

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: P193285

Luminaire Tested: **GLEON-AF-07-LED-E1-T4FT-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193285
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: GLEON-AF-07-LED-E1-T4FT-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44938.3 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - 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

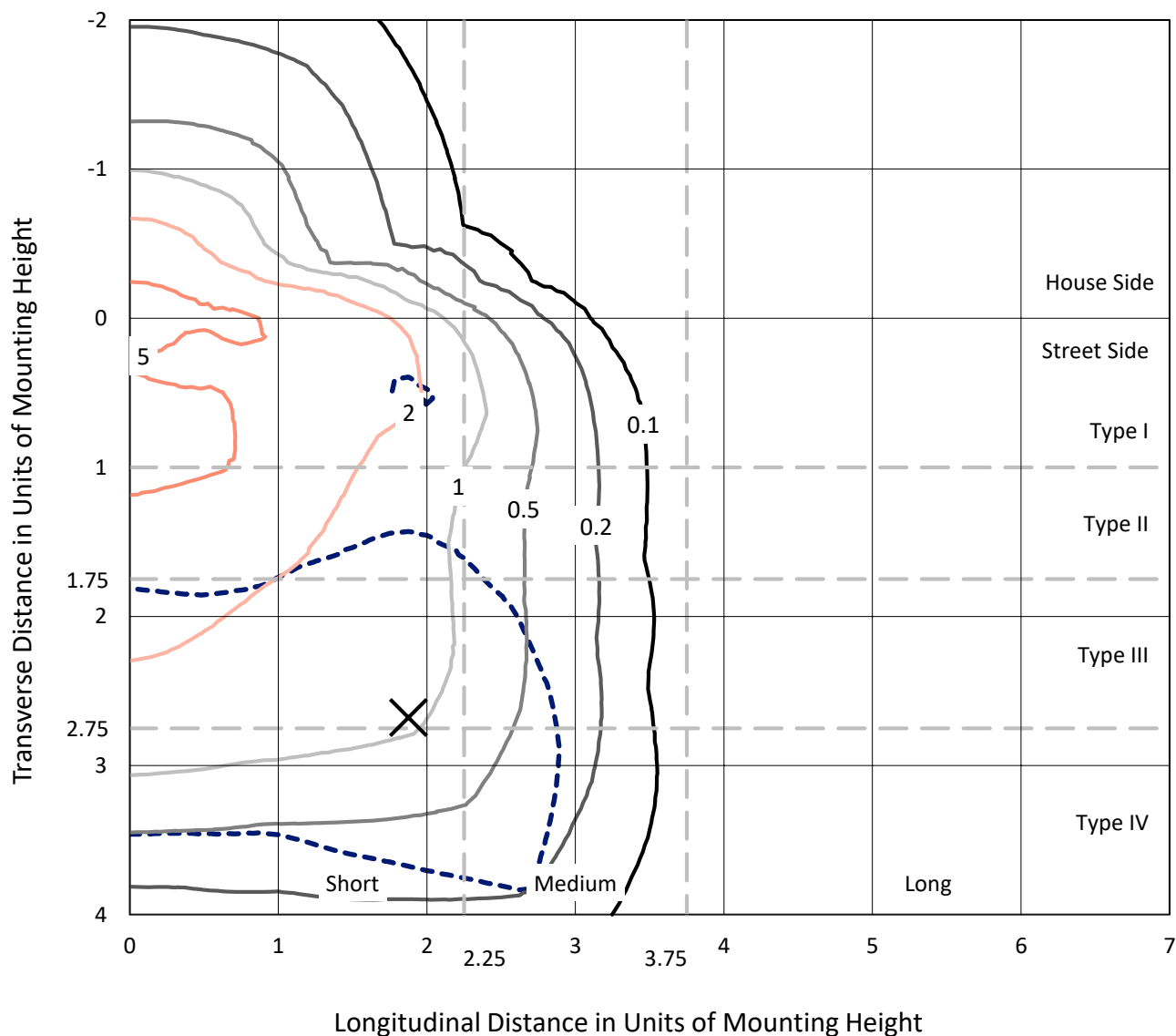


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

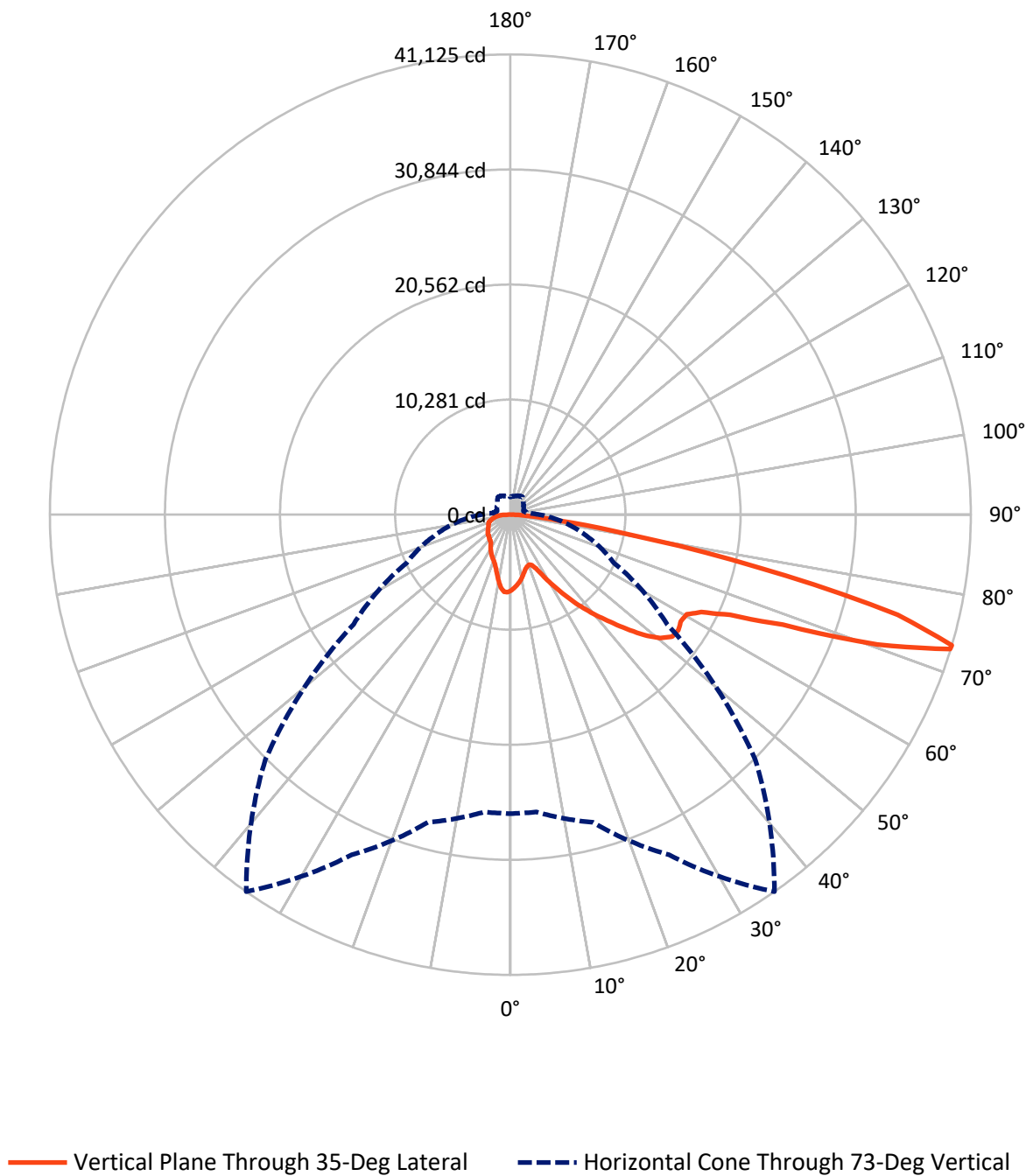


Based on 30 foot mounting height. Maximum calculated value = 7.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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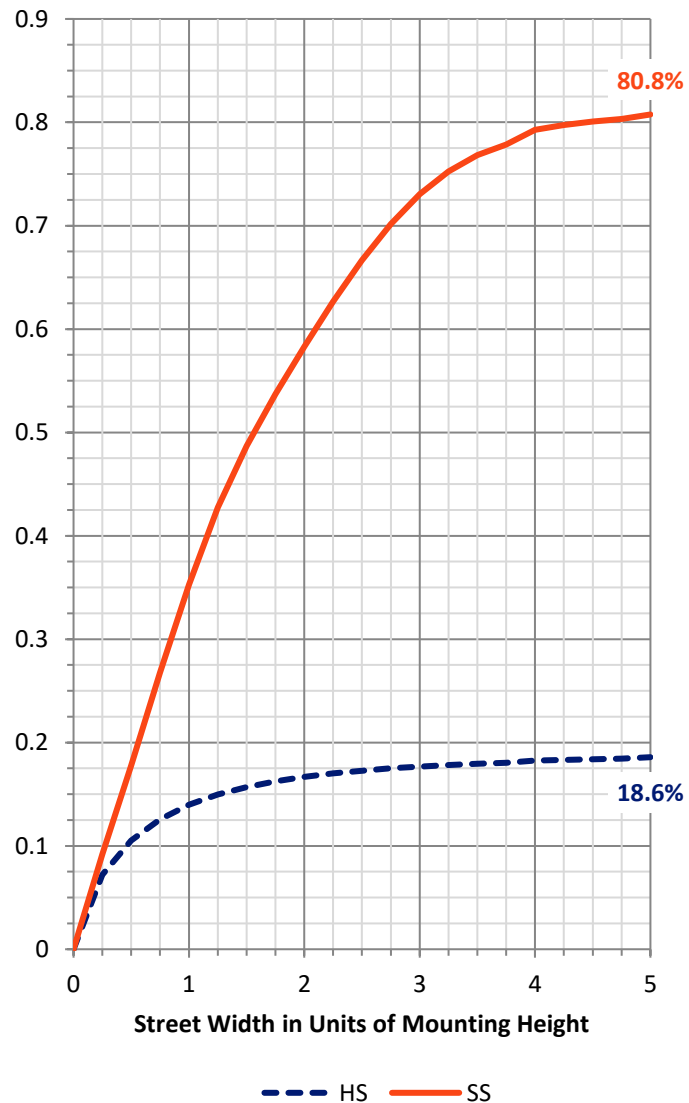
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8571.0	0.0	8571.0
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	36367.4	0.0	36367.4
	% Fixture	80.9	0.0	80.9
Total	Lumens	44938.3	0.0	44938.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	614.0	1.4
10°-20°	1532.5	3.4
20°-30°	2477.5	5.5
30°-40°	4154.4	9.2
40°-50°	6403.9	14.3
50°-60°	8591.5	19.1
60°-70°	11445.6	25.5
70°-80°	8729.5	19.4
80°-90°	989.5	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°	44938.3	100.0
0°-180°	44938.3	100.0

Coefficient of Utilization



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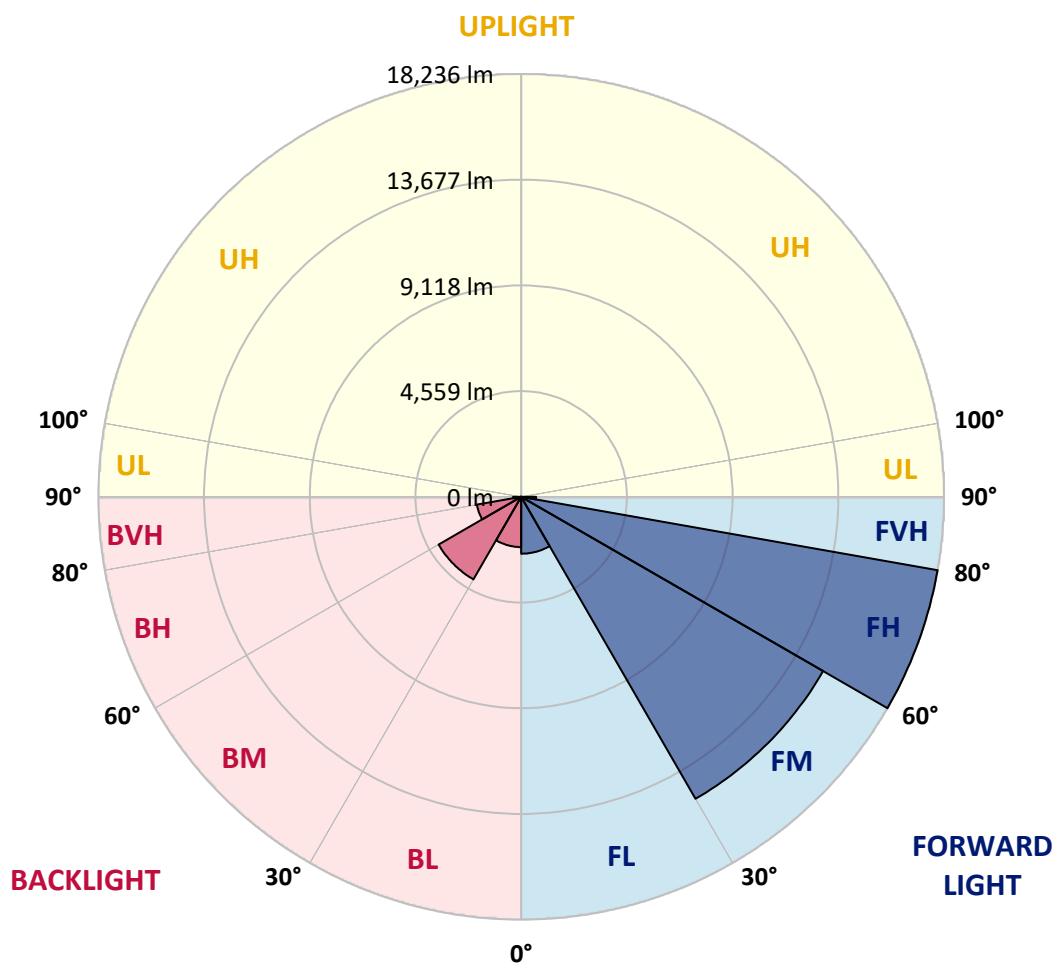
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2455.1	5.5			
FM	(30°-60°)	15036.7	33.5			
FH	(60°-80°)	18236.0	40.6			G5
FVH	(80°-90°)	639.6	1.4			G4/750
BL	(0°-30°)	2168.9	4.8	B3/2500		
BM	(30°-60°)	4113.1	9.2	B3/5000		
BH	(60°-80°)	1939.1	4.3	B3/2500		G3/2500
BVH	(80°-90°)	349.9	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°	6782.6	6782.6	6782.6	6782.6	6782.6	6782.6	6782.6	6782.6	6782.6	6782.6	6782.6
2.5°	6515.0	6527.9	6512.8	6532.3	6564.7	6599.2	6622.9	6657.3	6696.3	6750.2	6763.1
5°	6208.5	6228.0	6228.0	6262.5	6325.1	6381.2	6432.9	6489.1	6571.1	6663.9	6700.6
7.5°	5871.9	5882.7	5902.0	5953.9	6044.6	6124.4	6197.7	6288.4	6400.6	6523.7	6588.4
10°	5466.2	5481.3	5511.6	5584.9	5707.9	5817.9	5923.7	6048.9	6191.2	6344.4	6426.5
12.5°	5179.2	5174.8	5187.8	5241.8	5349.7	5483.5	5636.6	5796.4	5971.2	6150.3	6249.5
15°	5082.0	5058.3	5008.7	4995.8	5054.0	5187.8	5364.7	5561.2	5770.5	5986.4	6109.3
17.5°	5142.5	5101.6	4965.5	4866.3	4857.6	4959.1	5146.8	5367.0	5608.6	5871.9	6025.1
20°	5522.3	5425.2	5090.7	4859.9	4780.0	4829.6	4993.5	5226.6	5511.6	5861.1	6057.6
22.5°	6430.9	6288.4	5578.4	5149.0	4879.2	4818.8	4941.8	5190.1	5522.3	5994.9	6245.3
25°	7753.7	7550.8	6415.7	5869.7	5312.9	4991.4	5019.5	5274.2	5675.6	6305.7	6607.8
27.5°	8798.2	8666.6	7509.8	6886.2	6102.7	5457.6	5272.0	5485.6	5988.5	6814.9	7123.6
30°	9419.7	9339.8	8679.4	8038.5	7110.6	6199.9	5755.3	5882.7	6478.3	7520.7	7775.2
32.5°	10140.5	10093.0	9769.3	9180.2	8198.3	7175.4	6521.4	6476.2	7134.3	8368.7	8485.3
35°	10887.1	10872.0	10682.1	10259.1	9365.7	8461.5	7537.9	7231.5	7848.6	9249.3	9175.8
37.5°	11582.0	11556.2	11446.0	11200.0	10587.1	9842.6	8573.7	8006.2	8619.0	10090.8	9764.9
40°	12861.7	12658.8	12281.2	12095.5	11821.6	11005.8	9396.0	8729.2	9417.5	10893.5	10274.2
42.5°	14421.9	14091.7	13388.2	13133.6	13094.7	11922.9	9957.1	9430.5	10222.4	11689.8	10774.9
45°	15649.9	15339.0	14732.6	14411.1	14553.6	12753.8	10520.2	10179.2	11051.1	12525.1	11290.7
47.5°	16959.7	16472.0	15669.2	15766.3	16077.1	13539.3	11094.3	10984.2	11959.6	13459.4	11931.5
50°	17007.2	16633.8	16282.2	16862.6	17346.0	14262.2	11812.9	11828.0	13071.0	14635.5	12784.0
52.5°	16021.0	15941.2	16500.0	17412.8	18109.9	14834.1	12630.8	12699.9	14493.1	15986.5	13720.6
55°	15675.8	15585.1	16230.4	17220.8	18213.5	15306.6	13517.7	13642.8	16213.1	17410.7	14633.4
57.5°	16517.4	16316.7	16359.8	17130.2	17961.0	15824.6	14484.5	14737.0	18081.9	18655.9	15220.4
60°	18869.5	18440.1	17624.4	17605.0	18096.9	16601.5	15602.3	15910.9	20024.1	19251.5	14991.6
62.5°	22169.1	21739.7	20211.9	19216.9	19143.7	17883.3	16974.8	17056.8	21146.2	18444.4	13595.3
65°	25740.6	25356.5	23649.5	22244.6	21567.0	20006.8	18569.6	17568.3	20779.4	16223.8	11152.5
67.5°	30076.1	29663.9	28196.4	26899.4	26247.8	23433.7	19689.6	17078.5	18450.9	12568.2	8017.0
70°	33108.1	32687.2	32108.9	33159.8	34754.6	28377.7	19834.2	15086.5	13781.0	8353.6	4825.3
72.5°	29152.4	28956.0	30011.4	34437.3	41079.7	31377.3	17928.7	10984.2	8004.0	4434.8	2792.4
73°	26709.5	26666.4	28466.2	33541.8	41124.9	30915.5	17093.5	10209.5	6864.5	3923.3	2553.0
75°	12061.0	12408.5	16353.3	25619.7	35730.0	25475.2	12030.9	5856.9	3877.9	2710.4	1927.2
77.5°	2898.2	3019.1	5116.6	12166.8	22564.0	15181.6	5451.1	2896.0	2479.5	1914.1	1407.0
80°	1234.4	1275.4	1970.3	4495.2	10623.9	6113.6	2511.9	1940.0	1715.6	1335.8	986.2
82.5°	686.2	729.5	1117.8	2039.4	4288.0	2084.6	1532.2	1350.9	1128.6	804.9	641.0
85°	388.4	412.1	653.9	1139.5	1817.0	837.3	917.1	897.7	636.7	414.3	315.1
87.5°	183.4	198.6	315.1	528.7	712.2	328.0	466.1	513.6	399.3	252.5	164.0
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°	6782.6	6782.6	6782.6	6782.6	6782.6	6782.6	6782.6	6782.6	6782.6	6782.6
2.5°	6778.2	6817.1	6862.5	6886.2	6907.8	6933.7	6959.6	6959.6	6963.8	6966.1
5°	6730.8	6810.6	6881.9	6912.1	6918.6	6918.6	6912.1	6877.6	6847.3	6860.3
7.5°	6631.5	6748.1	6808.5	6797.7	6715.7	6620.8	6541.0	6443.8	6394.2	6385.5
10°	6489.1	6622.9	6633.6	6525.8	6323.0	6120.0	5951.8	5787.8	5710.1	5690.7
12.5°	6331.6	6454.6	6385.5	6163.2	5837.4	5541.7	5328.1	5162.0	5088.5	5069.2
15°	6204.3	6288.4	6113.6	5764.0	5354.0	5041.1	4864.1	4741.1	4689.3	4674.2
17.5°	6137.3	6154.6	5835.2	5362.7	4926.7	4665.6	4555.6	4497.2	4477.9	4467.1
20°	6169.8	6048.9	5569.8	4989.4	4577.1	4393.7	4367.7	4352.7	4348.4	4341.9
22.5°	6331.6	6016.5	5326.0	4635.5	4270.7	4190.8	4212.4	4210.3	4205.9	4201.7
25°	6620.8	6044.6	5088.5	4298.7	4013.8	3996.6	4035.5	4035.5	4018.2	4018.2
27.5°	7002.8	6102.7	4823.1	3979.3	3780.8	3783.0	3813.1	3804.5	3785.2	3772.1
30°	7468.9	6139.5	4512.4	3692.3	3562.8	3554.2	3562.8	3526.2	3467.9	3463.6
32.5°	7945.8	6094.2	4152.0	3437.8	3332.0	3312.5	3306.0	3254.3	3187.3	3168.0
35°	8377.4	5928.0	3785.2	3234.8	3111.8	3068.6	3098.9	3081.6	3021.2	3006.0
37.5°	8692.4	5619.4	3455.0	3055.8	2954.3	2943.6	2962.9	2969.4	2898.2	2883.2
40°	8903.9	5200.7	3172.3	2904.6	2924.1	2883.2	2818.4	2773.0	2751.4	2744.9
42.5°	9074.4	4764.9	2934.9	2833.4	2930.6	2811.9	2671.6	2598.1	2637.1	2654.4
45°	9270.7	4339.8	2736.3	2744.9	2898.2	2729.9	2570.3	2499.0	2514.0	2518.4
47.5°	9540.5	3821.8	2522.7	2602.5	2790.3	2673.8	2507.6	2406.2	2335.0	2302.6
50°	9913.8	3209.0	2300.5	2442.8	2684.5	2632.7	2410.5	2302.6	2171.0	2140.7
52.5°	10172.8	2637.1	2117.0	2309.0	2589.6	2550.7	2332.8	2192.5	2054.4	2028.5
55°	10032.5	2190.3	1957.3	2160.2	2464.5	2449.4	2268.0	2080.3	1972.4	1950.9
57.5°	9331.2	1907.6	1834.3	2019.8	2311.3	2363.1	2181.7	1985.4	1907.6	1892.6
60°	7993.2	1730.6	1756.6	1924.9	2186.1	2276.6	2095.4	1933.6	1881.8	1870.9
62.5°	6202.1	1612.0	1698.3	1855.9	2088.9	2216.3	2047.9	1927.2	1907.6	1894.8
65°	4443.3	1517.1	1635.7	1786.8	2000.4	2160.2	2030.7	1918.5	1922.8	1912.0
67.5°	3019.1	1432.9	1560.2	1709.2	1914.1	2110.6	2007.0	1888.2	1942.2	1929.3
70°	2112.6	1350.9	1471.7	1609.8	1806.3	2041.5	1963.8	1842.9	1838.7	1786.8
72.5°	1648.7	1243.1	1350.9	1471.7	1668.2	1944.4	1877.5	1741.5	1670.2	1616.4
73°	1573.3	1217.1	1320.7	1441.5	1637.9	1920.7	1853.7	1713.4	1633.7	1583.9
75°	1301.3	1104.9	1199.8	1307.8	1508.5	1808.4	1737.2	1586.1	1484.8	1454.5
77.5°	1022.8	945.2	1035.9	1132.9	1329.3	1644.4	1564.6	1420.0	1363.9	1338.0
80°	757.5	783.4	863.1	949.6	1152.3	1469.6	1398.4	1253.8	1504.2	1441.5
82.5°	533.0	593.5	666.8	744.5	966.8	1299.1	1212.8	1063.8	1100.6	914.9
85°	315.1	388.4	457.5	524.5	697.1	1076.9	1001.4	848.1	694.9	662.5
87.5°	183.4	215.8	235.2	304.3	479.1	811.4	705.7	628.0	360.3	243.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)