

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: P193224

Luminaire Tested: **GLEON-AF-06-LED-E1-T3R-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193224
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-06-LED-E1-T3R-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 28443.5 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 249
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



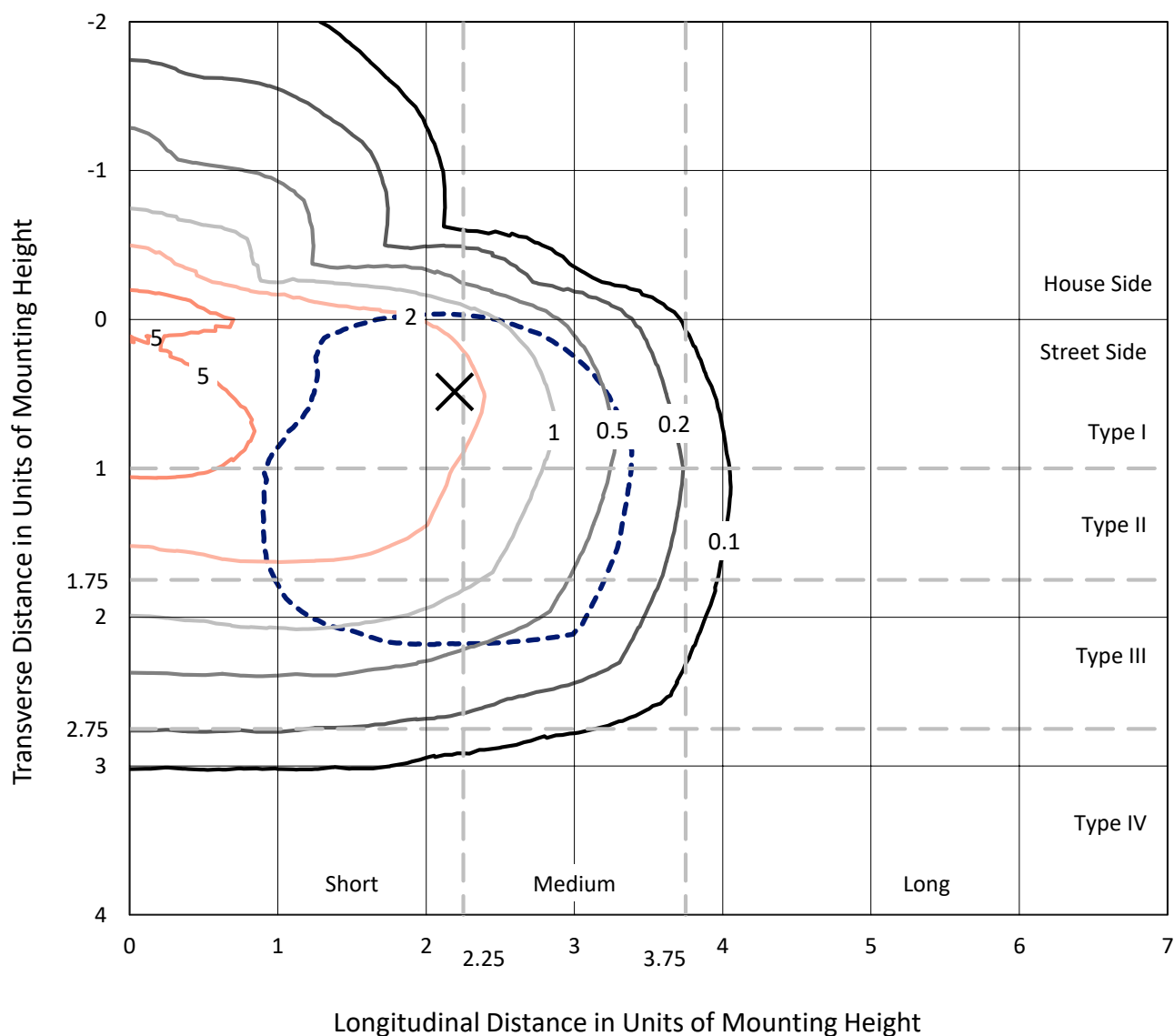
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

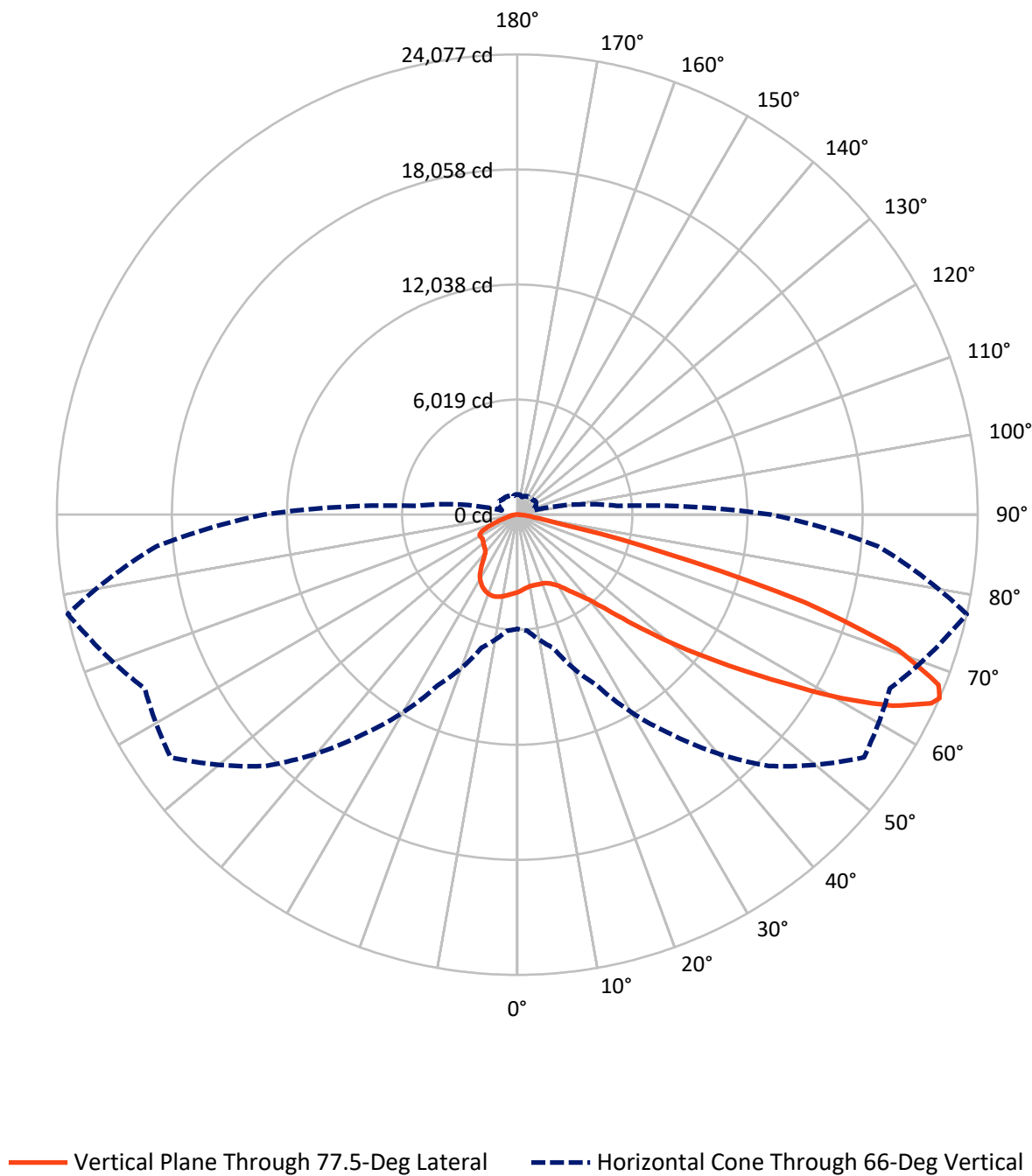


Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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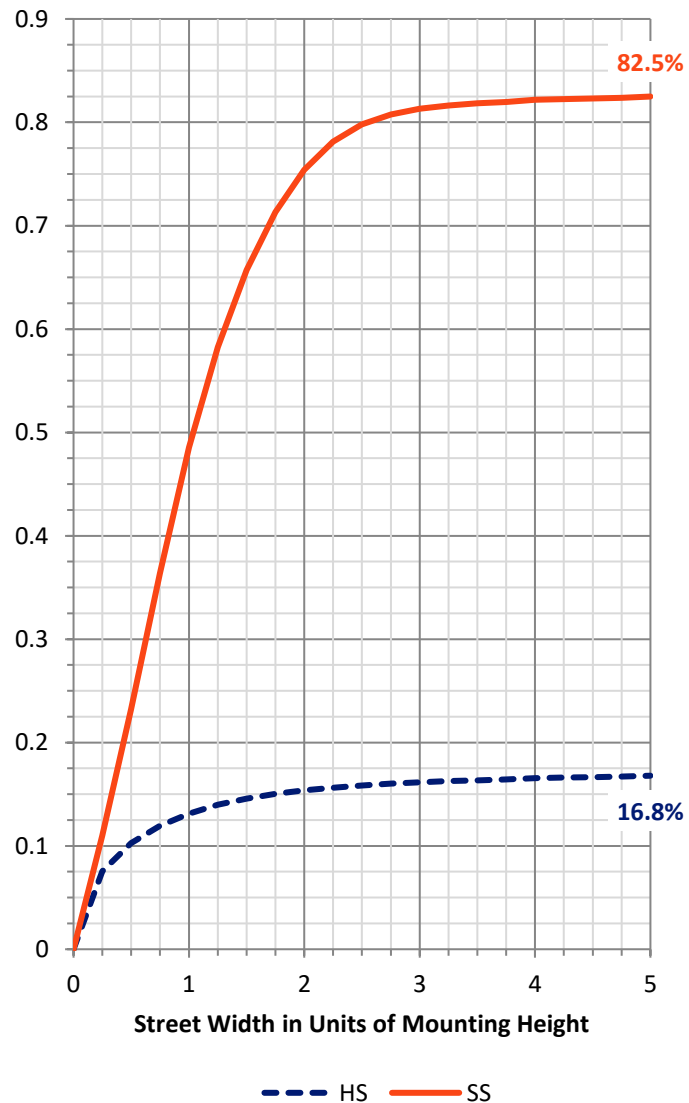
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4859.4	0.0	4859.4
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	23584.1	0.0	23584.1
	% Fixture	82.9	0.0	82.9
Total	Lumens	28443.5	0.0	28443.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	362.1	1.3
10°-20°	1021.6	3.6
20°-30°	1743.6	6.1
30°-40°	2791.1	9.8
40°-50°	4312.1	15.2
50°-60°	6116.0	21.5
60°-70°	8181.5	28.8
70°-80°	3553.1	12.5
80°-90°	362.3	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°	28443.5	100.0
0°-180°	28443.5	100.0

Coefficient of Utilization



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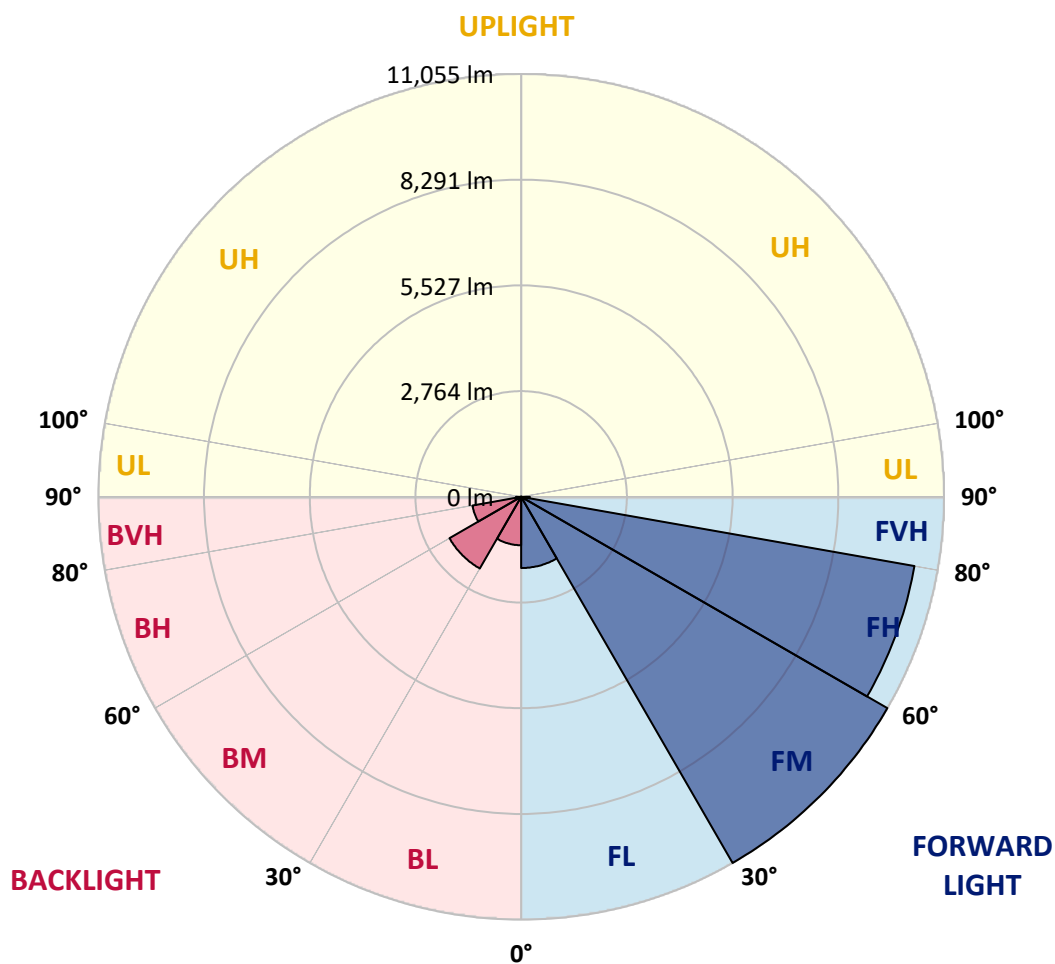
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1861.8	6.5			
FM	(30°-60°)	11054.6	38.9			
FH	(60°-80°)	10440.5	36.7			G4/12000
FVH	(80°-90°)	227.2	0.8			G3/500
BL	(0°-30°)	1265.6	4.4	B3/2500		
BM	(30°-60°)	2164.6	7.6	B2/2500		
BH	(60°-80°)	1294.1	4.5	B3/2500		G3/2500
BVH	(80°-90°)	135.1	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-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	4053.3	4053.3	4053.3	4053.3	4053.3	4053.3	4053.3	4053.3	4053.3	4053.3	4053.3
2.5°	3585.7	3609.8	3630.0	3648.8	3686.4	3748.2	3819.4	3877.3	3960.6	3976.7	4021.1
5°	3256.4	3256.4	3272.6	3300.7	3351.7	3444.5	3541.3	3670.3	3851.7	3894.8	4013.0
7.5°	3096.4	3097.8	3107.3	3131.4	3175.7	3260.4	3366.6	3518.4	3764.4	3835.6	4037.2
10°	3155.6	3142.2	3122.0	3109.8	3116.6	3166.4	3267.1	3436.4	3710.7	3802.0	4091.0
12.5°	3486.1	3460.7	3390.8	3298.0	3209.4	3173.0	3232.2	3397.5	3687.8	3793.9	4162.2
15°	4026.4	4015.8	3885.4	3693.2	3478.2	3298.0	3257.7	3382.6	3690.4	3803.4	4246.9
17.5°	4703.8	4689.0	4517.0	4237.4	3886.7	3535.9	3347.8	3394.8	3699.8	3819.4	4328.9
20°	5387.9	5342.1	5156.7	4823.4	4373.2	3859.8	3497.0	3425.8	3712.0	3836.9	4414.8
22.5°	5898.6	5860.8	5694.3	5370.4	4851.6	4234.8	3697.3	3479.5	3751.0	3888.0	4521.0
25°	6347.4	6350.1	6184.8	5871.7	5335.4	4632.6	3955.1	3623.2	3850.4	3992.9	4666.1
27.5°	6902.5	6870.2	6715.7	6405.3	5813.9	5034.4	4267.0	3820.8	3998.3	4142.0	4857.0
30°	7566.4	7543.6	7364.8	7012.7	6344.8	5465.8	4623.2	4050.7	4189.1	4338.2	5107.0
32.5°	8347.2	8336.5	8151.0	7698.1	6957.6	5973.9	5041.1	4354.4	4473.9	4628.6	5465.8
35°	9263.8	9265.1	9046.1	8501.8	7628.3	6565.2	5515.5	4745.4	4820.7	4982.0	5893.2
37.5°	9828.2	9896.8	9814.8	9259.7	8387.5	7226.4	6131.1	5264.2	5215.8	5378.5	6351.5
40°	9949.1	10032.5	10291.9	10009.7	9236.9	7954.8	6676.8	5762.8	5702.3	5901.2	6941.5
42.5°	9779.9	9895.4	10443.8	10642.7	10138.7	8852.5	7410.5	6503.3	6426.7	6694.2	7675.3
45°	9679.1	9765.0	10399.4	10972.0	10920.9	9867.2	8344.5	7433.4	7405.1	7755.9	8521.9
47.5°	9504.4	9582.2	10192.5	11048.6	11380.6	10797.2	9466.8	8570.3	8625.5	9085.0	9477.4
50°	9598.4	9630.6	9961.2	10853.7	11513.5	11478.6	10720.6	9887.4	10075.6	10649.4	10559.4
52.5°	9585.0	9668.4	9934.4	10533.8	11531.0	11899.2	11955.7	11356.3	11752.8	12411.3	11759.5
55°	7749.2	7902.4	9618.6	10453.2	11592.9	12311.9	13055.1	12904.5	13643.7	14411.1	13114.2
57.5°	7399.7	7496.5	8448.0	10622.5	11920.7	13099.4	14278.0	14608.6	15845.1	16736.2	14764.5
60°	7331.2	7450.8	8435.9	10829.4	12586.0	14382.9	16091.0	16671.7	18523.6	19499.3	16678.3
62.5°	7117.4	7246.5	8356.5	10802.6	13530.7	16158.3	18412.1	18864.9	21063.5	22012.5	18279.0
65°	6440.2	6561.1	7710.2	10368.4	14167.8	18053.1	21159.0	20875.4	23068.8	23782.4	19077.2
66°	5976.5	6094.8	7200.8	9857.8	14020.0	18590.8	22132.0	21497.8	23517.6	24076.7	18921.4
67.5°	5128.5	5221.2	6211.7	8714.1	13233.8	18741.2	22950.5	21965.4	23564.7	23762.2	18030.3
70°	3240.2	3267.1	4037.2	6015.5	10017.8	16253.6	21704.7	20804.3	21621.4	21086.5	15115.4
72.5°	1405.7	1396.4	1937.9	3060.2	5671.4	10906.0	17557.3	17166.2	16960.6	15740.2	10580.8
75°	782.2	792.9	1006.6	1420.6	2304.9	5357.0	11485.4	10990.7	9279.9	7918.4	4797.9
77.5°	627.5	642.5	834.6	1007.9	1034.8	1868.2	5374.5	4373.2	2632.8	2112.6	1333.2
80°	495.9	522.8	728.4	784.8	697.5	770.1	1736.3	1388.2	1041.6	955.6	690.7
82.5°	392.5	411.3	625.0	594.1	487.9	518.8	831.9	810.3	677.3	616.9	399.2
85°	282.2	317.2	513.4	447.5	319.9	349.4	552.3	529.5	388.4	317.2	176.0
87.5°	115.6	150.6	362.8	296.9	178.7	162.6	275.6	259.4	184.1	134.4	87.4
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°	4053.3	4053.3	4053.3	4053.3	4053.3	4053.3	4053.3	4053.3	4053.3	4053.3	4053.3
2.5°	4049.2	4081.6	4123.2	4148.8	4162.2	4171.6	4186.4	4185.0	4189.1	4190.4	4195.8
5°	4076.1	4129.9	4190.4	4206.6	4206.6	4191.7	4177.0	4152.7	4143.3	4140.7	4143.3
7.5°	4146.1	4205.2	4257.7	4238.8	4198.5	4139.3	4062.7	3995.5	3959.2	3947.2	3944.5
10°	4234.8	4306.0	4327.5	4256.3	4137.9	3995.5	3843.6	3733.5	3670.3	3652.9	3647.5
12.5°	4342.3	4409.4	4379.8	4229.4	4010.4	3780.5	3570.8	3394.8	3263.1	3221.4	3218.8
15°	4460.5	4513.0	4409.4	4146.1	3819.4	3480.8	3107.3	2803.5	2639.4	2587.0	2583.1
17.5°	4570.8	4597.6	4392.0	4001.0	3538.6	2990.3	2494.4	2260.5	2204.1	2217.5	2220.1
20°	4664.9	4664.9	4332.9	3792.6	3096.4	2343.8	2030.7	2026.6	2066.9	2107.3	2115.4
22.5°	4768.3	4706.5	4229.4	3498.3	2470.2	1917.8	1872.1	1909.8	1955.4	1999.8	2006.5
25°	4896.0	4740.1	4085.5	3052.0	1942.0	1741.7	1759.2	1790.1	1812.9	1841.2	1845.3
27.5°	5038.5	4783.1	3896.0	2437.9	1685.4	1631.6	1645.0	1655.8	1653.1	1663.8	1666.5
30°	5209.2	4832.9	3636.7	1905.7	1579.2	1537.5	1513.2	1503.9	1503.9	1521.3	1528.1
32.5°	5437.7	4906.8	3264.4	1632.9	1528.1	1470.3	1392.3	1357.3	1370.7	1429.9	1443.5
35°	5688.9	4986.0	2760.4	1540.1	1517.3	1439.4	1318.4	1253.9	1255.3	1310.3	1327.8
37.5°	5963.1	5086.8	2208.1	1522.6	1541.5	1440.7	1279.4	1190.7	1154.5	1154.5	1161.2
40°	6313.9	5190.3	1787.5	1534.8	1592.6	1456.9	1259.3	1141.0	1038.8	1041.6	1046.9
42.5°	6770.8	5279.0	1561.7	1560.3	1654.4	1478.4	1257.9	1075.1	986.5	1046.9	1102.0
45°	7278.8	5323.3	1462.2	1583.1	1704.1	1491.8	1236.4	1064.4	993.1	1173.2	1278.2
47.5°	7863.4	5297.9	1407.1	1591.3	1716.3	1491.8	1212.2	1090.0	1040.2	1358.7	1481.0
50°	8504.4	5223.9	1353.4	1575.1	1712.2	1489.1	1235.0	1115.4	1057.6	1391.0	1475.6
52.5°	9258.4	5162.1	1296.9	1540.1	1684.0	1474.4	1262.0	1104.7	1002.6	1264.6	1323.7
55°	10118.5	5179.6	1233.7	1490.4	1639.7	1446.0	1252.5	1061.7	944.8	1114.1	1150.4
57.5°	11217.8	5387.9	1158.4	1427.3	1579.2	1399.1	1219.0	1041.6	927.3	1010.6	1032.2
60°	12444.8	5750.8	1064.4	1364.1	1503.9	1323.7	1193.4	1051.0	935.4	1002.6	1013.4
62.5°	13345.4	5961.7	983.8	1271.3	1401.7	1240.4	1161.2	1063.1	956.9	1030.8	1028.1
65°	13590.0	5615.0	883.0	1135.6	1263.2	1153.1	1120.9	1076.5	966.3	1053.7	1041.6
66°	13247.2	5241.3	838.7	1072.5	1193.4	1110.1	1100.7	1075.1	962.2	1056.3	1036.3
67.5°	12415.3	4475.4	762.0	979.7	1081.8	1045.6	1068.4	1063.1	951.5	1053.7	1025.4
70°	10125.3	3053.5	651.8	815.7	900.4	920.6	1006.6	1020.1	916.5	1006.6	944.8
72.5°	7074.5	1860.0	576.6	633.0	728.4	784.8	921.9	960.9	869.4	879.0	819.8
75°	3418.9	987.8	522.8	490.6	565.9	655.9	819.8	880.3	795.6	735.1	713.7
77.5°	1065.8	603.4	443.5	395.1	443.5	529.5	685.4	771.4	708.2	615.5	607.5
80°	572.5	443.5	341.3	317.2	350.7	415.3	538.8	643.7	608.8	552.3	493.2
82.5°	377.6	287.6	252.6	246.0	267.4	317.2	400.6	533.5	533.5	473.1	344.0
85°	194.9	176.0	173.4	173.4	186.9	211.0	272.8	411.3	438.1	249.9	206.9
87.5°	96.8	100.8	94.1	98.2	104.8	103.5	130.3	206.9	247.3	151.9	126.3
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)