

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: P300472

Luminaire Tested: **GLNA-AF-10-LED-E1-T4FT-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300472
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-10-LED-E1-T4FT-8030-600
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV Forward Throw OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31756.1 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 323
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



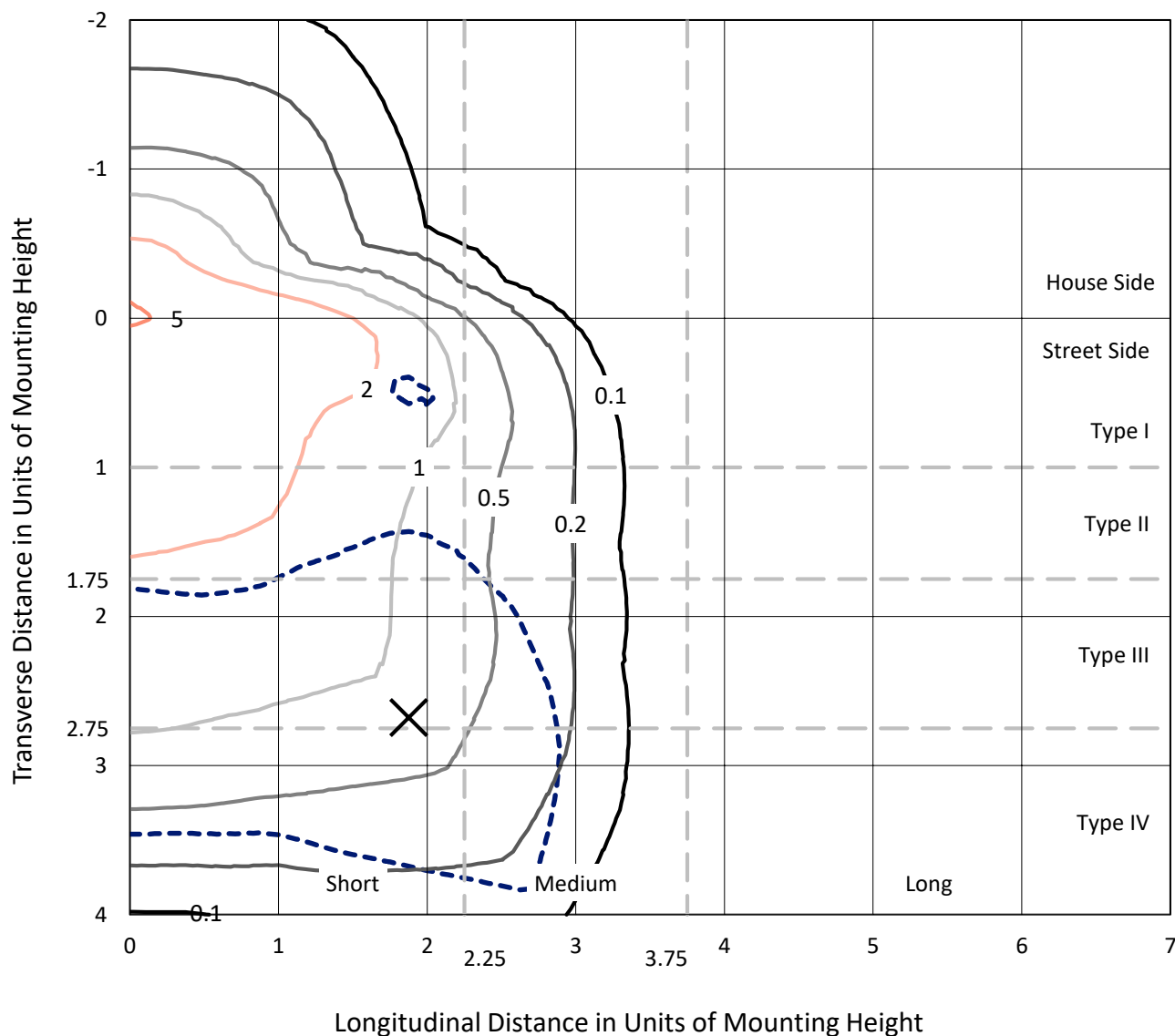
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

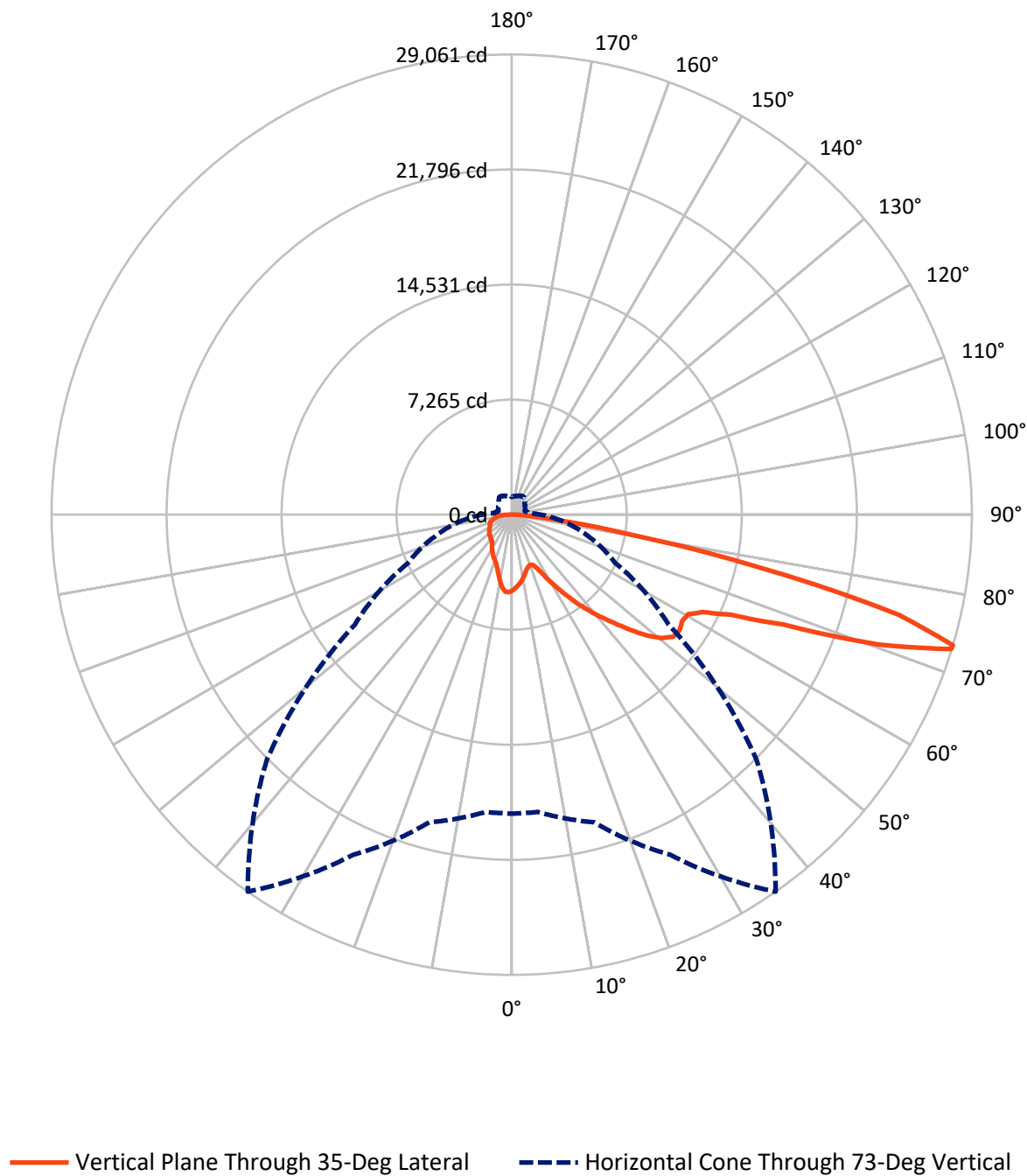


Based on 30 foot mounting height. Maximum calculated value = 5.3 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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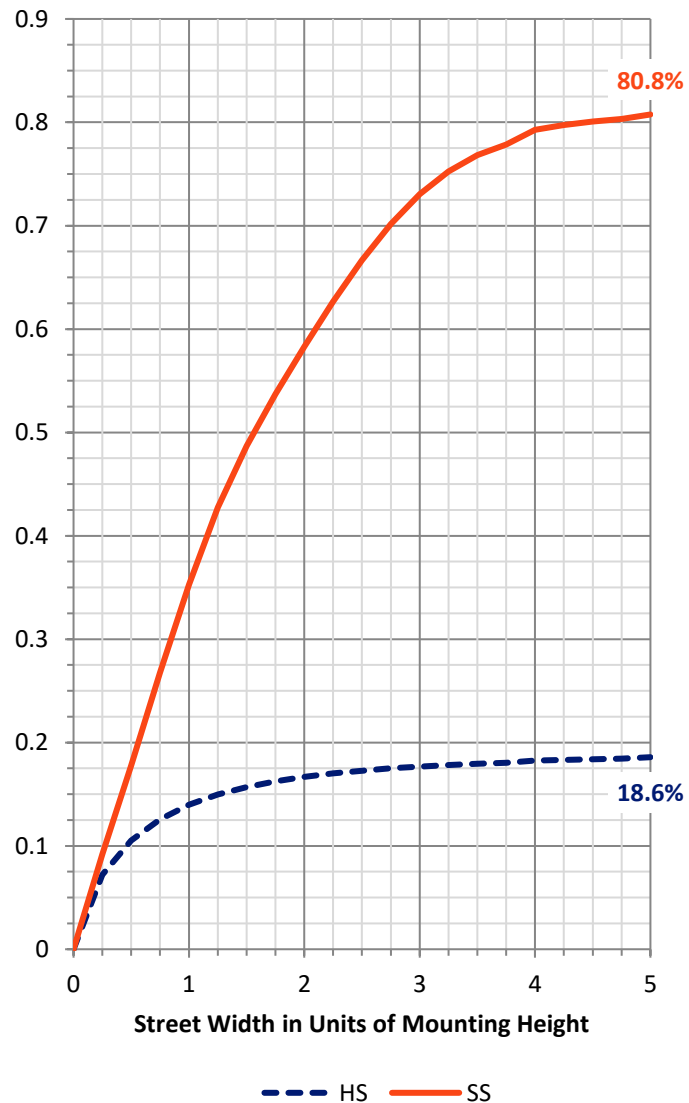
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6056.8	0.0	6056.8
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	25699.4	0.0	25699.4
	% Fixture	80.9	0.0	80.9
Total	Lumens	31756.1	0.0	31756.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	433.9	1.4
10°-20°	1083.0	3.4
20°-30°	1750.8	5.5
30°-40°	2935.8	9.2
40°-50°	4525.4	14.3
50°-60°	6071.3	19.1
60°-70°	8088.1	25.5
70°-80°	6168.8	19.4
80°-90°	699.2	2.2
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°	31756.1	100.0
0°-180°	31756.1	100.0

Coefficient of Utilization



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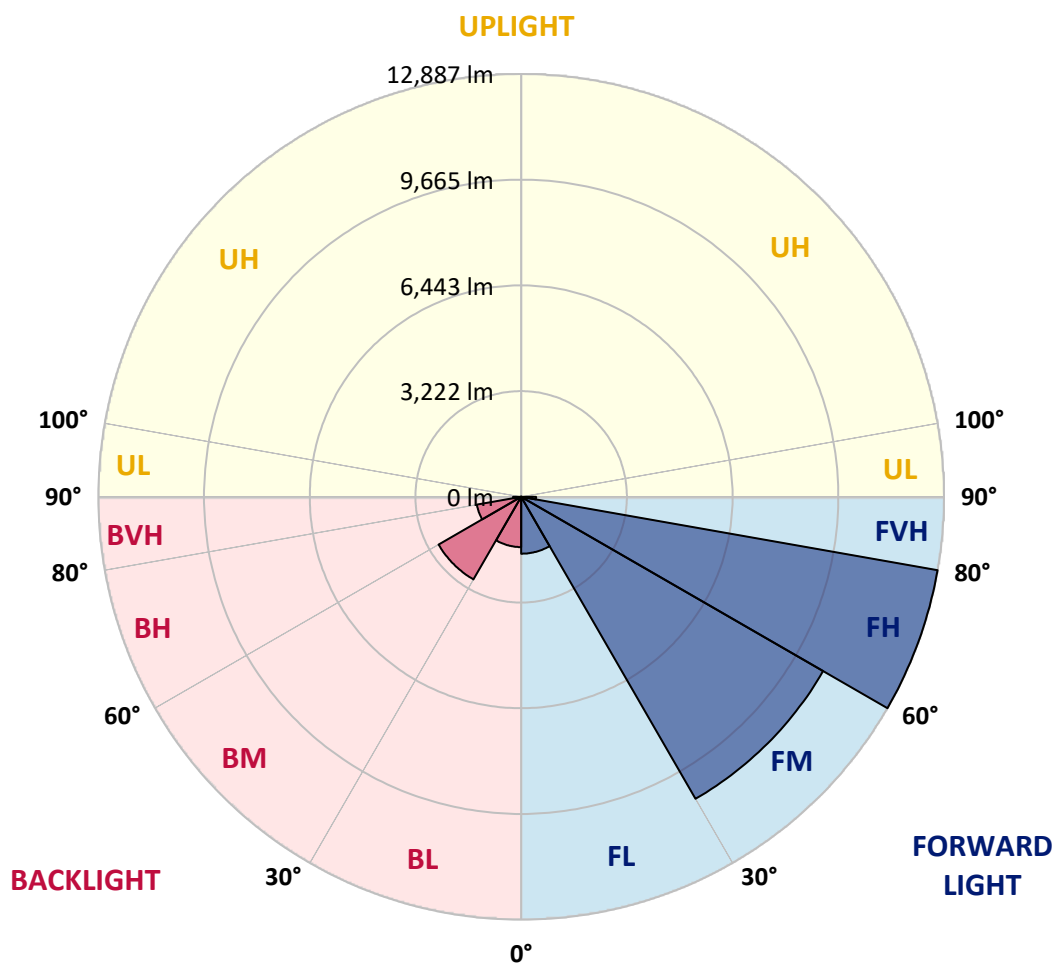
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1735.0	5.5			
FM	(30°-60°)	10625.8	33.5			
FH	(60°-80°)	12886.6	40.6			G5
FVH	(80°-90°)	452.0	1.4			G3/500
BL	(0°-30°)	1532.6	4.8	B3/2500		
BM	(30°-60°)	2906.6	9.2	B3/5000		
BH	(60°-80°)	1370.3	4.3	B3/2500		G3/2500
BVH	(80°-90°)	247.2	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-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4793.0	4793.0	4793.0	4793.0	4793.0	4793.0	4793.0	4793.0	4793.0	4793.0	4793.0
2.5°	4603.9	4613.0	4602.4	4616.1	4639.0	4663.4	4680.1	4704.5	4732.0	4770.1	4779.3
5°	4387.3	4401.1	4401.1	4425.5	4469.7	4509.3	4545.9	4585.6	4643.5	4709.1	4735.0
7.5°	4149.5	4157.1	4170.8	4207.4	4271.4	4327.9	4379.7	4443.8	4523.1	4610.0	4655.7
10°	3862.8	3873.4	3894.8	3946.6	4033.6	4111.3	4186.1	4274.5	4375.1	4483.4	4541.4
12.5°	3659.9	3656.9	3666.0	3704.2	3780.4	3875.0	3983.2	4096.1	4219.6	4346.2	4416.3
15°	3591.3	3574.5	3539.5	3530.3	3571.5	3666.0	3791.1	3929.9	4077.8	4230.3	4317.2
17.5°	3634.0	3605.0	3509.0	3438.8	3432.7	3504.4	3637.1	3792.6	3963.4	4149.5	4257.7
20°	3902.4	3833.8	3597.4	3434.2	3377.8	3412.9	3528.8	3693.5	3894.8	4141.8	4280.6
22.5°	4544.4	4443.8	3942.1	3638.6	3448.0	3405.3	3492.2	3667.6	3902.4	4236.4	4413.3
25°	5479.2	5335.9	4533.7	4147.9	3754.5	3527.3	3547.1	3727.0	4010.7	4456.0	4669.5
27.5°	6217.3	6124.3	5306.9	4866.2	4312.6	3856.7	3725.5	3876.5	4231.8	4815.9	5033.9
30°	6656.5	6600.1	6133.4	5680.5	5024.8	4381.2	4067.1	4157.1	4578.0	5314.5	5494.5
32.5°	7165.8	7132.3	6903.6	6487.2	5793.4	5070.5	4608.5	4576.4	5041.6	5913.8	5996.2
35°	7693.5	7682.8	7548.6	7249.7	6618.4	5979.4	5326.7	5110.2	5546.3	6536.0	6484.2
37.5°	8184.5	8166.2	8088.5	7914.6	7481.5	6955.4	6058.7	5657.6	6090.7	7130.8	6900.5
40°	9088.8	8945.5	8678.6	8547.5	8353.8	7777.4	6639.7	6168.5	6655.0	7698.1	7260.4
42.5°	10191.4	9958.1	9460.9	9281.0	9253.5	8425.5	7036.2	6664.1	7223.8	8260.8	7614.2
45°	11059.1	10839.5	10411.0	10183.8	10284.4	9012.6	7434.2	7193.3	7809.4	8850.9	7978.7
47.5°	11984.8	11640.1	11072.8	11141.5	11361.0	9567.7	7839.9	7762.1	8451.4	9511.3	8431.6
50°	12018.3	11754.5	11505.9	11916.1	12257.7	10078.5	8347.7	8358.4	9236.8	10342.4	9033.9
52.5°	11321.4	11265.0	11659.9	12305.0	12797.6	10482.7	8925.7	8974.5	10241.7	11297.0	9695.8
55°	11077.4	11013.4	11469.3	12169.3	12870.8	10816.6	9552.4	9640.9	11457.1	12303.5	10340.8
57.5°	11672.1	11530.3	11560.8	12105.2	12692.3	11182.6	10235.6	10414.0	12777.7	13183.4	10755.6
60°	13334.4	13030.9	12454.5	12440.7	12788.4	11731.6	11025.6	11243.6	14150.2	13604.3	10594.0
62.5°	15666.0	15362.6	14282.9	13579.9	13528.0	12637.4	11995.4	12053.4	14943.2	13033.9	9607.3
65°	18189.9	17918.4	16712.2	15719.4	15240.6	14138.0	13122.4	12414.8	14684.0	11464.7	7881.1
67.5°	21253.5	20962.3	19925.3	19008.8	18548.2	16559.7	13913.9	12068.6	13038.5	8881.4	5665.3
70°	23396.1	23098.8	22690.1	23432.7	24559.7	20053.4	14016.0	10661.1	9738.5	5903.2	3409.8
72.5°	20600.9	20462.1	21207.8	24335.5	29029.4	22173.1	12669.5	7762.1	5656.1	3133.8	1973.3
73°	18874.6	18844.1	20115.9	23702.7	29061.4	21846.8	12079.3	7214.6	4850.9	2772.4	1804.0
75°	8523.1	8768.6	11556.2	18104.5	25249.0	18002.3	8501.7	4138.8	2740.4	1915.4	1361.8
77.5°	2048.0	2133.4	3615.7	8597.8	15945.1	10728.2	3852.1	2046.5	1752.2	1352.7	994.3
80°	872.3	901.3	1392.3	3176.5	7507.4	4320.2	1775.1	1371.0	1212.4	944.0	696.9
82.5°	484.9	515.4	789.9	1441.1	3030.1	1473.1	1082.7	954.6	797.6	568.8	452.9
85°	274.5	291.3	462.1	805.2	1284.0	591.7	648.1	634.4	449.9	292.8	222.6
87.5°	129.6	140.3	222.6	373.6	503.2	231.8	329.4	362.9	282.1	178.4	115.9
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°	4793.0	4793.0	4793.0	4793.0	4793.0	4793.0	4793.0	4793.0	4793.0	4793.0
2.5°	4789.9	4817.4	4849.4	4866.2	4881.4	4899.7	4918.0	4918.0	4921.1	4922.6
5°	4756.4	4812.8	4863.1	4884.5	4889.1	4889.1	4884.5	4860.1	4838.7	4847.9
7.5°	4686.2	4768.6	4811.3	4803.7	4745.7	4678.6	4622.2	4553.6	4518.5	4512.4
10°	4585.6	4680.1	4687.8	4611.5	4468.2	4324.8	4205.9	4090.0	4035.1	4021.4
12.5°	4474.3	4561.2	4512.4	4355.3	4125.1	3916.1	3765.2	3647.7	3595.9	3582.2
15°	4384.3	4443.8	4320.2	4073.2	3783.5	3562.3	3437.3	3350.4	3313.8	3303.1
17.5°	4337.0	4349.2	4123.5	3789.6	3481.5	3297.0	3219.2	3178.0	3164.3	3156.7
20°	4359.9	4274.5	3936.0	3525.7	3234.5	3104.8	3086.5	3075.9	3072.8	3068.2
22.5°	4474.3	4251.6	3763.6	3275.6	3017.9	2961.5	2976.7	2975.2	2972.2	2969.1
25°	4678.6	4271.4	3595.9	3037.7	2836.4	2824.2	2851.7	2851.7	2839.5	2839.5
27.5°	4948.5	4312.6	3408.3	2812.0	2671.8	2673.3	2694.6	2688.5	2674.8	2665.7
30°	5277.9	4338.5	3188.7	2609.2	2517.7	2511.6	2517.7	2491.8	2450.6	2447.6
32.5°	5614.9	4306.5	2934.0	2429.3	2354.6	2340.8	2336.3	2299.7	2252.4	2238.7
35°	5919.9	4189.1	2674.8	2285.9	2199.0	2168.5	2189.9	2177.7	2135.0	2124.3
37.5°	6142.6	3971.0	2441.5	2159.4	2087.7	2080.1	2093.8	2098.4	2048.0	2037.4
40°	6292.0	3675.2	2241.7	2052.6	2066.3	2037.4	1991.6	1959.6	1944.3	1939.8
42.5°	6412.5	3367.1	2074.0	2002.3	2070.9	1987.0	1887.9	1836.1	1863.5	1875.7
45°	6551.3	3066.7	1933.7	1939.8	2048.0	1929.1	1816.2	1765.9	1776.6	1779.6
47.5°	6741.9	2700.7	1782.7	1839.1	1971.8	1889.4	1772.0	1700.3	1650.0	1627.1
50°	7005.7	2267.6	1625.6	1726.3	1897.1	1860.5	1703.4	1627.1	1534.1	1512.8
52.5°	7188.7	1863.5	1496.0	1631.7	1830.0	1802.5	1648.5	1549.4	1451.8	1433.5
55°	7089.6	1547.8	1383.2	1526.5	1741.5	1730.8	1602.7	1470.1	1393.8	1378.6
57.5°	6594.0	1348.1	1296.2	1427.4	1633.2	1669.8	1541.7	1403.0	1348.1	1337.4
60°	5648.5	1223.0	1241.3	1360.3	1544.8	1608.8	1480.7	1366.4	1329.8	1322.2
62.5°	4382.8	1139.2	1200.2	1311.5	1476.2	1566.1	1447.2	1361.8	1348.1	1338.9
65°	3139.9	1072.1	1155.9	1262.7	1413.6	1526.5	1435.0	1355.7	1358.8	1351.1
67.5°	2133.4	1012.6	1102.6	1207.8	1352.7	1491.4	1418.2	1334.4	1372.5	1363.3
70°	1492.9	954.6	1040.0	1137.6	1276.4	1442.6	1387.7	1302.3	1299.3	1262.7
72.5°	1165.1	878.4	954.6	1040.0	1178.8	1374.0	1326.7	1230.7	1180.3	1142.2
73°	1111.7	860.1	933.3	1018.7	1157.5	1357.2	1310.0	1210.8	1154.4	1119.3
75°	919.6	780.8	847.9	924.1	1066.0	1277.9	1227.6	1120.9	1049.2	1027.8
77.5°	722.8	667.9	732.0	800.6	939.4	1162.0	1105.6	1003.4	963.8	945.5
80°	535.3	553.6	610.0	671.0	814.3	1038.5	988.2	886.0	1062.9	1018.7
82.5°	376.7	419.4	471.2	526.1	683.2	918.0	857.0	751.8	777.7	646.6
85°	222.6	274.5	323.3	370.6	492.6	761.0	707.6	599.3	491.0	468.2
87.5°	129.6	152.5	166.2	215.0	338.5	573.4	498.7	443.8	254.7	172.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)