

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: P194776

Luminaire Tested: **GLEON-AF-08-LED-E1-T3-7060-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194776
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-AF-08-LED-E1-T3-7060-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31438 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 257
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

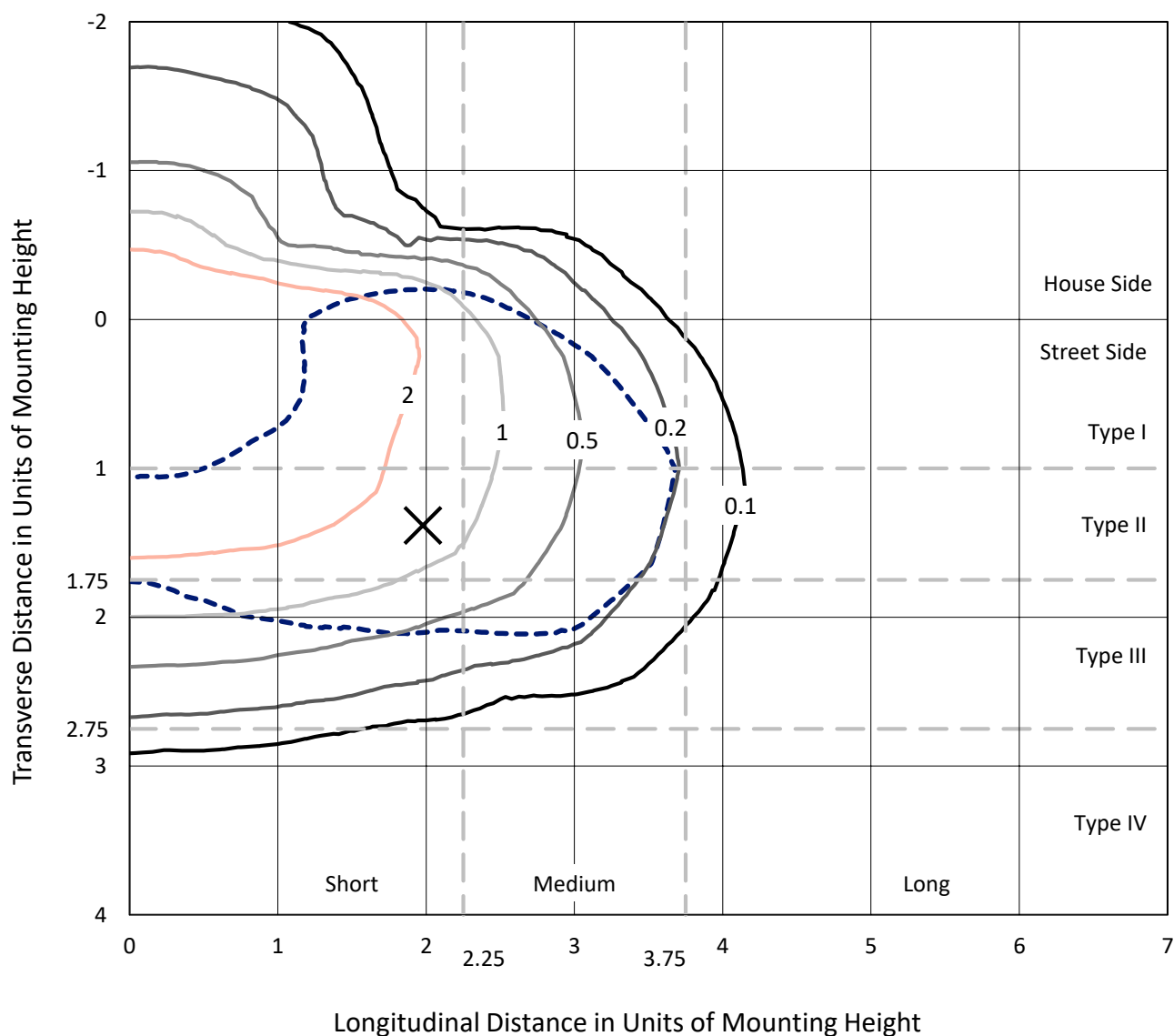


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

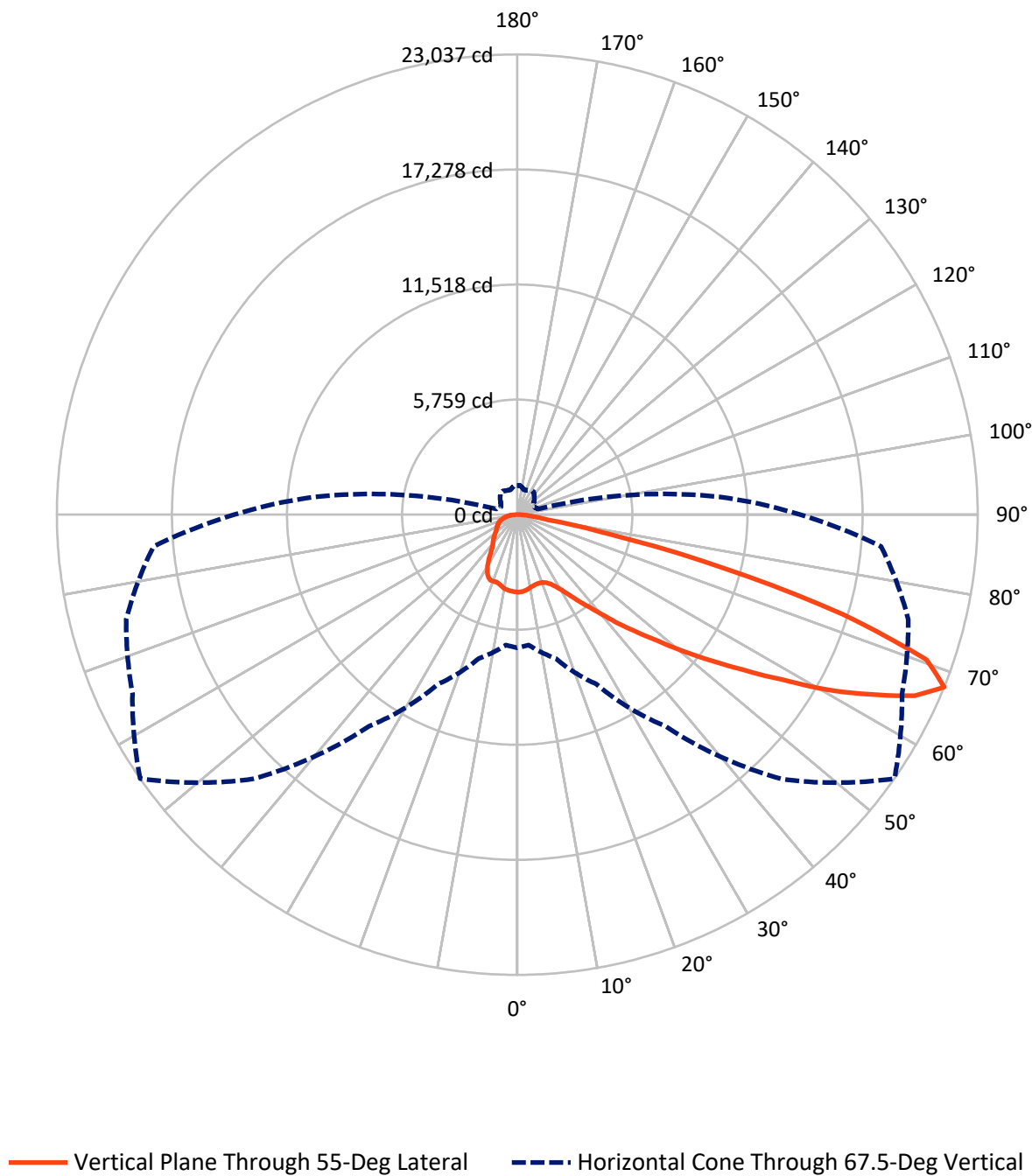


Based on 30 foot mounting height. Maximum calculated value = 4.4 fc
Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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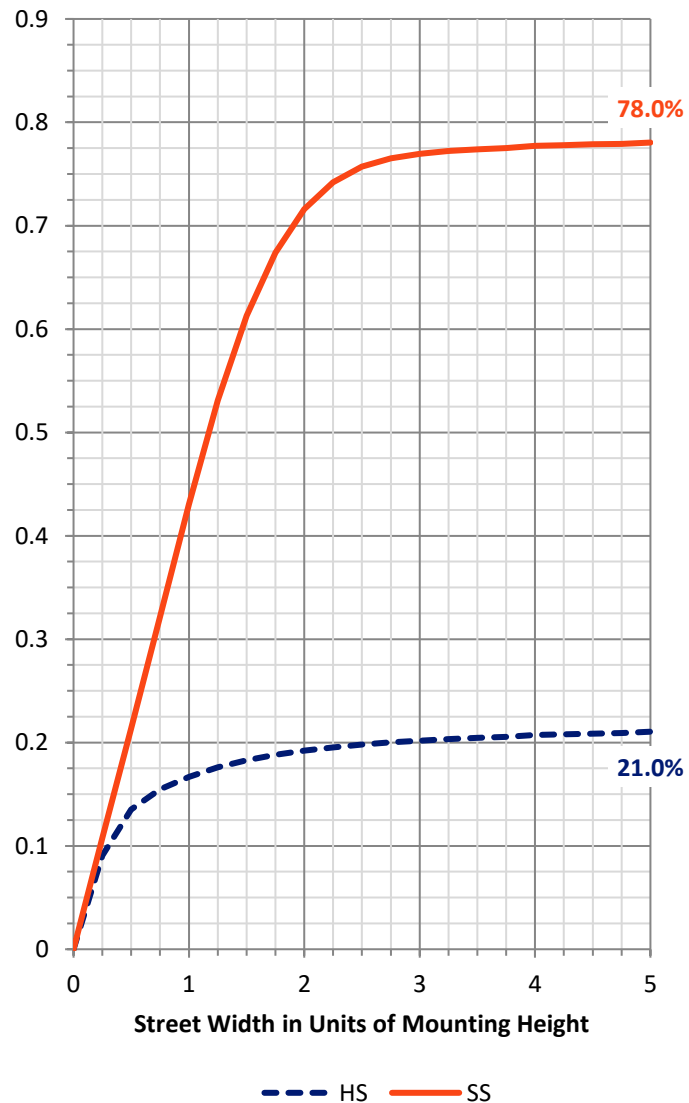
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6791.3	0.0	6791.3
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	24646.7	0.0	24646.7
	% Fixture	78.4	0.0	78.4
Total	Lumens	31438.0	0.0	31438.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.8	1.2
10°-20°	1024.8	3.3
20°-30°	1716.7	5.5
30°-40°	2822.9	9.0
40°-50°	4751.9	15.1
50°-60°	7479.1	23.8
60°-70°	8925.5	28.4
70°-80°	3832.8	12.2
80°-90°	522.6	1.7
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°	31438.0	100.0
0°-180°	31438.0	100.0

Coefficient of Utilization



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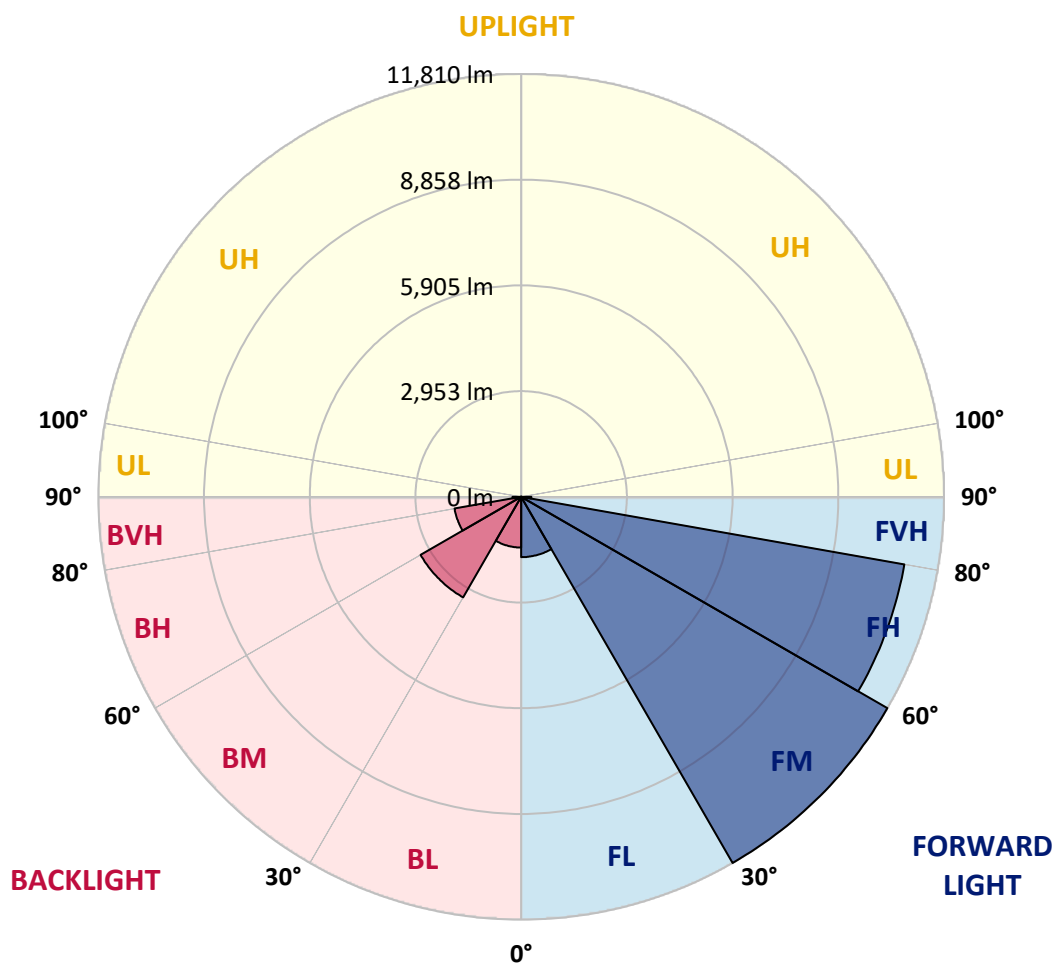
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1685.2	5.4			
FM	(30°-60°)	11810.4	37.6			
FH	(60°-80°)	10868.3	34.6			G4/12000
FVH	(80°-90°)	282.9	0.9			G3/500
BL	(0°-30°)	1418.1	4.5	B3/2500		
BM	(30°-60°)	3243.4	10.3	B3/5000		
BH	(60°-80°)	1890.0	6.0	B3/2500		G3/2500
BVH	(80°-90°)	239.7	0.8			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3876.6	3876.6	3876.6	3876.6	3876.6	3876.6	3876.6	3876.6	3876.6	3876.6	3876.6
2.5°	3843.2	3844.8	3847.8	3859.9	3870.6	3867.5	3869.1	3863.0	3861.5	3852.4	3861.5
5°	3794.7	3799.2	3800.7	3820.5	3832.6	3835.7	3831.1	3823.5	3814.4	3805.3	3809.8
7.5°	3683.8	3696.0	3697.5	3724.8	3744.5	3770.4	3771.9	3773.4	3768.8	3762.8	3771.9
10°	3614.0	3617.0	3615.5	3635.2	3650.4	3679.2	3696.0	3724.8	3736.9	3740.0	3746.1
12.5°	3609.4	3606.4	3601.8	3601.8	3597.3	3609.4	3639.8	3680.8	3709.6	3718.7	3726.3
15°	3658.0	3656.5	3641.3	3618.5	3589.7	3580.5	3606.4	3651.9	3689.9	3709.6	3717.2
17.5°	3767.3	3758.2	3733.9	3682.3	3620.0	3595.7	3598.8	3636.7	3680.8	3706.6	3714.2
20°	3967.8	3967.8	3916.1	3818.9	3708.1	3650.4	3623.1	3645.8	3688.4	3723.3	3733.9
22.5°	4314.0	4317.0	4230.5	4071.0	3884.2	3761.2	3692.9	3688.4	3738.5	3777.9	3790.1
25°	4804.4	4792.3	4670.8	4443.0	4159.1	3955.6	3837.2	3809.8	3852.4	3896.4	3911.6
27.5°	5375.4	5331.3	5187.1	4912.2	4544.8	4247.2	4064.9	4020.9	4061.9	4112.0	4127.2
30°	5940.2	5894.7	5723.1	5422.4	5014.0	4637.4	4376.2	4304.9	4362.6	4433.9	4443.0
32.5°	6505.1	6505.1	6313.8	5963.0	5518.1	5103.6	4790.8	4705.7	4801.4	4887.9	4907.7
35°	7180.8	7183.9	6998.6	6576.5	6098.2	5659.3	5314.6	5252.4	5396.6	5457.4	5504.4
37.5°	8011.4	8028.1	7789.7	7279.5	6755.7	6294.0	5884.1	5799.0	5943.3	6108.8	6260.6
40°	8908.9	8930.1	8667.4	8038.8	7514.9	7032.0	6588.6	6435.3	6675.2	6991.0	7186.9
42.5°	9765.3	9874.6	9621.0	8974.1	8410.8	7911.2	7461.8	7238.5	7539.2	8016.0	8186.1
45°	11002.8	11081.8	10639.9	10053.8	9523.8	8965.0	8369.8	8134.4	8555.0	9156.4	9191.3
47.5°	11827.3	11768.1	11543.4	11179.0	10843.4	10321.0	9425.1	9167.0	9725.8	10433.4	10237.5
50°	12266.2	12284.4	12254.0	12275.3	12287.4	11959.5	10718.9	10365.1	11031.7	11886.6	11435.6
52.5°	12676.2	12554.7	12654.9	13153.0	13754.3	13632.8	12126.5	11757.5	12431.7	13499.2	12702.0
55°	12667.1	12481.8	12808.3	13687.5	14991.8	15131.5	13707.2	13282.0	13912.2	15228.7	14044.3
57.5°	12219.1	12228.2	12730.8	13881.8	15854.3	16540.7	15541.5	14903.8	15482.3	16981.0	15269.7
60°	11602.6	11686.1	12410.4	13849.9	16545.2	17696.2	17791.9	16651.5	17020.5	18573.9	16284.1
62.5°	10608.0	10696.1	11695.2	13518.9	16440.5	18809.3	19826.6	18634.6	18628.6	19539.6	16581.7
65°	9039.4	9013.6	10062.9	12281.4	15561.3	19632.3	21847.7	20349.0	19840.3	19554.8	15983.4
67.5°	6666.1	6550.7	7451.1	9353.8	12934.3	18710.6	23036.7	21241.8	20253.3	18268.7	14155.2
70°	3459.1	3343.7	4072.5	5461.9	8506.5	14603.1	21720.2	20780.2	19340.7	15313.7	11089.4
72.5°	1479.0	1459.2	1755.3	2396.1	4115.0	8422.9	17031.1	17986.3	16595.3	11409.8	7624.2
75°	994.6	988.5	1099.4	1305.9	1851.0	3418.1	10658.1	12767.3	12141.7	7074.5	4288.2
77.5°	780.5	772.9	838.2	938.4	1199.6	1348.4	4730.0	6854.4	6344.2	3079.5	1876.8
80°	610.4	604.4	645.3	700.0	862.5	850.3	1556.4	2727.2	2110.7	1179.8	912.6
82.5°	481.4	481.4	514.8	516.3	611.9	580.1	812.4	1201.1	1053.8	687.9	558.8
85°	440.4	440.4	475.3	385.7	399.4	366.0	504.1	712.2	668.1	282.4	243.0
87.5°	221.7	215.6	399.4	341.7	217.1	194.4	246.0	344.7	370.5	156.4	121.5
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3876.6	3876.6	3876.6	3876.6	3876.6	3876.6	3876.6	3876.6	3876.6	3876.6
2.5°	3858.4	3856.9	3859.9	3861.5	3873.6	3890.3	3897.9	3908.5	3914.6	3911.6
5°	3812.9	3815.9	3828.1	3837.2	3858.4	3885.8	3900.9	3913.1	3923.7	3919.2
7.5°	3774.9	3782.5	3800.7	3808.3	3820.5	3828.1	3826.5	3831.1	3840.2	3829.6
10°	3753.7	3762.8	3776.4	3765.8	3736.9	3696.0	3658.0	3638.2	3644.3	3636.7
12.5°	3732.4	3744.5	3733.9	3683.8	3603.3	3550.2	3521.3	3524.4	3538.0	3541.1
15°	3720.2	3724.8	3679.2	3585.1	3503.1	3495.5	3510.7	3507.7	3509.2	3509.2
17.5°	3720.2	3708.1	3623.1	3528.9	3494.0	3480.3	3433.3	3374.0	3348.2	3339.1
20°	3740.0	3708.1	3604.8	3542.6	3466.7	3349.7	3225.2	3115.9	3067.3	3053.6
22.5°	3799.2	3744.5	3656.5	3548.7	3333.0	3137.2	2939.8	2809.2	2721.1	2705.9
25°	3919.2	3858.4	3758.2	3468.2	3120.5	2841.1	2616.3	2470.5	2382.5	2370.3
27.5°	4128.7	4089.2	3812.9	3290.5	2838.0	2538.9	2330.8	2218.5	2153.2	2148.6
30°	4444.6	4424.8	3785.5	3027.8	2490.3	2245.8	2145.6	2080.3	2031.7	2030.2
32.5°	4948.7	4789.2	3696.0	2707.4	2172.9	2037.8	1996.8	1957.3	1919.3	1919.3
35°	5597.1	5083.8	3525.9	2364.3	1980.1	1922.4	1870.8	1808.5	1758.4	1755.3
37.5°	6359.3	5266.0	3220.7	2087.9	1889.0	1844.9	1769.0	1676.4	1588.3	1573.1
40°	7129.2	5320.7	2790.9	1917.8	1831.3	1767.5	1674.9	1565.5	1480.5	1476.0
42.5°	7835.3	5215.9	2335.4	1800.9	1773.6	1688.5	1591.4	1494.2	1427.4	1425.8
45°	8427.5	4944.1	1952.7	1690.1	1712.8	1617.2	1530.6	1451.7	1400.0	1389.4
47.5°	8984.8	4560.0	1684.0	1573.1	1652.1	1577.7	1504.8	1430.4	1380.3	1372.7
50°	9631.6	4145.4	1495.7	1459.2	1598.9	1564.0	1526.1	1448.6	1365.1	1356.0
52.5°	10415.2	3787.1	1348.4	1359.0	1557.9	1582.2	1580.7	1500.2	1354.5	1342.3
55°	11289.8	3389.2	1237.6	1277.0	1541.2	1615.6	1594.4	1548.8	1363.6	1345.4
57.5°	12150.8	2924.6	1160.1	1214.8	1516.9	1612.6	1529.1	1463.8	1384.8	1359.0
60°	12796.1	2300.5	1100.9	1160.1	1463.8	1562.5	1457.7	1371.2	1380.3	1360.5
62.5°	12838.6	1778.1	1029.5	1113.0	1383.3	1512.4	1410.7	1330.2	1400.0	1381.8
65°	12084.0	1343.8	961.2	1056.9	1296.8	1480.5	1365.1	1307.4	1441.0	1421.3
67.5°	10173.7	1081.1	903.5	999.2	1210.2	1413.7	1324.1	1286.1	1477.5	1442.5
70°	7344.8	921.7	847.3	929.3	1132.8	1337.8	1287.7	1248.2	1378.8	1324.1
72.5°	4522.0	798.7	783.5	836.7	1073.6	1258.8	1233.0	1176.8	1242.1	1198.1
75°	2258.0	692.4	712.2	745.6	990.0	1169.2	1141.9	1085.7	1094.8	1085.7
77.5°	1081.1	592.2	628.6	654.5	882.2	1067.5	1038.6	980.9	970.3	971.8
80°	684.8	495.0	529.9	548.2	788.1	949.0	920.2	862.5	984.0	912.6
82.5°	428.2	402.4	411.5	444.9	686.3	826.0	788.1	736.5	886.8	701.5
85°	236.9	280.9	293.1	321.9	528.4	690.9	652.9	587.6	526.9	517.8
87.5°	141.2	167.0	171.6	192.8	355.3	499.6	441.9	419.1	347.7	346.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)