

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: P300406

Luminaire Tested: **GLNA-AF-09-LED-E1-T4FT-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300406
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-09-LED-E1-T4FT-8030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV
Forward Throw OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35175.1 lumens
Efficiency: N/A
Efficacy: 94.1 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): 374
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

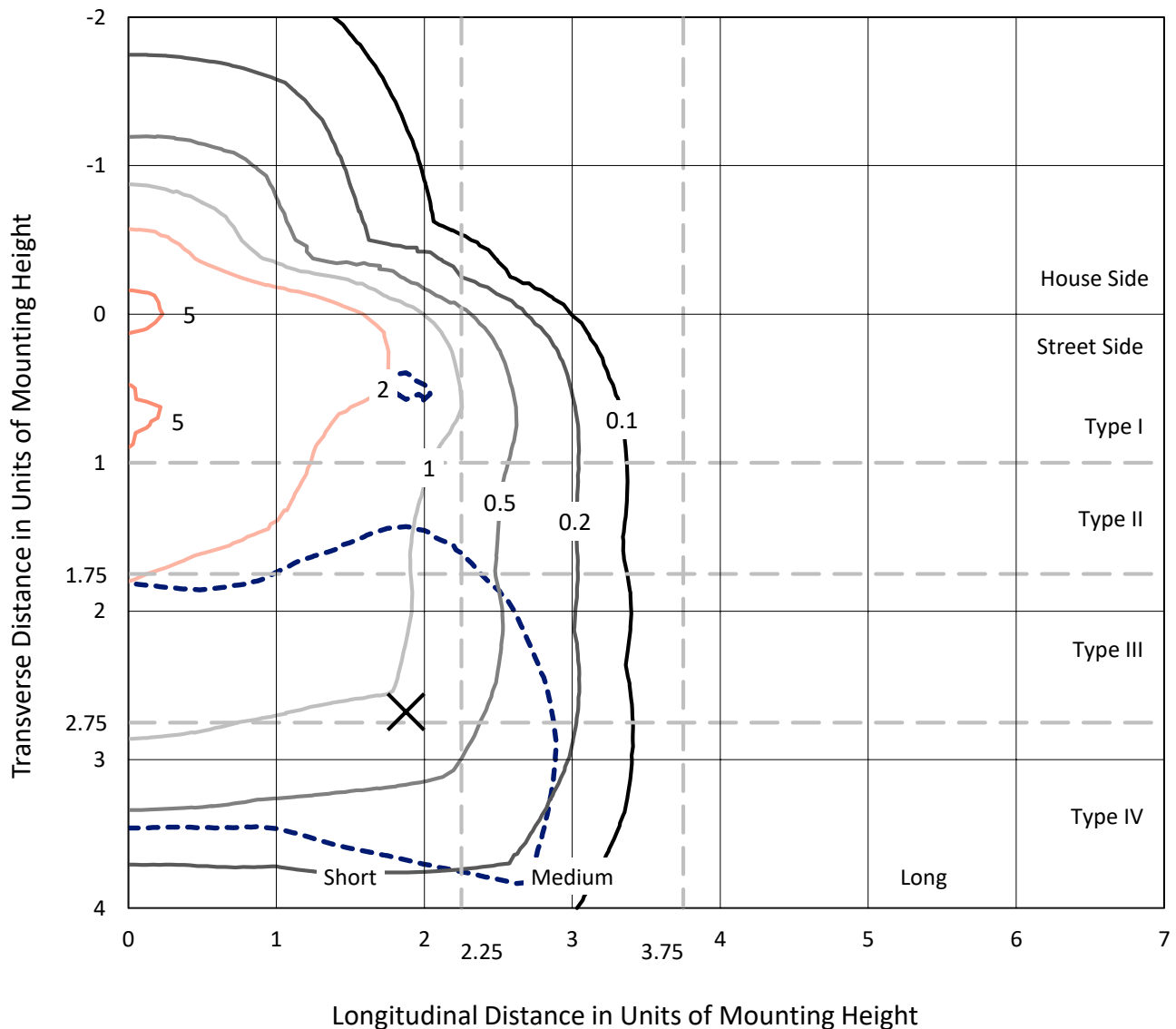


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

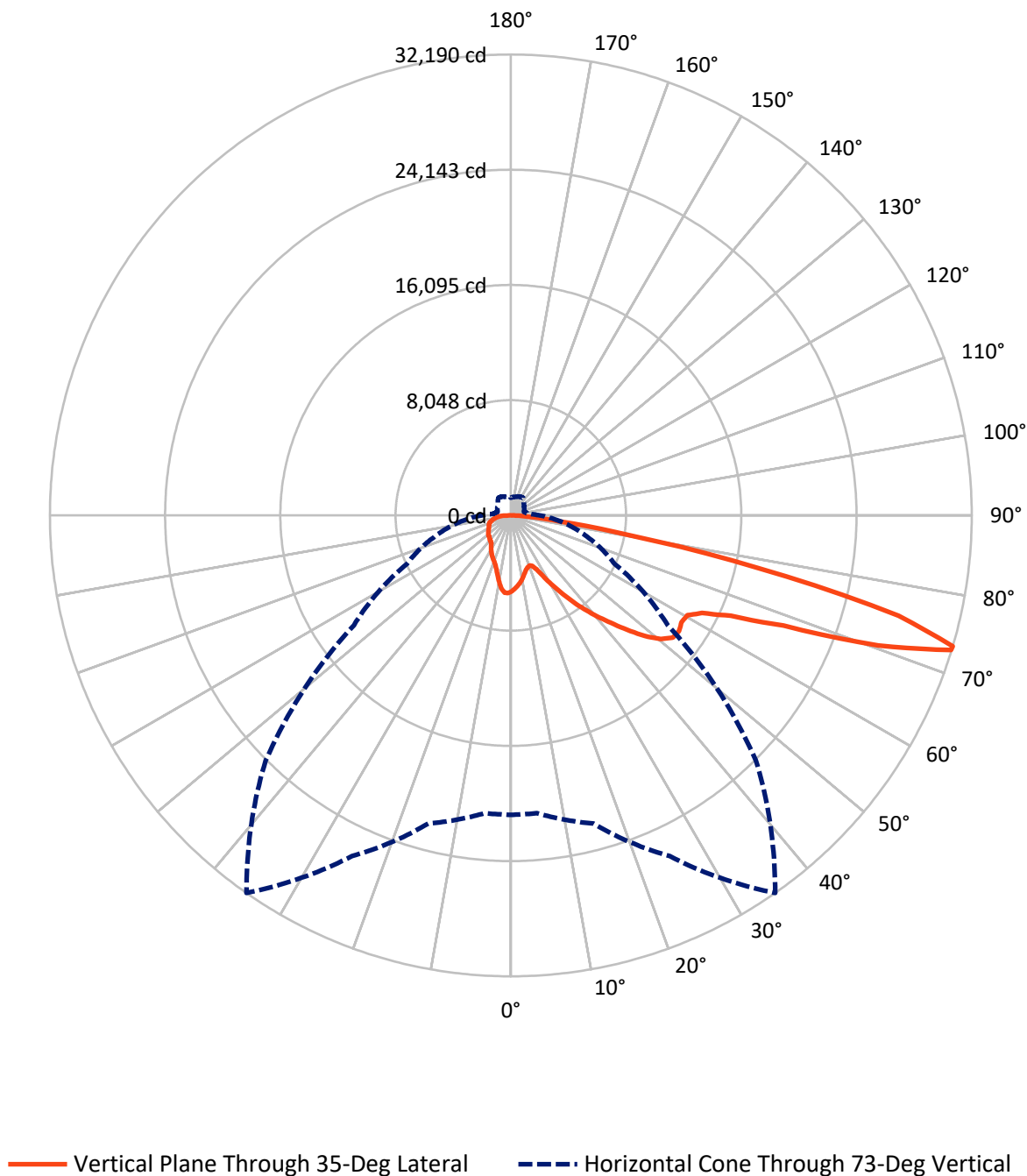


Based on 30 foot mounting height. Maximum calculated value = 5.9 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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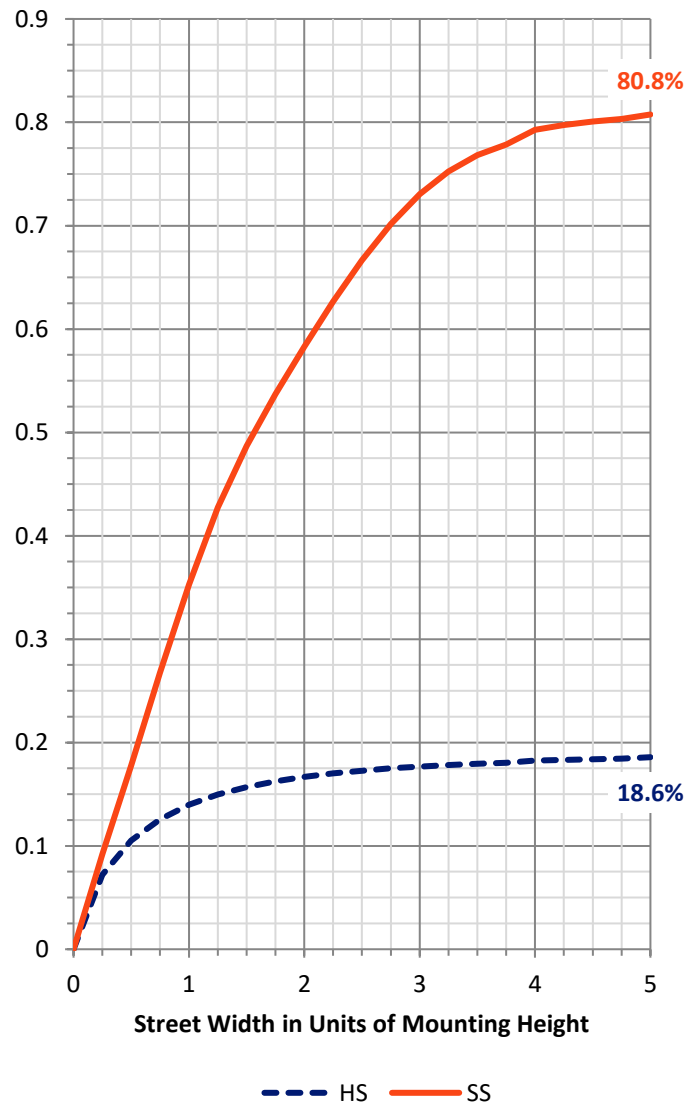
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6708.9	0.0	6708.9
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	28466.2	0.0	28466.2
	% Fixture	80.9	0.0	80.9
Total	Lumens	35175.1	0.0	35175.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	480.6	1.4
10°-20°	1199.5	3.4
20°-30°	1939.2	5.5
30°-40°	3251.8	9.2
40°-50°	5012.6	14.3
50°-60°	6724.9	19.1
60°-70°	8958.9	25.5
70°-80°	6832.9	19.4
80°-90°	774.5	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°	35175.1	100.0
0°-180°	35175.1	100.0

Coefficient of Utilization



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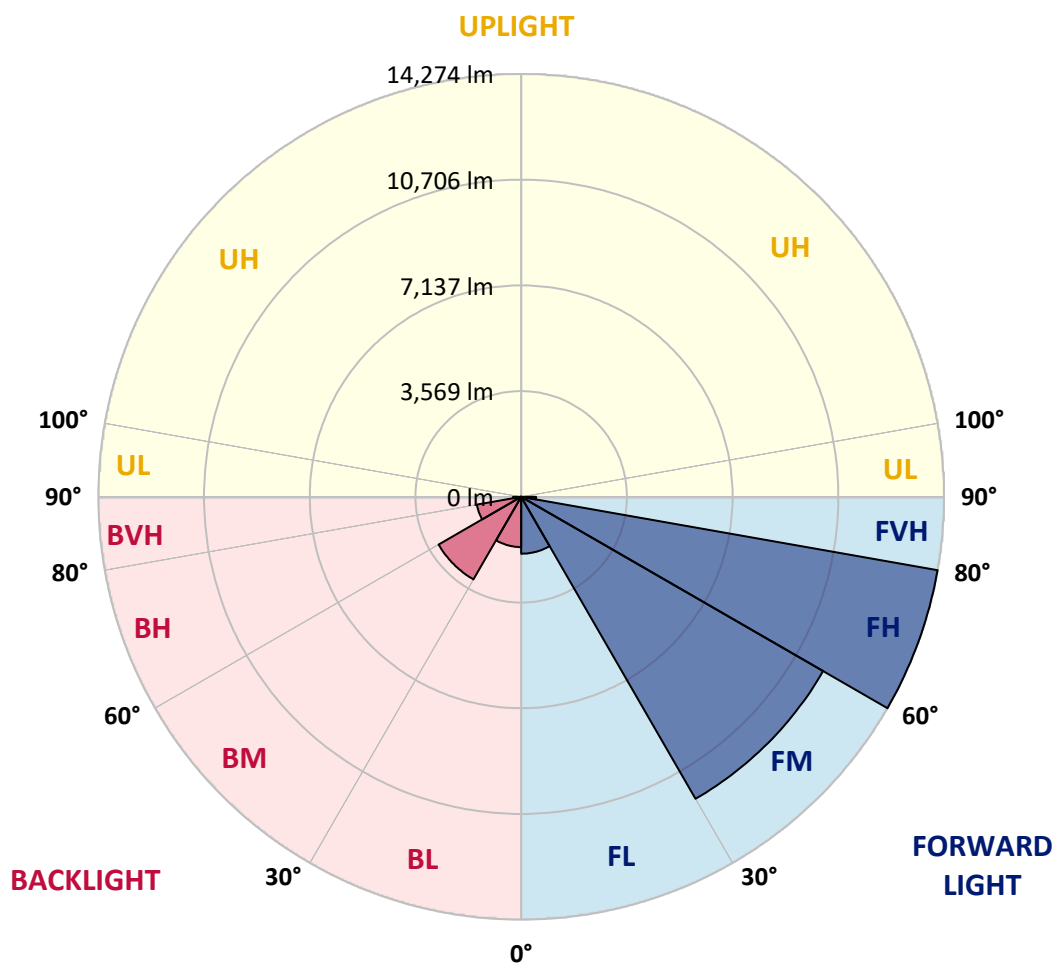
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1921.7	5.5			
FM	(30°-60°)	11769.8	33.5			
FH	(60°-80°)	14274.0	40.6			G5
FVH	(80°-90°)	500.6	1.4			G4/750
BL	(0°-30°)	1697.7	4.8	B3/2500		
BM	(30°-60°)	3219.5	9.2	B3/5000		
BH	(60°-80°)	1517.8	4.3	B3/2500		G3/2500
BVH	(80°-90°)	273.9	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°	5309.0	5309.0	5309.0	5309.0	5309.0	5309.0	5309.0	5309.0	5309.0	5309.0	5309.0
2.5°	5099.6	5109.7	5097.9	5113.1	5138.4	5165.4	5184.0	5211.0	5241.4	5283.7	5293.8
5°	4859.7	4874.9	4874.9	4901.9	4950.9	4994.8	5035.4	5079.3	5143.5	5216.1	5244.8
7.5°	4596.2	4604.6	4619.8	4660.4	4731.3	4793.8	4851.3	4922.2	5010.0	5106.3	5157.0
10°	4278.6	4290.5	4314.1	4371.5	4467.8	4554.0	4636.7	4734.7	4846.2	4966.1	5030.3
12.5°	4054.0	4050.6	4060.7	4103.0	4187.4	4292.1	4412.1	4537.1	4673.9	4814.1	4891.8
15°	3978.0	3959.4	3920.5	3910.4	3956.0	4060.7	4199.2	4353.0	4516.8	4685.7	4782.0
17.5°	4025.3	3993.2	3886.7	3809.0	3802.3	3881.7	4028.6	4200.9	4390.1	4596.2	4716.1
20°	4322.5	4246.5	3984.7	3804.0	3741.5	3780.3	3908.7	4091.1	4314.1	4587.7	4741.5
22.5°	5033.7	4922.2	4366.5	4030.3	3819.2	3771.9	3868.2	4062.4	4322.5	4692.5	4888.4
25°	6069.1	5910.4	5021.9	4594.5	4158.7	3907.0	3929.0	4128.3	4442.5	4935.7	5172.2
27.5°	6886.7	6783.6	5878.3	5390.1	4776.9	4271.9	4126.6	4293.8	4687.4	5334.3	5575.9
30°	7373.2	7310.7	6793.8	6292.1	5565.8	4852.9	4505.0	4604.6	5070.8	5886.7	6086.0
32.5°	7937.3	7900.2	7646.8	7185.7	6417.1	5616.4	5104.6	5069.2	5584.3	6550.5	6641.8
35°	8521.8	8510.0	8361.3	8030.2	7330.9	6623.2	5900.2	5660.4	6143.5	7239.7	7182.3
37.5°	9065.7	9045.4	8959.3	8766.7	8287.0	7704.2	6711.0	6266.8	6746.5	7898.5	7643.4
40°	10067.4	9908.6	9613.0	9467.7	9253.2	8614.7	7354.6	6832.6	7371.5	8526.9	8042.1
42.5°	11288.6	11030.2	10479.5	10280.2	10249.8	9332.6	7793.8	7381.6	8001.5	9150.1	8433.9
45°	12249.7	12006.5	11531.9	11280.2	11391.7	9982.9	8234.6	7967.7	8650.2	9803.9	8837.7
47.5°	13275.1	12893.3	12264.9	12341.0	12584.2	10597.8	8683.9	8597.8	9361.3	10535.3	9339.3
50°	13312.2	13020.0	12744.7	13199.1	13577.4	11163.6	9246.4	9258.3	10231.2	11455.8	10006.5
52.5°	12540.3	12477.8	12915.3	13629.8	14175.4	11611.2	9886.6	9940.7	11344.4	12513.3	10739.6
55°	12270.0	12199.1	12704.1	13479.5	14256.5	11981.2	10580.9	10678.8	12690.6	13628.1	11454.2
57.5°	12928.8	12771.7	12805.5	13408.5	14058.8	12386.6	11337.6	11535.2	14153.4	14602.7	11913.6
60°	14770.0	14433.8	13795.3	13780.1	14165.2	12994.7	12212.6	12454.1	15673.7	15068.9	11734.6
62.5°	17352.7	17016.5	15820.6	15041.9	14984.5	13998.0	13286.9	13351.1	16552.0	14437.2	10641.7
65°	20148.2	19847.6	18511.4	17411.8	16881.4	15660.1	14535.2	13751.4	16264.9	12699.1	8729.5
67.5°	23541.7	23219.1	22070.5	21055.3	20545.2	18342.5	15411.8	13368.0	14442.3	9837.6	6275.2
70°	25915.0	25585.6	25132.9	25955.5	27203.8	22212.4	15525.0	11808.9	10786.9	6538.7	3776.9
72.5°	22818.8	22665.1	23491.1	26955.5	32154.7	24560.3	14033.5	8597.8	6265.1	3471.2	2185.8
73°	20906.7	20872.9	22281.6	26254.5	32190.2	24198.8	13379.8	7991.4	5373.2	3070.9	1998.3
75°	9440.7	9712.6	12800.4	20053.6	27967.3	19940.5	9417.0	4584.4	3035.4	2121.6	1508.4
77.5°	2268.5	2363.1	4005.0	9523.5	17661.8	11883.2	4266.8	2266.8	1940.8	1498.3	1101.3
80°	966.2	998.3	1542.2	3518.5	8315.7	4785.4	1966.2	1518.5	1342.9	1045.6	771.9
82.5°	537.2	570.9	875.0	1596.3	3356.3	1631.7	1199.3	1057.4	883.4	630.1	501.7
85°	304.0	322.6	511.8	891.9	1422.3	655.4	717.9	702.7	498.3	324.3	246.6
87.5°	143.6	155.4	246.6	413.8	557.4	256.8	364.9	402.0	312.5	197.6	128.4
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5309.0	5309.0	5309.0	5309.0	5309.0	5309.0	5309.0	5309.0	5309.0	5309.0
2.5°	5305.6	5336.0	5371.5	5390.1	5407.0	5427.3	5447.5	5447.5	5450.9	5452.6
5°	5268.5	5331.0	5386.7	5410.4	5415.4	5415.4	5410.4	5383.3	5359.7	5369.8
7.5°	5190.8	5282.0	5329.3	5320.8	5256.6	5182.3	5119.8	5043.8	5005.0	4998.2
10°	5079.3	5184.0	5192.5	5108.0	4949.2	4790.4	4658.7	4530.3	4469.5	4454.3
12.5°	4956.0	5052.3	4998.2	4824.2	4569.2	4337.7	4170.5	4040.5	3983.0	3967.8
15°	4856.3	4922.2	4785.4	4511.7	4190.8	3945.9	3807.4	3711.1	3670.5	3658.7
17.5°	4804.0	4817.5	4567.5	4197.5	3856.3	3652.0	3565.8	3520.2	3505.0	3496.5
20°	4829.3	4734.7	4359.7	3905.3	3582.7	3439.1	3418.8	3407.0	3403.6	3398.6
22.5°	4956.0	4709.4	4168.8	3628.3	3342.8	3280.3	3297.2	3295.5	3292.2	3288.8
25°	5182.3	4731.3	3983.0	3364.8	3141.8	3128.3	3158.7	3158.7	3145.2	3145.2
27.5°	5481.3	4776.9	3775.3	3114.8	2959.4	2961.1	2984.7	2978.0	2962.8	2952.6
30°	5846.2	4805.6	3532.0	2890.1	2788.8	2782.0	2788.8	2760.1	2714.5	2711.1
32.5°	6219.5	4770.2	3249.9	2690.8	2608.1	2592.9	2587.8	2547.2	2494.9	2479.7
35°	6557.3	4640.1	2962.8	2532.0	2435.8	2402.0	2425.6	2412.1	2364.8	2353.0
37.5°	6803.9	4398.6	2704.3	2391.8	2312.5	2304.0	2319.2	2324.3	2268.5	2256.7
40°	6969.5	4070.9	2483.1	2273.6	2288.8	2256.7	2206.0	2170.6	2153.7	2148.6
42.5°	7102.9	3729.7	2297.2	2217.9	2293.9	2201.0	2091.2	2033.7	2064.1	2077.7
45°	7256.6	3396.9	2141.8	2148.6	2268.5	2136.8	2011.8	1956.0	1967.9	1971.2
47.5°	7467.8	2991.5	1974.6	2037.1	2184.1	2092.9	1962.8	1883.4	1827.7	1802.3
50°	7760.0	2511.8	1800.6	1912.1	2101.3	2060.8	1886.8	1802.3	1699.3	1675.6
52.5°	7962.7	2064.1	1657.1	1807.4	2027.0	1996.6	1826.0	1716.2	1608.1	1587.8
55°	7852.9	1714.5	1532.1	1690.8	1929.0	1917.2	1775.3	1628.3	1543.9	1527.0
57.5°	7303.9	1493.2	1435.8	1581.0	1809.1	1849.6	1707.7	1554.0	1493.2	1481.4
60°	6256.6	1354.7	1375.0	1506.7	1711.1	1782.1	1640.2	1513.5	1472.9	1464.5
62.5°	4854.6	1261.8	1329.4	1452.7	1635.1	1734.8	1603.0	1508.4	1493.2	1483.1
65°	3478.0	1187.5	1280.4	1398.6	1565.8	1690.8	1589.5	1501.7	1505.0	1496.6
67.5°	2363.1	1121.6	1221.3	1337.8	1498.3	1652.0	1570.9	1478.0	1520.2	1510.1
70°	1653.7	1057.4	1152.0	1260.1	1413.8	1597.9	1537.1	1442.5	1439.2	1398.6
72.5°	1290.5	973.0	1057.4	1152.0	1305.7	1521.9	1469.6	1363.1	1307.4	1265.2
73°	1231.4	952.7	1033.8	1128.4	1282.1	1503.3	1451.0	1341.2	1278.7	1239.8
75°	1018.6	864.8	939.2	1023.6	1180.7	1415.5	1359.8	1241.5	1162.1	1138.5
77.5°	800.7	739.8	810.8	886.8	1040.5	1287.1	1224.6	1111.5	1067.5	1047.3
80°	592.9	613.2	675.7	743.2	902.0	1150.3	1094.6	981.4	1177.3	1128.4
82.5°	417.2	464.5	521.9	582.8	756.7	1016.9	949.3	832.8	861.5	716.2
85°	246.6	304.0	358.1	410.5	545.6	842.9	783.8	663.8	543.9	518.6
87.5°	143.6	168.9	184.1	238.2	375.0	635.1	552.4	491.5	282.1	190.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)