

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: P193272

Luminaire Tested: **GLEON-AF-04-LED-E1-T4FT-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193272
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-04-LED-E1-T4FT-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1050mA 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: 23362.9 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 225
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

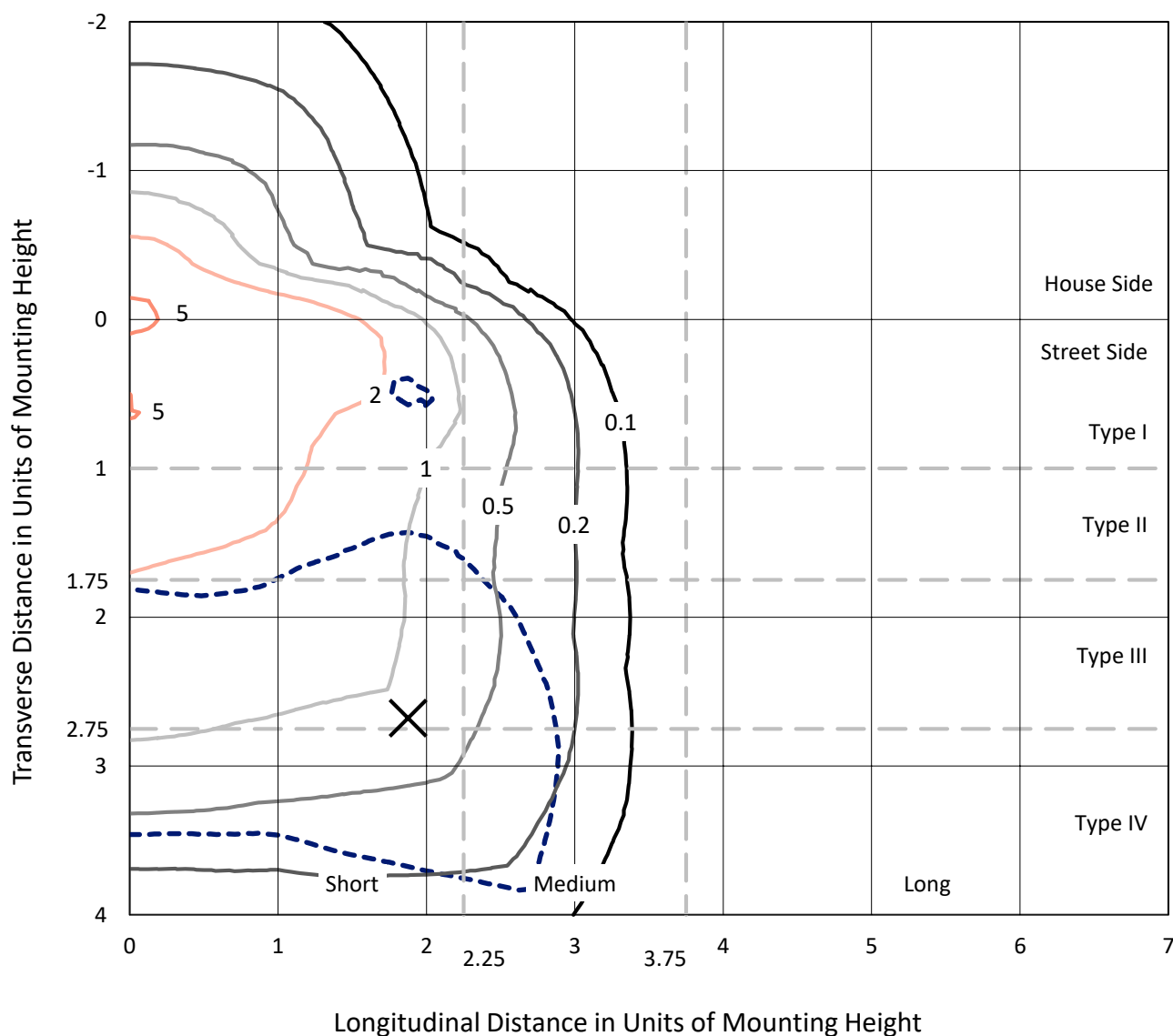


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

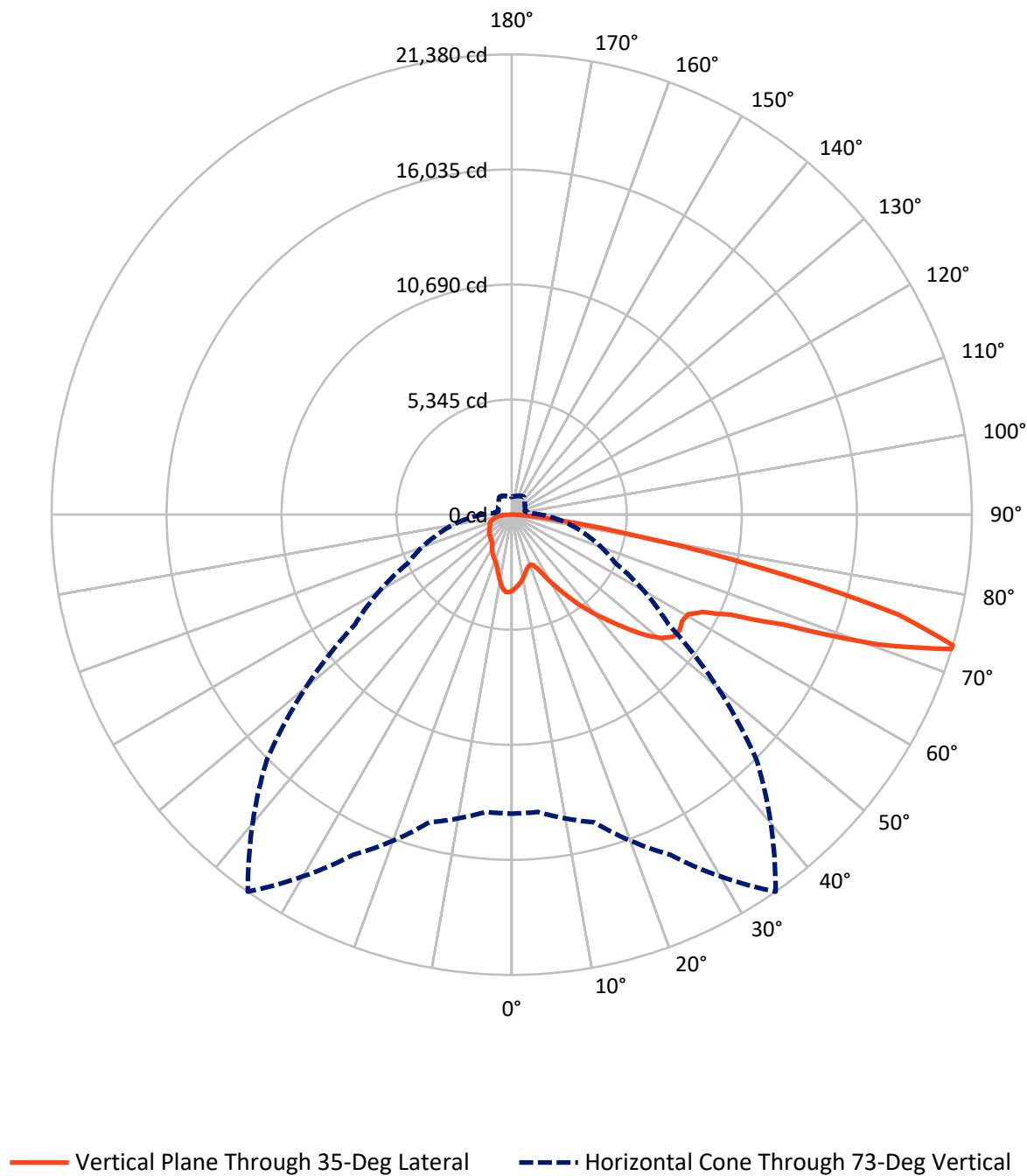


Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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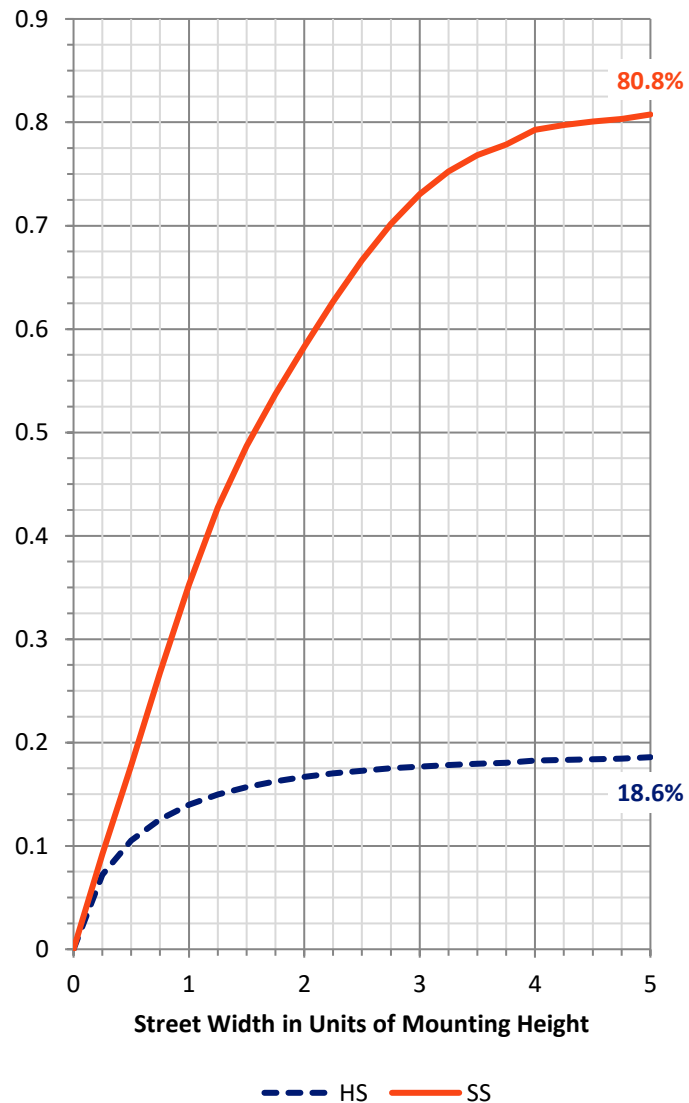
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4455.9	0.0	4455.9
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	18906.9	0.0	18906.9
	% Fixture	80.9	0.0	80.9
Total	Lumens	23362.9	0.0	23362.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.2	1.4
10°-20°	796.7	3.4
20°-30°	1288.0	5.5
30°-40°	2159.8	9.2
40°-50°	3329.3	14.3
50°-60°	4466.6	19.1
60°-70°	5950.4	25.5
70°-80°	4538.4	19.4
80°-90°	514.4	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°	23362.9	100.0
0°-180°	23362.9	100.0

Coefficient of Utilization



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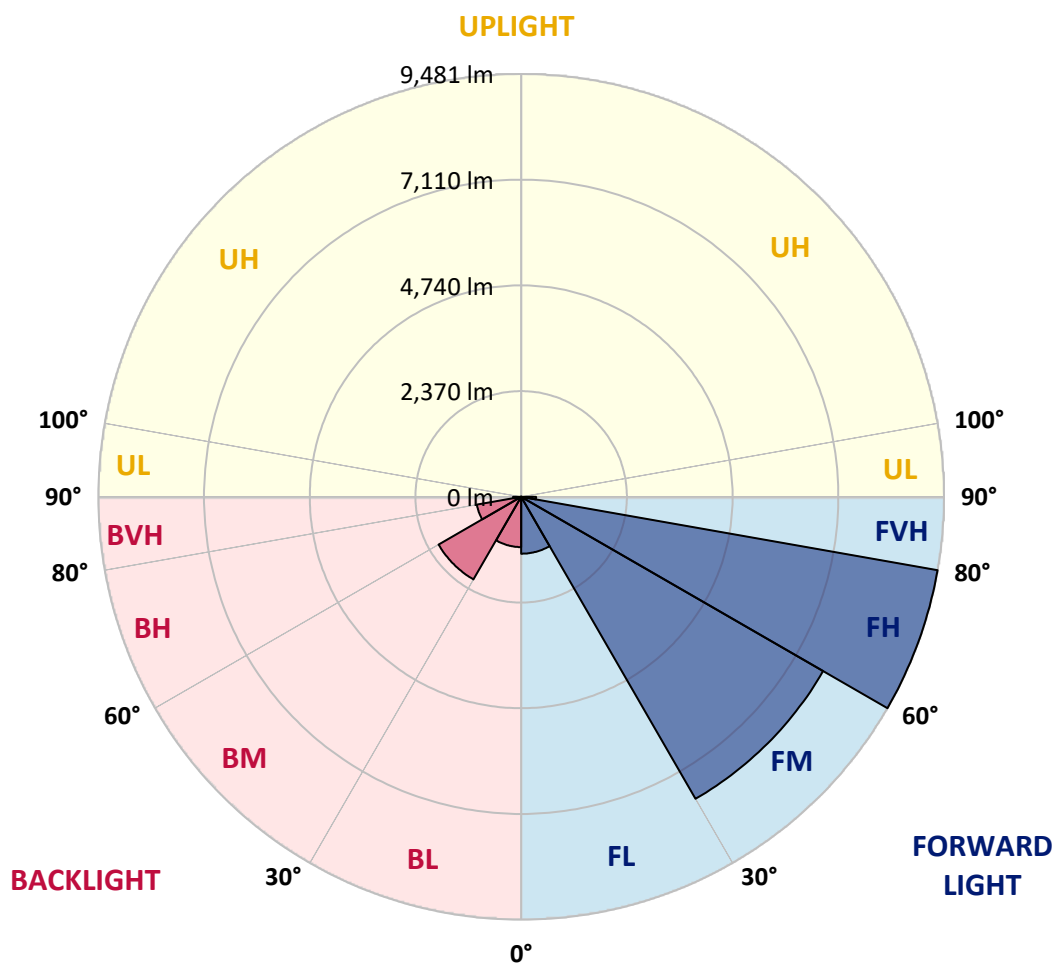
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1276.4	5.5			
FM	(30°-60°)	7817.4	33.5			
FH	(60°-80°)	9480.6	40.6			G4/12000
FVH	(80°-90°)	332.5	1.4			G3/500
BL	(0°-30°)	1127.6	4.8	B3/2500		
BM	(30°-60°)	2138.4	9.2	B2/2500		
BH	(60°-80°)	1008.1	4.3	B3/2500		G3/2500
BVH	(80°-90°)	181.9	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3526.3	3526.3	3526.3	3526.3	3526.3	3526.3	3526.3	3526.3	3526.3	3526.3	3526.3
2.5°	3387.0	3393.8	3386.0	3396.0	3412.8	3430.8	3443.2	3461.2	3481.3	3509.4	3516.1
5°	3227.7	3237.9	3237.9	3255.8	3288.3	3317.5	3344.4	3373.6	3416.2	3464.5	3483.5
7.5°	3052.7	3058.3	3068.4	3095.5	3142.6	3184.1	3222.2	3269.2	3327.6	3391.5	3425.2
10°	2841.9	2849.7	2865.5	2903.6	2967.5	3024.8	3079.7	3144.7	3218.8	3298.4	3341.0
12.5°	2692.5	2690.4	2697.1	2725.2	2781.2	2850.8	2930.5	3013.5	3104.4	3197.5	3249.1
15°	2642.1	2629.8	2603.9	2597.2	2627.5	2697.1	2789.1	2891.2	3000.0	3112.2	3176.1
17.5°	2673.6	2652.3	2581.6	2529.9	2525.4	2578.2	2675.8	2790.3	2915.9	3052.7	3132.4
20°	2871.0	2820.5	2646.6	2526.5	2485.1	2510.9	2596.1	2717.3	2865.5	3047.1	3149.2
22.5°	3343.4	3269.2	2900.2	2676.9	2536.7	2505.2	2569.2	2698.2	2871.0	3116.7	3246.8
25°	4031.0	3925.5	3335.4	3051.6	2762.2	2595.0	2609.5	2742.0	2950.6	3278.3	3435.3
27.5°	4574.0	4505.7	3904.3	3580.0	3172.8	2837.4	2740.9	2851.8	3113.4	3543.1	3703.5
30°	4897.2	4855.7	4512.4	4179.1	3696.7	3223.2	2992.2	3058.3	3368.0	3909.9	4042.3
32.5°	5271.9	5247.1	5078.9	4772.7	4262.2	3730.3	3390.5	3366.9	3709.1	4350.8	4411.4
35°	5660.0	5652.2	5553.5	5333.6	4869.1	4399.0	3918.9	3759.5	4080.4	4808.5	4770.4
37.5°	6021.4	6007.8	5950.7	5822.8	5504.2	5117.0	4457.3	4162.3	4480.9	5246.1	5076.7
40°	6686.6	6581.1	6384.8	6288.3	6145.9	5721.8	4884.9	4538.2	4896.0	5663.5	5341.4
42.5°	7497.8	7326.2	6960.4	6827.9	6807.8	6198.6	5176.4	4902.8	5314.5	6077.4	5601.7
45°	8136.1	7974.7	7659.3	7492.1	7566.2	6630.5	5469.3	5292.1	5745.3	6511.7	5869.9
47.5°	8817.1	8563.6	8146.3	8196.7	8358.4	7038.9	5767.8	5710.6	6217.6	6997.4	6203.0
50°	8841.8	8647.8	8464.9	8766.6	9017.9	7414.8	6141.4	6149.2	6795.5	7608.9	6646.2
52.5°	8329.2	8287.7	8578.2	9052.7	9415.1	7712.1	6566.6	6602.5	7534.8	8311.2	7133.2
55°	8149.6	8102.4	8438.0	8952.9	9469.0	7957.8	7027.7	7092.8	8429.1	9051.6	7607.7
57.5°	8587.1	8482.8	8505.3	8905.8	9337.8	8227.0	7530.3	7661.6	9400.5	9699.0	7912.9
60°	9810.1	9586.9	9162.7	9152.6	9408.5	8630.9	8111.5	8271.9	10410.3	10008.5	7794.0
62.5°	11525.4	11302.3	10507.9	9990.6	9952.5	9297.3	8825.0	8867.6	10993.6	9589.0	7068.1
65°	13382.3	13182.5	12295.1	11564.8	11212.4	10401.3	9654.1	9133.5	10802.9	8434.6	5798.1
67.5°	15636.2	15421.8	14659.0	13984.7	13645.9	12183.0	10236.4	8878.9	9592.4	6534.0	4167.9
70°	17212.4	16993.6	16693.0	17239.4	18068.5	14753.2	10311.6	7843.2	7164.5	4342.9	2508.6
72.5°	15156.0	15053.8	15602.6	17903.5	21356.8	16312.7	9320.9	5710.6	4161.2	2305.6	1451.7
73°	13886.0	13863.6	14799.1	17438.0	21380.4	16072.6	8886.7	5307.9	3568.9	2039.7	1327.3
75°	6270.4	6451.0	8501.9	13319.4	18575.6	13244.2	6254.6	3044.8	2016.1	1409.1	1001.9
77.5°	1506.6	1569.5	2660.0	6325.3	11730.7	7892.7	2833.9	1505.6	1289.0	995.2	731.5
80°	641.8	663.1	1024.3	2336.9	5523.2	3178.4	1305.8	1008.6	891.9	694.5	512.8
82.5°	356.7	379.2	581.1	1060.3	2229.2	1083.8	796.6	702.3	586.7	418.5	333.2
85°	201.9	214.2	339.9	592.4	944.6	435.3	476.8	466.7	330.9	215.5	163.8
87.5°	95.4	103.2	163.8	274.9	370.3	170.6	242.3	267.0	207.6	131.2	85.2
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3526.3	3526.3	3526.3	3526.3	3526.3	3526.3	3526.3	3526.3	3526.3	3526.3
2.5°	3523.9	3544.2	3567.8	3580.0	3591.3	3604.7	3618.2	3618.2	3620.5	3621.5
5°	3499.2	3540.8	3577.8	3593.5	3596.9	3596.9	3593.5	3575.5	3559.8	3566.6
7.5°	3447.6	3508.2	3539.7	3534.0	3491.4	3442.0	3400.5	3350.0	3324.2	3319.8
10°	3373.6	3443.2	3448.8	3392.7	3287.2	3181.7	3094.2	3009.0	2968.6	2958.5
12.5°	3291.7	3355.7	3319.8	3204.2	3034.7	2881.0	2770.0	2683.6	2645.5	2635.4
15°	3225.6	3269.2	3178.4	2996.7	2783.5	2620.8	2528.8	2464.9	2437.9	2430.0
17.5°	3190.7	3199.6	3033.7	2788.0	2561.4	2425.5	2368.4	2338.0	2328.0	2322.5
20°	3207.6	3144.7	2895.7	2594.0	2379.5	2284.2	2270.7	2262.9	2260.7	2257.3
22.5°	3291.7	3127.9	2768.8	2409.9	2220.2	2178.7	2190.0	2188.9	2186.6	2184.4
25°	3442.0	3142.6	2645.5	2234.9	2086.8	2077.8	2098.0	2098.0	2089.0	2089.0
27.5°	3640.6	3172.8	2507.5	2068.9	1965.6	1966.7	1982.4	1977.9	1967.9	1961.1
30°	3883.0	3191.9	2345.9	1919.5	1852.3	1847.8	1852.3	1833.3	1802.9	1800.7
32.5°	4130.9	3168.3	2158.5	1787.3	1732.2	1722.2	1718.7	1691.9	1657.0	1647.0
35°	4355.3	3081.8	1967.9	1681.7	1617.8	1595.4	1611.0	1602.1	1570.7	1562.9
37.5°	4519.1	2921.5	1796.2	1588.6	1535.8	1530.2	1540.4	1543.8	1506.6	1498.9
40°	4629.0	2703.8	1649.3	1510.1	1520.3	1498.9	1465.2	1441.6	1430.4	1427.0
42.5°	4717.7	2477.2	1525.8	1473.1	1523.5	1461.9	1388.9	1350.8	1370.9	1380.0
45°	4819.8	2256.2	1422.5	1427.0	1506.6	1419.3	1336.2	1299.2	1307.1	1309.3
47.5°	4960.1	1986.9	1311.5	1353.0	1450.6	1390.1	1303.7	1250.9	1213.9	1197.1
50°	5154.1	1668.3	1196.0	1270.0	1395.7	1368.7	1253.2	1197.1	1128.6	1113.0
52.5°	5288.7	1370.9	1100.6	1200.4	1346.3	1326.1	1212.8	1139.9	1068.1	1054.6
55°	5215.8	1138.7	1017.5	1123.0	1281.3	1273.4	1179.1	1081.5	1025.4	1014.3
57.5°	4851.2	991.7	953.7	1050.1	1201.6	1228.5	1134.2	1032.2	991.7	983.9
60°	4155.5	899.7	913.2	1000.7	1136.6	1183.6	1089.5	1005.1	978.3	972.7
62.5°	3224.3	838.0	883.0	964.9	1086.0	1152.2	1064.7	1001.9	991.7	985.1
65°	2310.1	788.8	850.4	928.9	1040.0	1123.0	1055.8	997.4	999.6	994.0
67.5°	1569.5	744.9	811.1	888.6	995.2	1097.2	1043.4	981.7	1009.8	1003.0
70°	1098.4	702.3	765.2	836.9	939.1	1061.4	1020.9	958.1	955.9	928.9
72.5°	857.1	646.3	702.3	765.2	867.2	1010.8	976.1	905.4	868.4	840.3
73°	818.0	632.7	686.5	749.4	851.5	998.5	963.7	890.8	849.3	823.5
75°	676.6	574.3	623.8	679.9	784.3	940.1	903.1	824.6	771.9	756.2
77.5°	531.8	491.4	538.5	589.0	691.1	855.0	813.4	738.3	709.1	695.6
80°	393.8	407.2	448.7	493.7	599.1	764.0	727.0	651.8	782.0	749.4
82.5°	277.1	308.5	346.7	387.1	502.6	675.4	630.5	553.1	572.2	475.8
85°	163.8	201.9	237.8	272.6	362.4	559.9	520.6	440.9	361.2	344.3
87.5°	95.4	112.2	122.3	158.2	249.1	421.8	366.9	326.4	187.4	126.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)