

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: P192687

Luminaire Tested: **GLEON-AF-09-LED-E1-AFL-7030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192687
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-09-LED-E1-AFL-7030-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46218.8 lumens
Efficiency: N/A
Efficacy: 80.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 575
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



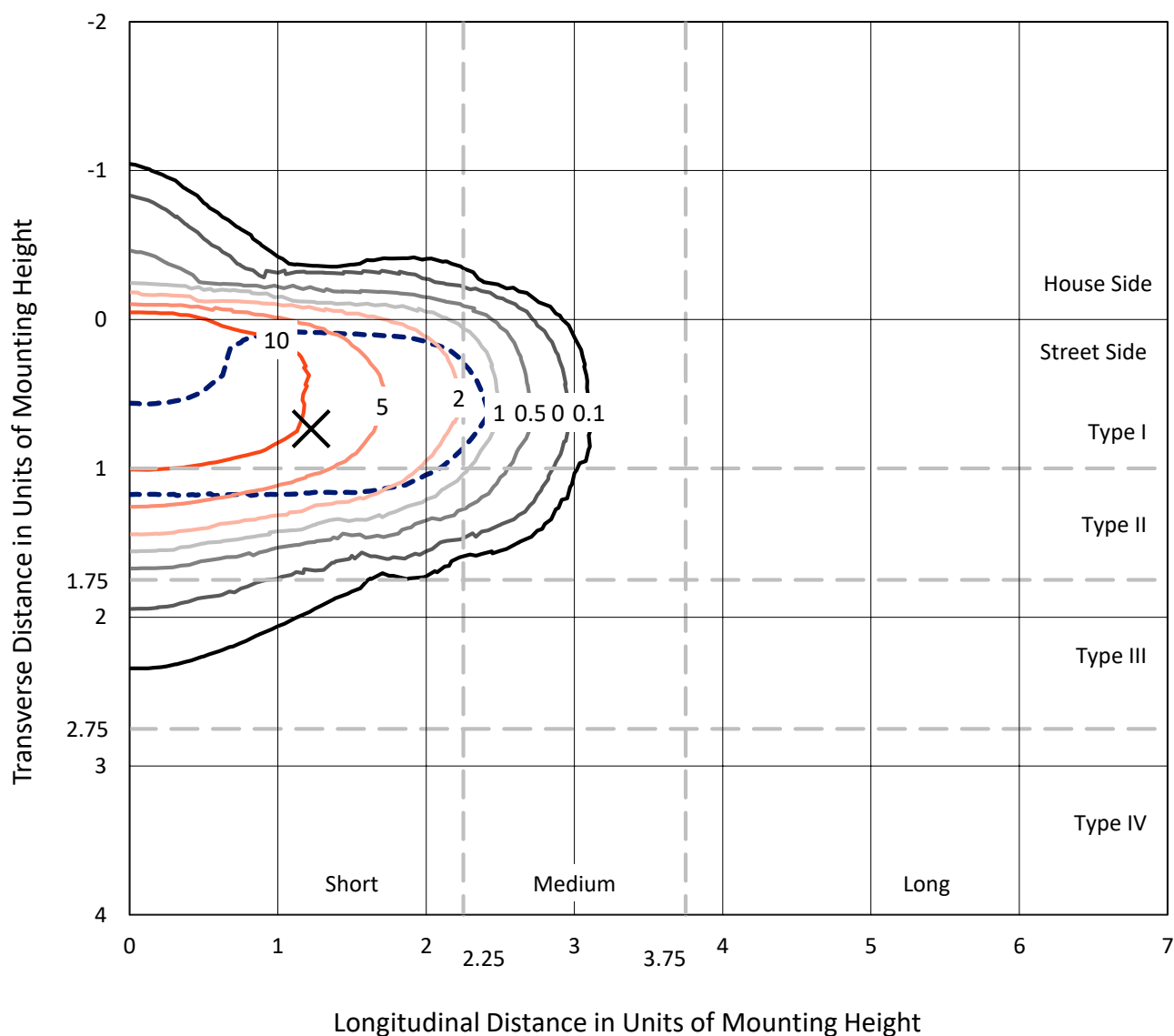
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

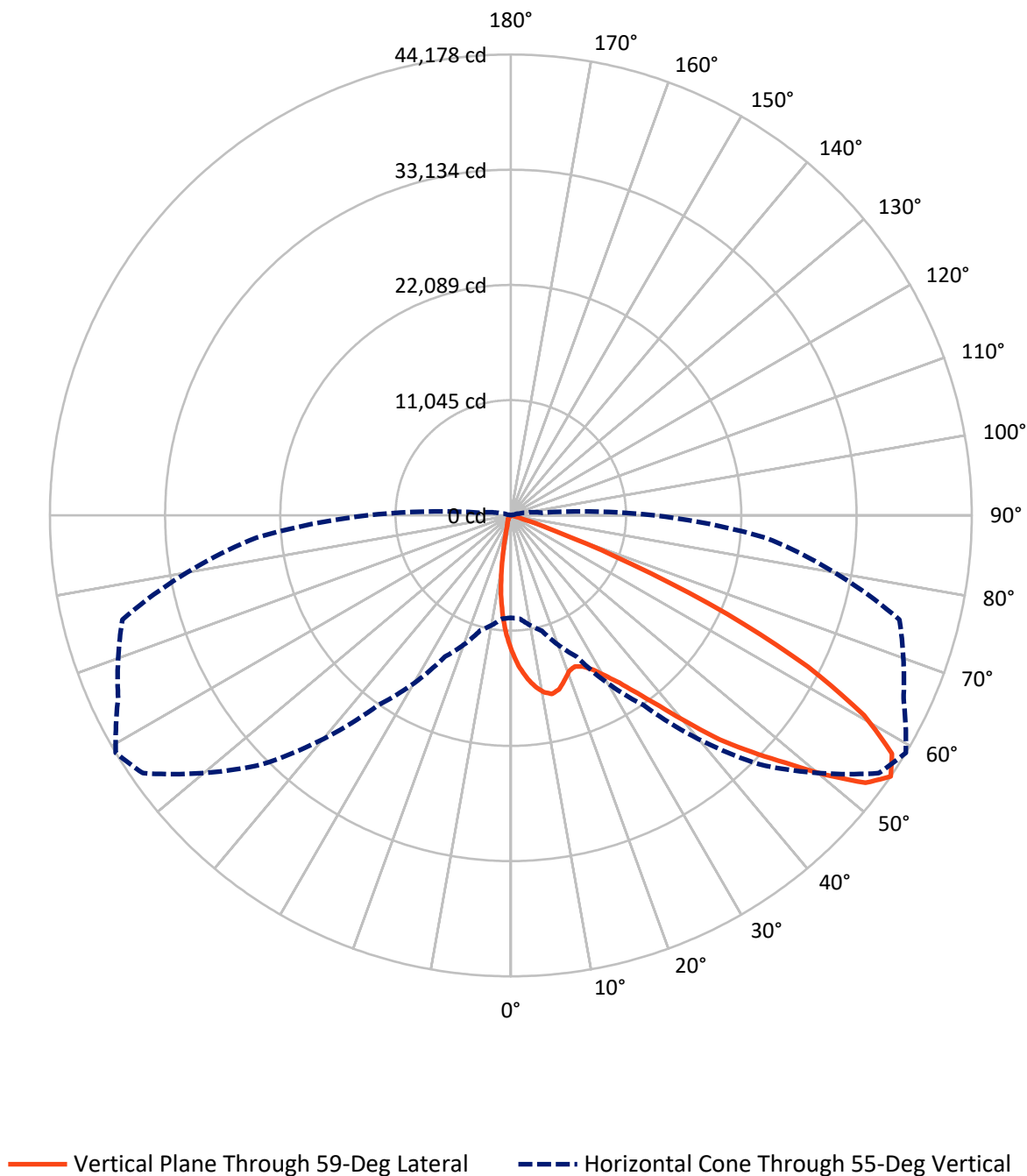


Based on 30 foot mounting height. Maximum calculated value = 18 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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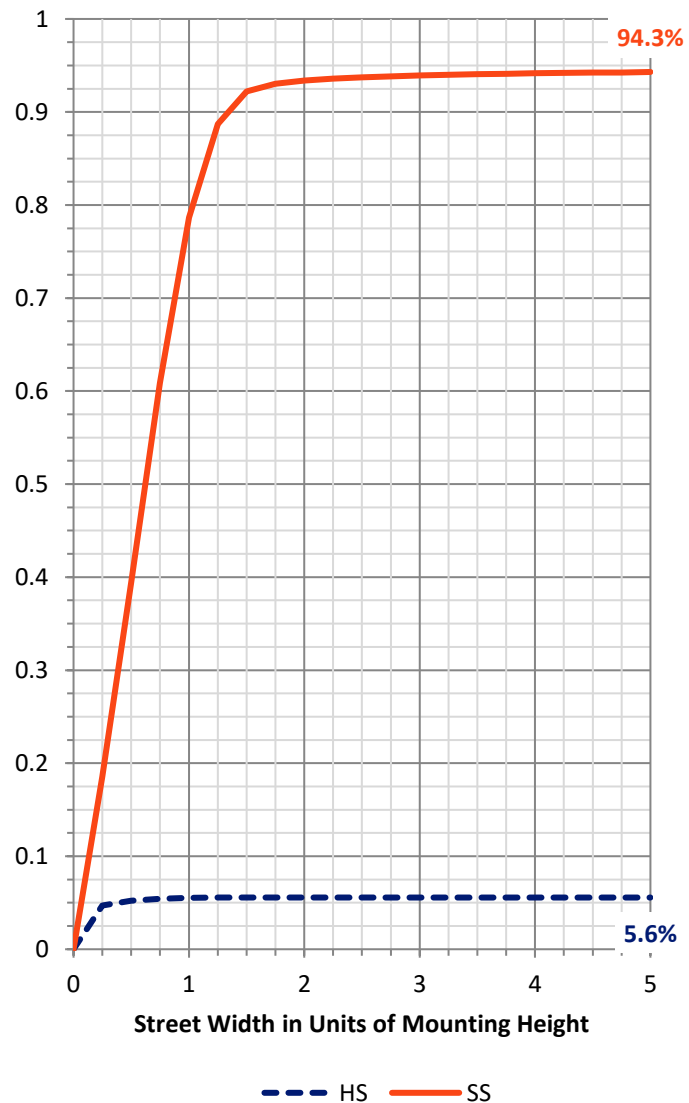
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2581.6	0.0	2581.6
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	43637.3	0.0	43637.3
	% Fixture	94.4	0.0	94.4
Total	Lumens	46218.8	0.0	46218.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1089.8	2.4
10°-20°	2609.2	5.6
20°-30°	4439.9	9.6
30°-40°	7635.6	16.5
40°-50°	11788.5	25.5
50°-60°	11851.2	25.6
60°-70°	6077.4	13.1
70°-80°	658.6	1.4
80°-90°	68.8	0.1
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°	46218.8	100.0
0°-180°	46218.8	100.0

Coefficient of Utilization



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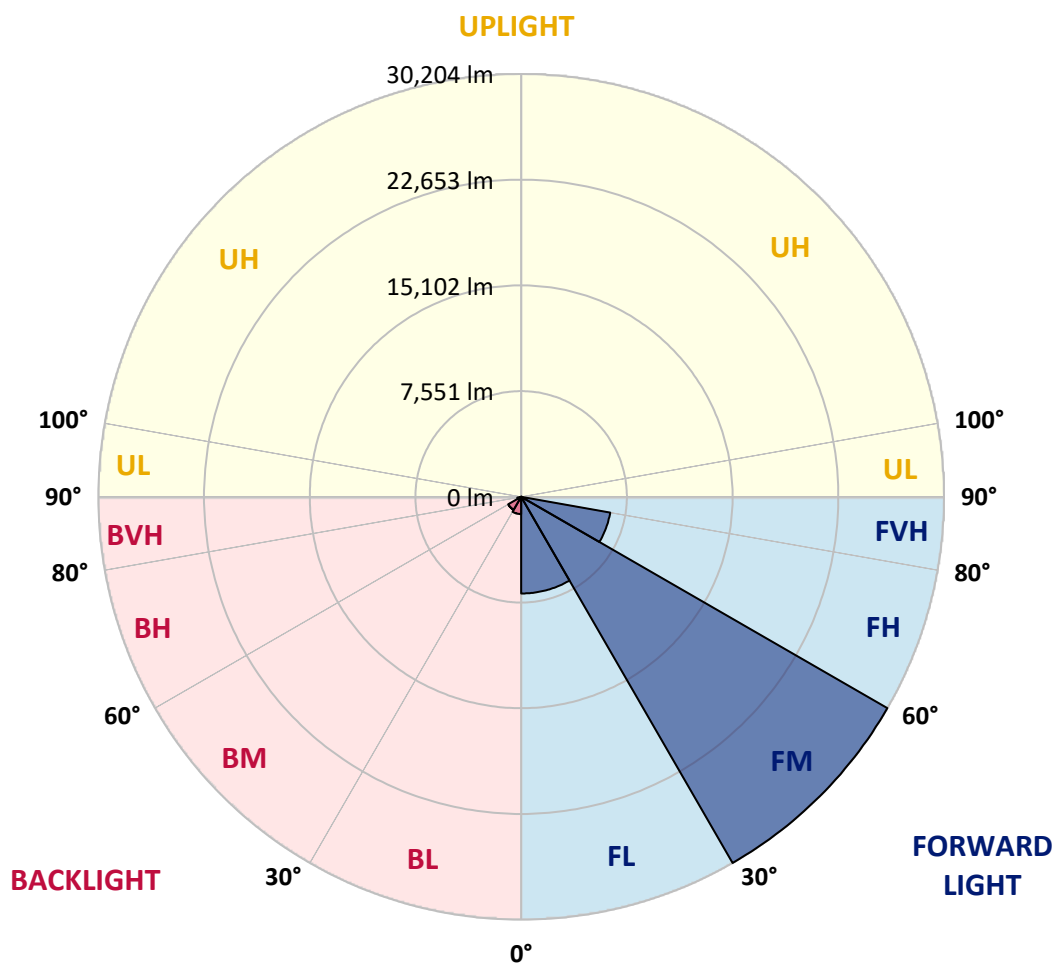
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6906.6	14.9			
FM	(30°-60°)	30203.8	65.3			
FH	(60°-80°)	6459.4	14.0			G3/7500
FVH	(80°-90°)	67.4	0.1			G1/100
BL	(0°-30°)	1232.2	2.7	B3/2500		
BM	(30°-60°)	1071.4	2.3	B2/2500		
BH	(60°-80°)	276.6	0.6	B1/500		G1/500
BVH	(80°-90°)	1.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	13010.5	13010.5	13010.5	13010.5	13010.5	13010.5	13010.5	13010.5	13010.5	13010.5	13010.5
2.5°	15394.3	15230.6	15181.6	15148.8	14998.8	14810.6	14554.2	14434.2	14188.7	13793.2	13307.8
5°	16804.5	16774.5	16665.4	16605.3	16444.4	16177.2	15768.0	15571.6	15181.6	14516.0	13645.9
7.5°	16188.1	16376.3	16526.2	16777.2	17093.6	17082.6	16738.9	16534.4	16098.0	15219.7	14022.4
10°	13806.9	13959.6	14205.2	14775.1	15937.1	16962.7	17366.3	17219.0	16869.9	15866.2	14385.1
12.5°	13340.4	13324.0	13367.8	13534.2	14142.4	15604.3	17260.0	17557.3	17486.4	16458.0	14728.8
15°	13588.7	13569.6	13564.1	13621.5	13768.8	14385.1	16460.8	17314.6	17862.8	17006.3	15020.6
17.5°	14284.2	14202.4	14158.7	14112.4	14068.8	14221.5	15500.7	16635.4	17920.0	17486.4	15263.4
20°	15476.1	15339.8	15178.9	14916.9	14671.6	14595.2	15097.0	15937.1	17715.6	17851.9	15421.6
22.5°	16973.5	16799.0	16520.8	16043.5	15544.4	15255.3	15296.1	15716.2	17410.0	18250.1	15495.2
25°	18656.4	18432.8	18061.8	17399.1	16665.4	16152.6	15885.3	16032.6	17270.8	18716.4	15579.9
27.5°	20459.4	20211.3	19725.6	18822.8	17990.9	17298.2	16752.6	16733.6	17508.1	19327.4	15716.2
30°	22246.0	22207.7	21575.0	20620.3	19518.4	18675.5	17890.0	17789.1	18171.0	20173.0	15986.2
32.5°	24629.9	24343.4	23568.9	22586.8	21315.8	20303.9	19373.9	19139.3	19188.3	21157.6	16403.5
35°	27635.6	27321.9	26230.9	24875.3	23454.2	22259.6	21231.3	20912.2	20792.1	22769.6	17107.3
37.5°	29577.6	29572.1	28887.5	27507.4	25982.7	24665.3	23547.0	23173.4	22930.6	24717.0	18198.2
40°	29629.5	29757.7	29847.7	29834.0	28748.4	27534.7	26541.8	26080.8	25516.3	27319.1	19608.4
42.5°	28039.3	28369.2	29163.1	30510.4	31154.1	30671.4	29834.0	29381.2	28541.1	30103.9	21326.8
45°	25890.0	26119.1	27507.4	29989.5	32457.8	33780.8	33142.4	32332.4	31225.1	33008.9	22867.9
47.5°	24927.2	24968.0	25865.4	28590.2	32556.1	36328.2	36715.6	35398.3	33663.6	35349.0	24073.4
50°	22049.6	22123.3	23361.5	26165.4	31405.1	37531.2	40305.0	39055.9	36322.8	37152.1	24512.6
52.5°	16619.0	16722.6	18293.8	22180.5	28241.2	37018.3	42874.4	42571.7	39235.9	38033.0	24537.1
55°	9805.6	9941.9	11442.0	14930.6	22213.2	33756.2	43065.4	44178.2	41535.2	38554.0	24498.8
57.5°	4579.6	4674.9	5534.2	7691.8	13815.1	26678.3	40190.6	43076.3	42803.5	38829.4	24769.0
60°	2432.9	2460.3	2667.6	3330.3	6243.4	16916.3	34579.9	38897.7	41647.0	39211.3	25098.9
62.5°	1860.1	1868.4	1857.5	1936.5	2623.9	7509.0	26138.2	31977.9	36991.2	38924.9	24733.4
65°	1612.0	1625.7	1549.3	1530.1	1682.9	2678.5	15527.9	22794.2	29067.6	35059.9	22243.2
67.5°	1445.6	1451.1	1358.3	1279.2	1306.5	1448.3	6126.0	12478.6	19240.2	25699.0	16122.7
70°	1331.0	1325.7	1224.7	1099.2	1063.7	990.1	1947.4	4574.1	9194.6	13032.2	7498.0
72.5°	1178.3	1181.0	1131.9	968.2	883.7	692.8	902.8	1333.7	2743.9	3551.3	1756.6
75°	1044.6	1031.0	971.0	867.4	728.2	455.5	447.3	594.6	845.5	840.1	379.1
77.5°	755.5	741.9	761.0	712.0	559.2	294.6	223.7	286.4	343.6	332.8	106.4
80°	553.7	545.5	491.0	591.8	493.7	201.8	139.1	152.8	177.3	150.0	32.8
82.5°	379.1	376.4	346.4	327.3	280.9	122.7	87.3	95.5	114.5	84.5	16.4
85°	60.0	68.2	251.0	199.1	166.4	54.5	60.0	65.4	76.4	46.3	5.5
87.5°	0.0	0.0	117.2	103.7	32.8	21.9	35.5	38.1	38.1	24.6	0.0
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°	13010.5	13010.5	13010.5	13010.5	13010.5	13010.5	13010.5	13010.5	13010.5	13010.5	13010.5
2.5°	13059.5	12786.8	12282.2	11761.2	11278.4	10702.9	10307.4	10010.2	9666.5	9573.8	9775.5
5°	13149.6	12634.0	11548.4	10367.4	9257.3	8027.2	7086.2	6341.5	5667.9	5438.7	5646.1
7.5°	13291.4	12524.9	10754.7	8810.0	6878.9	4958.7	3644.1	2779.3	2228.5	2064.8	2152.1
10°	13433.2	12366.7	9835.5	6966.2	4325.9	2413.9	1571.0	1254.7	1137.4	1112.8	1126.5
12.5°	13550.5	12154.0	8714.5	4953.3	2313.0	1292.9	1028.2	976.4	960.1	960.1	965.6
15°	13621.5	11832.1	7386.3	3150.3	1331.0	976.4	897.3	880.9	880.9	883.7	889.2
17.5°	13613.2	11423.0	5932.4	1906.6	995.6	864.7	818.3	804.5	801.9	807.3	810.0
20°	13512.3	10888.4	4473.2	1257.3	867.4	788.3	741.9	717.4	714.7	720.1	725.5
22.5°	13321.4	10228.3	3199.4	968.2	782.9	714.7	657.3	635.6	635.6	641.1	646.4
25°	13089.6	9421.0	2187.5	821.0	706.5	635.6	580.9	561.9	567.4	580.9	583.7
27.5°	12800.4	8512.7	1486.5	703.7	613.7	556.4	515.4	501.8	515.4	534.6	540.1
30°	12552.2	7566.2	1061.0	608.2	520.9	480.0	455.5	455.5	474.6	510.0	518.2
32.5°	12361.3	6649.7	818.3	537.3	452.8	417.4	403.7	417.4	447.3	482.8	491.0
35°	12336.7	5894.2	692.8	480.0	403.7	368.2	362.7	387.4	417.4	444.5	450.0
37.5°	12524.9	5196.1	624.6	433.6	360.0	327.3	321.9	351.9	381.9	414.6	422.8
40°	12882.2	4647.8	575.5	390.0	324.6	289.1	278.2	300.0	341.0	384.6	395.5
42.5°	13345.9	4195.0	520.9	346.4	289.1	240.1	226.3	251.0	294.6	341.0	354.5
45°	13787.8	3805.0	461.0	297.3	242.8	185.5	180.1	212.7	234.6	280.9	291.8
47.5°	14030.5	3461.3	409.1	242.8	188.3	150.0	150.0	158.2	180.1	234.6	245.5
50°	13948.7	3185.8	354.5	180.1	130.9	114.5	114.5	111.9	144.5	188.3	196.3
52.5°	13785.0	3027.6	305.5	139.1	90.0	81.8	73.6	81.8	100.9	119.9	122.7
55°	13760.5	3000.3	256.4	111.9	62.8	54.5	40.9	40.9	40.9	38.1	32.8
57.5°	13951.5	3044.0	215.5	90.0	46.3	35.5	21.9	0.0	0.0	0.0	0.0
60°	14147.9	3090.3	185.5	62.8	32.8	19.1	2.7	0.0	0.0	0.0	0.0
62.5°	13820.5	2986.7	155.4	38.1	24.6	8.2	0.0	0.0	0.0	0.0	0.0
65°	12140.4	2542.1	122.7	27.4	16.4	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	8635.5	1702.0	81.8	16.4	2.7	0.0	0.0	0.0	0.0	0.0	0.0
70°	3941.3	712.0	51.8	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	842.8	220.9	35.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	171.9	160.9	13.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	54.5	253.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	32.8	182.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	5.5	27.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)