

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: P194553

Luminaire Tested: **GLEON-AF-05-LED-E1-SL4-7060-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194553
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-SL4-7060-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 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: 24145 lumens
Efficiency: N/A
Efficacy: 86.5 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



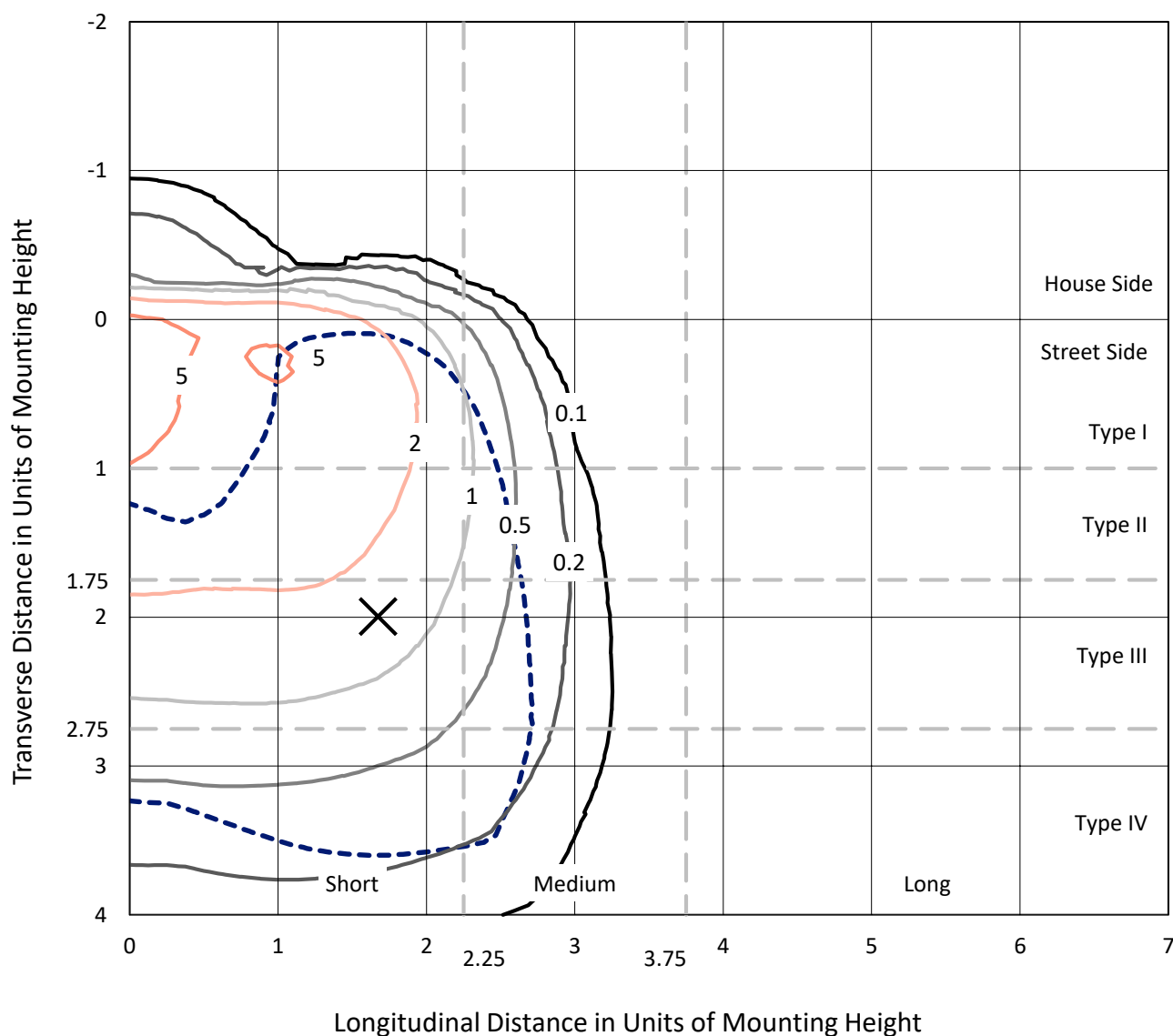
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

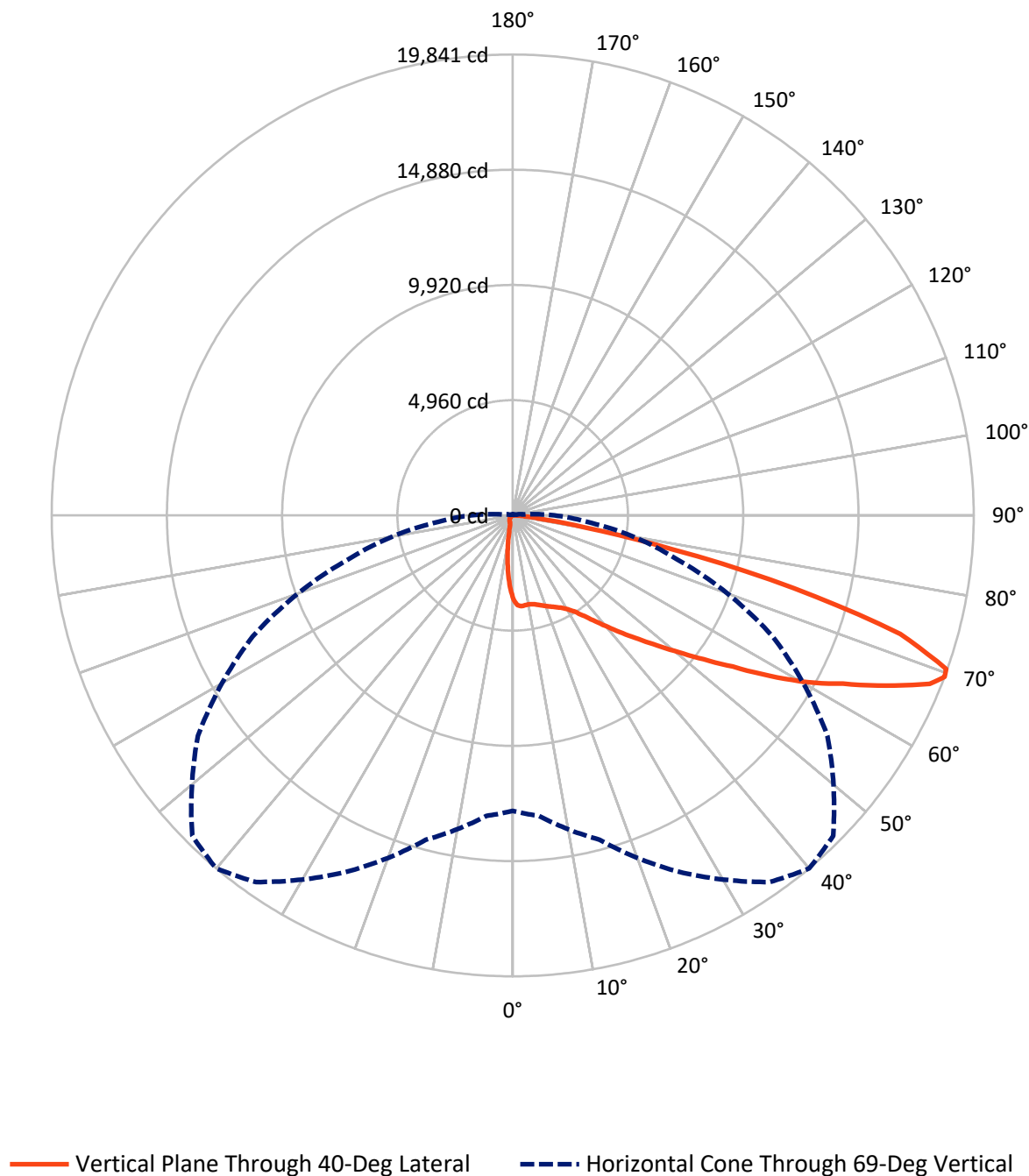


Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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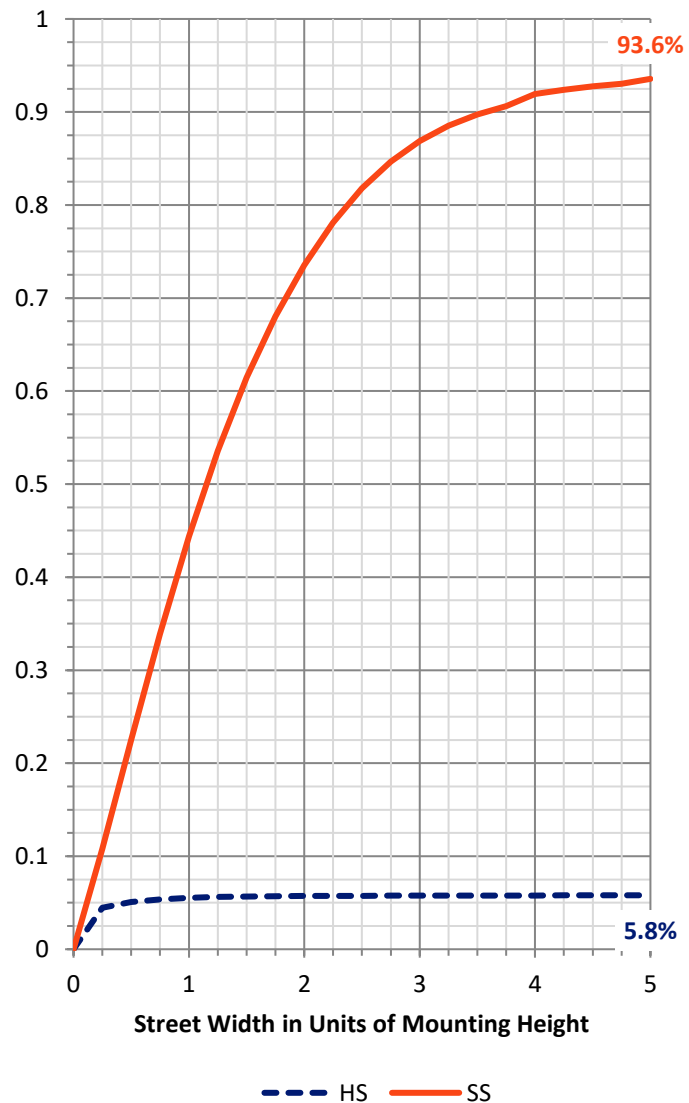
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1412.6	0.0	1412.6
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	22732.4	0.0	22732.4
	% Fixture	94.1	0.0	94.1
Total	Lumens	24145.0	0.0	24145.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.5	1.2
10°-20°	719.3	3.0
20°-30°	1211.5	5.0
30°-40°	1983.3	8.2
40°-50°	3434.0	14.2
50°-60°	5408.9	22.4
60°-70°	7063.8	29.3
70°-80°	3638.2	15.1
80°-90°	393.5	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°	24145.0	100.0
0°-180°	24145.0	100.0

Coefficient of Utilization



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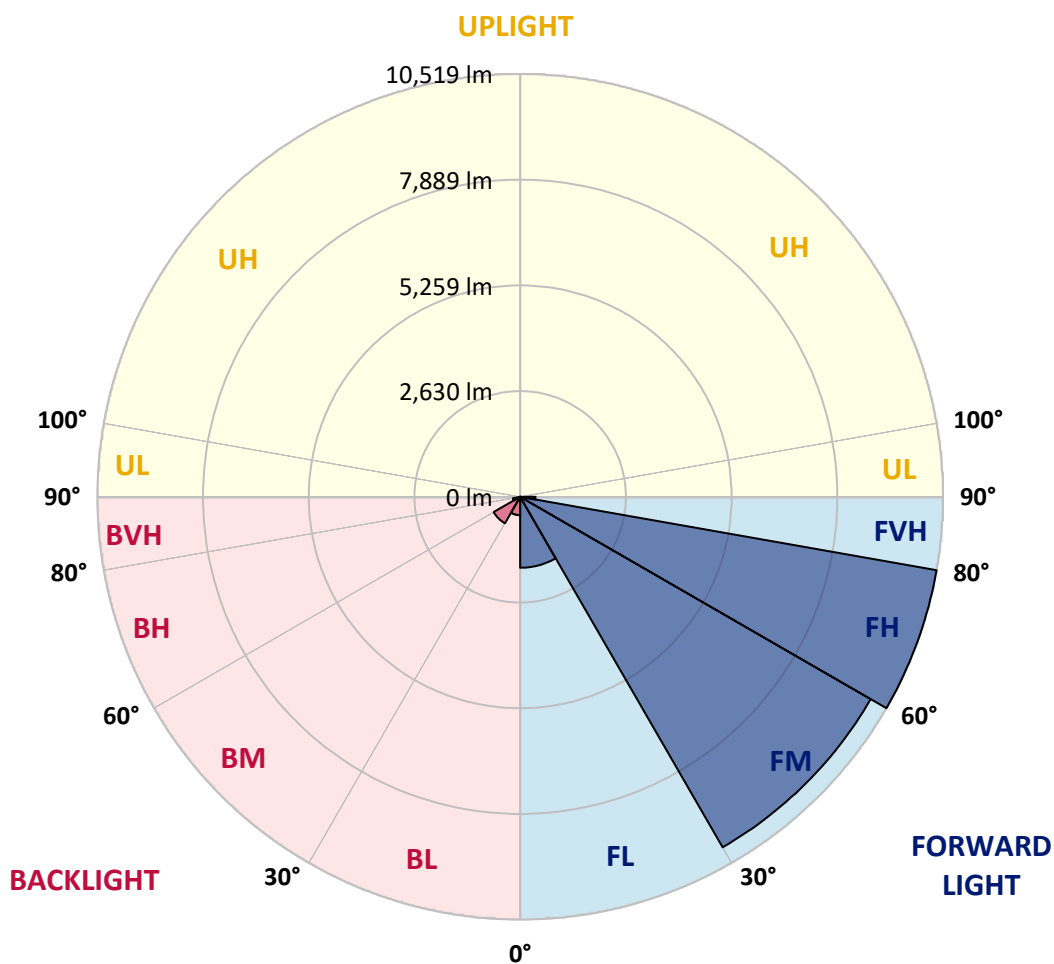
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1765.7	7.3			
FM	(30°-60°)	10067.0	41.7			
FH	(60°-80°)	10518.6	43.6			G4/12000
FVH	(80°-90°)	381.2	1.6			G3/500
BL	(0°-30°)	457.6	1.9	B1/500		
BM	(30°-60°)	759.2	3.1	B1/1000		
BH	(60°-80°)	183.4	0.8	B1/500		G1/500
BVH	(80°-90°)	12.4	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°	3607.4	3607.4	3607.4	3607.4	3607.4	3607.4	3607.4	3607.4	3607.4	3607.4	3607.4
2.5°	3960.9	3939.4	3926.4	3909.2	3887.6	3869.0	3861.8	3808.6	3758.3	3689.3	3610.3
5°	4034.2	4027.1	4004.1	3981.1	3955.2	3926.4	3910.6	3847.4	3775.5	3674.9	3537.0
7.5°	4041.4	4032.8	4004.1	3972.4	3936.5	3902.0	3874.7	3811.5	3745.4	3643.3	3475.2
10°	4029.9	4019.9	3998.3	3963.8	3919.3	3886.2	3858.9	3798.5	3742.5	3650.5	3463.7
12.5°	4017.0	4006.9	3996.9	3979.6	3940.8	3917.8	3894.8	3837.3	3787.0	3709.4	3505.3
15°	4029.9	4024.2	4035.7	4028.5	4006.9	3986.8	3963.8	3912.1	3866.1	3801.4	3581.5
17.5°	4084.5	4084.5	4120.5	4124.8	4104.7	4075.9	4042.9	3991.1	3952.3	3897.7	3672.1
20°	4212.5	4208.1	4254.1	4262.8	4213.9	4169.3	4120.5	4057.2	4027.1	3992.6	3761.2
22.5°	4432.3	4412.2	4439.5	4430.9	4334.6	4265.6	4205.3	4127.7	4111.8	4096.0	3860.3
25°	4718.3	4706.8	4725.5	4640.7	4471.1	4377.7	4305.9	4218.2	4218.2	4234.0	3972.4
27.5°	5133.7	5090.6	5027.3	4877.9	4623.5	4504.2	4426.6	4333.2	4357.6	4416.5	4120.5
30°	5559.1	5511.7	5366.5	5136.6	4808.9	4683.9	4593.3	4495.6	4553.1	4660.9	4318.8
32.5°	5978.8	5925.6	5720.1	5429.8	5074.8	4949.7	4862.1	4754.3	4850.6	5031.7	4609.1
35°	6385.5	6338.1	6100.9	5758.9	5428.3	5324.8	5244.4	5150.9	5274.5	5527.5	5018.7
37.5°	6842.5	6790.8	6501.9	6131.1	5858.1	5783.3	5724.4	5631.0	5846.6	6217.4	5589.3
40°	7404.5	7316.8	6927.3	6558.0	6355.3	6319.4	6279.2	6266.2	6601.1	7114.2	6349.6
42.5°	8048.4	7904.6	7372.9	7007.8	6901.5	6927.3	6917.3	6974.8	7545.3	8229.4	7275.1
45°	8692.2	8506.8	7868.7	7487.8	7502.2	7592.8	7648.8	7878.8	8728.2	9508.6	8271.1
47.5°	9238.4	9055.8	8344.4	8006.7	8179.1	8357.4	8509.7	8945.2	9944.0	10767.5	9045.8
50°	9705.5	9533.0	8848.9	8577.2	8965.3	9252.7	9499.9	10145.2	11251.9	11726.2	9589.0
52.5°	10087.7	9972.8	9372.0	9231.2	9863.5	10284.6	10646.8	11420.0	12410.3	12505.1	10011.6
55°	10460.0	10378.1	9934.0	10008.7	10918.5	11491.9	11950.4	12772.5	13407.7	13154.7	10416.9
57.5°	10888.3	10813.5	10575.0	10994.6	12305.4	13026.8	13527.0	13971.1	14285.8	13818.7	10799.2
60°	11325.2	11282.1	11287.8	12089.8	13897.8	14590.5	14866.5	14981.4	15148.2	14443.9	10820.7
62.5°	11742.0	11823.9	12102.7	13308.5	15422.7	15954.4	16093.8	16207.4	16011.9	14543.1	9997.2
65°	12447.6	12581.3	13246.7	14939.8	17099.9	17669.0	17812.7	17423.2	16148.4	13261.1	8131.7
67.5°	12792.6	13036.9	14224.0	16460.3	18726.8	19359.2	19306.0	17502.3	14491.3	10112.2	5218.5
69°	12720.7	12980.8	14449.7	16926.0	19267.2	19840.6	19502.9	16535.1	12345.6	7325.4	3203.5
70°	12436.1	12699.2	14333.3	16908.7	19336.2	19790.3	19137.8	15340.7	10438.4	5356.5	2003.5
72.5°	10385.3	10612.3	12725.0	15283.2	17812.7	17443.4	16010.5	10628.1	5086.3	1458.8	451.3
75°	6392.7	6519.2	9130.6	11513.5	13453.7	12505.1	10666.9	5287.5	1516.3	412.5	250.1
77.5°	3377.4	3434.9	4998.6	6786.5	8528.4	7056.7	5467.1	2062.4	698.5	258.7	181.1
80°	1996.3	2039.4	2691.9	3102.9	3690.7	3082.8	2186.0	1266.2	500.1	162.4	161.0
82.5°	1142.6	1169.9	1951.7	1724.6	1454.5	1241.7	1088.0	1200.1	300.4	109.2	166.7
85°	419.7	425.4	1098.0	1312.2	865.2	514.5	540.4	994.5	80.5	69.0	130.8
87.5°	195.5	191.1	564.8	803.4	505.9	326.2	421.1	218.5	31.6	44.6	35.9
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°	3607.4	3607.4	3607.4	3607.4	3607.4	3607.4	3607.4	3607.4	3607.4	3607.4	3607.4
2.5°	3564.3	3511.1	3414.8	3315.6	3215.0	3137.4	3061.2	3000.9	2980.8	2943.4	2946.3
5°	3455.0	3357.3	3156.1	2952.0	2739.3	2564.0	2398.7	2265.0	2200.4	2134.3	2134.3
7.5°	3360.2	3217.9	2903.2	2571.2	2227.7	1938.8	1678.7	1483.2	1375.4	1289.2	1287.7
10°	3324.3	3131.7	2691.9	2216.2	1737.6	1343.8	1034.8	836.5	734.4	668.3	665.4
12.5°	3340.1	3101.5	2529.5	1888.5	1287.7	863.8	599.3	471.4	428.3	408.2	408.2
15°	3386.1	3092.9	2367.1	1568.0	909.8	540.4	398.1	363.6	360.7	360.7	360.7
17.5°	3442.1	3095.7	2200.4	1256.1	619.4	386.6	343.5	339.2	342.1	342.1	342.1
20°	3499.6	3097.2	2020.7	967.2	436.9	336.3	323.4	321.9	324.8	324.8	326.2
22.5°	3570.0	3104.4	1841.1	722.9	360.7	317.6	307.6	307.6	309.0	309.0	307.6
25°	3650.5	3118.7	1654.2	536.1	329.1	304.7	296.1	294.6	296.1	294.6	293.2
27.5°	3751.1	3138.9	1445.8	419.7	314.7	291.8	284.6	284.6	283.1	281.7	280.3
30°	3877.6	3161.9	1211.6	356.4	300.4	280.3	273.1	271.6	270.2	267.3	267.3
32.5°	4070.2	3212.2	980.2	323.4	284.6	264.4	258.7	258.7	255.8	252.9	251.5
35°	4366.2	3311.3	773.2	303.3	267.3	247.2	240.0	240.0	237.1	235.7	234.3
37.5°	4775.8	3462.2	600.8	284.6	250.1	228.5	221.3	219.9	217.0	214.1	212.7
40°	5320.5	3649.1	472.8	267.3	232.8	209.8	204.1	201.2	195.5	191.1	191.1
42.5°	6004.6	3861.8	383.7	248.6	212.7	192.6	188.3	184.0	173.9	169.6	168.2
45°	6720.4	4052.9	324.8	227.1	192.6	175.3	172.5	165.3	152.3	148.0	148.0
47.5°	7236.3	4097.5	286.0	207.0	173.9	156.7	155.2	142.3	130.8	127.9	126.5
50°	7558.3	4009.8	254.4	186.8	156.7	139.4	135.1	119.3	112.1	109.2	107.8
52.5°	7775.3	3853.1	228.5	169.6	140.8	123.6	113.5	102.0	96.3	93.4	93.4
55°	7949.2	3631.8	202.6	153.8	127.9	110.7	96.3	87.7	81.9	79.0	79.0
57.5°	7998.1	3331.4	176.8	140.8	115.0	97.7	81.9	76.2	69.0	67.5	67.5
60°	7643.1	2789.6	156.7	125.0	103.5	84.8	71.9	64.7	57.5	56.1	54.6
62.5°	6707.4	2158.7	138.0	110.7	90.5	73.3	61.8	53.2	47.4	47.4	47.4
65°	5116.5	1447.3	120.7	96.3	79.0	61.8	53.2	43.1	40.2	40.2	41.7
67.5°	3062.7	787.6	103.5	81.9	67.5	51.7	44.6	37.4	35.9	37.4	37.4
69°	1795.1	462.8	93.4	73.3	58.9	46.0	38.8	33.1	35.9	37.4	37.4
70°	1108.1	311.9	86.2	66.1	53.2	41.7	35.9	31.6	34.5	35.9	35.9
72.5°	309.0	161.0	69.0	51.7	43.1	34.5	28.7	28.7	33.1	34.5	34.5
75°	201.2	119.3	53.2	38.8	33.1	27.3	24.4	27.3	31.6	33.1	33.1
77.5°	166.7	97.7	43.1	31.6	27.3	25.9	23.0	24.4	28.7	30.2	30.2
80°	152.3	69.0	34.5	28.7	24.4	23.0	21.6	20.1	25.9	27.3	27.3
82.5°	145.2	54.6	30.2	25.9	23.0	20.1	18.7	20.1	23.0	24.4	25.9
85°	90.5	35.9	27.3	24.4	20.1	18.7	18.7	18.7	21.6	23.0	23.0
87.5°	33.1	28.7	24.4	20.1	17.2	17.2	17.2	17.2	18.7	21.6	21.6
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)