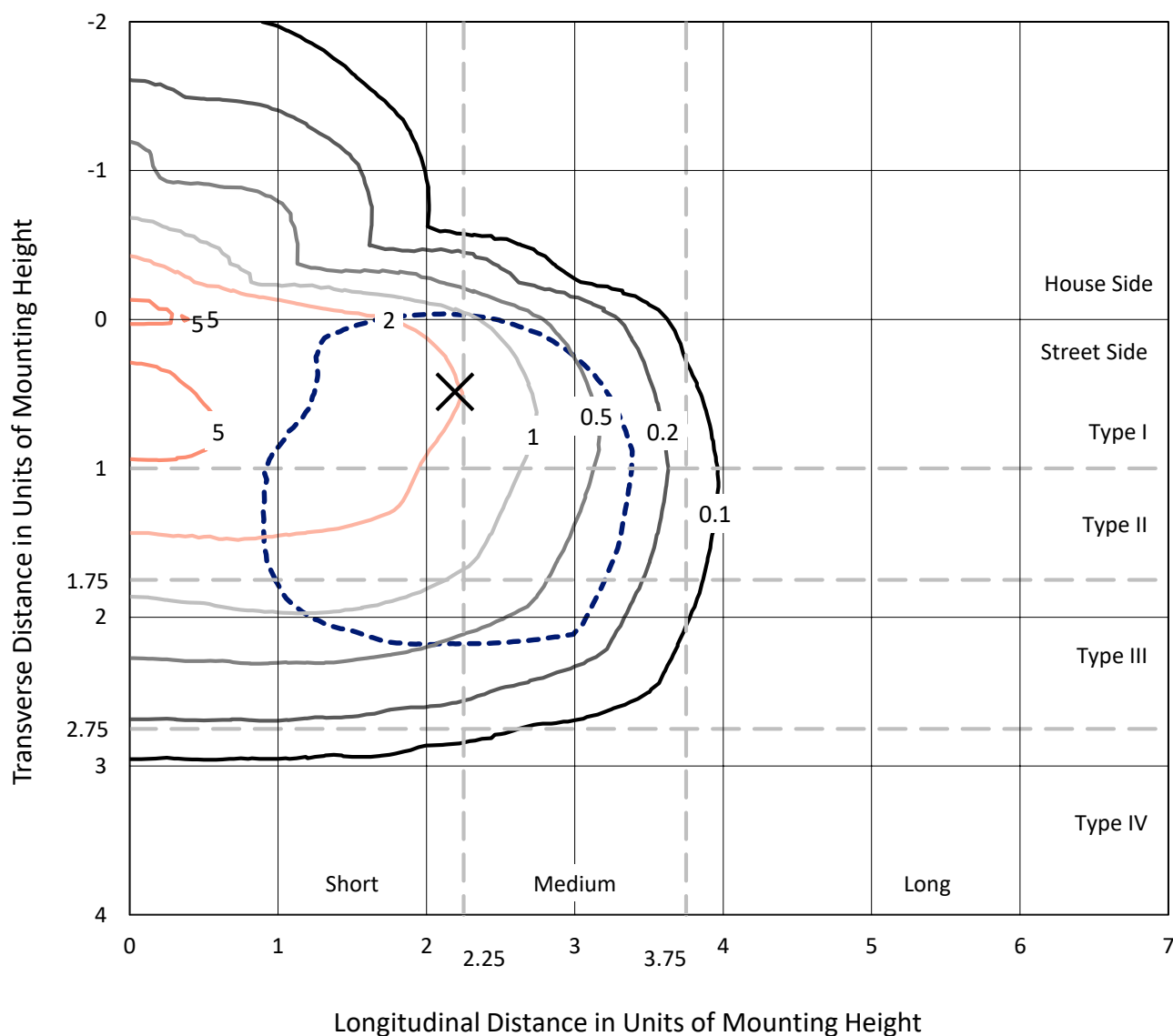
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

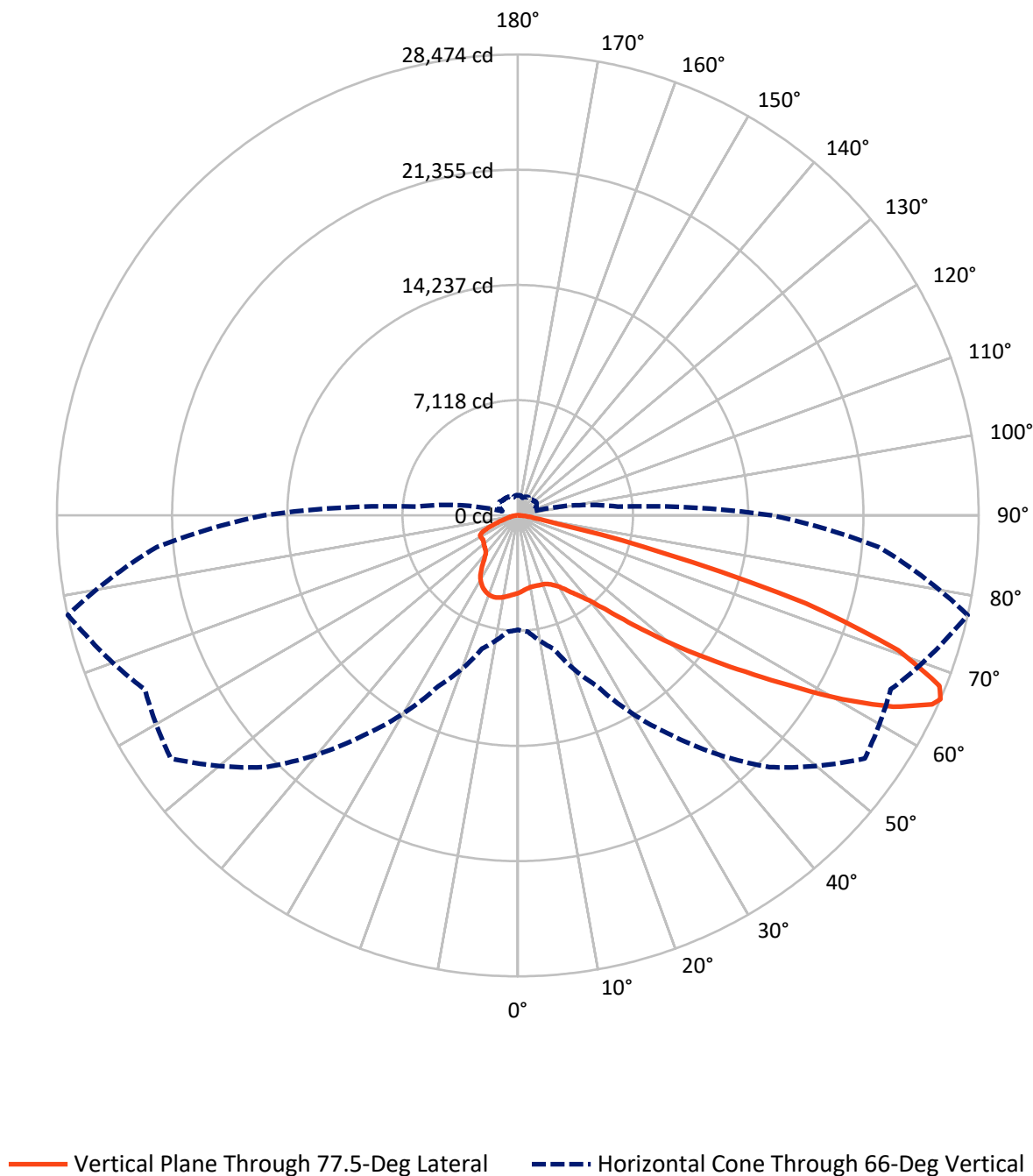


Based on 30 foot mounting height. Maximum calculated value = 6.6 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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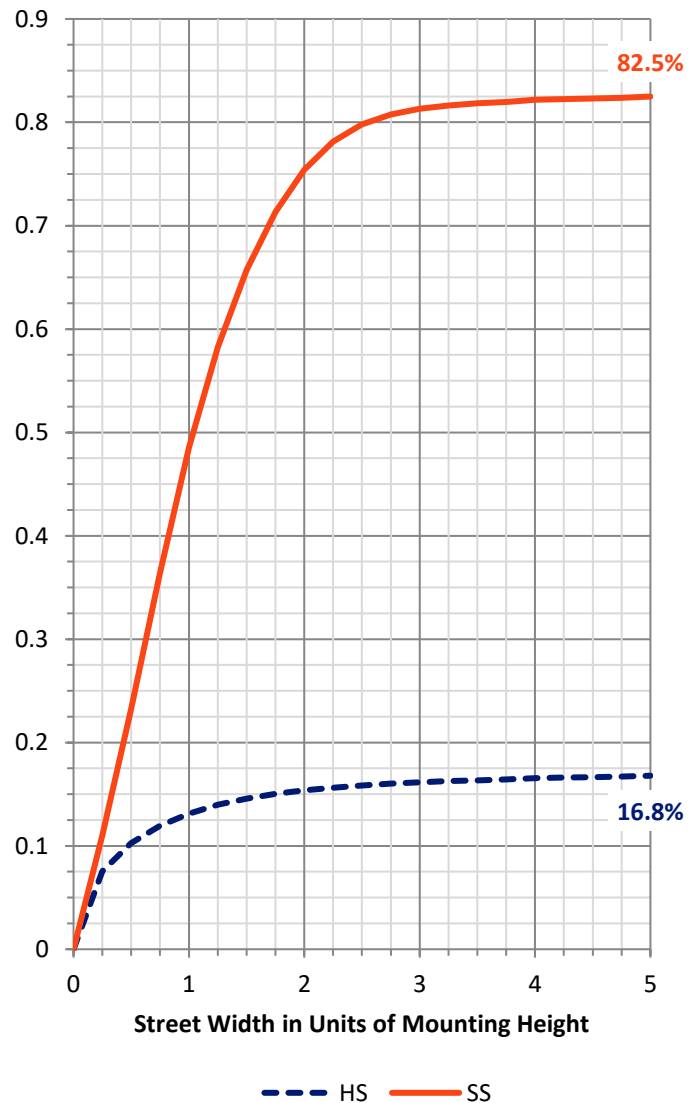
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5746.8	0.0	5746.8
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	27890.9	0.0	27890.9
	% Fixture	82.9	0.0	82.9
Total	Lumens	33637.6	0.0	33637.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.3	1.3
10°-20°	1208.2	3.6
20°-30°	2062.0	6.1
30°-40°	3300.9	9.8
40°-50°	5099.5	15.2
50°-60°	7232.9	21.5
60°-70°	9675.6	28.8
70°-80°	4201.9	12.5
80°-90°	428.5	1.3
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°	33637.6	100.0
0°-180°	33637.6	100.0

Coefficient of Utilization



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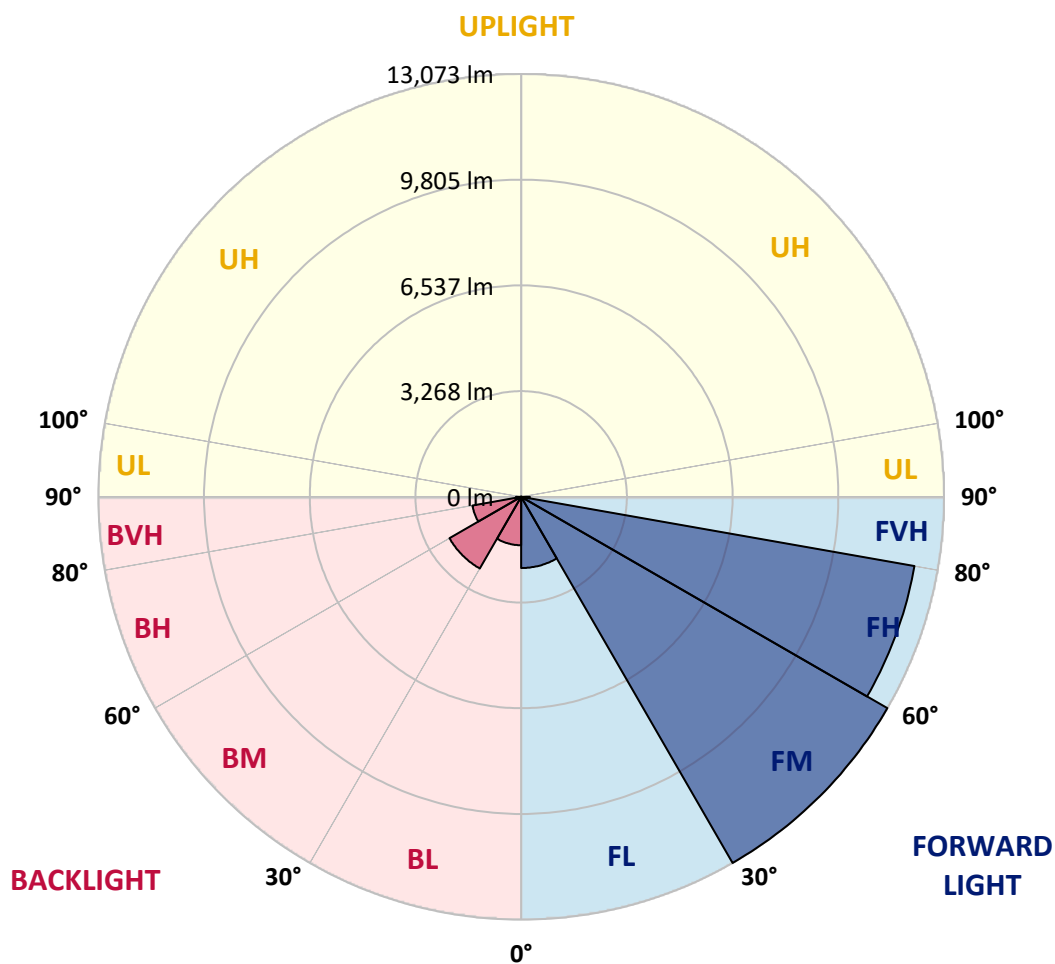
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2201.7	6.5			
FM	(30°-60°)	13073.4	38.9			
FH	(60°-80°)	12347.1	36.7			G5
FVH	(80°-90°)	268.7	0.8			G3/500
BL	(0°-30°)	1496.7	4.4	B3/2500		
BM	(30°-60°)	2559.9	7.6	B3/5000		
BH	(60°-80°)	1530.5	4.5	B3/2500		G3/2500
BVH	(80°-90°)	159.7	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	4793.5	4793.5	4793.5	4793.5	4793.5	4793.5	4793.5	4793.5	4793.5	4793.5	4793.5
2.5°	4240.5	4269.1	4292.9	4315.0	4359.7	4432.7	4517.0	4585.3	4683.8	4702.9	4755.4
5°	3851.1	3851.1	3870.1	3903.5	3963.9	4073.5	4188.0	4340.6	4555.1	4606.0	4745.9
7.5°	3662.0	3663.5	3674.6	3703.3	3755.7	3855.8	3981.4	4160.9	4451.8	4536.0	4774.4
10°	3731.9	3715.9	3692.1	3677.7	3685.8	3744.6	3863.7	4064.0	4388.3	4496.3	4838.0
12.5°	4122.8	4092.7	4010.0	3900.3	3795.4	3752.5	3822.4	4017.9	4361.2	4486.7	4922.2
15°	4761.7	4749.1	4594.9	4367.5	4113.3	3900.3	3852.6	4000.4	4364.4	4497.8	5022.4
17.5°	5562.8	5545.4	5341.9	5011.2	4596.4	4181.6	3959.1	4014.7	4375.5	4517.0	5119.4
20°	6371.8	6317.7	6098.5	5704.2	5171.8	4564.7	4135.6	4051.4	4389.8	4537.6	5221.1
22.5°	6975.7	6931.2	6734.0	6351.1	5737.6	5008.1	4372.3	4114.8	4435.9	4598.0	5346.6
25°	7506.5	7509.7	7314.3	6944.0	6309.8	5478.6	4677.5	4284.9	4553.5	4721.9	5518.2
27.5°	8163.0	8124.8	7942.0	7575.0	6875.5	5953.7	5046.2	4518.5	4728.4	4898.4	5744.0
30°	8948.2	8921.1	8709.7	8293.4	7503.4	6464.0	5467.5	4790.4	4954.1	5130.5	6039.7
32.5°	9871.6	9858.8	9639.5	9103.9	8228.1	7064.7	5961.7	5149.5	5291.0	5473.8	6464.0
35°	10955.5	10957.1	10698.0	10054.4	9021.2	7764.1	6522.8	5612.1	5701.0	5891.8	6969.3
37.5°	11623.0	11704.1	11607.1	10950.7	9919.2	8546.0	7250.7	6225.6	6168.3	6360.6	7511.3
40°	11766.0	11864.6	12171.4	11837.5	10923.7	9407.4	7895.9	6815.1	6743.7	6978.9	8209.0
42.5°	11565.8	11702.5	12351.0	12586.2	11990.2	10469.1	8763.8	7691.0	7600.3	7916.6	9076.8
45°	11446.6	11548.3	12298.6	12975.6	12915.2	11669.1	9868.4	8790.8	8757.3	9172.2	10078.2
47.5°	11239.9	11332.2	12053.7	13066.2	13458.8	12768.9	11195.5	10135.3	10200.6	10744.1	11208.3
50°	11351.3	11389.4	11780.4	12835.7	13616.1	13574.8	12678.3	11692.9	11915.5	12594.1	12487.7
52.5°	11335.3	11433.9	11748.5	12457.4	13636.7	14072.3	14139.0	13430.1	13899.0	14677.8	13906.9
55°	9164.2	9345.5	11375.1	12362.0	13709.9	14560.2	15439.1	15261.2	16135.2	17042.8	15509.1
57.5°	8751.0	8865.6	9990.7	12562.3	14097.6	15491.6	16885.4	17276.4	18738.6	19792.4	17460.7
60°	8669.9	8811.4	9976.5	12807.2	14884.4	17009.4	19029.4	19716.1	21906.3	23060.1	19724.0
62.5°	8417.3	8569.9	9882.7	12775.3	16001.7	19108.9	21774.3	22309.8	24910.1	26032.2	21617.0
65°	7616.3	7759.3	9118.2	12261.9	16755.1	21350.0	25023.0	24687.5	27281.5	28125.4	22561.1
66°	7067.9	7207.8	8515.7	11658.0	16580.2	21985.7	26173.7	25423.4	27812.3	28473.5	22376.7
67.5°	6065.0	6174.7	7346.0	10305.5	15650.6	22163.7	27141.6	25976.6	27867.8	28101.6	21322.9
70°	3831.9	3863.7	4774.4	7114.0	11847.1	19221.8	25668.3	24603.3	25569.7	24937.2	17875.6
72.5°	1662.5	1651.4	2291.8	3619.0	6707.1	12897.7	20763.4	20300.9	20057.9	18614.6	12513.0
75°	925.0	937.8	1190.5	1680.0	2725.8	6335.2	13582.7	12997.8	10974.5	9364.5	5674.1
77.5°	742.2	759.7	987.0	1192.0	1223.8	2209.2	6355.8	5171.8	3113.6	2498.4	1576.6
80°	586.5	618.3	861.4	928.1	824.9	910.6	2053.4	1641.8	1231.8	1130.1	816.9
82.5°	464.2	486.3	739.0	702.5	576.9	613.5	983.8	958.4	801.1	729.6	472.0
85°	333.8	375.1	607.2	529.3	378.2	413.2	653.3	626.2	459.3	375.1	208.2
87.5°	136.7	178.0	429.2	351.3	211.4	192.3	325.8	306.8	217.8	159.0	103.4
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°	4793.5	4793.5	4793.5	4793.5	4793.5	4793.5	4793.5	4793.5	4793.5	4793.5	4793.5
2.5°	4788.8	4826.8	4876.1	4906.4	4922.2	4933.4	4950.9	4949.3	4954.1	4955.7	4962.0
5°	4820.5	4884.1	4955.7	4974.7	4974.7	4957.2	4939.7	4911.1	4900.1	4896.8	4900.1
7.5°	4903.2	4973.2	5035.1	5012.9	4965.2	4895.3	4804.6	4725.1	4682.3	4668.0	4664.9
10°	5008.1	5092.3	5117.7	5033.5	4893.6	4725.1	4545.6	4415.2	4340.6	4319.9	4313.5
12.5°	5135.1	5214.7	5179.8	5001.8	4742.6	4470.9	4223.0	4014.7	3858.9	3809.8	3806.5
15°	5275.1	5337.1	5214.7	4903.2	4517.0	4116.5	3674.6	3315.4	3121.5	3059.5	3054.8
17.5°	5405.4	5437.2	5194.0	4731.6	4184.8	3536.2	2949.9	2673.3	2606.6	2622.4	2625.6
20°	5516.7	5516.7	5124.2	4485.2	3662.0	2771.8	2401.5	2396.7	2444.4	2492.1	2501.7
22.5°	5639.1	5566.0	5001.8	4137.1	2921.3	2268.0	2214.0	2258.5	2312.5	2365.0	2372.9
25°	5790.0	5605.6	4831.7	3609.5	2296.6	2059.9	2080.6	2117.0	2144.1	2177.4	2182.2
27.5°	5958.6	5656.6	4607.6	2883.2	1993.1	1929.5	1945.4	1958.2	1954.8	1967.6	1970.8
30°	6160.4	5715.4	4300.8	2253.7	1867.5	1818.2	1789.6	1778.5	1778.5	1799.2	1807.1
32.5°	6430.6	5802.8	3860.5	1931.0	1807.1	1738.8	1646.5	1605.2	1621.2	1691.2	1706.9
35°	6727.7	5896.5	3264.5	1821.5	1794.4	1702.3	1559.1	1482.8	1484.5	1549.7	1570.3
37.5°	7052.0	6015.7	2611.3	1800.7	1823.0	1703.8	1513.0	1408.2	1365.3	1365.3	1373.2
40°	7466.9	6138.0	2113.8	1815.1	1883.4	1722.9	1489.2	1349.4	1228.6	1231.8	1238.1
42.5°	8007.2	6243.1	1846.8	1845.3	1956.5	1748.2	1487.7	1271.4	1166.6	1238.1	1303.3
45°	8608.0	6295.5	1729.2	1872.2	2015.3	1764.2	1462.2	1258.7	1174.5	1387.5	1511.5
47.5°	9299.4	6265.3	1664.0	1881.8	2029.6	1764.2	1433.6	1288.9	1230.1	1606.8	1751.4
50°	10057.6	6177.8	1600.5	1862.8	2024.9	1761.0	1460.6	1319.2	1250.8	1645.0	1745.1
52.5°	10949.1	6104.8	1533.8	1821.5	1991.5	1743.6	1492.4	1306.4	1185.7	1495.5	1565.5
55°	11966.3	6125.4	1459.0	1762.6	1939.1	1710.1	1481.3	1255.6	1117.2	1317.5	1360.5
57.5°	13266.5	6371.8	1370.0	1687.9	1867.5	1654.5	1441.5	1231.8	1096.6	1195.2	1220.7
60°	14717.6	6800.9	1258.7	1613.2	1778.5	1565.5	1411.3	1243.0	1106.2	1185.7	1198.3
62.5°	15782.4	7050.4	1163.4	1503.5	1657.7	1467.1	1373.2	1257.1	1131.6	1219.0	1215.8
65°	16071.7	6640.3	1044.2	1343.1	1494.0	1363.7	1325.6	1273.1	1142.8	1246.1	1231.8
66°	15666.3	6198.5	991.7	1268.3	1411.3	1312.9	1301.8	1271.4	1137.9	1249.3	1225.5
67.5°	14682.6	5292.6	901.2	1158.7	1279.4	1236.5	1263.6	1257.1	1125.3	1246.1	1212.7
70°	11974.3	3611.0	770.9	964.8	1064.8	1088.8	1190.5	1206.3	1084.0	1190.5	1117.2
72.5°	8366.4	2199.7	681.9	748.7	861.4	928.1	1090.3	1136.4	1028.3	1039.5	969.5
75°	4043.3	1168.2	618.3	580.1	669.1	775.6	969.5	1041.0	940.9	869.3	843.9
77.5°	1260.5	713.6	524.5	467.3	524.5	626.2	810.6	912.4	837.6	727.8	718.4
80°	677.1	524.5	403.7	375.1	414.8	491.1	637.3	761.3	720.0	653.3	583.3
82.5°	446.7	340.2	298.9	290.8	316.3	375.1	473.6	631.0	631.0	559.4	406.9
85°	230.4	208.2	205.1	205.1	220.9	249.5	322.7	486.3	518.1	295.6	244.7
87.5°	114.4	119.2	111.2	116.1	124.0	122.4	154.2	244.7	292.5	179.6	149.3
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)