

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: P194923

Luminaire Tested: **GLEON-AF-05-LED-E1-T4W-7060-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194923
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-05-LED-E1-T4W-7060-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 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: 32408 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 320
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



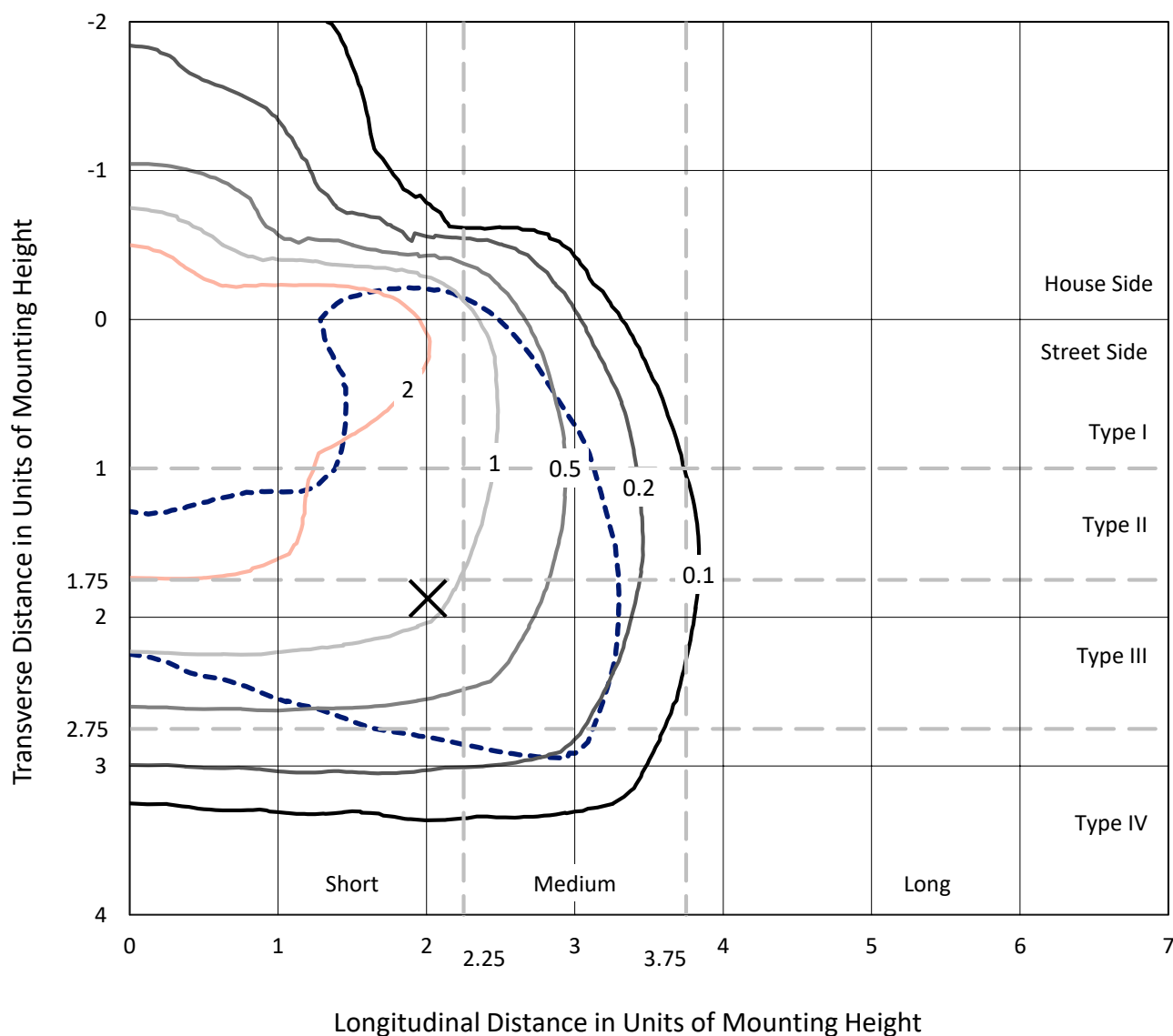
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

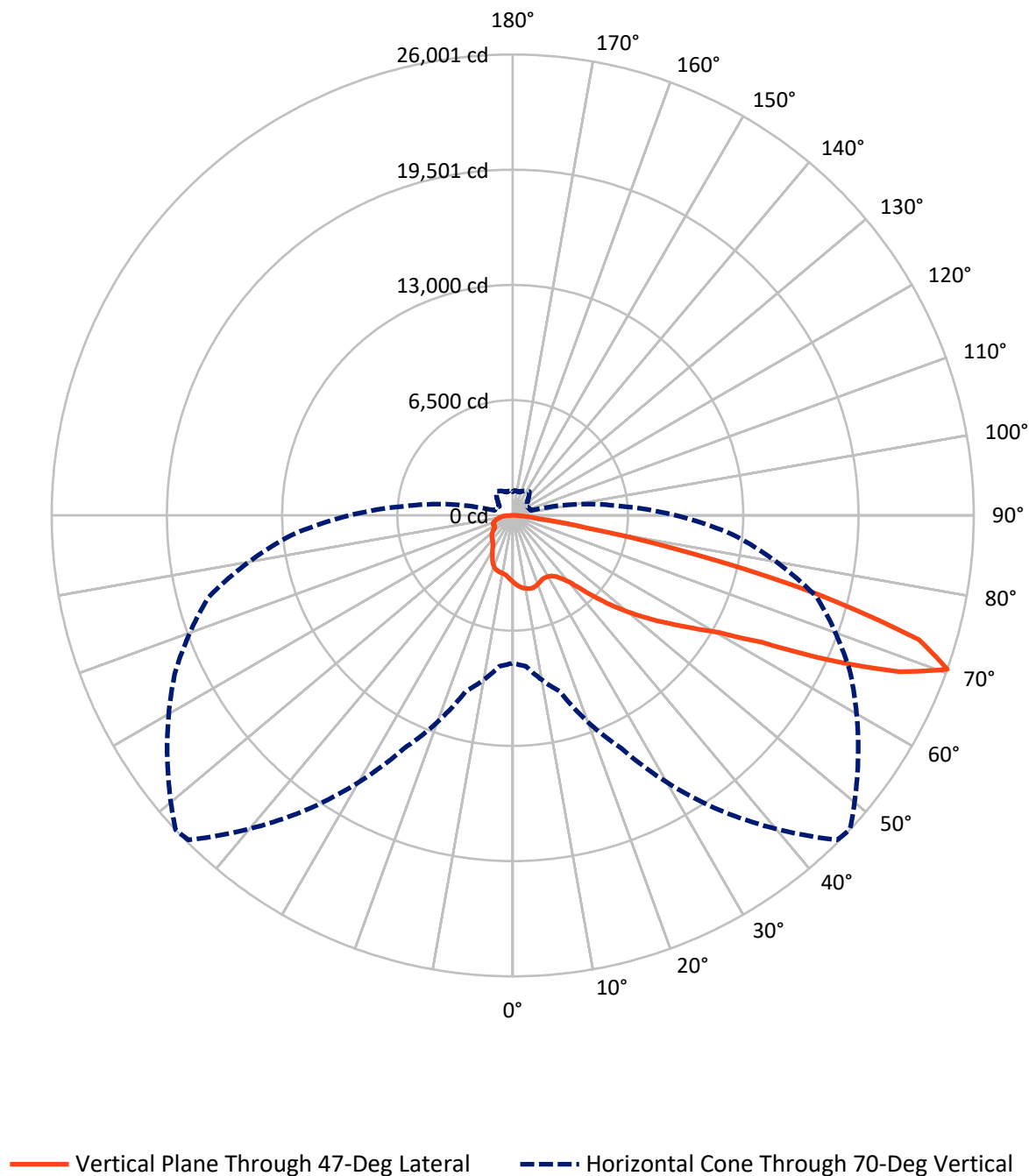


Based on 30 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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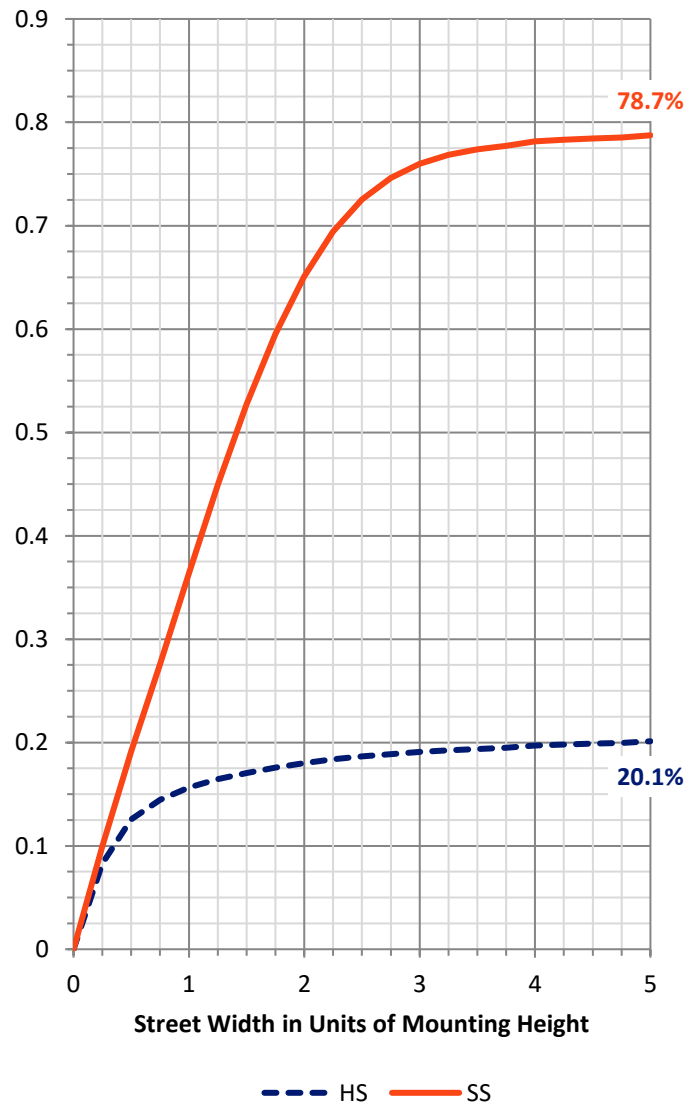
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6760.9	0.0	6760.9
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	25647.1	0.0	25647.1
	% Fixture	79.1	0.0	79.1
Total	Lumens	32408.0	0.0	32408.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.3	1.1
10°-20°	1057.0	3.3
20°-30°	1561.0	4.8
30°-40°	2268.8	7.0
40°-50°	4083.1	12.6
50°-60°	7073.5	21.8
60°-70°	10096.0	31.2
70°-80°	5182.7	16.0
80°-90°	725.6	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°	32408.0	100.0
0°-180°	32408.0	100.0

Coefficient of Utilization



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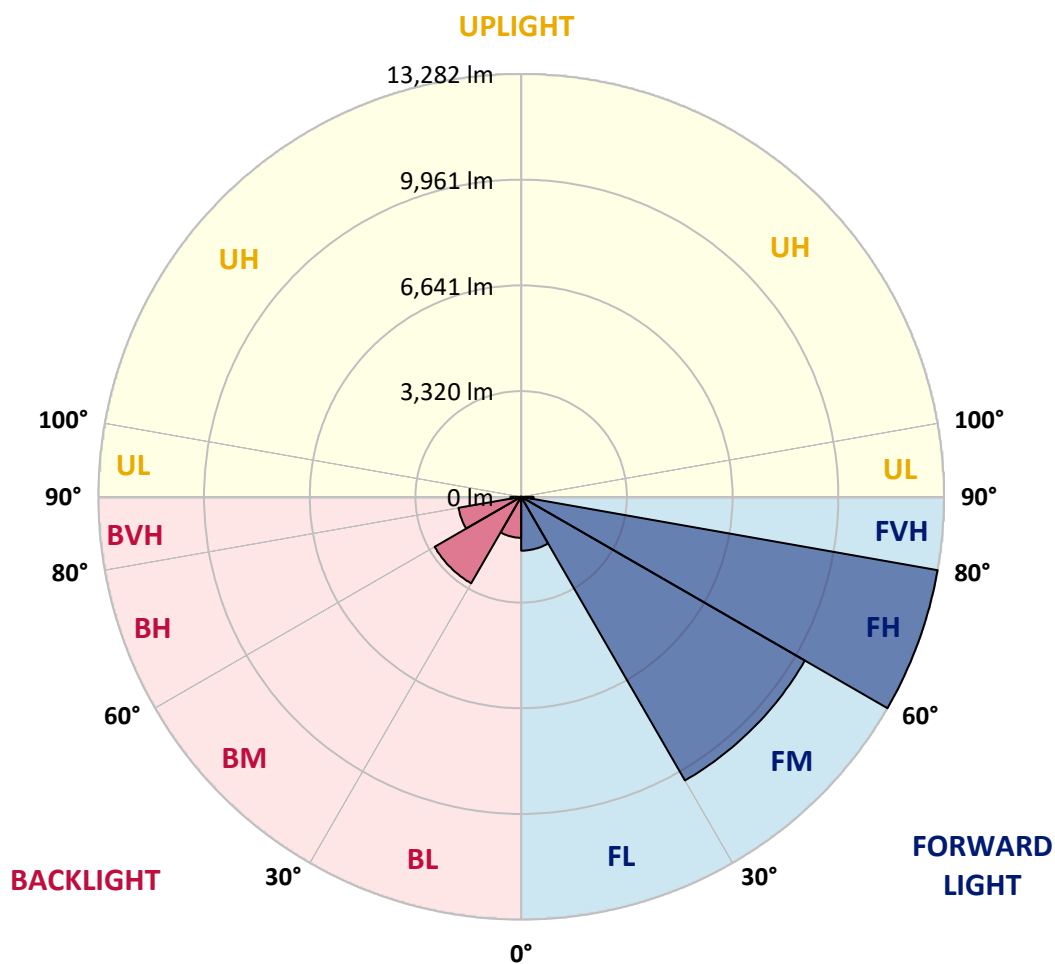
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1691.0	5.2			
FM	(30°-60°)	10287.2	31.7			
FH	(60°-80°)	13281.7	41.0			G5
FVH	(80°-90°)	387.2	1.2			G3/500
BL	(0°-30°)	1287.3	4.0	B3/2500		
BM	(30°-60°)	3138.2	9.7	B3/5000		
BH	(60°-80°)	1997.0	6.2	B3/2500		G3/2500
BVH	(80°-90°)	338.4	1.0			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°	47°	55°	65°	75°	85°
0°	3760.3	3760.3	3760.3	3760.3	3760.3	3760.3	3760.3	3760.3	3760.3	3760.3	3760.3
2.5°	3981.1	3973.2	3970.0	3963.7	3955.8	3916.4	3908.5	3880.2	3840.7	3799.8	3757.2
5°	4242.8	4241.2	4223.9	4192.3	4141.9	4055.2	4034.7	3965.3	3872.3	3782.4	3692.5
7.5°	4473.0	4458.8	4425.7	4362.6	4274.3	4156.1	4127.7	4031.5	3903.8	3780.8	3659.4
10°	4641.7	4633.8	4561.3	4474.6	4359.5	4228.6	4195.5	4088.3	3948.0	3791.9	3640.5
12.5°	4737.9	4722.1	4638.5	4534.5	4397.3	4269.6	4236.5	4127.7	3970.0	3791.9	3613.7
15°	4731.6	4720.5	4637.0	4523.4	4384.7	4272.8	4242.8	4134.0	3965.3	3776.1	3579.0
17.5°	4605.4	4610.2	4539.2	4427.3	4313.7	4228.6	4201.8	4100.9	3933.8	3744.6	3538.0
20°	4384.7	4406.8	4359.5	4260.1	4197.1	4138.7	4121.4	4036.3	3884.9	3698.8	3493.9
22.5°	4164.0	4184.5	4165.5	4082.0	4072.5	4037.8	4028.4	3966.9	3842.3	3670.5	3467.1
25°	4001.6	4020.5	4017.3	3944.8	3973.2	3971.6	3963.7	3933.8	3832.9	3670.5	3471.8
27.5°	3957.4	3963.7	3957.4	3891.2	3930.6	3962.1	3955.8	3951.1	3861.2	3716.2	3531.7
30°	4108.8	4099.3	4050.4	3916.4	3952.7	3996.8	3990.5	3993.7	3946.4	3836.0	3665.7
32.5°	4712.6	4670.1	4515.6	4138.7	4042.6	4066.2	4069.4	4121.4	4129.3	4020.5	3873.9
35°	5616.1	5568.8	5368.5	4734.7	4321.6	4239.6	4239.6	4318.5	4365.8	4285.4	4197.1
37.5°	6573.1	6521.1	6413.9	5560.9	4908.1	4540.8	4532.9	4588.1	4655.9	4674.8	4696.9
40°	7661.0	7605.8	7635.8	6488.0	5726.4	5062.7	4950.7	4911.3	5094.2	5215.6	5392.2
42.5°	8851.4	8826.1	8837.2	7520.7	6658.2	5843.1	5683.9	5480.5	5701.2	5917.2	6287.7
45°	9953.5	9975.5	9964.5	8625.9	7695.7	6795.4	6626.7	6232.5	6448.5	6819.1	7422.9
47.5°	10918.4	10826.9	10968.8	9833.6	8857.7	7861.2	7653.1	7124.9	7344.1	7801.3	8823.0
50°	12089.8	12077.2	11869.1	11445.0	10262.5	8931.8	8659.0	8047.3	8387.8	9023.2	10587.3
52.5°	13321.2	13092.6	12901.8	12698.4	11752.4	10029.1	9694.9	8966.5	9614.5	10413.8	12737.8
55°	13573.5	13471.0	13707.5	14049.6	13188.8	11169.1	10779.6	10119.0	10995.6	12003.1	15217.9
57.5°	14112.7	14111.1	14599.9	15210.1	14667.7	12378.4	11985.8	11511.2	12548.6	13824.2	17851.0
60°	14476.9	14579.4	15487.5	16671.6	16119.8	13775.3	13414.2	13117.8	14314.5	15859.6	20304.2
62.5°	14667.7	14806.4	16045.7	17264.4	18172.6	16100.9	15739.8	15312.5	16651.1	18092.2	21739.0
65°	13874.6	14147.4	15959.0	17776.9	19970.0	19870.7	19708.3	18957.8	19572.7	19856.5	21220.3
67.5°	11679.9	11959.0	14068.5	17299.1	21253.4	23506.4	23541.1	22259.3	21370.1	20007.8	17841.5
70°	8321.6	8540.8	10286.1	14503.7	20275.9	25882.5	26000.7	23780.8	21012.2	17743.7	12465.1
72.5°	3951.1	4085.1	5737.5	9439.5	16089.8	23714.6	23943.2	21838.3	17866.7	13136.7	6800.1
75°	1452.1	1493.1	1939.3	4015.8	9332.3	17488.3	17757.9	15654.7	11843.9	6540.0	2590.5
77.5°	870.3	897.1	1087.9	1694.9	3670.5	9996.0	10394.9	8514.0	5176.2	2434.4	1273.9
80°	608.6	627.5	780.4	1054.8	1734.3	3809.2	4164.0	3475.0	2062.3	1540.4	927.1
82.5°	411.5	421.0	548.7	712.7	1152.5	1360.7	1467.9	1545.1	1390.6	1146.2	588.1
85°	269.6	279.1	372.1	469.8	733.1	703.2	719.0	909.7	1015.4	778.9	326.4
87.5°	154.5	160.8	223.9	250.7	359.5	298.0	301.1	479.3	649.6	525.0	198.7
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°	3760.3	3760.3	3760.3	3760.3	3760.3	3760.3	3760.3	3760.3	3760.3	3760.3	3760.3
2.5°	3746.1	3725.7	3679.9	3651.5	3624.7	3618.4	3607.4	3605.8	3604.2	3604.2	3599.5
5°	3662.6	3627.9	3556.9	3517.5	3484.4	3481.3	3479.7	3487.6	3490.7	3493.9	3489.2
7.5°	3609.0	3561.7	3473.4	3416.6	3377.2	3367.7	3383.5	3419.8	3443.4	3452.9	3448.2
10°	3575.9	3517.5	3415.0	3353.6	3320.4	3315.7	3336.2	3378.8	3427.7	3446.6	3445.0
12.5°	3538.0	3471.8	3363.0	3298.4	3279.5	3288.9	3315.7	3355.1	3405.6	3435.5	3437.1
15°	3500.2	3422.9	3311.0	3254.2	3246.3	3259.0	3284.2	3314.1	3353.6	3383.5	3386.7
17.5°	3454.5	3374.1	3262.1	3203.8	3197.5	3203.8	3205.4	3221.1	3246.3	3274.7	3282.6
20°	3405.6	3323.6	3206.9	3148.6	3120.2	3095.0	3066.6	3069.8	3077.6	3106.0	3112.3
22.5°	3370.9	3288.9	3164.4	3083.9	3008.3	2932.6	2875.8	2867.9	2871.1	2894.7	2902.6
25°	3374.1	3287.3	3153.3	3014.6	2849.0	2727.6	2651.9	2639.3	2637.8	2655.1	2666.1
27.5°	3435.5	3348.8	3194.3	2943.6	2675.6	2495.9	2415.4	2406.0	2393.4	2398.1	2410.7
30°	3572.7	3492.3	3293.6	2871.1	2488.0	2268.8	2185.3	2175.8	2158.4	2150.6	2160.0
32.5°	3796.6	3730.4	3438.7	2801.7	2300.3	2074.9	1989.7	1969.2	1958.2	1948.8	1956.6
35°	4168.7	4140.3	3632.6	2726.0	2134.8	1925.1	1847.8	1816.3	1800.5	1817.9	1830.5
37.5°	4752.1	4767.8	3886.5	2607.8	2007.1	1825.8	1761.1	1724.9	1701.2	1715.4	1729.6
40°	5578.2	5589.3	4167.1	2440.7	1896.7	1767.4	1698.1	1665.0	1631.8	1606.6	1605.0
42.5°	6663.0	6551.0	4443.0	2259.4	1769.0	1731.2	1653.9	1612.9	1562.5	1493.1	1478.9
45°	7949.5	7556.9	4652.7	2051.2	1625.5	1687.0	1605.0	1548.3	1469.4	1393.8	1385.9
47.5°	9431.6	8636.9	4755.2	1835.2	1491.5	1622.4	1545.1	1455.3	1355.9	1318.1	1313.4
50°	11241.6	9918.8	4804.1	1625.5	1374.8	1537.2	1458.4	1352.8	1269.2	1261.3	1256.6
52.5°	13302.3	11460.8	4819.9	1453.7	1278.7	1426.9	1387.5	1285.0	1218.8	1225.1	1225.1
55°	15459.2	13053.2	4605.4	1329.1	1190.4	1313.4	1340.2	1258.2	1203.0	1228.2	1237.7
57.5°	17439.4	14464.3	3930.6	1232.9	1106.8	1226.6	1322.8	1283.4	1245.6	1348.0	1354.4
60°	18959.4	15298.3	2935.7	1146.2	1045.3	1196.7	1368.5	1379.6	1389.0	1633.4	1666.5
62.5°	19277.8	15020.9	2018.1	1078.4	1016.9	1221.9	1452.1	1453.7	1442.6	1612.9	1633.4
65°	17816.3	13266.0	1467.9	1040.6	993.3	1267.6	1523.1	1489.9	1417.4	1546.7	1508.9
67.5°	14149.0	9994.5	1221.9	1012.2	958.6	1264.5	1598.7	1523.1	1403.2	1515.2	1453.7
70°	9184.1	6043.3	1087.9	988.6	917.6	1204.6	1642.9	1519.9	1362.2	1409.5	1337.0
72.5°	4480.9	2702.4	998.0	953.9	875.0	1121.0	1641.3	1491.5	1319.7	1316.5	1277.1
75°	1753.2	1237.7	916.0	901.9	802.5	1026.4	1597.2	1450.5	1269.2	1218.8	1204.6
77.5°	1026.4	882.9	812.0	824.6	715.8	931.8	1532.5	1379.6	1199.8	1139.9	1124.2
80°	747.3	660.6	692.2	712.7	611.7	837.2	1445.8	1292.9	1122.6	1152.5	1130.5
82.5°	479.3	425.7	561.3	581.8	509.3	741.0	1351.2	1201.4	1013.8	920.8	898.7
85°	244.4	269.6	417.8	443.0	392.6	608.6	1236.1	1080.0	890.8	766.3	778.9
87.5°	137.2	184.5	266.5	298.0	277.5	468.3	1002.8	890.8	726.8	591.2	520.3
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)