

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: P194282

Luminaire Tested: **GLEON-AF-04-LED-E1-AFL-7060-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194282
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-04-LED-E1-AFL-7060-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 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: 21563 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 258
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

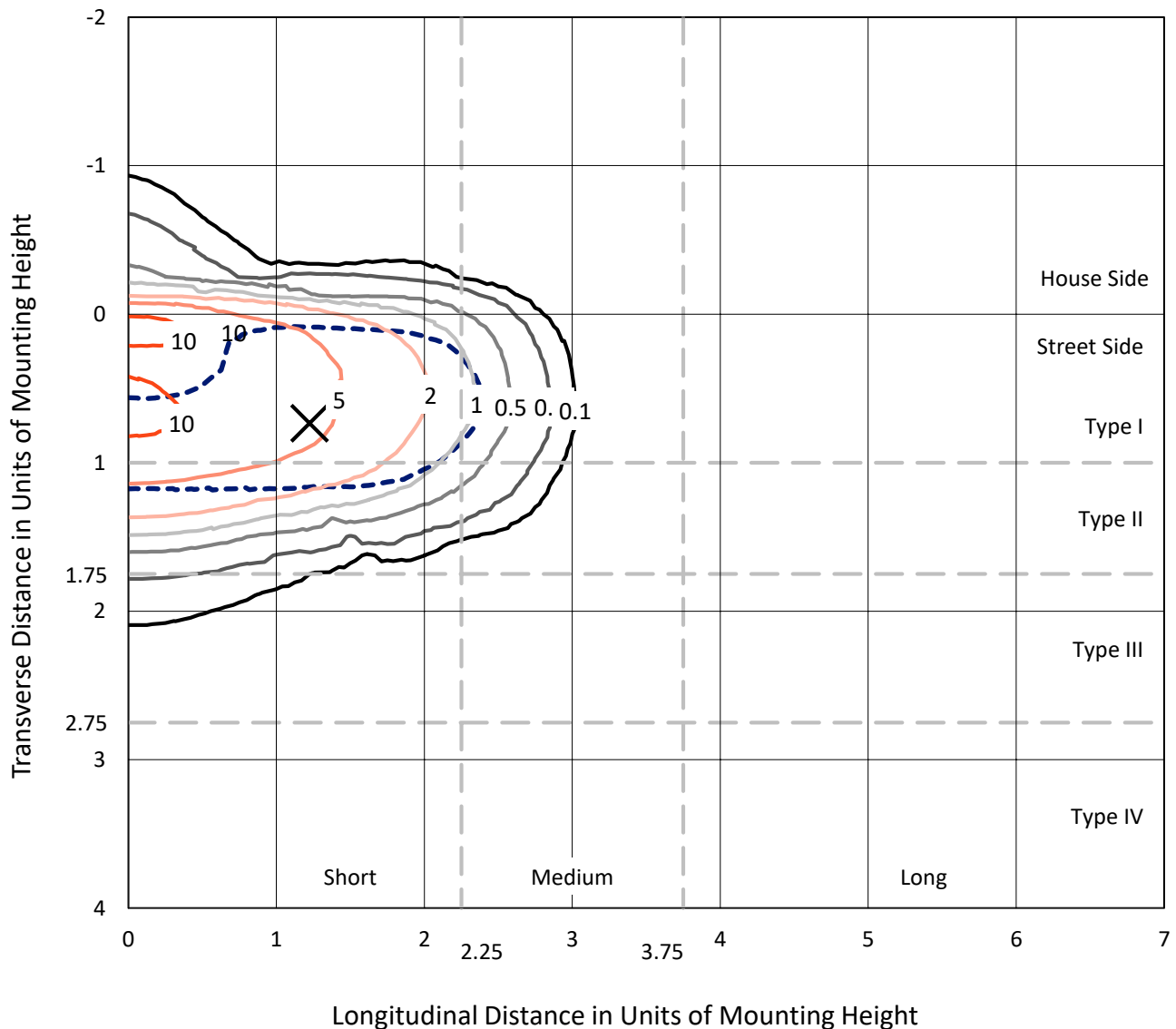


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

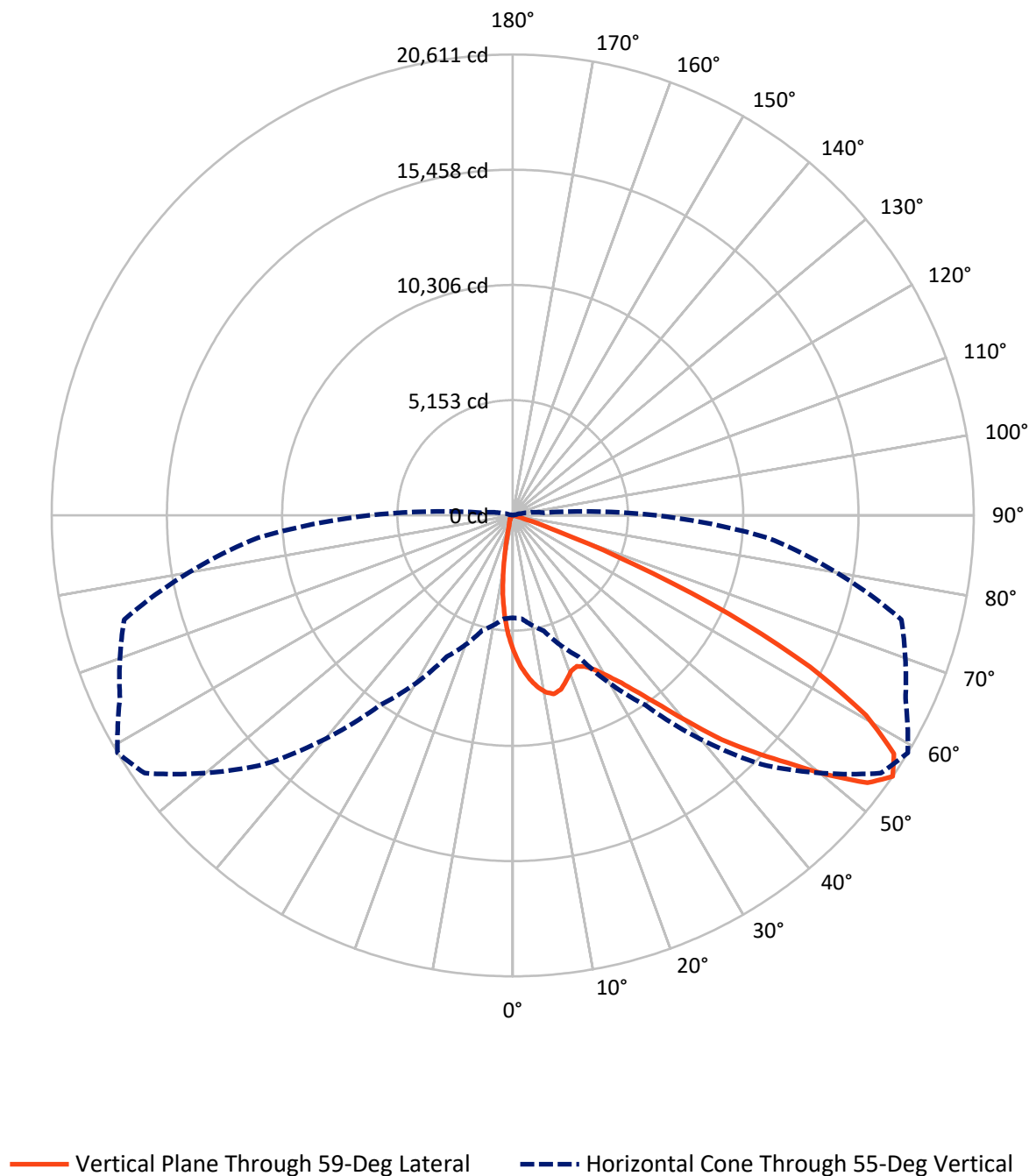


Based on 25 foot mounting height. Maximum calculated value = 12.1 fc
Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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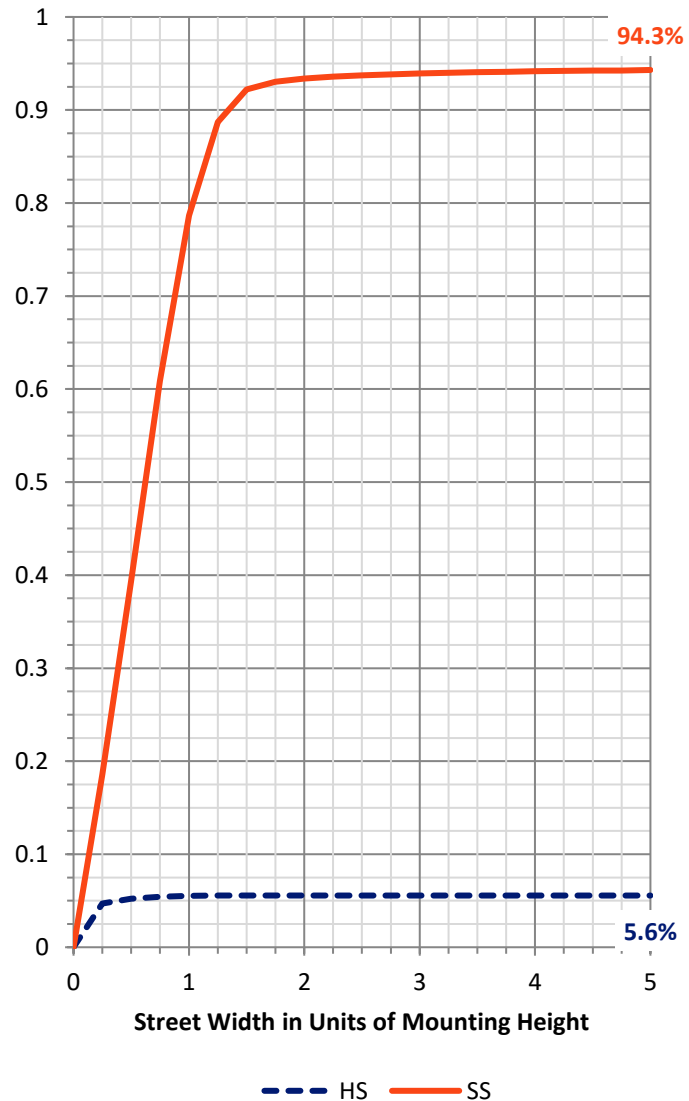
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1204.4	0.0	1204.4
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	20358.6	0.0	20358.6
	% Fixture	94.4	0.0	94.4
Total	Lumens	21563.0	0.0	21563.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	508.4	2.4
10°-20°	1217.3	5.6
20°-30°	2071.4	9.6
30°-40°	3562.3	16.5
40°-50°	5499.8	25.5
50°-60°	5529.1	25.6
60°-70°	2835.3	13.1
70°-80°	307.3	1.4
80°-90°	32.1	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°	21563.0	100.0
0°-180°	21563.0	100.0

Coefficient of Utilization



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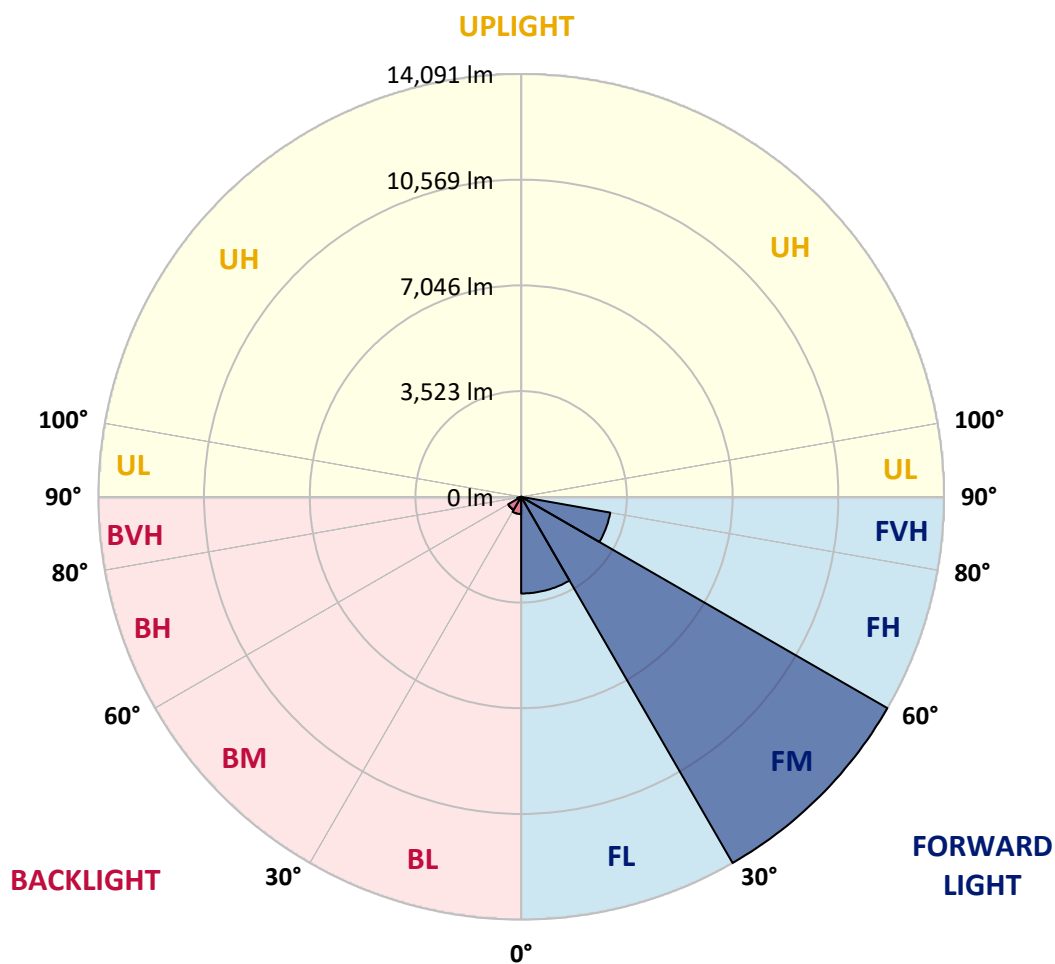
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3222.2	14.9			
FM	(30°-60°)	14091.3	65.3			
FH	(60°-80°)	3013.6	14.0			G2/5000
FVH	(80°-90°)	31.5	0.1			G1/100
BL	(0°-30°)	574.9	2.7	B2/1000		
BM	(30°-60°)	499.9	2.3	B1/1000		
BH	(60°-80°)	129.0	0.6	B1/500		G1/500
BVH	(80°-90°)	0.7	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	6069.9	6069.9	6069.9	6069.9	6069.9	6069.9	6069.9	6069.9	6069.9	6069.9	6069.9
2.5°	7182.1	7105.7	7082.8	7067.6	6997.6	6909.8	6790.2	6734.2	6619.6	6435.1	6208.6
5°	7840.0	7826.0	7775.1	7747.1	7672.0	7547.3	7356.4	7264.8	7082.8	6772.3	6366.4
7.5°	7552.4	7640.2	7710.2	7827.3	7974.9	7969.8	7809.4	7714.0	7510.4	7100.6	6542.0
10°	6441.5	6512.7	6627.3	6893.2	7435.3	7913.8	8102.1	8033.4	7870.5	7402.2	6711.3
12.5°	6223.9	6216.2	6236.6	6314.2	6598.0	7280.1	8052.5	8191.2	8158.1	7678.4	6871.6
15°	6339.7	6330.8	6328.2	6355.0	6423.7	6711.3	7679.6	8077.9	8333.7	7934.1	7007.8
17.5°	6664.2	6626.0	6605.6	6584.0	6563.6	6634.9	7231.7	7761.1	8360.4	8158.1	7121.0
20°	7220.3	7156.6	7081.6	6959.4	6844.9	6809.2	7043.4	7435.3	8265.0	8328.6	7194.8
22.5°	7918.9	7837.4	7707.6	7484.9	7252.1	7117.2	7136.3	7332.2	8122.5	8514.4	7229.2
25°	8704.0	8599.7	8426.6	8117.4	7775.1	7535.8	7411.1	7479.9	8057.6	8732.0	7268.6
27.5°	9545.2	9429.4	9202.8	8781.6	8393.5	8070.3	7815.8	7806.9	8168.3	9017.1	7332.2
30°	10378.6	10360.8	10065.6	9620.2	9106.1	8712.9	8346.4	8299.4	8477.5	9411.5	7458.2
32.5°	11490.8	11357.2	10995.8	10537.7	9944.7	9472.6	9038.7	8929.3	8952.2	9870.9	7652.9
35°	12893.1	12746.8	12237.8	11605.4	10942.4	10385.0	9905.3	9756.4	9700.4	10623.0	7981.2
37.5°	13799.2	13796.6	13477.2	12833.3	12122.0	11507.4	10985.6	10811.3	10698.1	11531.6	8490.2
40°	13823.4	13883.2	13925.2	13918.8	13412.3	12846.1	12382.9	12167.8	11904.4	12745.5	9148.1
42.5°	13081.5	13235.5	13605.8	14234.4	14534.7	14309.5	13918.8	13707.6	13315.6	14044.8	9949.8
45°	12078.7	12185.6	12833.3	13991.3	15143.0	15760.1	15462.4	15084.4	14567.8	15400.0	10668.8
47.5°	11629.5	11648.6	12067.3	13338.5	15188.8	16948.7	17129.4	16514.7	15705.4	16491.8	11231.2
50°	10287.0	10321.4	10899.1	12207.3	14651.8	17509.8	18804.0	18221.2	16946.1	17333.0	11436.1
52.5°	7753.4	7801.8	8534.8	10348.1	13175.6	17270.6	20002.7	19861.4	18305.2	17744.0	11447.6
55°	4574.7	4638.3	5338.2	6965.8	10363.4	15748.7	20091.8	20611.0	19377.9	17987.0	11429.7
57.5°	2136.6	2181.1	2581.9	3588.5	6445.3	12446.5	18750.5	20096.9	19969.6	18115.6	11555.7
60°	1135.1	1147.8	1244.5	1553.7	2912.8	7892.2	16133.0	18147.4	19430.1	18293.7	11709.7
62.5°	867.9	871.7	866.6	903.5	1224.2	3503.2	12194.5	14919.0	17257.9	18160.1	11539.2
65°	752.1	758.4	722.8	713.9	785.1	1249.6	7244.4	10634.4	13561.2	16356.9	10377.4
67.5°	674.4	677.0	633.7	596.8	609.5	675.7	2858.1	5821.8	8976.3	11989.7	7521.8
70°	621.0	618.4	571.4	512.8	496.3	461.9	908.6	2134.0	4289.7	6080.1	3498.1
72.5°	549.7	551.0	528.1	451.7	412.3	323.2	421.2	622.3	1280.2	1656.8	819.5
75°	487.4	481.0	453.0	404.7	339.8	212.5	208.7	277.4	394.5	391.9	176.9
77.5°	352.5	346.1	355.0	332.1	260.9	137.4	104.3	133.6	160.3	155.2	49.6
80°	258.3	254.5	229.1	276.1	230.3	94.2	64.9	71.3	82.7	70.0	15.3
82.5°	176.9	175.6	161.6	152.7	131.1	57.3	40.7	44.5	53.4	39.4	7.6
85°	28.0	31.8	117.1	92.9	77.6	25.5	28.0	30.5	35.6	21.6	2.5
87.5°	0.0	0.0	54.7	48.4	15.3	10.2	16.5	17.8	17.8	11.5	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°	6069.9	6069.9	6069.9	6069.9	6069.9	6069.9	6069.9	6069.9	6069.9	6069.9	6069.9
2.5°	6092.8	5965.6	5730.1	5487.1	5261.9	4993.4	4808.8	4670.1	4509.8	4466.5	4560.7
5°	6134.8	5894.3	5387.8	4836.8	4318.9	3745.0	3306.0	2958.6	2644.3	2537.4	2634.1
7.5°	6201.0	5843.4	5017.5	4110.2	3209.3	2313.4	1700.1	1296.7	1039.6	963.3	1004.0
10°	6267.1	5769.6	4588.7	3250.0	2018.2	1126.2	733.0	585.4	530.6	519.2	525.5
12.5°	6321.9	5670.3	4065.7	2310.9	1079.1	603.2	479.7	455.6	447.9	447.9	450.5
15°	6355.0	5520.2	3446.0	1469.8	621.0	455.6	418.7	411.0	411.0	412.3	414.8
17.5°	6351.1	5329.3	2767.7	889.5	464.5	403.4	381.8	375.4	374.1	376.7	377.9
20°	6304.0	5079.9	2086.9	586.6	404.7	367.8	346.1	334.7	333.4	335.9	338.5
22.5°	6215.0	4771.9	1492.7	451.7	365.2	333.4	306.7	296.5	296.5	299.0	301.6
25°	6106.8	4395.3	1020.6	383.0	329.6	296.5	271.0	262.1	264.7	271.0	272.3
27.5°	5971.9	3971.5	693.5	328.3	286.3	259.6	240.5	234.1	240.5	249.4	252.0
30°	5856.1	3530.0	495.0	283.8	243.1	224.0	212.5	212.5	221.4	238.0	241.8
32.5°	5767.0	3102.4	381.8	250.7	211.2	194.7	188.3	194.7	208.7	225.2	229.1
35°	5755.6	2749.9	323.2	224.0	188.3	171.8	169.2	180.7	194.7	207.4	210.0
37.5°	5843.4	2424.1	291.4	202.3	168.0	152.7	150.2	164.2	178.2	193.4	197.2
40°	6010.1	2168.4	268.5	182.0	151.4	134.9	129.8	140.0	159.1	179.4	184.5
42.5°	6226.4	1957.1	243.1	161.6	134.9	112.0	105.6	117.1	137.4	159.1	165.4
45°	6432.6	1775.2	215.1	138.7	113.3	86.5	84.0	99.3	109.4	131.1	136.2
47.5°	6545.8	1614.8	190.9	113.3	87.8	70.0	70.0	73.8	84.0	109.4	114.5
50°	6507.7	1486.3	165.4	84.0	61.1	53.4	53.4	52.2	67.4	87.8	91.6
52.5°	6431.3	1412.5	142.5	64.9	42.0	38.2	34.4	38.2	47.1	56.0	57.3
55°	6419.8	1399.8	119.6	52.2	29.3	25.5	19.1	19.1	19.1	17.8	15.3
57.5°	6508.9	1420.1	100.5	42.0	21.6	16.5	10.2	0.0	0.0	0.0	0.0
60°	6600.5	1441.8	86.5	29.3	15.3	8.9	1.3	0.0	0.0	0.0	0.0
62.5°	6447.8	1393.4	72.5	17.8	11.5	3.8	0.0	0.0	0.0	0.0	0.0
65°	5664.0	1186.0	57.3	12.7	7.6	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4028.8	794.1	38.2	7.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	1838.8	332.1	24.2	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	393.2	103.1	16.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	80.2	75.1	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	25.5	118.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	15.3	85.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.5	12.7	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)