

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: P192953

Luminaire Tested: **GLEON-AF-05-LED-E1-SL4-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192953
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-05-LED-E1-SL4-7030-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23352 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G4

Input Watts (W): 279
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

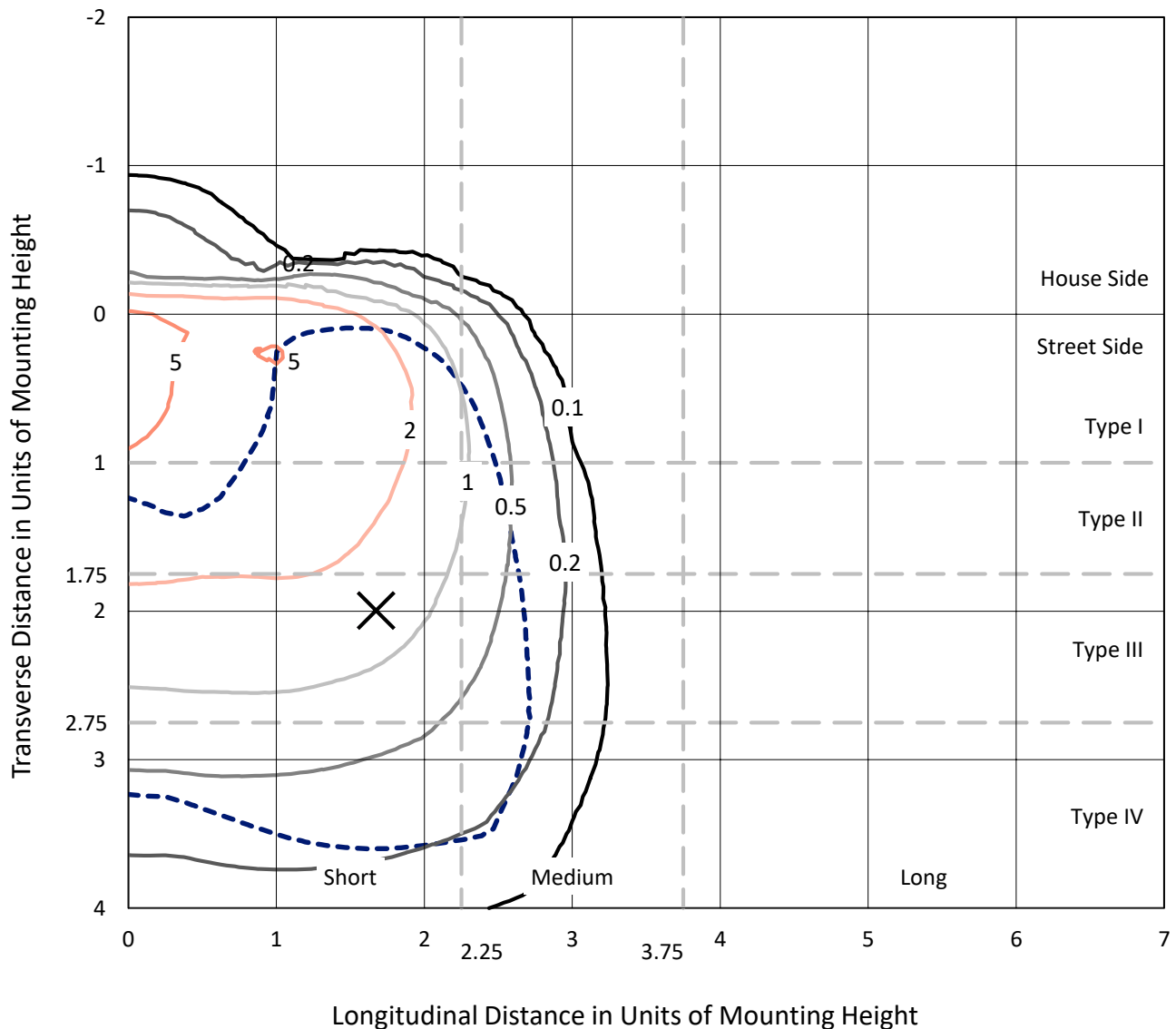


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

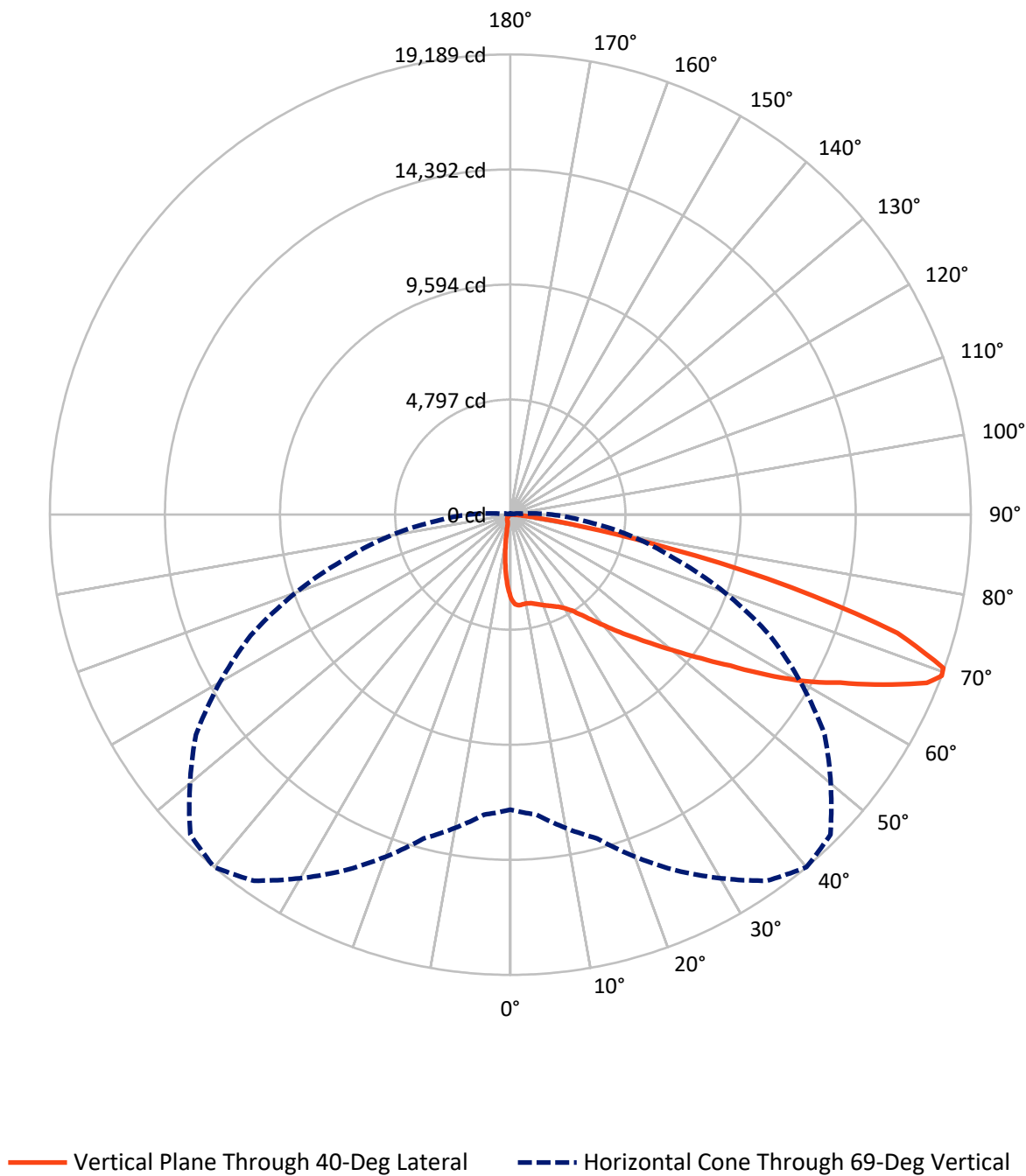


Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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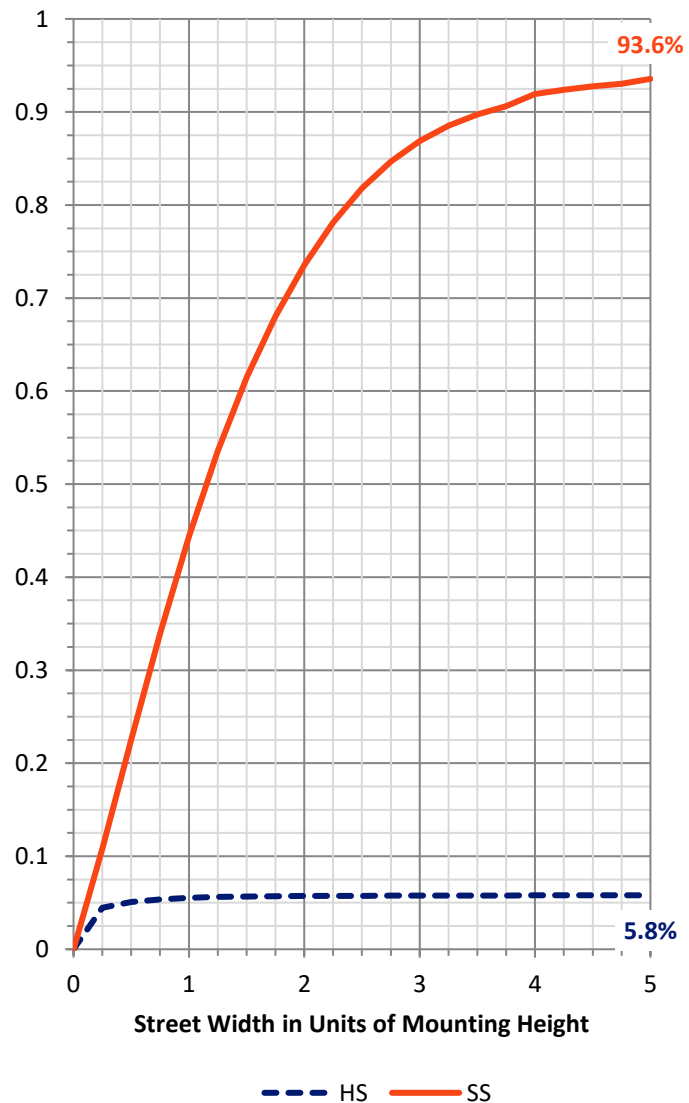
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1366.2	0.0	1366.2
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	21985.8	0.0	21985.8
	% Fixture	94.1	0.0	94.1
Total	Lumens	23352.0	0.0	23352.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.9	1.2
10°-20°	695.7	3.0
20°-30°	1171.7	5.0
30°-40°	1918.1	8.2
40°-50°	3321.2	14.2
50°-60°	5231.2	22.4
60°-70°	6831.8	29.3
70°-80°	3518.7	15.1
80°-90°	380.6	1.6
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°	23352.0	100.0
0°-180°	23352.0	100.0

Coefficient of Utilization



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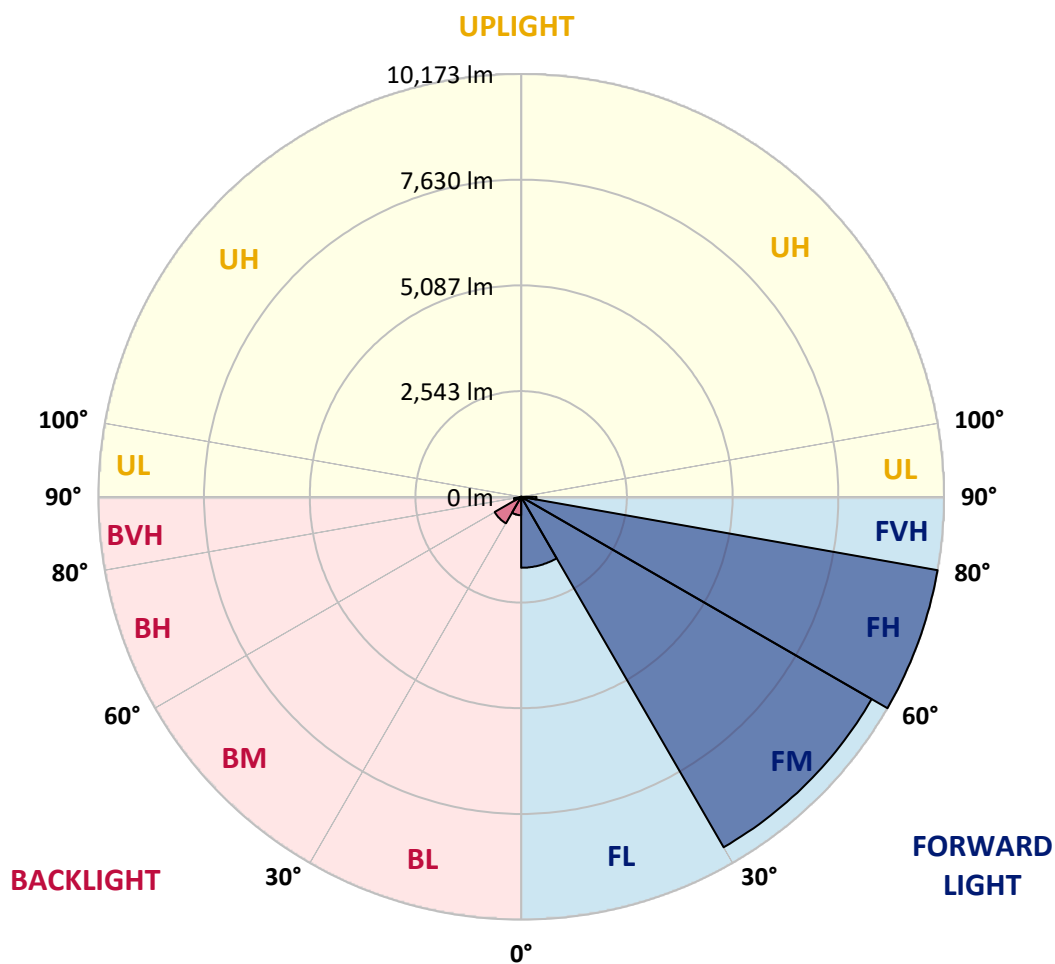
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1707.7	7.3			
FM	(30°-60°)	9736.3	41.7			
FH	(60°-80°)	10173.1	43.6			G4/12000
FVH	(80°-90°)	368.7	1.6			G3/500
BL	(0°-30°)	442.6	1.9	B1/500		
BM	(30°-60°)	734.3	3.1	B1/1000		
BH	(60°-80°)	177.4	0.8	B1/500		G1/500
BVH	(80°-90°)	11.9	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3488.8	3488.8	3488.8	3488.8	3488.8	3488.8	3488.8	3488.8	3488.8	3488.8	3488.8
2.5°	3830.8	3810.0	3797.6	3780.8	3759.9	3741.9	3734.9	3683.4	3634.8	3568.2	3491.7
5°	3901.7	3894.8	3872.5	3850.3	3825.2	3797.6	3782.2	3721.1	3651.6	3554.2	3420.8
7.5°	3908.6	3900.3	3872.5	3842.0	3807.2	3773.9	3747.5	3686.3	3622.4	3523.6	3361.1
10°	3897.6	3887.9	3867.0	3833.6	3790.5	3758.5	3732.2	3673.8	3619.5	3530.6	3349.9
12.5°	3885.0	3875.3	3865.6	3848.8	3811.4	3789.1	3766.9	3711.3	3662.7	3587.6	3390.2
15°	3897.6	3892.1	3903.2	3896.1	3875.3	3855.9	3833.6	3783.5	3739.1	3676.6	3463.8
17.5°	3950.4	3950.4	3985.1	3989.3	3969.8	3942.1	3910.1	3860.0	3822.6	3769.7	3551.5
20°	4074.1	4069.9	4114.3	4122.8	4075.5	4032.4	3985.1	3923.9	3894.8	3861.4	3637.7
22.5°	4286.8	4267.3	4293.7	4285.3	4192.3	4125.5	4067.1	3992.2	3976.8	3961.5	3733.5
25°	4563.4	4552.3	4570.4	4488.4	4324.3	4233.9	4164.4	4079.6	4079.6	4094.9	3842.0
27.5°	4965.1	4923.4	4862.2	4717.7	4471.7	4356.2	4281.3	4190.8	4214.4	4271.5	3985.1
30°	5376.5	5330.6	5190.3	4967.9	4650.9	4530.0	4442.5	4348.0	4403.4	4507.8	4177.0
32.5°	5782.4	5730.9	5532.3	5251.4	4908.2	4787.2	4702.4	4598.1	4691.3	4866.4	4457.8
35°	6175.8	6129.9	5900.5	5569.7	5250.0	5149.9	5072.2	4981.7	5101.4	5345.9	4853.9
37.5°	6617.9	6567.8	6288.4	5929.7	5665.6	5593.4	5536.3	5446.0	5654.5	6013.2	5405.7
40°	7161.3	7076.5	6699.8	6342.6	6146.6	6111.9	6072.9	6060.4	6384.2	6880.5	6141.0
42.5°	7784.0	7645.0	7130.7	6777.7	6674.7	6699.8	6690.1	6745.6	7297.5	7959.1	7036.2
45°	8406.7	8227.4	7610.2	7241.9	7255.8	7343.5	7397.6	7620.0	8441.5	9196.3	7999.4
47.5°	8934.9	8758.4	8070.3	7743.7	7910.5	8082.9	8230.2	8651.3	9617.4	10413.9	8748.7
50°	9386.7	9219.9	8558.3	8295.5	8670.9	8948.9	9187.9	9812.0	10882.3	11341.0	9274.2
52.5°	9756.5	9645.2	9064.2	8928.0	9539.5	9946.9	10297.1	11044.9	12002.6	12094.5	9682.8
55°	10116.5	10037.2	9607.7	9680.0	10559.8	11114.5	11557.9	12353.0	12967.3	12722.7	10074.7
57.5°	10530.6	10458.4	10227.6	10633.5	11901.2	12599.0	13082.7	13512.2	13816.6	13364.9	10444.5
60°	10953.2	10911.5	10917.0	11692.7	13441.3	14111.3	14378.2	14489.4	14650.6	13969.6	10465.3
62.5°	11356.3	11435.5	11705.2	12871.4	14916.1	15430.4	15565.3	15675.1	15486.0	14065.4	9668.9
65°	12038.8	12168.1	12811.6	14449.1	16538.2	17088.7	17227.7	16850.9	15618.1	12825.5	7864.6
67.5°	12372.4	12608.7	13756.9	15919.7	18111.7	18723.3	18671.9	16927.4	14015.3	9780.1	5047.1
69°	12302.9	12554.6	13975.2	16370.1	18634.3	19188.9	18862.3	15992.0	11940.1	7084.8	3098.3
70°	12027.7	12282.1	13862.5	16353.4	18701.2	19140.4	18509.3	14836.9	10095.5	5180.5	1937.7
72.5°	10044.2	10263.9	12307.1	14781.2	17227.7	16870.5	15484.7	10279.1	4919.2	1410.9	436.5
75°	6182.8	6305.1	8830.7	11135.2	13011.8	12094.5	10316.6	5113.8	1466.5	398.9	241.9
77.5°	3266.6	3322.1	4834.4	6563.6	8248.3	6824.9	5287.6	1994.6	675.6	250.2	175.2
80°	1930.7	1972.4	2603.4	3001.1	3569.5	2981.5	2114.1	1224.6	483.7	157.2	155.7
82.5°	1105.0	1131.5	1887.7	1668.0	1406.7	1201.0	1052.2	1160.7	290.5	105.7	161.2
85°	405.9	411.5	1062.0	1269.0	836.8	497.5	522.6	961.9	77.8	66.7	126.5
87.5°	189.0	184.8	546.3	777.1	489.3	315.5	407.3	211.3	30.6	43.0	34.8
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°	3488.8	3488.8	3488.8	3488.8	3488.8	3488.8	3488.8	3488.8	3488.8	3488.8	3488.8
2.5°	3447.2	3395.8	3302.7	3206.8	3109.4	3034.3	2960.7	2902.4	2883.0	2846.8	2849.5
5°	3341.5	3247.0	3052.4	2855.1	2649.3	2479.7	2319.9	2190.6	2128.1	2064.1	2064.1
7.5°	3249.8	3112.2	2807.9	2486.7	2154.5	1875.1	1623.5	1434.5	1330.2	1246.8	1245.4
10°	3215.1	3028.7	2603.4	2143.3	1680.5	1299.6	1000.9	808.9	710.3	646.4	643.5
12.5°	3230.4	2999.6	2446.5	1826.5	1245.4	835.4	579.6	455.9	414.2	394.8	394.8
15°	3274.8	2991.3	2289.3	1516.5	879.9	522.6	385.0	351.7	348.9	348.9	348.9
17.5°	3329.0	2994.0	2128.1	1214.9	599.1	373.8	332.2	328.0	330.8	330.8	330.8
20°	3384.7	2995.5	1954.3	935.5	422.7	325.3	312.7	311.4	314.1	314.1	315.5
22.5°	3452.8	3002.5	1780.6	699.1	348.9	307.2	297.5	297.5	298.9	298.9	297.5
25°	3530.6	3016.3	1599.9	518.4	318.3	294.7	286.4	284.9	286.4	284.9	283.5
27.5°	3628.0	3035.8	1398.3	405.9	304.4	282.2	275.3	275.3	273.8	272.5	271.1
30°	3750.3	3058.0	1171.8	344.7	290.5	271.1	264.1	262.7	261.3	258.5	258.5
32.5°	3936.5	3106.7	948.0	312.7	275.3	255.7	250.2	250.2	247.5	244.6	243.2
35°	4222.9	3202.6	747.8	293.3	258.5	239.1	232.1	232.1	229.3	228.0	226.6
37.5°	4618.9	3348.5	581.0	275.3	241.9	221.0	214.0	212.6	209.9	207.1	205.7
40°	5145.8	3529.2	457.4	258.5	225.2	202.9	197.4	194.6	189.0	184.8	184.8
42.5°	5807.4	3734.9	371.2	240.5	205.7	186.3	182.1	177.9	168.2	164.0	162.6
45°	6499.7	3919.7	314.1	219.6	186.3	169.6	166.8	159.8	147.4	143.1	143.1
47.5°	6998.7	3963.0	276.7	200.2	168.2	151.6	150.1	137.5	126.5	123.7	122.4
50°	7310.0	3878.1	246.1	180.8	151.6	134.8	130.7	115.4	108.3	105.7	104.3
52.5°	7519.9	3726.7	221.0	164.0	136.2	119.5	109.8	98.7	93.1	90.3	90.3
55°	7688.1	3512.5	196.0	148.7	123.7	107.1	93.1	84.7	79.2	76.5	76.5
57.5°	7735.3	3222.0	171.0	136.2	111.2	94.5	79.2	73.6	66.7	65.3	65.3
60°	7392.1	2698.0	151.6	121.0	100.1	82.1	69.5	62.5	55.6	54.2	52.8
62.5°	6487.2	2087.8	133.4	107.1	87.5	70.9	59.8	51.5	45.9	45.9	45.9
65°	4948.5	1399.7	116.8	93.1	76.5	59.8	51.5	41.7	38.9	38.9	40.3
67.5°	2962.1	761.7	100.1	79.2	65.3	50.0	43.0	36.2	34.8	36.2	36.2
69°	1736.1	447.6	90.3	70.9	57.1	44.5	37.4	32.0	34.8	36.2	36.2
70°	1071.8	301.7	83.4	63.9	51.5	40.3	34.8	30.6	33.4	34.8	34.8
72.5°	298.9	155.7	66.7	50.0	41.7	33.4	27.8	27.8	32.0	33.4	33.4
75°	194.6	115.4	51.5	37.4	32.0	26.4	23.6	26.4	30.6	32.0	32.0
77.5°	161.2	94.5	41.7	30.6	26.4	25.0	22.3	23.6	27.8	29.2	29.2
80°	147.4	66.7	33.4	27.8	23.6	22.3	20.9	19.4	25.0	26.4	26.4
82.5°	140.4	52.8	29.2	25.0	22.3	19.4	18.0	19.4	22.3	23.6	25.0
85°	87.5	34.8	26.4	23.6	19.4	18.0	18.0	18.0	20.9	22.3	22.3
87.5°	32.0	27.8	23.6	19.4	16.7	16.7	16.7	16.7	18.0	20.9	20.9
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)