

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: P299733

Luminaire Tested: **GLNA-AF-07-LED-E1-SL2-8030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299733
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-07-LED-E1-SL2-8030-600-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II
w/Spill Control WITH HOUSESIDE SHEILD OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17029.8 lumens
Efficiency: N/A
Efficacy: 75.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 226
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



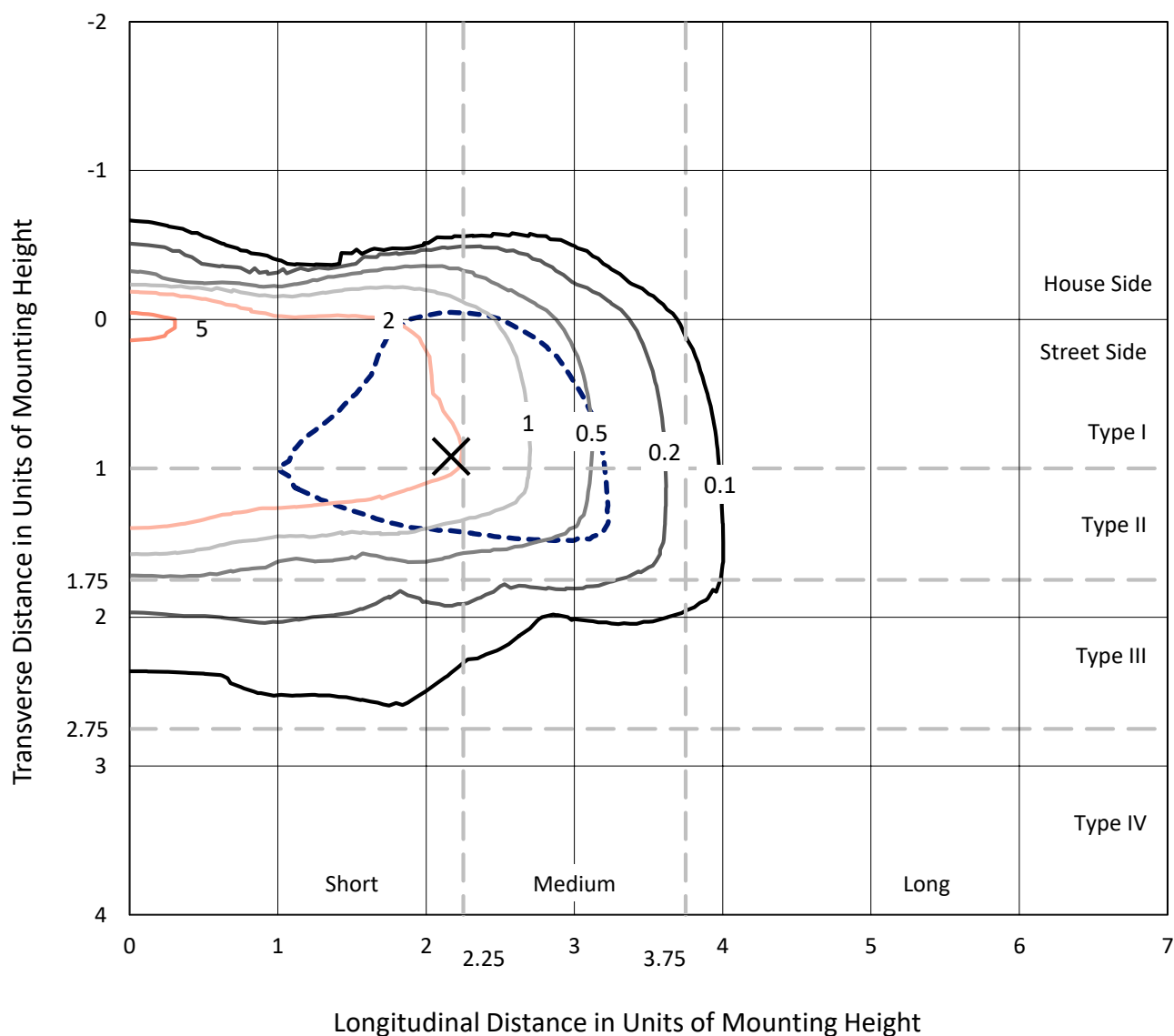
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

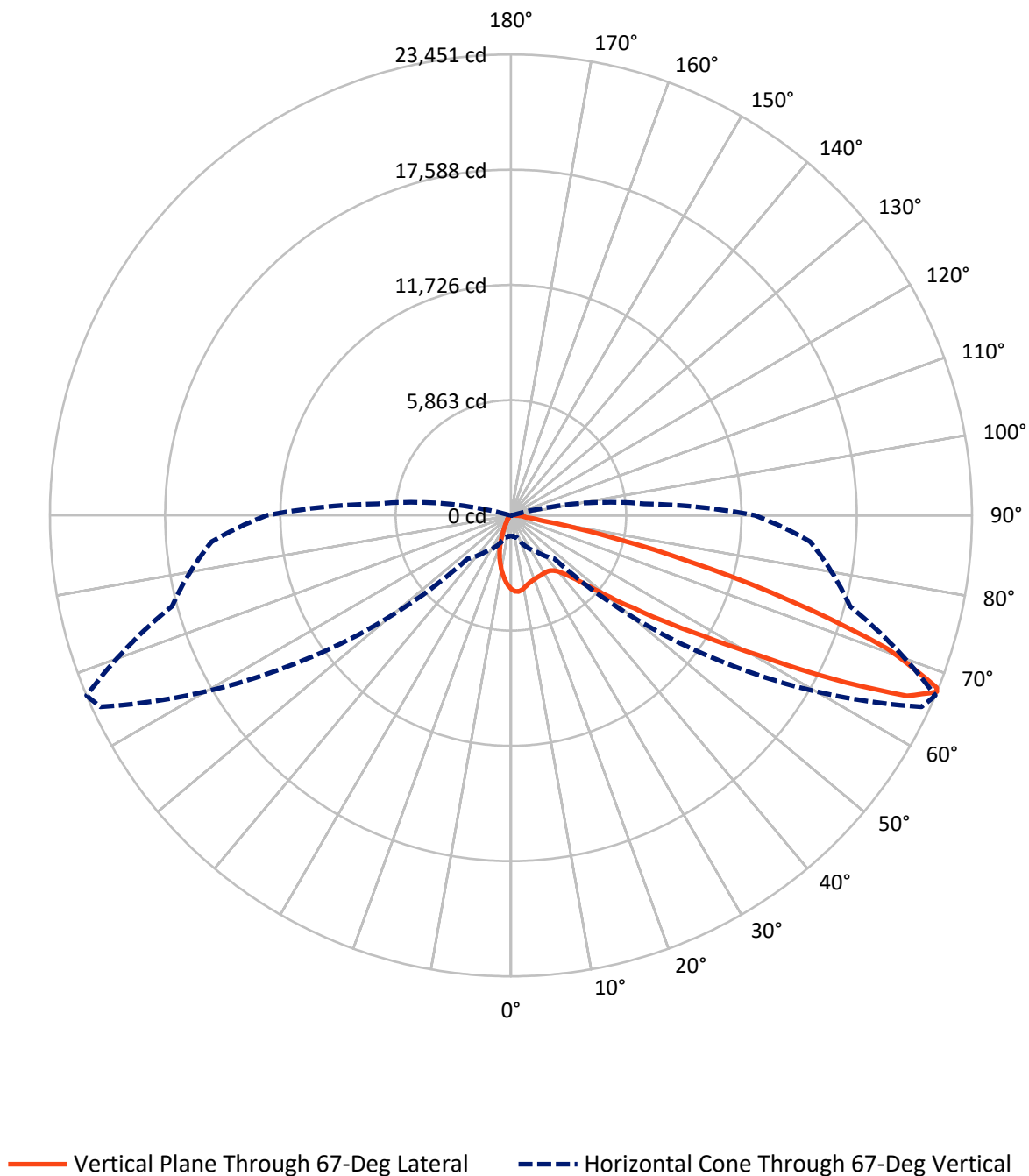


Based on 25 foot mounting height. Maximum calculated value = 6 fc
Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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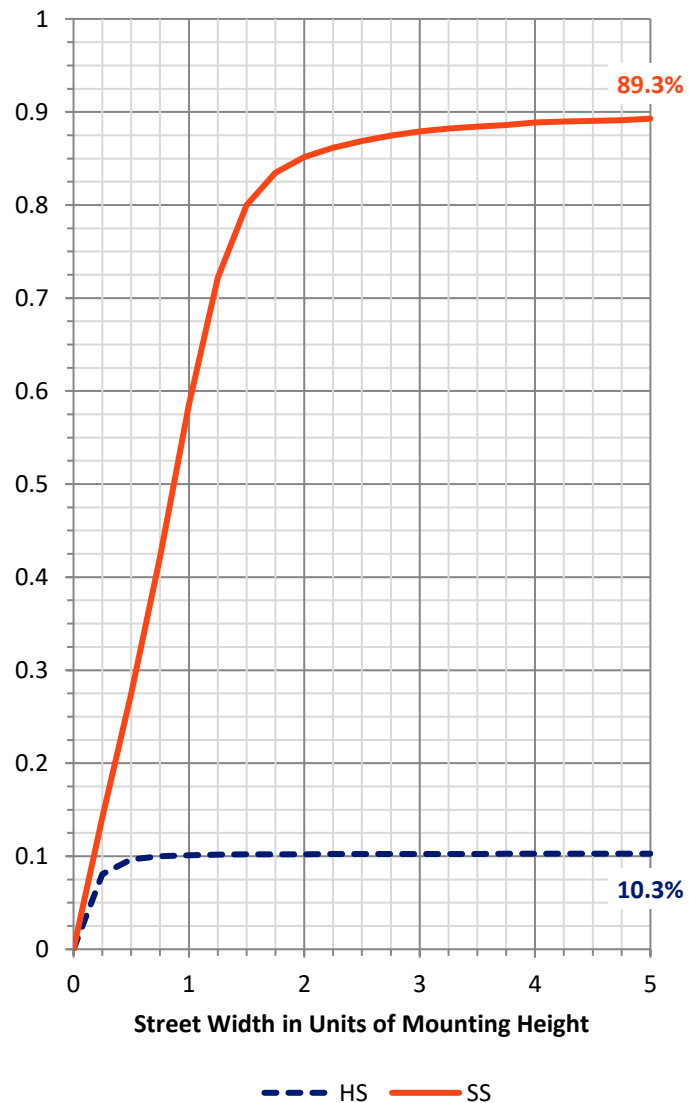
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1768.2	0.0	1768.2
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	15261.6	0.0	15261.6
	% Fixture	89.6	0.0	89.6
Total	Lumens	17029.8	0.0	17029.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.6	1.8
10°-20°	650.4	3.8
20°-30°	945.7	5.6
30°-40°	1475.3	8.7
40°-50°	2613.4	15.3
50°-60°	4135.4	24.3
60°-70°	4736.5	27.8
70°-80°	1964.7	11.5
80°-90°	202.9	1.2
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°	17029.8	100.0
0°-180°	17029.8	100.0

Coefficient of Utilization



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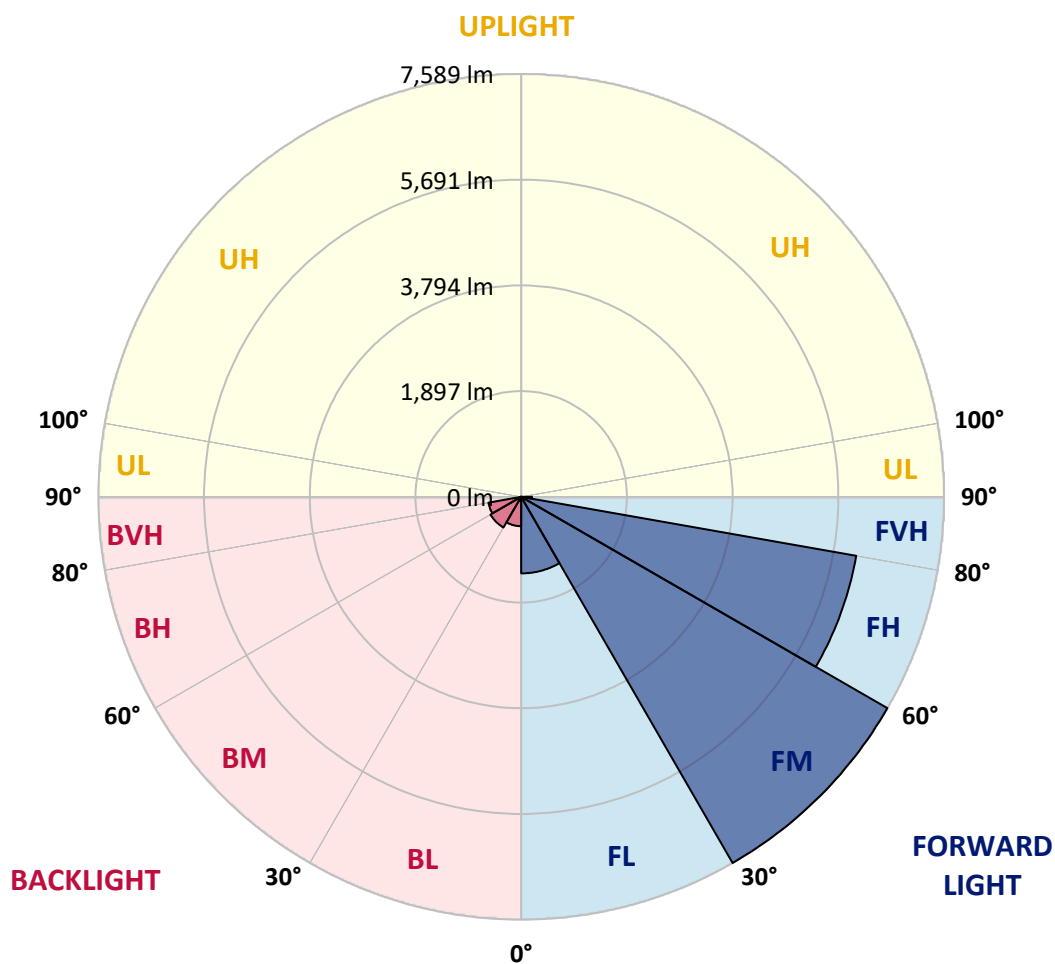
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1374.0	8.1			
FM	(30°-60°)	7588.5	44.6			
FH	(60°-80°)	6105.2	35.9			G3/7500
FVH	(80°-90°)	193.8	1.1			G2/225
BL	(0°-30°)	527.6	3.1	B2/1000		
BM	(30°-60°)	635.5	3.7	B1/1000		
BH	(60°-80°)	595.9	3.5	B2/1000		G2/1000
BVH	(80°-90°)	9.1	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3755.7	3755.7	3755.7	3755.7	3755.7	3755.7	3755.7	3755.7	3755.7	3755.7	3755.7
2.5°	3882.8	3890.8	3889.8	3895.8	3909.7	3910.7	3896.7	3869.9	3864.0	3829.2	3768.6
5°	3580.9	3603.7	3617.6	3674.2	3737.8	3814.3	3871.9	3892.8	3889.8	3865.0	3773.6
7.5°	3236.2	3259.0	3274.9	3341.5	3425.9	3557.0	3707.0	3830.2	3841.1	3867.9	3769.6
10°	3006.7	3010.7	3032.6	3096.1	3184.5	3318.6	3497.4	3713.0	3745.8	3844.1	3759.7
12.5°	2818.0	2821.0	2849.8	2918.3	3012.7	3147.8	3335.5	3584.8	3635.5	3814.3	3757.7
15°	2683.9	2694.8	2720.7	2792.2	2892.5	3026.6	3219.3	3490.5	3551.1	3803.4	3775.6
17.5°	2639.2	2651.1	2659.1	2710.7	2802.1	2933.2	3130.9	3428.9	3497.4	3809.3	3810.3
20°	2685.9	2694.8	2677.0	2689.9	2746.5	2863.7	3056.4	3376.3	3457.7	3816.3	3855.0
22.5°	2859.7	2863.7	2815.0	2758.4	2748.5	2813.0	2997.8	3334.5	3421.9	3835.2	3907.7
25°	3157.7	3150.8	3071.3	2949.1	2833.9	2804.1	2963.0	3308.7	3404.1	3855.0	3962.3
27.5°	3517.3	3527.2	3418.0	3240.2	3020.6	2863.7	2958.1	3297.8	3396.1	3868.9	4010.0
30°	3954.4	3968.3	3843.1	3619.6	3304.7	3010.7	3003.8	3295.8	3391.2	3860.0	4014.0
32.5°	4400.4	4417.2	4318.9	4088.5	3684.2	3257.1	3107.1	3317.6	3401.1	3829.2	3991.1
35°	4867.2	4891.0	4825.5	4627.8	4198.7	3612.7	3288.8	3384.2	3447.8	3826.2	3968.3
37.5°	5511.9	5533.7	5410.5	5201.0	4821.5	4089.4	3580.9	3509.4	3558.0	3873.9	3974.2
40°	6474.4	6471.4	6153.5	5832.7	5505.9	4695.4	3991.1	3735.8	3760.7	4017.9	4047.7
42.5°	7523.3	7518.3	7048.5	6560.8	6265.8	5441.3	4530.5	4127.2	4110.3	4283.1	4238.4
45°	8331.9	8330.9	7947.5	7398.2	7180.6	6297.6	5227.8	4671.5	4645.7	4714.2	4590.1
47.5°	8676.5	8682.5	8489.8	8103.4	8194.8	7455.8	6106.9	5460.2	5421.5	5393.7	5204.9
50°	8408.3	8420.3	8436.2	8360.7	8938.8	9012.3	7285.9	6571.7	6552.9	6428.7	6133.7
52.5°	7532.3	7592.8	7779.6	8019.0	9197.0	10506.2	9134.5	7952.4	7851.1	7719.0	7394.2
55°	6056.2	6122.7	6477.4	7058.4	8812.6	11487.6	11725.0	9732.4	9563.6	9169.2	8700.4
57.5°	4008.0	4111.3	4625.8	5364.9	7696.1	11645.5	14309.6	12202.8	11614.7	10535.0	10006.6
60°	2208.1	2307.5	2865.7	3535.2	5558.5	10864.8	16047.9	15419.1	14380.1	12061.7	11592.9
62.5°	1359.8	1413.5	1825.7	2448.5	3333.5	8575.2	16407.5	19460.9	18258.0	14027.5	13509.0
65°	1082.7	1105.6	1307.2	2001.5	2389.9	5100.6	15246.3	22542.1	22140.8	16407.5	15224.4
67°	1050.9	1059.9	1155.2	1718.4	2252.8	3126.9	12772.9	23043.7	23451.0	17847.8	15278.1
67.5°	1057.9	1067.8	1158.2	1640.0	2248.8	2873.6	11920.7	22846.1	23360.6	17962.0	15040.7
70°	1020.1	1050.9	1326.1	1639.0	2138.6	2387.9	7138.9	19794.6	20330.0	16689.6	12762.0
72.5°	361.6	363.6	573.1	1326.1	2325.3	2413.7	3584.8	14511.2	14907.6	12767.0	9201.0
75°	214.6	182.8	190.7	377.5	2222.0	2344.2	2068.1	9272.5	9420.5	7315.7	4659.6
77.5°	148.0	129.1	133.1	166.9	846.3	2311.4	1642.9	4835.4	4677.5	2565.7	992.3
80°	84.4	74.5	79.5	146.0	307.9	2156.5	1549.6	1960.8	1671.7	435.1	274.2
82.5°	44.7	37.7	45.7	120.2	214.6	1343.9	1552.5	947.6	750.9	147.0	186.7
85°	15.9	12.9	21.9	82.4	143.0	412.2	1439.3	796.6	625.8	71.5	142.0
87.5°	3.0	3.0	8.9	33.8	57.6	126.2	851.3	472.8	316.9	42.7	97.3
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°	3755.7	3755.7	3755.7	3755.7	3755.7	3755.7	3755.7	3755.7	3755.7	3755.7	3755.7
2.5°	3743.8	3701.1	3643.5	3572.9	3489.5	3416.0	3361.4	3304.7	3292.8	3272.9	3270.0
5°	3718.9	3645.4	3502.4	3338.5	3163.7	3005.7	2877.6	2763.4	2712.7	2669.0	2664.1
7.5°	3682.2	3571.9	3328.6	3064.4	2791.2	2542.9	2332.3	2183.3	2046.2	1980.7	1970.7
10°	3639.5	3481.5	3132.9	2766.4	2388.9	2038.3	1725.4	1463.1	1304.2	1209.8	1197.9
12.5°	3599.7	3393.1	2933.2	2457.4	1955.8	1487.0	1084.7	834.4	667.5	600.0	592.0
15°	3580.9	3321.6	2746.5	2141.6	1502.9	946.6	593.0	458.9	404.3	388.4	387.4
17.5°	3578.9	3261.0	2563.7	1814.8	1052.9	550.3	386.4	352.6	341.7	337.7	337.7
20°	3577.9	3203.4	2381.0	1476.1	668.5	366.5	321.8	313.9	305.9	301.0	301.0
22.5°	3588.8	3151.8	2190.2	1130.4	421.2	297.0	283.1	275.1	265.2	258.3	257.3
25°	3599.7	3112.0	1995.6	804.6	304.9	258.3	244.4	233.4	219.5	210.6	209.6
27.5°	3601.7	3062.4	1787.0	538.4	255.3	225.5	207.6	190.7	174.8	165.9	164.9
30°	3571.9	2978.9	1555.5	363.6	225.5	195.7	171.8	154.0	139.1	132.1	132.1
32.5°	3513.3	2875.6	1301.2	274.2	200.6	167.9	142.0	125.2	115.2	112.2	111.3
35°	3460.7	2764.4	1040.0	232.4	179.8	142.0	116.2	105.3	99.3	98.3	97.3
37.5°	3429.9	2675.0	794.6	210.6	159.9	119.2	98.3	90.4	87.4	85.4	86.4
40°	3453.7	2600.5	587.0	192.7	140.1	99.3	83.4	79.5	76.5	75.5	75.5
42.5°	3558.0	2587.6	436.1	176.8	121.2	82.4	72.5	69.5	67.5	66.6	67.5
45°	3832.2	2667.0	338.7	161.9	102.3	69.5	61.6	60.6	59.6	59.6	59.6
47.5°	4244.4	2830.9	282.1	145.0	85.4	59.6	53.6	52.6	51.7	52.6	52.6
50°	4942.7	3130.9	252.3	128.1	70.5	50.7	45.7	45.7	45.7	45.7	46.7
52.5°	6004.5	3720.9	232.4	111.3	57.6	42.7	38.7	38.7	39.7	39.7	40.7
55°	7187.6	4503.7	214.6	94.4	48.7	35.8	31.8	32.8	33.8	34.8	34.8
57.5°	8470.9	5370.8	199.7	77.5	41.7	28.8	26.8	27.8	28.8	30.8	30.8
60°	10019.5	6309.5	177.8	60.6	34.8	22.8	20.9	22.8	25.8	27.8	28.8
62.5°	11720.0	7217.4	150.0	47.7	28.8	17.9	16.9	20.9	24.8	26.8	27.8
65°	12882.2	7502.5	115.2	38.7	21.9	12.9	13.9	18.9	23.8	26.8	26.8
67°	12411.4	6802.2	94.4	32.8	17.9	9.9	12.9	18.9	23.8	25.8	26.8
67.5°	12084.6	6528.0	90.4	31.8	16.9	9.9	12.9	18.9	23.8	26.8	26.8
70°	9832.8	4904.0	75.5	23.8	13.9	8.9	10.9	17.9	22.8	25.8	25.8
72.5°	6832.0	3023.6	67.5	16.9	11.9	7.9	9.9	16.9	21.9	24.8	25.8
75°	3248.1	1094.6	57.6	12.9	10.9	7.0	8.9	16.9	21.9	24.8	24.8
77.5°	662.5	254.3	46.7	10.9	8.9	7.0	7.9	15.9	20.9	23.8	23.8
80°	217.5	98.3	34.8	9.9	8.9	7.0	7.9	14.9	20.9	22.8	23.8
82.5°	156.9	49.7	22.8	9.9	8.9	7.0	7.0	14.9	19.9	22.8	22.8
85°	120.2	34.8	14.9	9.9	8.9	7.0	7.0	13.9	18.9	21.9	21.9
87.5°	79.5	13.9	11.9	9.9	8.9	7.0	7.0	13.9	17.9	20.9	21.9
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)