

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: P192992

Luminaire Tested: **GLEON-AF-04-LED-E1-SL4-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192992
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
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-SL4-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22067.1 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - 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

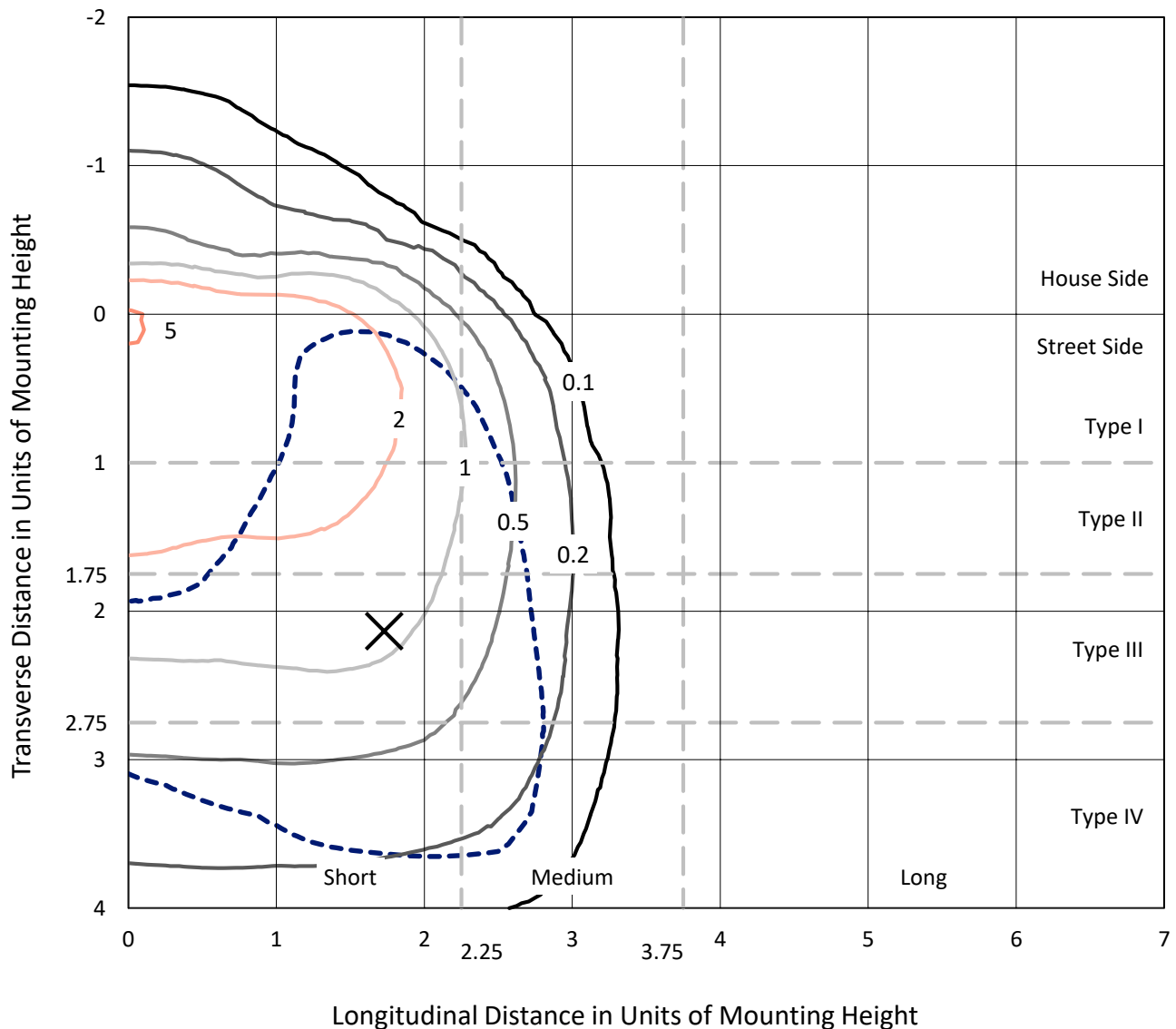


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

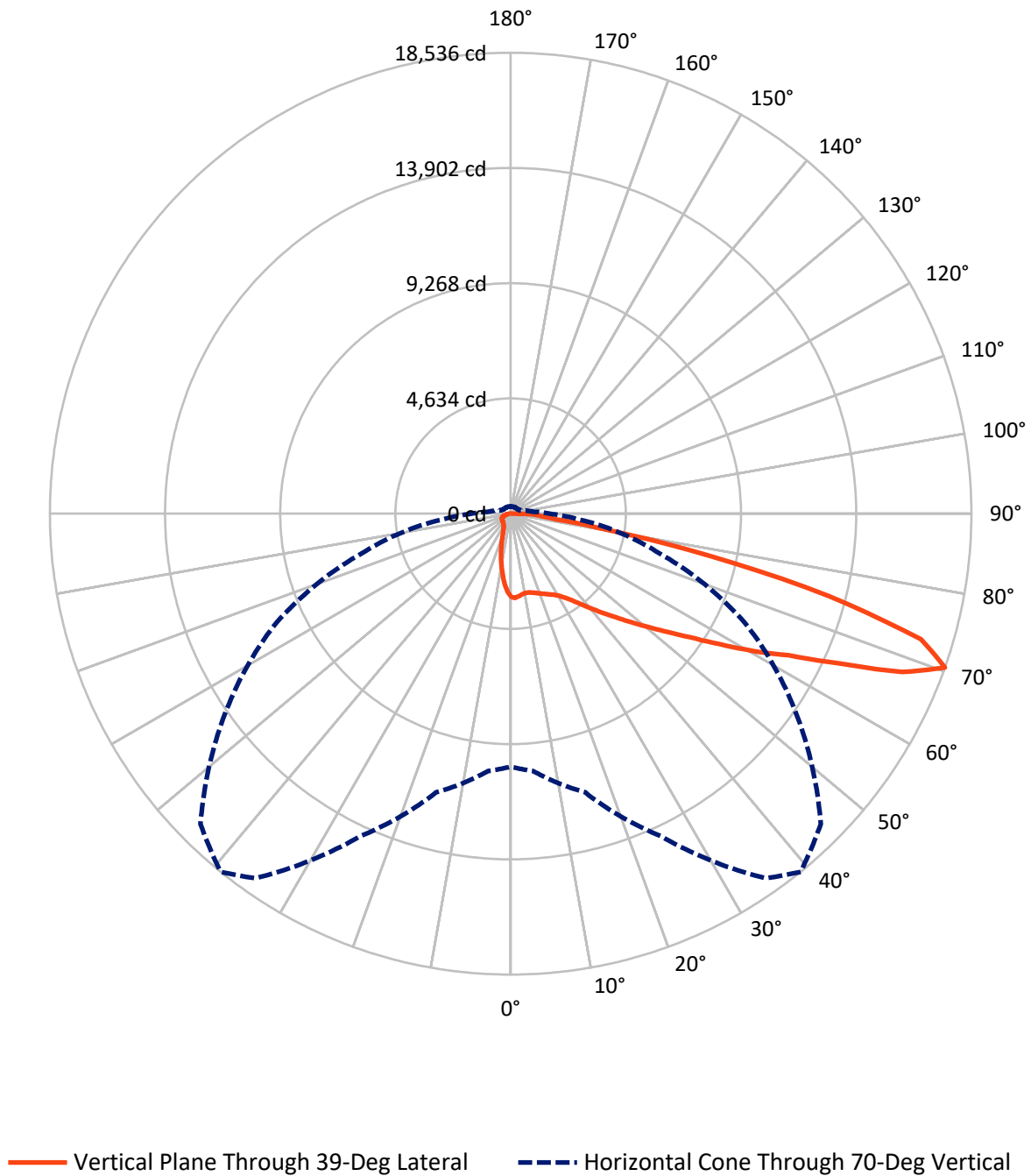


Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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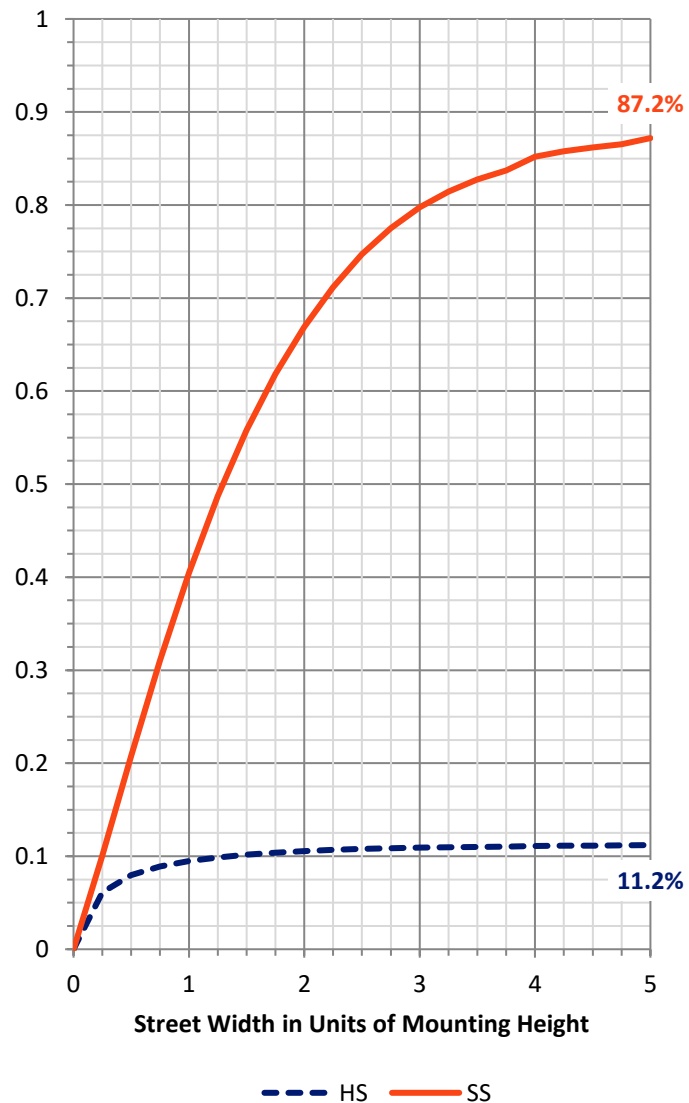
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2509.8	0.0	2509.8
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	19557.3	0.0	19557.3
	% Fixture	88.6	0.0	88.6
Total	Lumens	22067.1	0.0	22067.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.5	1.3
10°-20°	718.6	3.3
20°-30°	1119.0	5.1
30°-40°	1743.1	7.9
40°-50°	2926.4	13.3
50°-60°	4648.9	21.1
60°-70°	6201.1	28.1
70°-80°	3744.7	17.0
80°-90°	677.7	3.1
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°	22067.1	100.0
0°-180°	22067.1	100.0

Coefficient of Utilization



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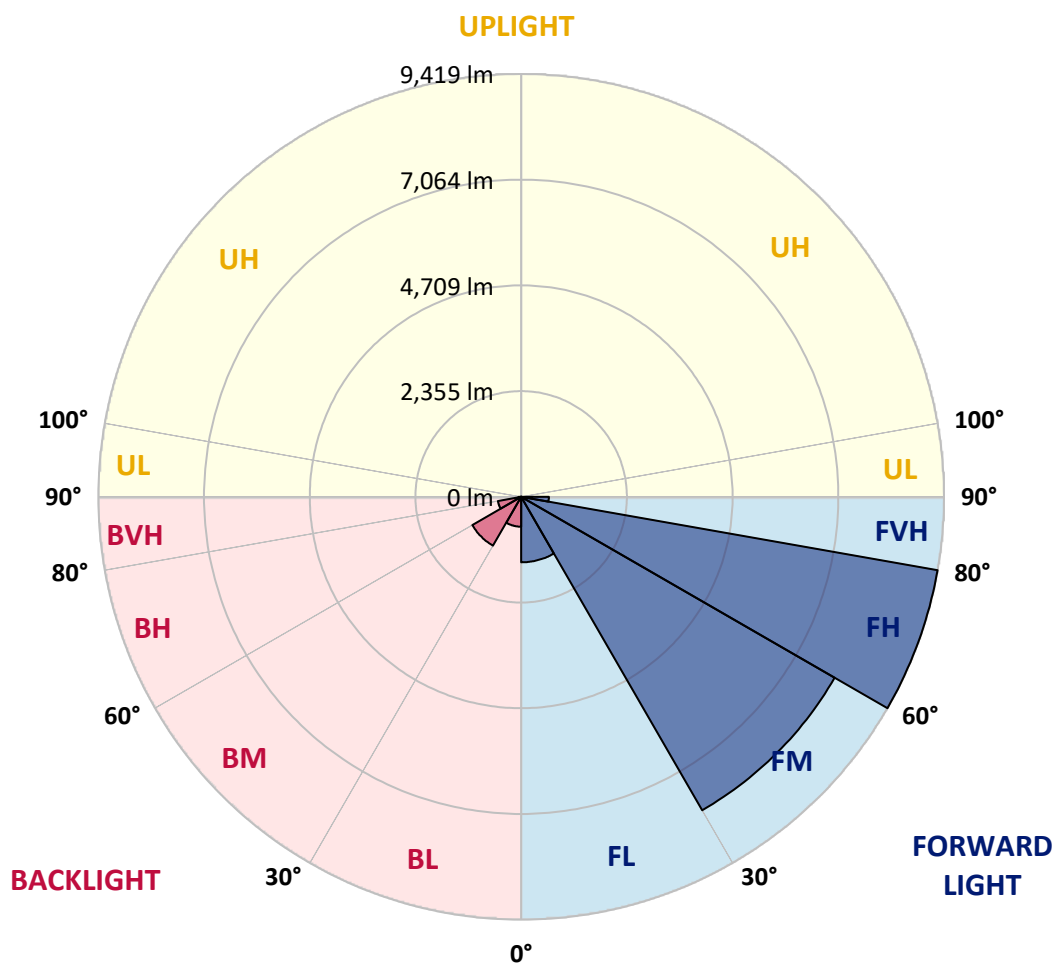
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1459.3	6.6			
FM	(30°-60°)	8062.5	36.5			
FH	(60°-80°)	9418.9	42.7			G4/12000
FVH	(80°-90°)	616.7	2.8			G4/750
BL	(0°-30°)	665.8	3.0	B2/1000		
BM	(30°-60°)	1256.0	5.7	B2/2500		
BH	(60°-80°)	526.9	2.4	B2/1000		G2/1000
BVH	(80°-90°)	61.1	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3350.1	3350.1	3350.1	3350.1	3350.1	3350.1	3350.1	3350.1	3350.1	3350.1	3350.1
2.5°	3415.2	3414.1	3405.1	3398.4	3392.7	3390.6	3395.0	3378.2	3363.5	3345.6	3326.6
5°	3389.4	3388.2	3373.7	3360.3	3346.7	3342.2	3341.1	3310.9	3292.8	3266.0	3230.0
7.5°	3361.4	3355.8	3336.7	3314.3	3290.7	3279.4	3268.3	3228.9	3208.7	3181.8	3140.3
10°	3332.2	3325.5	3307.5	3285.1	3262.6	3245.8	3226.8	3188.5	3167.2	3147.1	3098.8
12.5°	3302.0	3296.3	3291.8	3281.7	3266.0	3251.4	3236.8	3204.2	3181.8	3158.2	3102.2
15°	3297.5	3295.2	3305.2	3311.9	3303.0	3294.0	3278.4	3250.3	3226.8	3203.2	3130.3
17.5°	3333.3	3332.2	3358.0	3375.9	3371.4	3355.8	3334.4	3303.0	3283.9	3263.7	3172.9
20°	3411.8	3417.4	3448.9	3472.4	3450.0	3427.6	3392.7	3349.1	3338.9	3329.9	3216.6
22.5°	3559.8	3565.5	3588.0	3597.0	3538.6	3506.1	3457.8	3401.8	3395.0	3401.8	3269.4
25°	3791.1	3785.4	3782.1	3748.4	3641.8	3591.4	3529.6	3471.2	3474.7	3504.9	3343.5
27.5°	4097.3	4067.0	4019.9	3918.9	3749.6	3693.4	3618.2	3564.4	3585.8	3644.2	3454.4
30°	4414.8	4381.2	4272.4	4107.5	3890.9	3829.2	3745.1	3684.4	3740.6	3832.6	3602.6
32.5°	4708.8	4704.2	4544.9	4333.0	4086.1	4032.3	3948.1	3879.7	3970.6	4110.8	3824.7
35°	5029.6	5039.8	4849.0	4594.4	4349.8	4293.7	4233.1	4181.5	4302.6	4495.6	4146.7
37.5°	5373.1	5393.1	5167.6	4880.5	4650.5	4626.9	4591.0	4568.5	4755.9	5022.9	4596.6
40°	5831.8	5811.7	5498.7	5203.6	5019.6	5018.5	5007.3	5034.1	5346.0	5711.8	5174.4
42.5°	6323.3	6263.9	5849.8	5550.3	5424.6	5462.8	5485.2	5595.1	6056.2	6548.8	5879.0
45°	6852.8	6719.3	6214.4	5917.2	5874.6	5955.2	6031.5	6270.5	6892.1	7501.3	6650.9
47.5°	7275.8	7146.7	6591.4	6302.0	6395.1	6517.5	6664.4	7042.5	7827.8	8485.3	7412.7
50°	7609.1	7524.9	6971.8	6750.7	6968.4	7156.9	7397.0	7916.5	8801.7	9443.4	8118.4
52.5°	7932.1	7869.3	7355.5	7210.8	7641.6	7901.8	8228.4	8854.4	9800.2	10385.8	8711.9
55°	8223.8	8178.9	7768.4	7784.0	8433.6	8772.5	9183.1	9922.5	10888.4	11226.2	9214.5
57.5°	8552.6	8495.4	8239.6	8503.2	9451.3	9891.0	10425.1	11122.9	11909.5	11973.4	9597.2
60°	8883.6	8834.1	8762.4	9333.5	10743.8	11205.9	11711.9	12286.4	12945.0	12553.5	9574.7
62.5°	9170.7	9176.3	9303.2	10205.3	12009.3	12544.5	13161.5	13729.2	13881.8	12654.4	8866.7
65°	9657.8	9746.4	10124.4	11439.3	13790.9	14506.8	15264.1	15173.2	14141.0	11710.9	7348.8
67.5°	10236.6	10392.5	11158.8	13084.2	16042.6	16993.0	17285.8	15499.6	13103.3	9519.6	5238.3
70°	10178.3	10392.5	11605.4	14310.4	17898.5	18535.7	17647.1	14027.7	10404.9	6218.9	2782.4
72.5°	9038.4	9344.7	10695.5	13748.3	17313.9	17257.7	15320.2	10457.6	6181.9	2497.4	1087.1
75°	6888.7	7198.4	8360.7	10861.6	13684.4	13213.2	10870.5	5776.9	2346.1	991.7	685.5
77.5°	3962.8	4202.7	5100.3	6661.0	8681.6	8198.0	6050.7	2569.2	1142.1	691.1	535.2
80°	2212.5	2346.1	2891.2	3379.3	4254.4	3899.9	2707.2	1596.5	852.7	501.5	412.9
82.5°	1749.1	1868.0	2338.1	2131.6	1943.1	1792.8	1555.0	1421.5	681.0	316.5	246.8
85°	1528.1	1641.4	1979.1	1678.4	1327.3	1217.2	1263.2	1399.1	529.6	190.7	211.0
87.5°	1415.9	1567.4	1763.7	1293.6	1033.3	915.5	1165.7	1533.7	170.6	118.9	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3350.1	3350.1	3350.1	3350.1	3350.1	3350.1	3350.1	3350.1	3350.1	3350.1	3350.1
2.5°	3309.8	3291.8	3262.6	3236.8	3196.4	3175.1	3151.6	3134.7	3121.2	3110.1	3128.0
5°	3207.7	3174.0	3112.2	3046.0	2967.6	2905.9	2854.2	2806.0	2772.4	2749.8	2765.6
7.5°	3111.1	3056.2	2959.8	2839.6	2705.0	2590.5	2496.3	2413.3	2356.0	2319.0	2333.7
10°	3056.2	2987.7	2838.5	2650.1	2451.4	2273.0	2125.0	1997.0	1908.4	1858.0	1865.8
12.5°	3042.8	2954.1	2747.7	2488.5	2217.0	1969.0	1760.3	1583.0	1458.5	1393.5	1395.7
15°	3052.8	2939.5	2662.3	2333.7	1990.3	1677.3	1417.0	1201.7	1056.9	982.8	981.7
17.5°	3069.6	2928.2	2572.6	2166.5	1760.3	1396.8	1106.2	895.3	767.4	708.0	703.4
20°	3087.5	2910.3	2471.7	1985.9	1521.3	1136.6	866.1	701.2	620.5	588.0	585.6
22.5°	3113.4	2894.6	2367.3	1795.1	1286.8	925.7	712.5	601.4	558.8	541.9	539.6
25°	3154.9	2886.7	2256.2	1596.5	1075.9	774.1	620.5	552.0	527.2	516.1	514.9
27.5°	3224.5	2898.0	2151.9	1403.6	904.3	672.1	568.8	527.2	509.3	499.4	498.1
30°	3314.3	2932.7	2041.9	1220.7	770.9	602.4	537.4	510.5	495.9	485.7	485.7
32.5°	3463.4	2991.1	1926.4	1062.4	675.4	554.3	513.8	495.9	483.6	475.8	474.6
35°	3683.3	3101.1	1818.6	931.2	606.9	519.4	493.7	480.2	471.2	466.7	466.7
37.5°	4003.2	3274.9	1723.3	836.9	565.4	495.9	474.6	464.5	458.9	458.9	458.9
40°	4432.7	3515.1	1645.9	774.1	541.9	479.1	460.0	452.2	448.7	449.9	449.9
42.5°	4963.4	3827.0	1594.3	730.4	530.7	468.9	449.9	443.1	439.8	438.6	439.8
45°	5568.2	4181.5	1588.6	697.8	519.4	462.2	443.1	436.5	429.7	425.2	425.2
47.5°	6156.1	4541.6	1634.6	686.5	507.1	454.4	437.6	430.8	420.7	410.6	410.6
50°	6675.5	4848.0	1696.4	691.1	502.6	443.1	428.7	425.2	409.5	398.2	397.1
52.5°	7088.4	5083.5	1746.8	704.6	507.1	435.3	417.4	418.5	401.6	389.3	388.2
55°	7419.5	5238.3	1733.4	718.1	517.3	430.8	407.3	409.5	396.1	383.7	383.7
57.5°	7564.1	5181.2	1584.1	706.8	525.1	431.9	399.5	408.4	397.1	385.9	385.9
60°	7253.4	4672.9	1304.8	657.4	514.9	428.7	396.1	412.9	411.8	400.6	399.5
62.5°	6313.2	3763.0	1012.0	584.5	480.2	411.8	387.1	411.8	424.2	420.7	419.5
65°	4865.9	2680.3	773.0	506.0	433.1	383.7	363.5	385.9	402.7	407.3	406.1
67.5°	3158.2	1642.5	595.8	431.9	380.3	351.2	333.2	343.3	346.7	346.7	344.3
70°	1552.8	884.1	474.6	363.5	326.4	316.5	306.3	300.7	295.1	290.6	290.6
72.5°	766.2	577.8	390.4	307.4	281.6	277.1	274.9	268.1	263.7	258.1	255.7
75°	566.6	470.2	332.1	259.2	242.3	237.8	242.3	236.8	235.6	231.1	228.9
77.5°	465.6	400.6	286.2	222.2	207.6	199.7	206.4	207.6	208.6	201.9	199.7
80°	378.1	338.8	239.0	184.0	170.6	164.9	169.5	178.4	180.6	170.6	166.1
82.5°	272.6	277.1	193.0	143.5	132.4	128.0	136.9	148.0	150.3	135.8	132.4
85°	228.9	231.1	148.0	102.0	90.9	84.1	98.8	110.0	117.8	103.2	99.9
87.5°	95.4	135.8	85.2	57.3	50.5	43.7	52.8	58.4	70.7	65.1	63.9
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)