

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: P193325

Luminaire Tested: **GLEON-AF-07-LED-E1-T4W-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193325
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
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-T4W-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44358.2 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 448
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

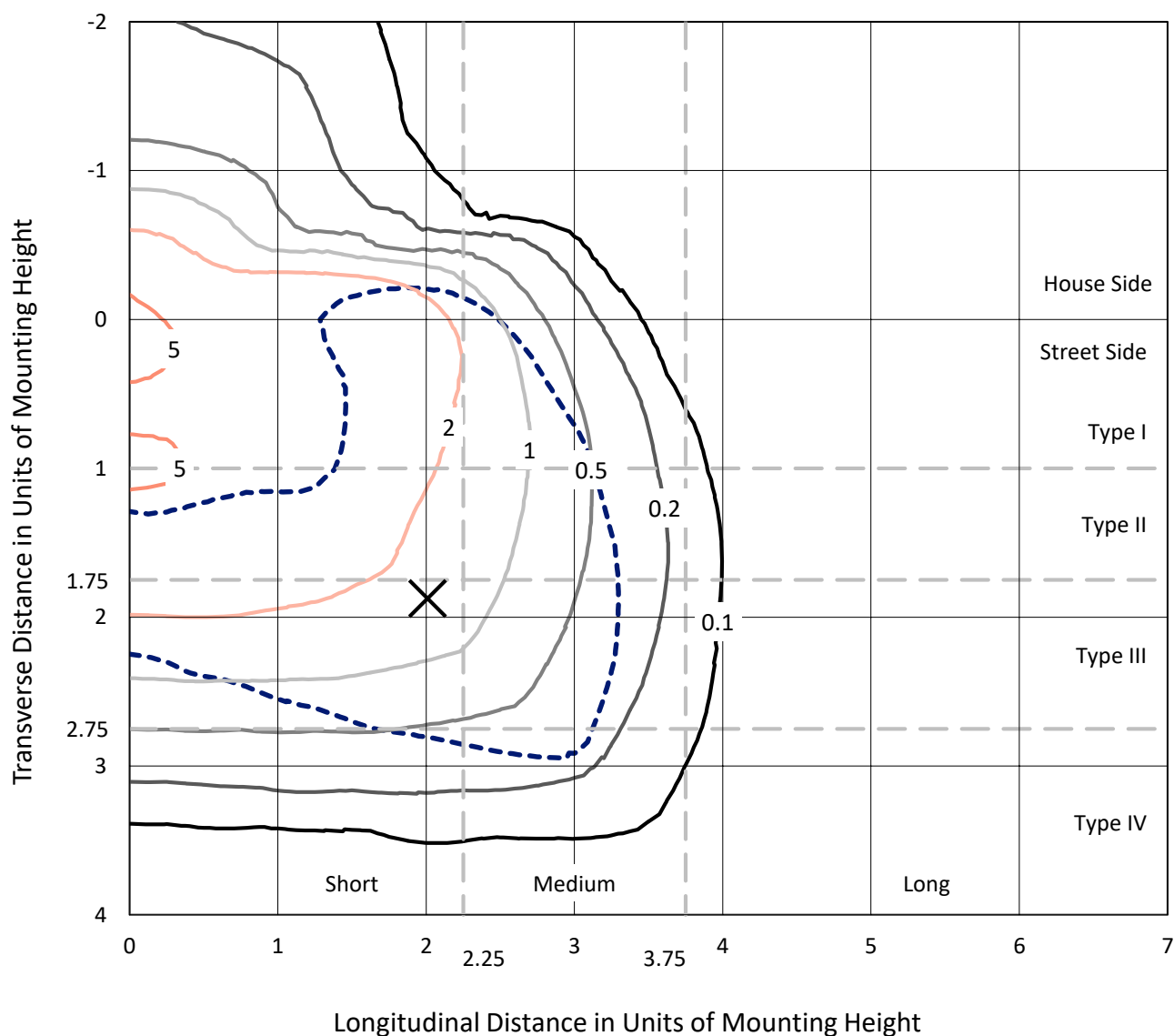


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

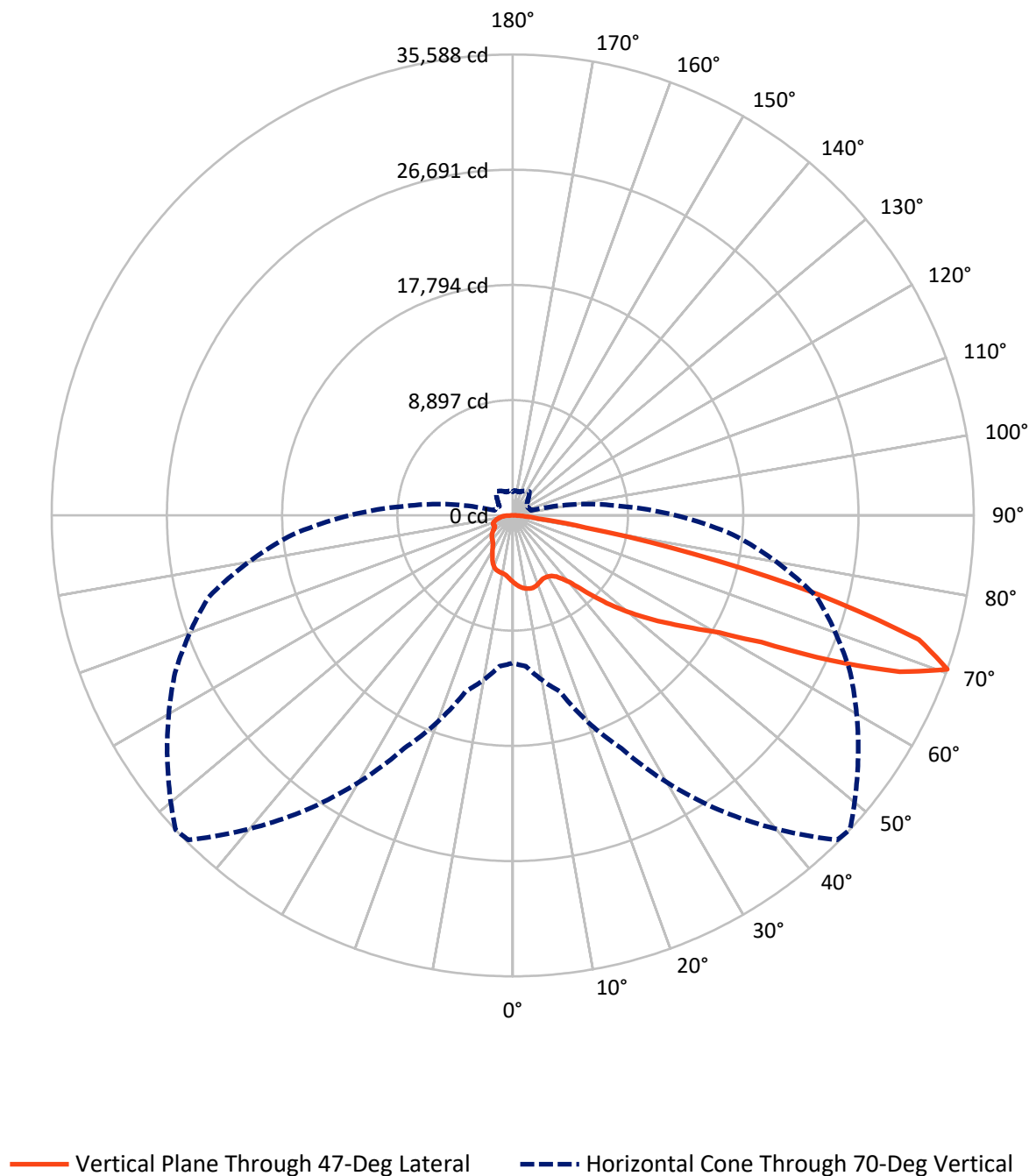


Based on 30 foot mounting height. Maximum calculated value = 6.6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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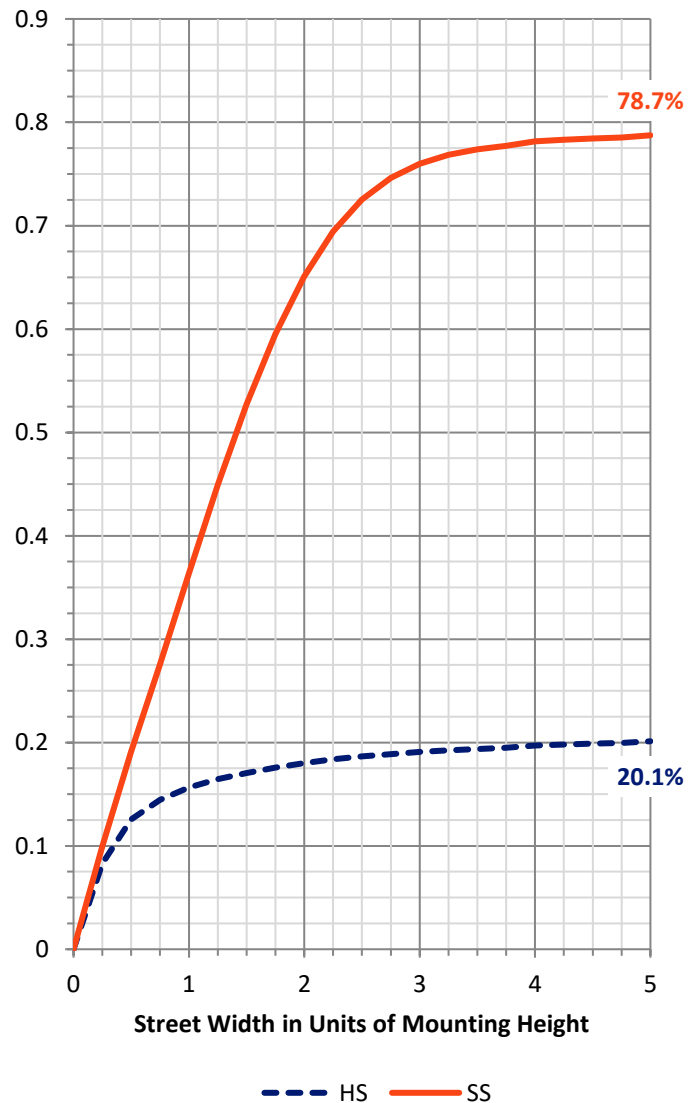
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9254.0	0.0	9254.0
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	35104.2	0.0	35104.2
	% Fixture	79.1	0.0	79.1
Total	Lumens	44358.2	0.0	44358.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	493.2	1.1
10°-20°	1446.8	3.3
20°-30°	2136.6	4.8
30°-40°	3105.4	7.0
40°-50°	5588.7	12.6
50°-60°	9681.8	21.8
60°-70°	13818.8	31.2
70°-80°	7093.8	16.0
80°-90°	993.2	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°	44358.2	100.0
0°-180°	44358.2	100.0

Coefficient of Utilization



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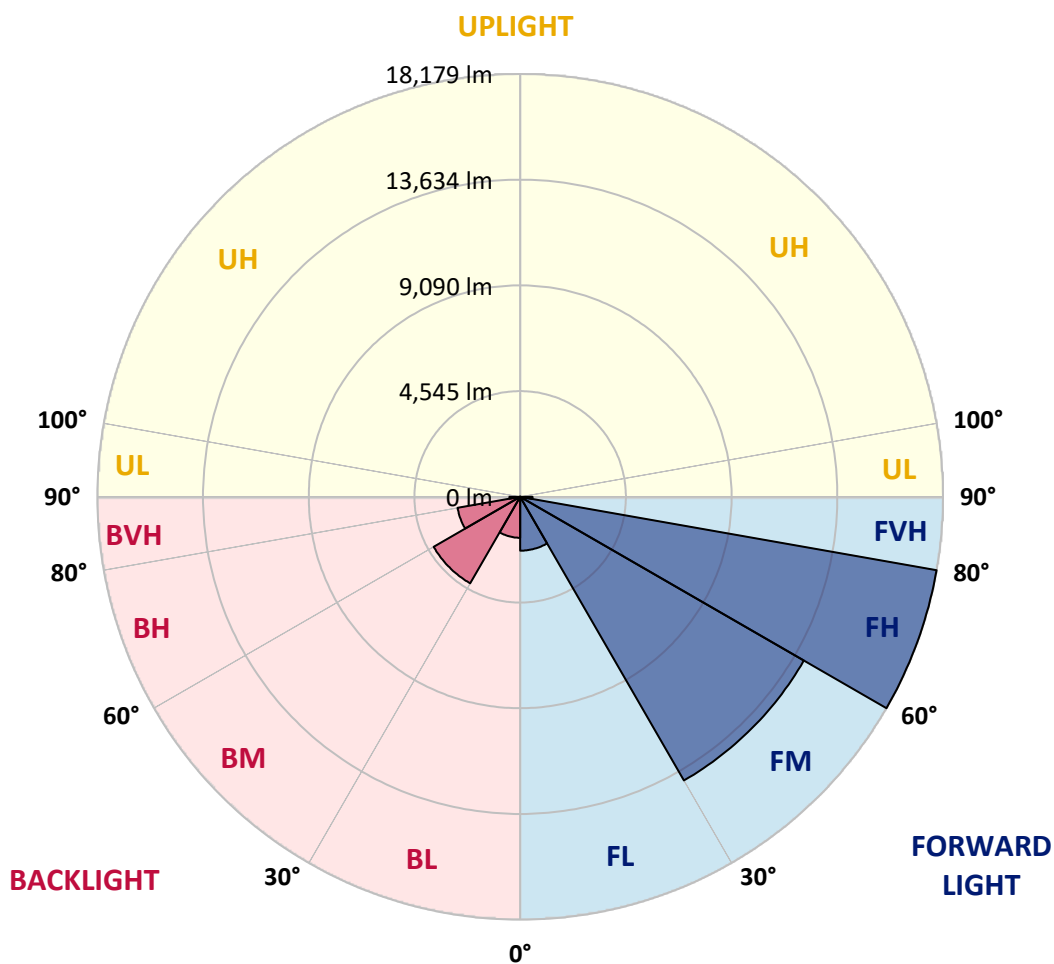
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2314.5	5.2			
FM	(30°-60°)	14080.5	31.7			
FH	(60°-80°)	18179.2	41.0			G5
FVH	(80°-90°)	530.0	1.2			G4/750
BL	(0°-30°)	1762.0	4.0	B3/2500		
BM	(30°-60°)	4295.4	9.7	B3/5000		
BH	(60°-80°)	2733.4	6.2	B4/5000		G4/5000
BVH	(80°-90°)	463.2	1.0			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	5146.8	5146.8	5146.8	5146.8	5146.8	5146.8	5146.8	5146.8	5146.8	5146.8	5146.8
2.5°	5449.1	5438.3	5433.9	5425.3	5414.6	5360.6	5349.8	5311.0	5257.0	5200.8	5142.7
5°	5807.2	5805.2	5781.4	5738.2	5669.1	5550.5	5522.4	5427.5	5300.1	5177.1	5054.2
7.5°	6122.4	6102.9	6057.7	5971.3	5850.4	5688.6	5649.8	5518.1	5343.4	5174.9	5008.8
10°	6353.3	6342.5	6243.2	6124.5	5966.9	5787.9	5742.5	5595.8	5403.8	5190.2	4982.9
12.5°	6484.9	6463.3	6348.9	6206.5	6018.8	5843.9	5798.6	5649.8	5433.9	5190.2	4946.2
15°	6476.3	6461.1	6346.8	6191.4	6001.5	5848.3	5807.2	5658.4	5427.5	5168.5	4898.7
17.5°	6303.6	6310.2	6213.0	6059.7	5904.4	5787.9	5751.2	5613.0	5384.3	5125.4	4842.7
20°	6001.5	6031.7	5966.9	5831.0	5744.8	5664.9	5641.2	5524.5	5317.4	5062.7	4782.2
22.5°	5699.4	5727.5	5701.5	5587.2	5574.2	5526.8	5513.8	5429.6	5259.2	5024.0	4745.5
25°	5477.0	5503.0	5498.7	5399.4	5438.3	5436.0	5425.3	5384.3	5246.2	5024.0	4752.0
27.5°	5416.6	5425.3	5416.6	5326.1	5380.0	5423.2	5414.6	5408.0	5285.1	5086.4	4834.0
30°	5623.9	5610.9	5544.1	5360.6	5410.2	5470.6	5462.0	5466.3	5401.6	5250.6	5017.4
32.5°	6450.3	6392.1	6180.6	5664.9	5533.2	5565.5	5569.9	5641.2	5651.9	5503.0	5302.4
35°	7686.9	7622.3	7348.1	6480.6	5915.2	5803.0	5803.0	5910.9	5975.6	5865.6	5744.8
37.5°	8996.9	8925.6	8778.9	7611.4	6718.1	6215.2	6204.4	6279.9	6372.6	6398.6	6428.9
40°	10485.9	10410.4	10451.4	8880.4	7838.0	6929.4	6776.3	6722.2	6972.6	7138.8	7380.5
42.5°	12115.2	12080.7	12095.9	10293.9	9113.5	7997.7	7779.7	7501.3	7803.6	8099.2	8606.3
45°	13623.7	13653.9	13638.9	11806.7	10533.3	9301.1	9070.2	8530.8	8826.4	9333.6	10160.0
47.5°	14944.5	14819.3	15013.6	13459.7	12123.9	10760.0	10475.1	9752.2	10052.2	10678.0	12076.4
50°	16547.9	16530.6	16245.8	15665.3	14046.7	12225.3	11852.0	11014.7	11480.8	12350.4	14491.3
52.5°	18233.3	17920.3	17659.2	17380.9	16086.0	13727.4	13269.7	12272.8	13159.7	14253.9	17434.8
55°	18578.6	18438.3	18762.0	19230.2	18052.1	15287.5	14754.5	13850.4	15050.1	16429.2	20829.4
57.5°	19316.6	19314.5	19983.4	20818.6	20076.3	16942.9	16405.4	15755.8	17175.9	18921.7	24433.3
60°	19815.1	19955.4	21198.5	22819.2	22063.9	18854.8	18360.6	17954.9	19592.8	21707.7	27791.3
62.5°	20076.3	20266.2	21962.4	23630.6	24873.6	22037.9	21543.7	20958.8	22791.1	24763.5	29755.1
65°	18990.8	19364.1	21843.6	24331.9	27333.7	27197.8	26975.6	25948.3	26790.0	27178.4	29045.1
67.5°	15986.9	16368.7	19256.2	23678.0	29090.4	32174.2	32221.7	30467.3	29250.2	27385.5	24420.4
70°	11390.2	11690.0	14079.0	19851.9	27752.4	35426.4	35588.3	32549.8	28760.2	24286.5	17061.5
72.5°	5408.0	5591.5	7853.1	12920.2	22022.9	32459.1	32772.0	29891.0	24455.0	17980.8	9307.6
75°	1987.5	2043.7	2654.4	5496.5	12773.5	23936.9	24306.1	21427.2	16211.3	8951.5	3545.7
77.5°	1191.3	1228.0	1489.1	2319.9	5024.0	13682.0	14228.0	11653.4	7084.8	3332.0	1743.7
80°	833.0	858.9	1068.2	1443.8	2373.8	5213.9	5699.4	4756.3	2822.7	2108.3	1268.9
82.5°	563.2	576.3	751.0	975.4	1577.4	1862.5	2009.2	2114.9	1903.4	1568.9	804.9
85°	369.1	382.0	509.2	643.1	1003.4	962.5	984.1	1245.2	1389.8	1066.1	446.8
87.5°	211.5	220.1	306.5	343.1	492.0	407.9	412.2	656.0	889.2	718.6	271.9
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5146.8	5146.8	5146.8	5146.8	5146.8	5146.8	5146.8	5146.8	5146.8	5146.8	5146.8
2.5°	5127.5	5099.4	5036.9	4998.1	4961.4	4952.7	4937.7	4935.5	4933.3	4933.3	4926.8
5°	5013.2	4965.7	4868.6	4814.6	4769.2	4764.9	4762.8	4773.5	4777.9	4782.2	4775.7
7.5°	4939.7	4875.0	4754.2	4676.6	4622.5	4609.5	4631.2	4680.7	4713.1	4726.1	4719.7
10°	4894.5	4814.6	4674.3	4590.2	4544.8	4538.4	4566.4	4624.7	4691.6	4717.5	4715.3
12.5°	4842.7	4752.0	4603.1	4514.6	4488.7	4501.7	4538.4	4592.2	4661.3	4702.4	4704.4
15°	4790.8	4685.1	4531.8	4454.2	4443.3	4460.6	4495.3	4536.2	4590.2	4631.2	4635.5
17.5°	4728.3	4618.2	4465.0	4385.1	4376.5	4385.1	4387.3	4408.8	4443.3	4482.3	4493.1
20°	4661.3	4549.1	4389.5	4309.6	4270.7	4236.2	4197.4	4201.7	4212.5	4251.4	4260.0
22.5°	4613.9	4501.7	4331.1	4221.1	4117.6	4013.9	3936.3	3925.4	3929.8	3962.2	3973.0
25°	4618.2	4499.6	4316.1	4126.1	3899.6	3733.4	3629.8	3612.5	3610.4	3634.2	3649.3
27.5°	4702.4	4583.7	4372.2	4029.1	3662.2	3416.2	3306.0	3293.2	3275.9	3282.3	3299.6
30°	4890.1	4780.1	4508.1	3929.8	3405.4	3105.3	2991.1	2978.1	2954.4	2943.6	2956.5
32.5°	5196.6	5105.9	4706.7	3834.9	3148.7	2839.9	2723.4	2695.4	2680.2	2667.3	2678.2
35°	5705.8	5667.1	4972.2	3731.2	2922.0	2635.0	2529.3	2486.0	2464.5	2488.3	2505.6
37.5°	6504.3	6525.9	5319.7	3569.4	2747.3	2499.0	2410.5	2360.9	2328.6	2348.0	2367.3
40°	7635.1	7650.3	5703.7	3340.6	2596.1	2419.2	2324.2	2278.9	2233.6	2199.1	2196.8
42.5°	9119.9	8966.7	6081.4	3092.5	2421.3	2369.5	2263.8	2207.7	2138.6	2043.7	2024.2
45°	10880.8	10343.5	6368.4	2807.6	2224.9	2309.0	2196.8	2119.2	2011.3	1907.6	1897.0
47.5°	12909.4	11821.8	6508.7	2512.0	2041.5	2220.5	2114.9	1991.9	1855.9	1804.1	1797.7
50°	15386.9	13576.2	6575.6	2224.9	1881.8	2104.2	1996.1	1851.6	1737.2	1726.4	1720.0
52.5°	18207.4	15686.8	6597.2	1989.7	1750.3	1953.0	1899.0	1758.8	1668.2	1676.8	1676.8
55°	21159.5	17866.4	6303.6	1819.2	1629.3	1797.7	1834.4	1722.2	1646.5	1681.1	1694.1
57.5°	23870.1	19797.9	5380.0	1687.6	1515.0	1679.0	1810.7	1756.7	1704.9	1845.2	1853.8
60°	25950.5	20939.4	4018.2	1568.9	1430.8	1637.9	1873.1	1888.3	1901.2	2235.8	2281.0
62.5°	26386.3	20559.7	2762.3	1476.1	1392.0	1672.4	1987.5	1989.7	1974.7	2207.7	2235.8
65°	24385.9	18157.8	2009.2	1424.3	1359.5	1735.0	2084.6	2039.4	1940.1	2117.0	2065.2
67.5°	19366.3	13679.8	1672.4	1385.5	1312.1	1730.7	2188.3	2084.6	1920.7	2073.8	1989.7
70°	12570.6	8271.8	1489.1	1353.0	1255.9	1648.7	2248.7	2080.4	1864.5	1929.3	1830.0
72.5°	6133.2	3698.9	1366.1	1305.6	1197.7	1534.3	2246.5	2041.5	1806.3	1802.0	1748.0
75°	2399.8	1694.1	1253.9	1234.4	1098.5	1404.8	2186.1	1985.4	1737.2	1668.2	1648.7
77.5°	1404.8	1208.5	1111.3	1128.6	979.7	1275.4	2097.7	1888.3	1642.2	1560.2	1538.7
80°	1022.8	904.2	947.4	975.4	837.4	1145.9	1978.9	1769.6	1536.5	1577.4	1547.3
82.5°	656.0	582.7	768.3	796.3	697.1	1014.3	1849.4	1644.5	1387.6	1260.3	1230.0
85°	334.5	369.1	571.9	606.4	537.3	833.0	1691.9	1478.3	1219.4	1048.8	1066.1
87.5°	187.7	252.5	364.7	407.9	379.7	641.0	1372.6	1219.4	994.8	809.3	712.2
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)