

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: P193307

Luminaire Tested: **GLEON-AF-09-LED-E1-T4W-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193307
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-09-LED-E1-T4W-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41292.3 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B4 - 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



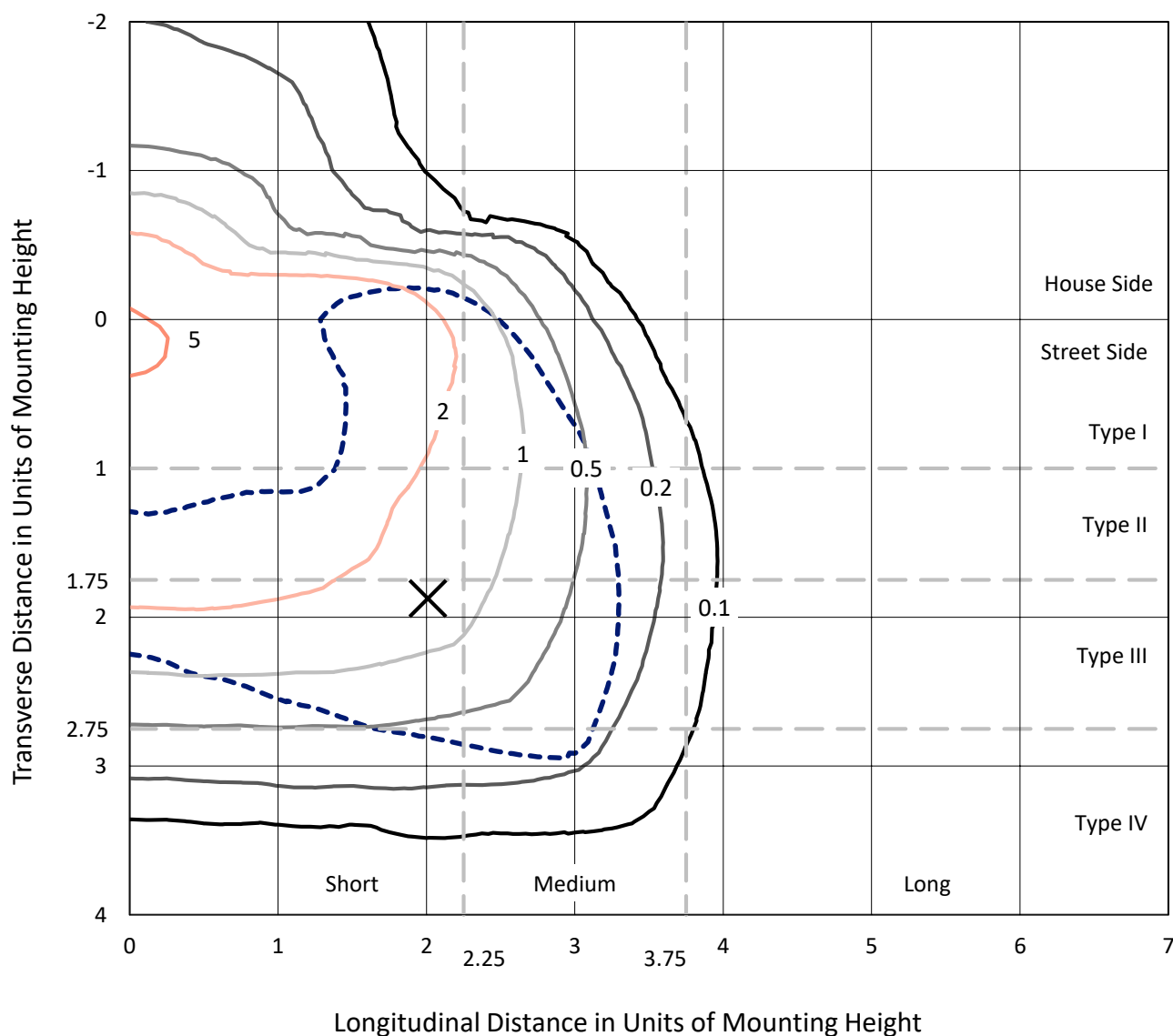
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

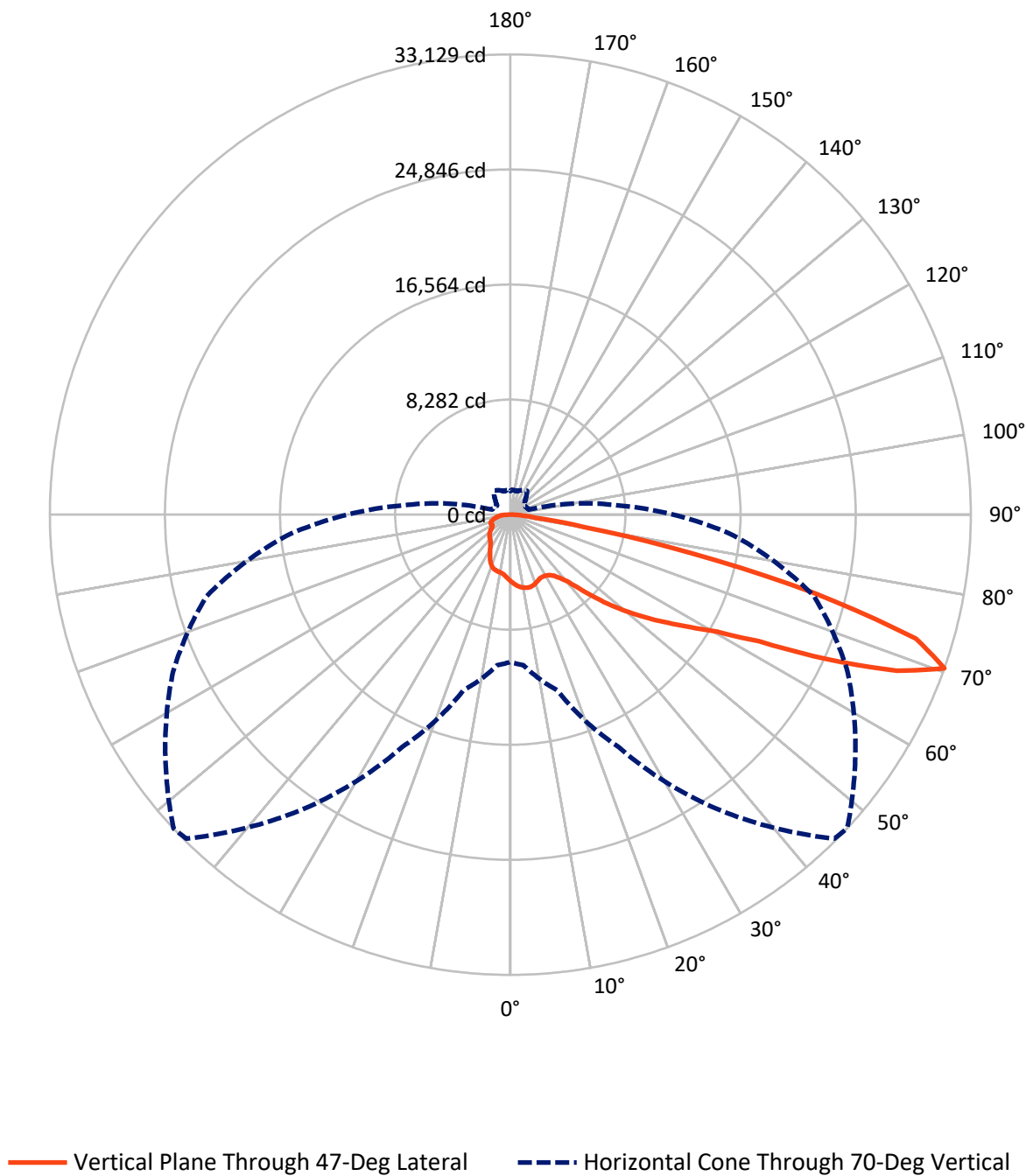


Based on 30 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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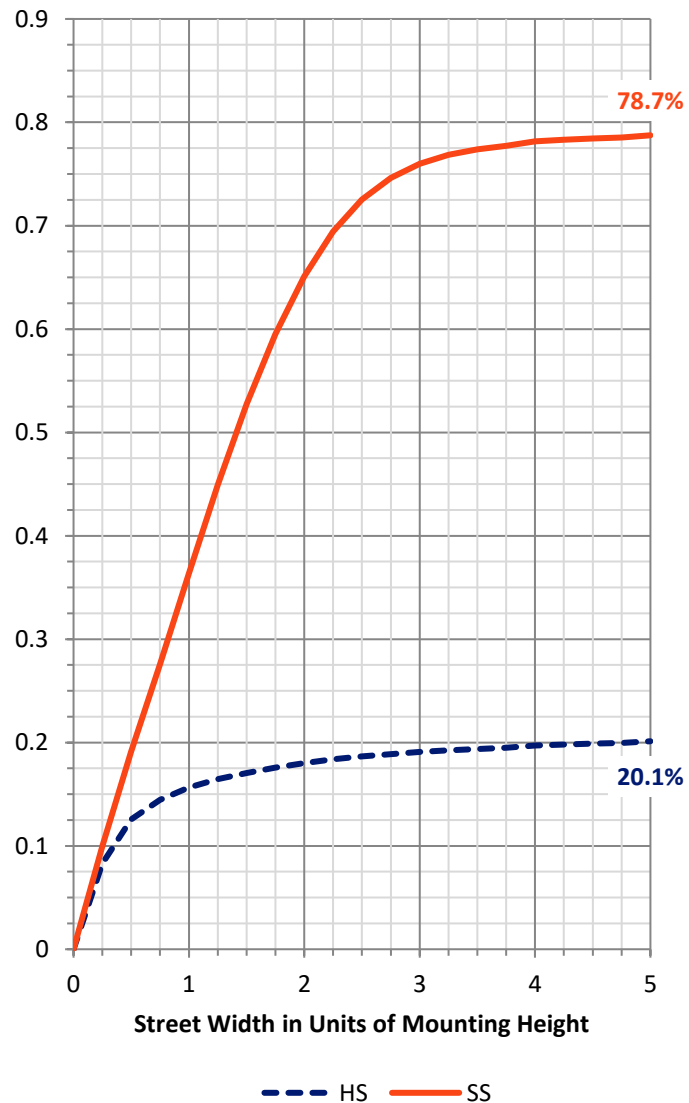
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8614.4	0.0	8614.4
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	32678.0	0.0	32678.0
	% Fixture	79.1	0.0	79.1
Total	Lumens	41292.3	0.0	41292.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	459.1	1.1
10°-20°	1346.8	3.3
20°-30°	1988.9	4.8
30°-40°	2890.8	7.0
40°-50°	5202.4	12.6
50°-60°	9012.7	21.8
60°-70°	12863.7	31.2
70°-80°	6603.5	16.0
80°-90°	924.5	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°	41292.3	100.0
0°-180°	41292.3	100.0

Coefficient of Utilization



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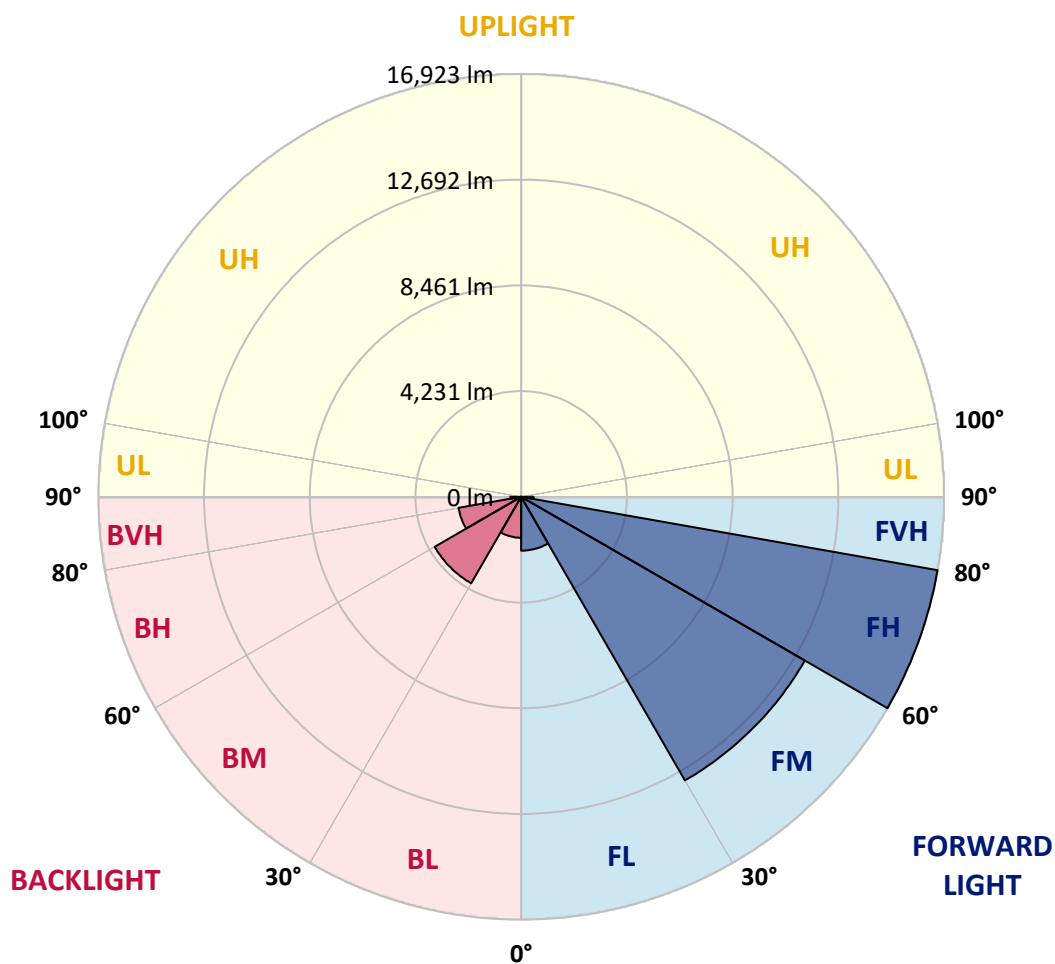
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2154.6	5.2			
FM	(30°-60°)	13107.3	31.7			
FH	(60°-80°)	16922.7	41.0			G5
FVH	(80°-90°)	493.3	1.2			G3/500
BL	(0°-30°)	1640.2	4.0	B3/2500		
BM	(30°-60°)	3998.5	9.7	B3/5000		
BH	(60°-80°)	2544.4	6.2	B4/5000		G4/5000
BVH	(80°-90°)	431.2	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°	4791.2	4791.2	4791.2	4791.2	4791.2	4791.2	4791.2	4791.2	4791.2	4791.2	4791.2
2.5°	5072.5	5062.4	5058.3	5050.3	5040.3	4990.1	4980.0	4943.9	4893.6	4841.4	4787.2
5°	5405.9	5404.0	5381.8	5341.6	5277.3	5166.9	5140.7	5052.3	4933.8	4819.3	4704.8
7.5°	5699.2	5681.2	5639.0	5558.6	5446.1	5295.5	5259.3	5136.8	4974.0	4817.3	4662.6
10°	5914.2	5904.2	5811.7	5701.2	5554.5	5387.8	5345.6	5209.1	5030.3	4831.3	4638.5
12.5°	6036.7	6016.6	5910.2	5777.5	5602.9	5440.0	5397.9	5259.3	5058.3	4831.3	4604.4
15°	6028.7	6014.6	5908.2	5763.5	5586.8	5444.1	5405.9	5267.3	5052.3	4811.3	4560.2
17.5°	5868.0	5874.0	5783.6	5640.9	5496.3	5387.8	5353.7	5225.1	5012.2	4771.2	4507.9
20°	5586.8	5614.9	5554.5	5428.0	5347.7	5273.3	5251.2	5142.8	4949.9	4712.9	4451.7
22.5°	5305.5	5331.7	5307.5	5201.0	5188.9	5144.8	5132.7	5054.4	4895.7	4676.8	4417.6
25°	5098.6	5122.6	5118.7	5026.3	5062.4	5060.4	5050.3	5012.2	4883.6	4676.8	4423.6
27.5°	5042.4	5050.3	5042.4	4957.9	5008.1	5048.4	5040.3	5034.2	4919.7	4735.0	4500.0
30°	5235.1	5223.1	5160.9	4990.1	5036.3	5092.6	5084.5	5088.5	5028.2	4887.6	4670.7
32.5°	6004.6	5950.4	5753.5	5273.3	5150.8	5181.0	5184.9	5251.2	5261.3	5122.6	4935.8
35°	7155.6	7095.4	6840.2	6032.6	5506.3	5401.9	5401.9	5502.3	5562.6	5460.1	5347.7
37.5°	8375.0	8308.7	8172.1	7085.4	6253.7	5785.6	5775.6	5845.9	5932.2	5956.4	5984.4
40°	9761.2	9690.9	9729.1	8266.5	7296.4	6450.5	6307.9	6257.8	6490.8	6645.3	6870.4
42.5°	11277.8	11245.7	11259.8	9582.4	8483.6	7444.9	7242.0	6982.9	7264.1	7539.3	8011.4
45°	12682.2	12710.2	12696.2	10990.6	9805.4	8658.4	8443.3	7941.2	8216.4	8688.4	9457.8
47.5°	13911.6	13795.1	13975.8	12529.5	11285.9	10016.4	9751.2	9078.2	9357.4	9940.0	11241.6
50°	15404.1	15388.1	15122.9	14582.5	13075.8	11380.3	11032.8	10253.3	10687.3	11497.0	13489.7
52.5°	16973.1	16681.8	16438.7	16179.5	14974.2	12778.5	12352.7	11424.5	12250.1	13268.7	16229.8
55°	17294.5	17164.0	17465.3	17901.2	16804.4	14230.9	13734.8	12893.0	14010.0	15293.7	19389.8
57.5°	17981.6	17979.6	18602.3	19379.8	18688.7	15771.8	15271.6	14666.9	15988.8	17613.9	22744.6
60°	18445.5	18576.1	19733.4	21241.9	20538.9	17551.6	17091.7	16713.9	18238.6	20207.4	25870.4
62.5°	18688.7	18865.5	20444.5	21997.2	23154.4	20514.7	20054.7	19510.3	21215.9	23051.9	27698.6
65°	17678.2	18025.7	20333.9	22650.2	25444.7	25318.0	25111.0	24154.8	24938.3	25300.0	27037.7
67.5°	14881.8	15237.4	17925.3	22041.5	27079.8	29950.4	29994.7	28361.5	27228.5	25492.8	22732.6
70°	10602.9	10882.1	13105.9	18479.8	25834.4	32977.9	33128.6	30300.1	26772.5	22608.0	15882.3
72.5°	5034.2	5205.0	7310.3	12027.3	20500.8	30215.6	30507.0	27825.0	22764.7	16738.1	8664.4
75°	1850.2	1902.4	2470.9	5116.6	11890.5	22282.6	22626.1	19946.3	15090.8	8332.8	3300.6
77.5°	1108.9	1143.1	1386.2	2159.5	4676.8	12736.4	13244.6	10848.1	6595.2	3101.8	1623.1
80°	775.4	799.6	994.4	1344.0	2209.8	4853.6	5305.5	4427.6	2627.5	1962.8	1181.2
82.5°	524.3	536.4	699.0	908.1	1468.5	1733.6	1870.3	1968.8	1771.8	1460.5	749.3
85°	343.5	355.5	474.0	598.6	934.1	895.9	916.0	1159.1	1293.7	992.4	415.8
87.5°	196.8	204.9	285.2	319.4	458.1	379.6	383.7	610.6	827.6	669.0	253.2
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°	4791.2	4791.2	4791.2	4791.2	4791.2	4791.2	4791.2	4791.2	4791.2	4791.2	4791.2
2.5°	4773.1	4747.0	4688.8	4652.6	4618.4	4610.4	4596.3	4594.4	4592.2	4592.2	4586.2
5°	4666.7	4622.4	4532.1	4481.9	4439.6	4435.6	4433.6	4443.7	4447.7	4451.7	4445.6
7.5°	4598.4	4538.1	4425.5	4353.2	4303.0	4290.9	4311.1	4357.3	4387.5	4399.5	4393.5
10°	4556.1	4481.9	4351.2	4272.9	4230.7	4224.7	4250.8	4305.1	4367.3	4391.4	4389.4
12.5°	4507.9	4423.6	4284.9	4202.5	4178.5	4190.5	4224.7	4274.9	4339.2	4377.4	4379.3
15°	4459.8	4361.3	4218.7	4146.4	4136.3	4152.4	4184.5	4222.7	4272.9	4311.1	4315.0
17.5°	4401.5	4299.1	4156.4	4082.0	4074.1	4082.0	4084.1	4104.1	4136.3	4172.5	4182.6
20°	4339.2	4234.8	4086.1	4011.8	3975.6	3943.5	3907.3	3911.3	3921.4	3957.5	3965.6
22.5°	4295.0	4190.5	4031.8	3929.4	3833.0	3736.5	3664.2	3654.1	3658.2	3688.3	3698.3
25°	4299.1	4188.6	4017.8	3841.0	3630.0	3475.4	3379.0	3362.9	3361.0	3383.0	3397.0
27.5°	4377.4	4266.9	4070.0	3750.6	3409.1	3180.1	3077.7	3065.6	3049.5	3055.6	3071.6
30°	4552.2	4449.7	4196.5	3658.2	3170.0	2890.8	2784.4	2772.2	2750.2	2740.1	2752.1
32.5°	4837.5	4753.0	4381.4	3569.8	2931.0	2643.7	2535.3	2509.1	2495.1	2483.0	2493.1
35°	5311.5	5275.4	4628.4	3473.4	2720.0	2452.9	2354.4	2314.2	2294.1	2316.3	2332.3
37.5°	6054.8	6075.0	4951.9	3322.7	2557.3	2326.2	2243.9	2197.8	2167.6	2185.6	2203.8
40°	7107.5	7121.5	5309.5	3109.7	2416.7	2252.0	2163.6	2121.4	2079.2	2047.1	2045.0
42.5°	8489.6	8347.0	5661.0	2878.8	2254.0	2205.7	2107.3	2055.0	1990.8	1902.4	1884.2
45°	10128.8	9628.6	5928.2	2613.6	2071.1	2149.4	2045.0	1972.6	1872.2	1775.9	1765.8
47.5°	12017.2	11004.7	6058.8	2338.3	1900.4	2067.1	1968.8	1854.2	1727.6	1679.5	1673.5
50°	14323.4	12637.9	6121.0	2071.1	1751.8	1958.7	1858.2	1723.7	1617.1	1607.1	1601.0
52.5°	16949.0	14602.6	6141.1	1852.2	1629.2	1818.1	1767.9	1637.2	1552.9	1560.9	1560.9
55°	19697.1	16631.6	5868.0	1693.5	1516.7	1673.5	1707.5	1603.1	1532.8	1564.9	1576.9
57.5°	22220.3	18429.6	5008.1	1570.9	1410.2	1563.0	1685.5	1635.3	1587.0	1717.5	1725.6
60°	24156.9	19492.3	3740.6	1460.5	1331.9	1524.7	1743.7	1757.8	1769.8	2081.2	2123.4
62.5°	24562.7	19138.7	2571.4	1374.1	1295.7	1556.8	1850.2	1852.2	1838.2	2055.0	2081.2
65°	22700.5	16902.7	1870.3	1325.9	1265.5	1615.2	1940.6	1898.4	1805.9	1970.7	1922.5
67.5°	18027.8	12734.3	1556.8	1289.7	1221.4	1611.1	2037.0	1940.6	1787.9	1930.5	1852.2
70°	11701.7	7700.0	1386.2	1259.5	1169.2	1534.8	2093.3	1936.6	1735.7	1795.9	1703.6
72.5°	5709.3	3443.2	1271.7	1215.4	1114.9	1428.3	2091.2	1900.4	1681.4	1677.4	1627.2
75°	2234.0	1576.9	1167.2	1149.1	1022.5	1307.9	2035.0	1848.2	1617.1	1552.9	1534.8
77.5°	1307.9	1125.0	1034.5	1050.6	912.0	1187.2	1952.7	1757.8	1528.7	1452.4	1432.4
80°	952.2	841.8	881.9	908.1	779.4	1066.7	1842.1	1647.3	1430.3	1468.5	1440.4
82.5°	610.6	542.4	715.2	741.4	648.9	944.2	1721.6	1530.7	1291.7	1173.2	1145.0
85°	311.4	343.5	532.3	564.6	500.2	775.4	1575.0	1376.1	1134.9	976.3	992.4
87.5°	174.9	235.0	339.5	379.6	353.6	596.7	1277.7	1134.9	926.1	753.4	662.9
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)