

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: P194454

Luminaire Tested: **GLEON-AF-06-LED-E1-SL3-7060-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194454
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-06-LED-E1-SL3-7060-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20039 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 193
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

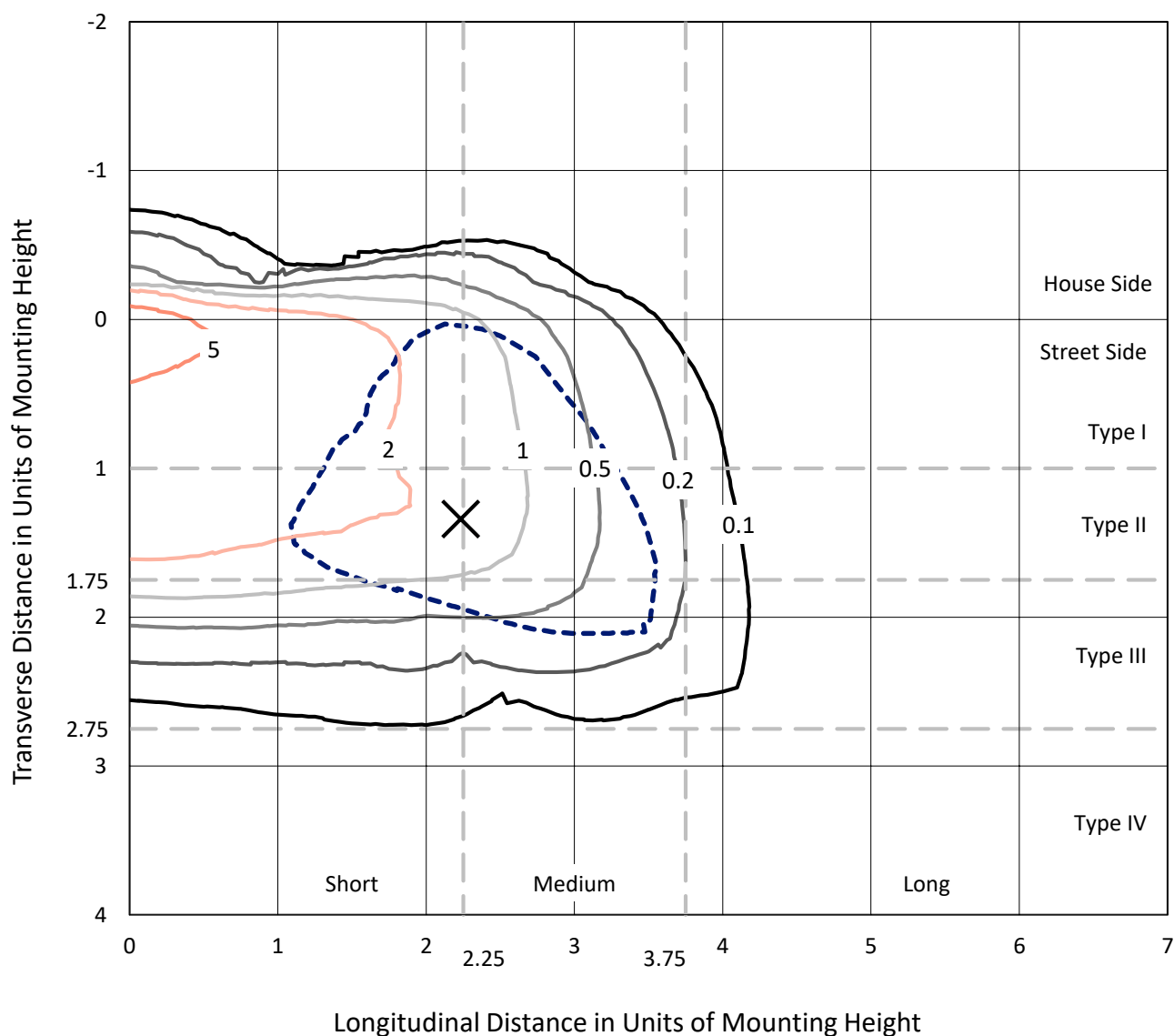


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

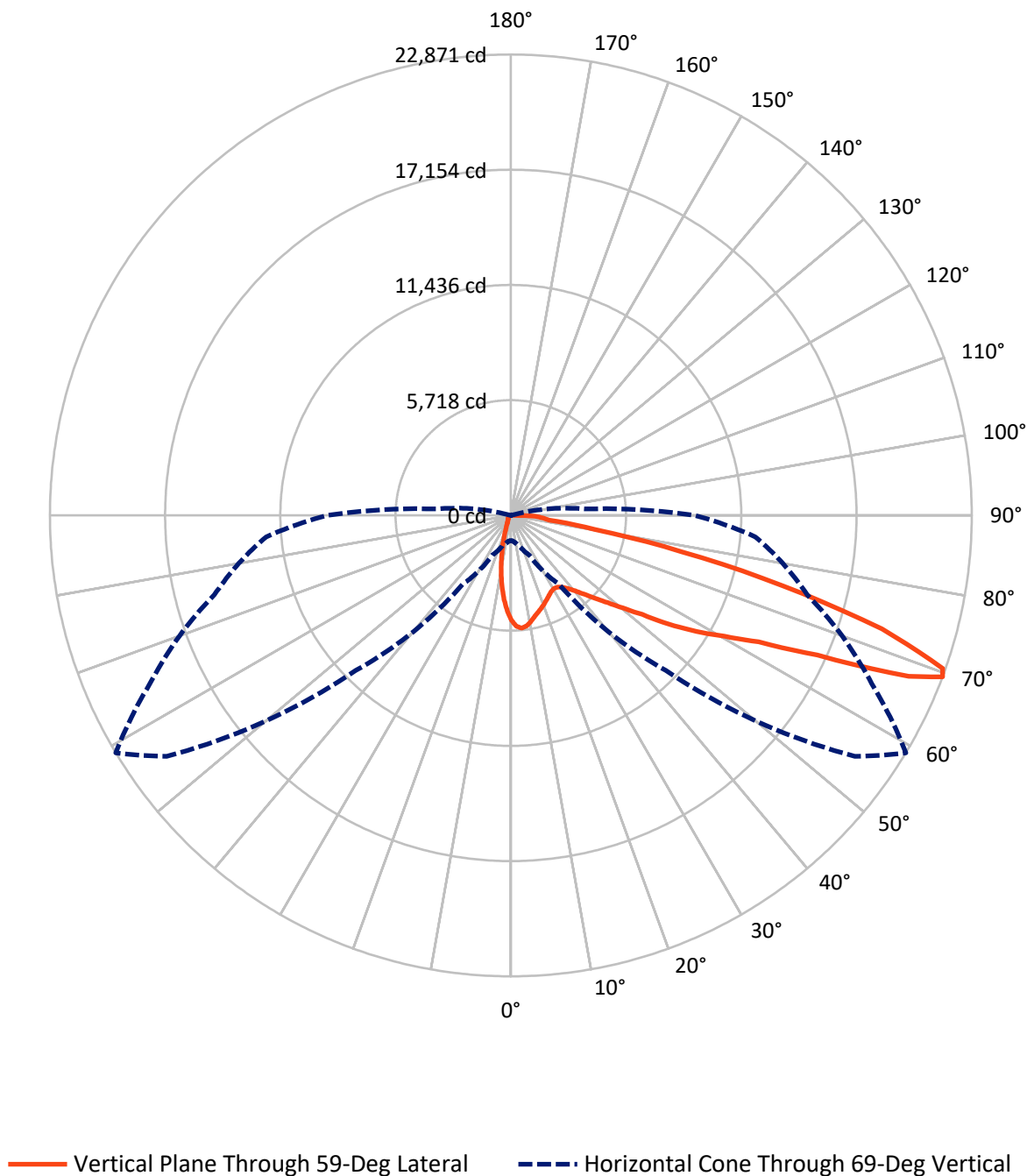


Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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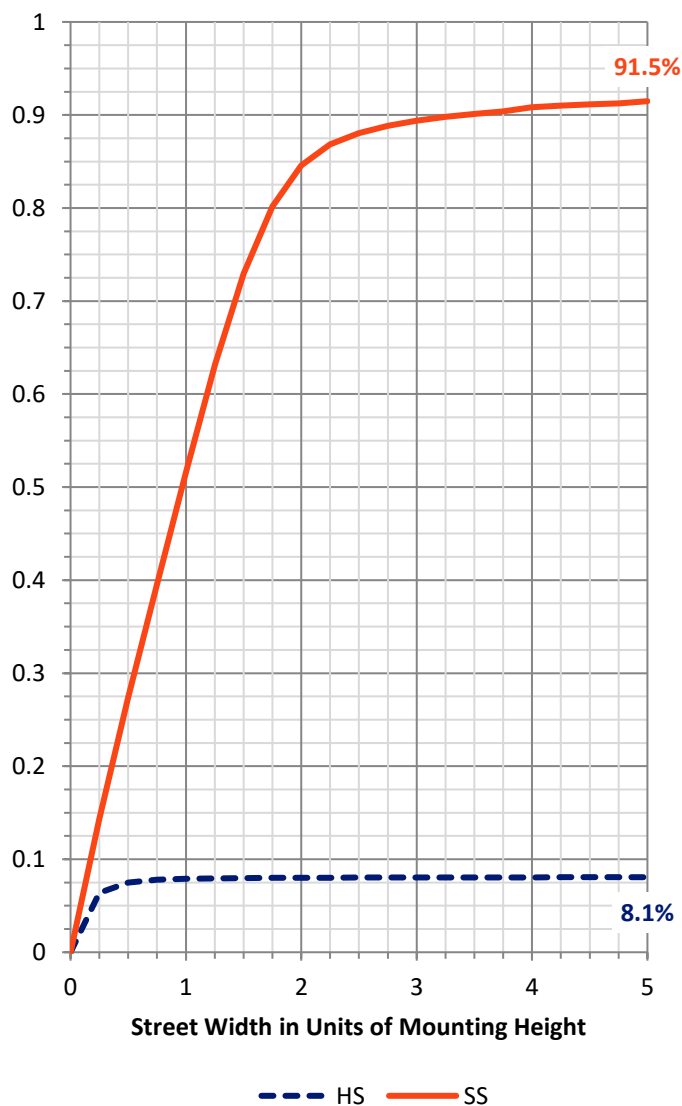
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1631.9	0.0	1631.9
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	18407.1	0.0	18407.1
	% Fixture	91.9	0.0	91.9
Total	Lumens	20039.0	0.0	20039.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.4	2.1
10°-20°	874.8	4.4
20°-30°	1177.2	5.9
30°-40°	1709.2	8.5
40°-50°	2845.9	14.2
50°-60°	4439.6	22.2
60°-70°	5493.6	27.4
70°-80°	2784.1	13.9
80°-90°	291.3	1.5
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°	20039.0	100.0
0°-180°	20039.0	100.0

Coefficient of Utilization



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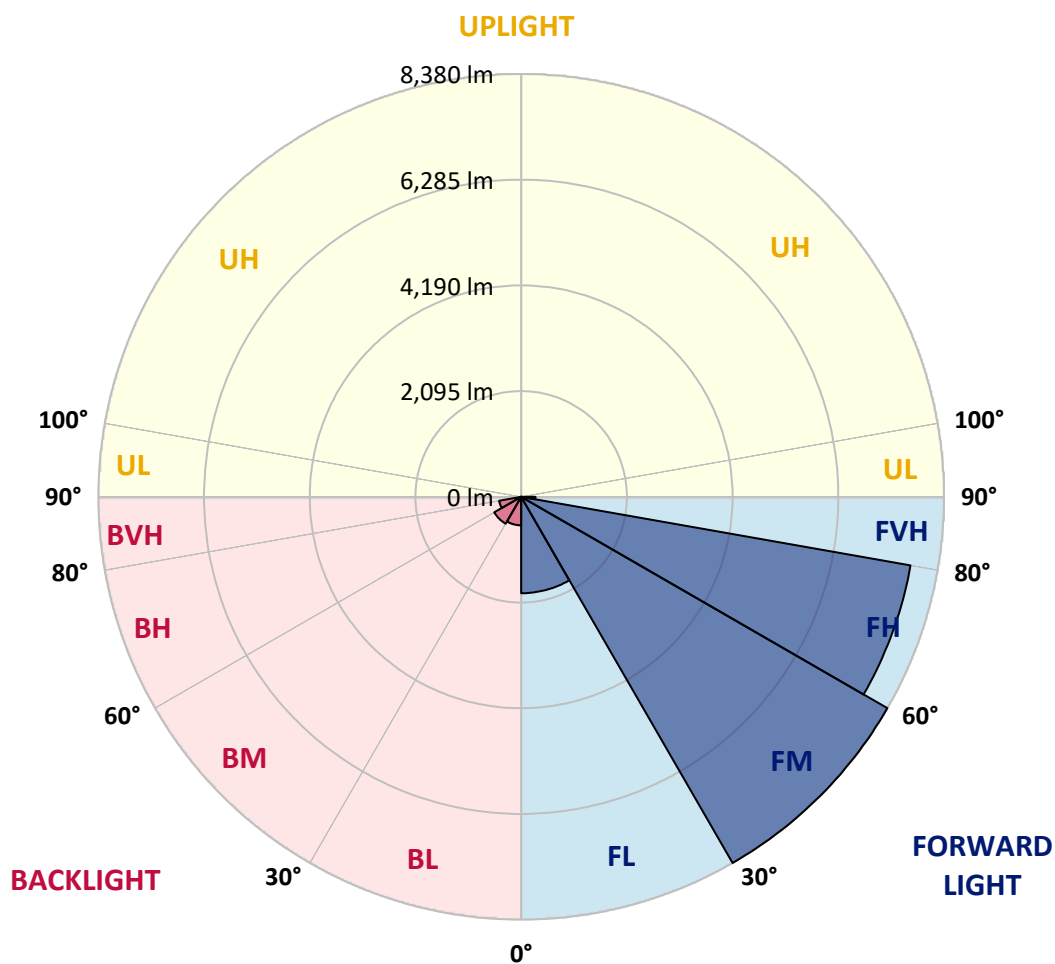
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1910.5	9.5			
FM	(30°-60°)	8379.7	41.8			
FH	(60°-80°)	7834.5	39.1			G4/12000
FVH	(80°-90°)	282.4	1.4			G3/500
BL	(0°-30°)	564.9	2.8	B2/1000		
BM	(30°-60°)	614.9	3.1	B1/1000		
BH	(60°-80°)	443.2	2.2	B1/500		G1/500
BVH	(80°-90°)	9.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	5215.9	5215.9	5215.9	5215.9	5215.9	5215.9	5215.9	5215.9	5215.9	5215.9	5215.9
2.5°	5716.7	5714.5	5689.5	5678.2	5657.8	5614.7	5547.9	5512.8	5456.1	5357.5	5224.9
5°	5664.6	5691.8	5706.5	5707.7	5722.4	5706.5	5646.5	5617.0	5538.8	5380.2	5142.2
7.5°	5311.1	5321.3	5363.2	5399.4	5469.7	5536.6	5558.1	5545.6	5499.2	5329.2	5013.0
10°	4932.6	4942.8	4992.6	5040.2	5135.4	5238.5	5347.3	5370.0	5389.2	5256.7	4888.4
12.5°	4606.2	4616.4	4667.4	4729.8	4840.8	4967.7	5136.6	5173.9	5258.9	5187.5	4788.7
15°	4325.2	4329.8	4379.6	4456.7	4589.2	4752.4	4943.9	5004.0	5134.3	5138.8	4701.4
17.5°	4086.1	4097.5	4128.1	4201.7	4346.8	4548.5	4771.7	4857.8	5010.8	5098.0	4616.4
20°	3940.0	3951.3	3950.1	3990.9	4121.3	4336.6	4599.4	4702.6	4888.4	5056.1	4540.5
22.5°	3911.6	3911.6	3882.2	3876.5	3953.5	4133.7	4420.4	4546.2	4778.5	5038.0	4487.3
25°	4012.5	4007.9	3934.3	3874.2	3877.6	3985.3	4247.0	4396.6	4685.6	5050.4	4458.9
27.5°	4225.5	4219.8	4126.9	4012.5	3920.7	3919.6	4115.6	4276.5	4611.9	5109.4	4470.3
30°	4520.1	4517.9	4417.0	4273.1	4106.5	3953.5	4070.3	4216.4	4564.3	5215.9	4496.3
32.5°	4841.9	4838.5	4762.6	4610.8	4400.0	4106.5	4117.9	4240.2	4577.9	5357.5	4559.8
35°	5183.0	5177.3	5144.5	5011.9	4779.6	4388.7	4274.2	4369.4	4664.0	5569.4	4684.4
37.5°	5552.4	5558.1	5581.9	5455.0	5211.3	4784.1	4536.0	4600.6	4837.4	5857.2	4887.3
40°	6097.5	6096.3	6104.3	5937.7	5703.1	5268.0	4902.0	4922.4	5127.5	6239.1	5195.5
42.5°	7086.7	7017.6	6807.9	6468.0	6232.3	5821.0	5363.2	5341.7	5482.2	6711.6	5627.2
45°	8415.9	8268.6	7724.7	7073.1	6771.7	6444.2	5930.9	5861.8	5951.3	7279.3	6159.8
47.5°	9559.2	9406.3	8636.8	7703.1	7343.9	7035.7	6596.0	6471.4	6500.9	7915.0	6835.1
50°	9947.9	9873.1	9201.2	8251.6	7898.0	7780.2	7367.7	7215.9	7174.0	8650.4	7618.1
52.5°	9813.1	9807.4	9359.8	8607.4	8405.7	8550.7	8338.8	8163.2	8009.1	9425.5	8414.7
55°	9596.6	9624.9	9424.4	8919.0	8912.2	9254.4	9666.9	9520.7	9074.2	10267.4	9101.4
57.5°	8999.5	9120.7	9388.1	9508.2	9787.0	10137.1	10772.8	10858.9	10330.9	10912.2	9671.4
60°	7302.0	7568.3	8443.1	9593.2	10914.5	11787.0	12107.7	12181.3	11362.1	11448.2	10440.8
62.5°	5183.0	5455.0	6564.3	8509.9	10931.5	13954.7	14096.3	13807.4	12497.5	12242.5	11767.7
65°	2751.3	2960.9	3867.4	6142.8	9477.6	14457.8	17574.0	16712.8	14500.9	13805.1	13482.2
67.5°	1407.4	1470.8	1831.2	3006.2	6515.6	12842.0	20691.3	21297.5	17953.6	15355.3	13399.5
69°	1245.3	1282.7	1521.8	2173.4	4172.2	10877.1	20843.1	22871.4	19760.9	15226.1	12176.8
70°	1205.7	1238.5	1456.1	1967.1	3261.2	9121.8	20261.8	22733.2	20223.3	14734.3	11263.5
72.5°	1023.2	1051.6	1296.3	1738.2	2650.4	4528.1	16459.0	19263.5	18147.3	12274.2	8153.0
75°	684.4	777.3	1244.2	1629.5	2465.7	2572.2	10851.0	13920.7	12931.5	8278.8	4247.0
77.5°	164.3	176.8	351.3	1296.3	2255.0	2264.0	5580.7	8653.8	7058.4	2950.7	1004.0
80°	88.4	85.0	98.6	257.2	2099.7	2124.7	2512.2	4200.6	2520.1	489.5	330.9
82.5°	62.3	58.9	63.5	107.6	660.6	1935.4	1817.6	1901.4	1044.8	188.1	148.4
85°	22.7	21.5	35.1	97.5	207.4	1112.8	1867.4	1568.3	846.5	86.1	108.8
87.5°	7.9	6.8	13.6	53.3	63.5	473.7	1152.4	1185.3	333.1	52.1	51.0
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°	5215.9	5215.9	5215.9	5215.9	5215.9	5215.9	5215.9	5215.9	5215.9	5215.9	5215.9
2.5°	5169.4	5099.2	4970.0	4837.4	4715.0	4567.7	4494.1	4421.5	4390.9	4379.6	4326.4
5°	5019.8	4900.9	4626.6	4351.3	4097.5	3827.8	3649.9	3507.1	3423.2	3382.4	3317.9
7.5°	4828.3	4633.4	4217.6	3792.6	3397.2	3007.4	2718.4	2496.3	2343.3	2269.7	2202.8
10°	4642.5	4383.0	3791.5	3212.5	2675.4	2158.6	1759.8	1470.8	1286.1	1201.1	1146.7
12.5°	4475.9	4139.4	3380.2	2647.0	1972.8	1367.7	962.0	732.0	617.6	577.9	558.6
15°	4327.5	3915.0	2991.5	2109.9	1336.0	781.9	525.8	447.6	429.5	429.5	427.2
17.5°	4187.0	3695.2	2616.4	1605.7	838.5	478.2	400.0	389.8	389.8	394.3	394.3
20°	4052.1	3485.6	2253.8	1152.4	528.0	379.6	361.5	359.2	361.5	367.1	367.1
22.5°	3936.6	3295.2	1915.0	790.9	392.1	342.2	333.1	329.7	330.9	334.3	336.5
25°	3850.4	3134.3	1595.5	536.0	337.7	311.6	301.4	295.8	291.2	291.2	293.5
27.5°	3796.0	2998.3	1286.1	389.8	303.7	283.3	267.4	258.4	248.2	242.5	244.8
30°	3756.4	2869.1	996.0	318.4	272.0	251.6	231.2	216.4	201.7	194.9	197.2
32.5°	3741.7	2764.9	744.5	281.0	243.6	221.0	196.0	176.8	160.9	155.2	156.4
35°	3781.3	2682.2	545.0	253.8	221.0	192.6	164.3	142.8	130.3	126.9	128.0
37.5°	3885.6	2638.0	407.9	231.2	200.6	168.8	137.1	116.7	108.8	108.8	109.9
40°	4082.7	2636.8	327.5	215.3	182.4	146.2	113.3	98.6	94.1	96.3	97.5
42.5°	4370.5	2696.9	285.6	200.6	166.6	124.6	94.1	83.9	82.7	85.0	86.1
45°	4763.7	2806.8	262.9	188.1	149.6	104.2	79.3	72.5	72.5	75.9	77.1
47.5°	5245.3	2967.7	243.6	175.6	132.6	87.3	68.0	63.5	64.6	68.0	69.1
50°	5825.5	3170.5	224.4	162.0	120.1	72.5	58.9	55.5	56.7	61.2	62.3
52.5°	6486.1	3443.6	208.5	149.6	104.2	60.1	49.9	47.6	49.9	54.4	55.5
55°	7052.7	3688.4	189.2	139.4	83.9	49.9	40.8	40.8	43.1	48.7	49.9
57.5°	7597.7	3944.5	172.2	120.1	65.7	39.7	34.0	35.1	38.5	44.2	45.3
60°	8397.8	4378.5	151.8	100.9	49.9	31.7	28.3	29.5	34.0	39.7	40.8
62.5°	9756.4	5039.1	131.4	83.9	38.5	24.9	22.7	24.9	30.6	37.4	38.5
65°	10982.5	5307.7	107.6	70.3	29.5	19.3	19.3	22.7	29.5	36.3	37.4
67.5°	10299.2	4468.0	83.9	55.5	22.7	14.7	15.9	21.5	28.3	36.3	37.4
69°	9108.2	3653.3	71.4	44.2	19.3	13.6	14.7	21.5	28.3	35.1	36.3
70°	8180.2	3084.4	63.5	37.4	17.0	13.6	14.7	20.4	28.3	35.1	36.3
72.5°	5478.8	1665.7	51.0	27.2	15.9	12.5	12.5	20.4	27.2	34.0	35.1
75°	2354.7	460.1	40.8	19.3	13.6	11.3	11.3	19.3	26.1	32.9	35.1
77.5°	430.6	116.7	32.9	17.0	13.6	11.3	10.2	18.1	24.9	31.7	32.9
80°	171.1	57.8	26.1	14.7	12.5	10.2	9.1	17.0	23.8	30.6	31.7
82.5°	103.1	32.9	21.5	13.6	12.5	9.1	7.9	14.7	22.7	29.5	30.6
85°	83.9	22.7	17.0	13.6	11.3	9.1	6.8	13.6	20.4	28.3	29.5
87.5°	40.8	15.9	15.9	12.5	11.3	9.1	6.8	12.5	19.3	27.2	28.3
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)