

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: P194251

Luminaire Tested: **GLEON-AF-03-LED-E1-AFL-7060-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194251
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-03-LED-E1-AFL-7060-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 615mA 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: 9801 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 96
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

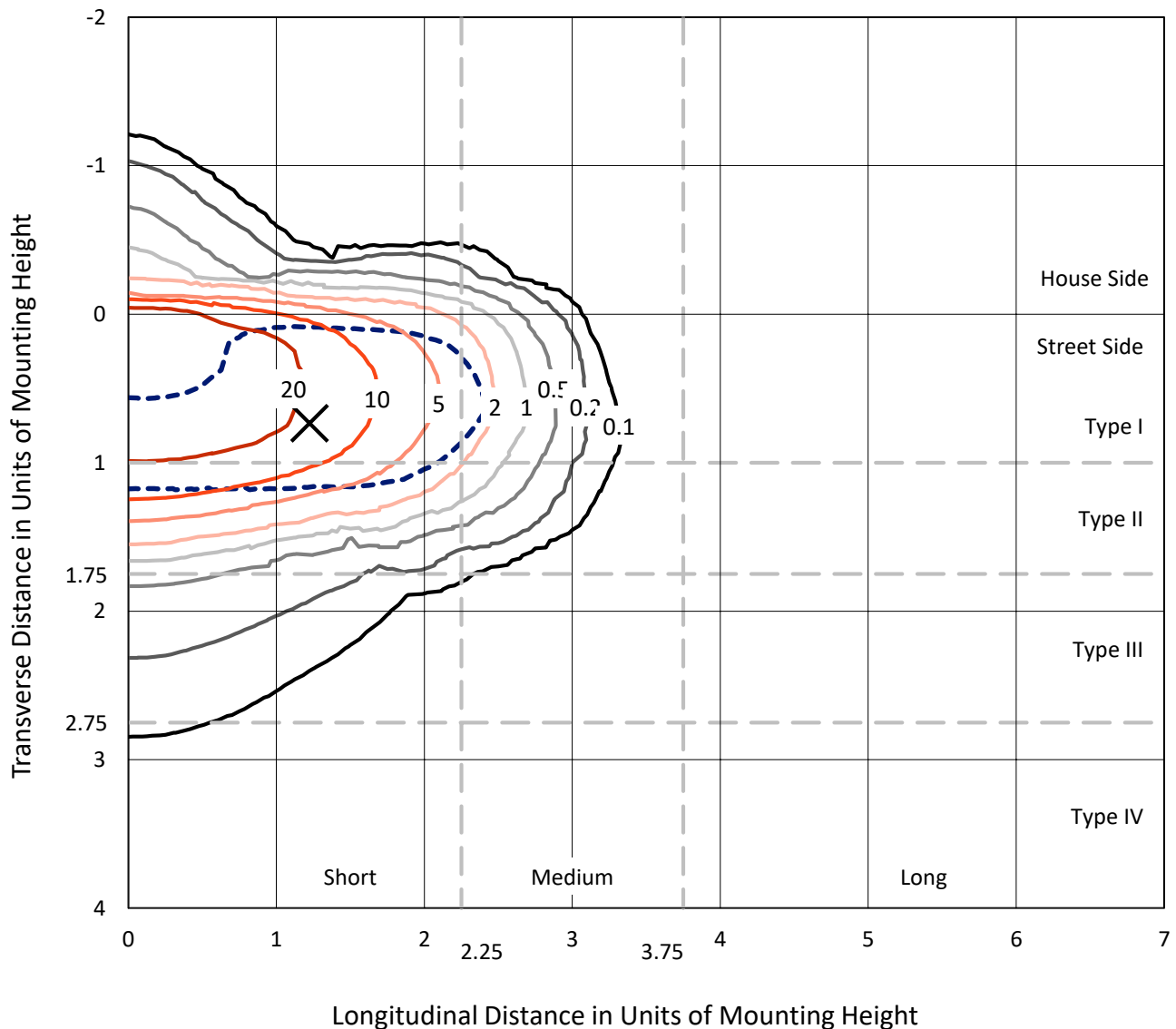


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

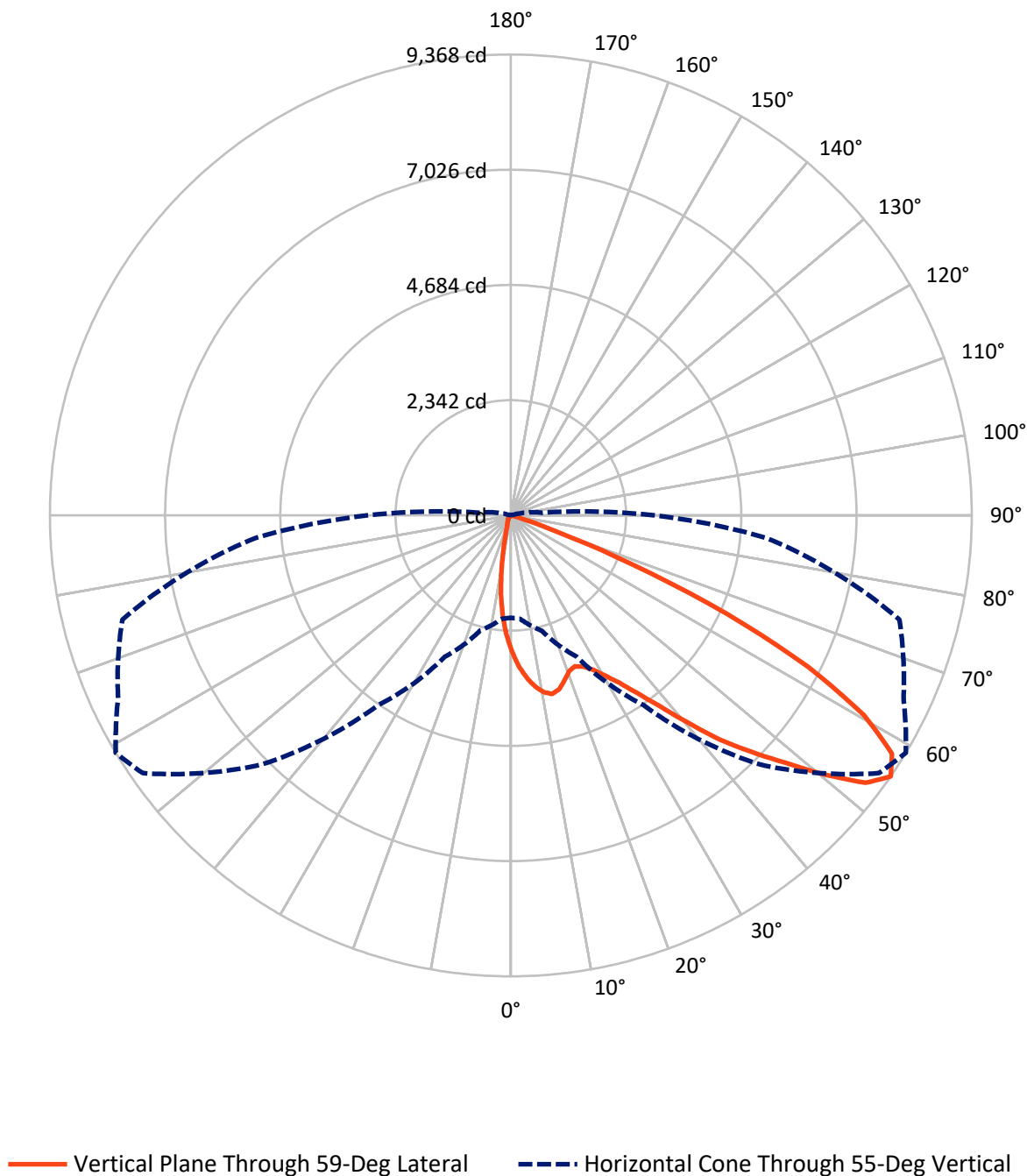


Based on 10 foot mounting height. Maximum calculated value = 34.3 fc
Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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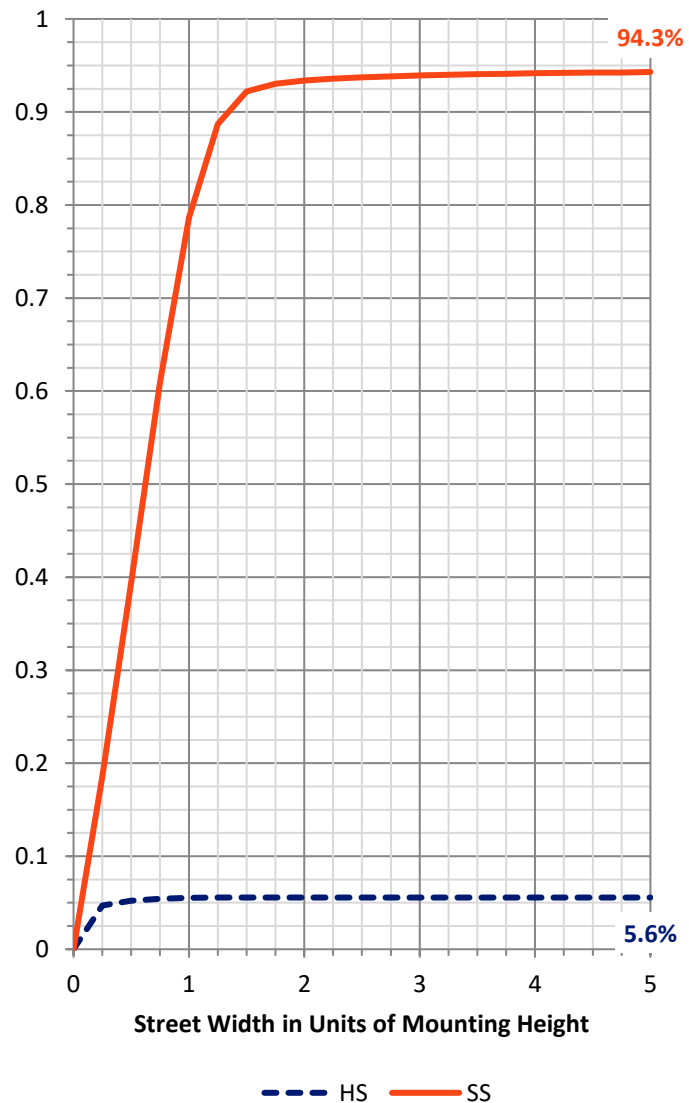
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	547.4	0.0	547.4
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	9253.6	0.0	9253.6
	% Fixture	94.4	0.0	94.4
Total	Lumens	9801.0	0.0	9801.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.1	2.4
10°-20°	553.3	5.6
20°-30°	941.5	9.6
30°-40°	1619.2	16.5
40°-50°	2499.8	25.5
50°-60°	2513.1	25.6
60°-70°	1288.7	13.1
70°-80°	139.7	1.4
80°-90°	14.6	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°	9801.0	100.0
0°-180°	9801.0	100.0

Coefficient of Utilization



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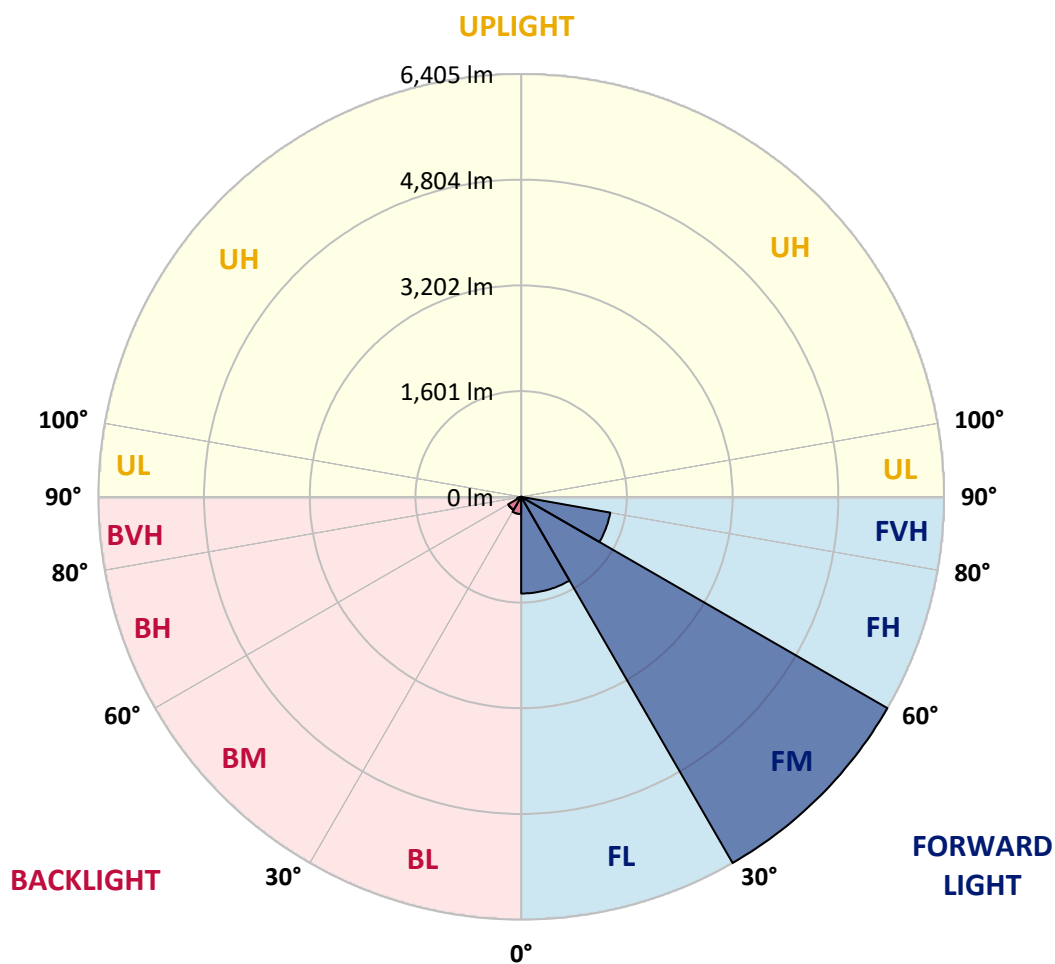
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1464.6	14.9			
FM	(30°-60°)	6404.9	65.3			
FH	(60°-80°)	1369.8	14.0			G1/1800
FVH	(80°-90°)	14.3	0.1			G1/100
BL	(0°-30°)	261.3	2.7	B1/500		
BM	(30°-60°)	227.2	2.3	B1/1000		
BH	(60°-80°)	58.7	0.6	B0/110		G0/110
BVH	(80°-90°)	0.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9
2.5°	3264.5	3229.8	3219.3	3212.4	3180.6	3140.7	3086.3	3060.9	3008.8	2924.9	2822.0
5°	3563.5	3557.1	3534.0	3521.3	3487.1	3430.5	3343.7	3302.1	3219.3	3078.2	2893.7
7.5°	3432.8	3472.7	3504.5	3557.7	3624.8	3622.5	3549.6	3506.2	3413.7	3227.4	2973.5
10°	2927.8	2960.2	3012.3	3133.2	3379.6	3597.0	3682.6	3651.4	3577.4	3364.5	3050.5
12.5°	2828.9	2825.5	2834.7	2870.0	2999.0	3309.0	3660.1	3723.1	3708.1	3490.0	3123.3
15°	2881.6	2877.5	2876.4	2888.5	2919.7	3050.5	3490.6	3671.7	3787.9	3606.3	3185.2
17.5°	3029.1	3011.7	3002.5	2992.6	2983.4	3015.8	3287.0	3527.6	3800.1	3708.1	3236.7
20°	3281.8	3252.9	3218.8	3163.2	3111.2	3095.0	3201.4	3379.6	3756.7	3785.6	3270.2
22.5°	3599.4	3562.3	3503.3	3402.1	3296.3	3235.0	3243.6	3332.7	3691.9	3870.0	3285.9
25°	3956.2	3908.8	3830.1	3689.6	3534.0	3425.3	3368.6	3399.8	3662.4	3968.9	3303.8
27.5°	4338.5	4285.9	4183.0	3991.5	3815.1	3668.2	3552.5	3548.5	3712.7	4098.5	3332.7
30°	4717.4	4709.3	4575.1	4372.7	4139.0	3960.3	3793.7	3772.3	3853.3	4277.8	3390.0
32.5°	5222.9	5162.2	4997.9	4789.7	4520.2	4305.6	4108.3	4058.6	4069.0	4486.6	3478.5
35°	5860.3	5793.8	5562.4	5275.0	4973.6	4720.3	4502.2	4434.6	4409.1	4828.4	3627.7
37.5°	6272.1	6271.0	6125.8	5833.1	5509.8	5230.4	4993.3	4914.0	4862.6	5241.4	3859.1
40°	6283.1	6310.3	6329.4	6326.5	6096.3	5838.9	5628.4	5530.6	5410.9	5793.2	4158.1
42.5°	5945.9	6015.9	6184.2	6469.9	6606.4	6504.1	6326.5	6230.5	6052.3	6383.8	4522.5
45°	5490.1	5538.7	5833.1	6359.5	6882.9	7163.4	7028.1	6856.3	6621.5	6999.7	4849.3
47.5°	5286.0	5294.6	5484.9	6062.7	6903.7	7703.6	7785.8	7506.4	7138.6	7496.0	5104.9
50°	4675.7	4691.4	4954.0	5548.5	6659.6	7958.7	8546.9	8282.0	7702.5	7878.3	5198.0
52.5°	3524.2	3546.1	3879.3	4703.5	5988.7	7850.0	9091.8	9027.6	8320.2	8065.1	5203.2
55°	2079.3	2108.3	2426.4	3166.1	4710.5	7158.2	9132.3	9368.3	8807.8	8175.6	5195.1
57.5°	971.1	991.4	1173.6	1631.1	2929.6	5657.3	8522.7	9134.6	9076.8	8234.0	5252.4
60°	515.9	521.7	565.7	706.2	1323.9	3587.2	7332.9	8248.5	8831.5	8315.0	5322.4
62.5°	394.5	396.2	393.9	410.7	556.4	1592.3	5542.8	6781.1	7844.2	8254.3	5244.9
65°	341.8	344.7	328.5	324.5	356.9	568.0	3292.8	4833.7	6164.0	7434.7	4716.8
67.5°	306.5	307.7	288.0	271.3	277.1	307.1	1299.1	2646.2	4080.0	5449.6	3418.9
70°	282.3	281.1	259.7	233.1	225.6	210.0	413.0	970.0	1949.8	2763.6	1590.0
72.5°	249.9	250.4	240.0	205.3	187.4	146.9	191.4	282.8	581.9	753.1	372.5
75°	221.5	218.6	205.9	183.9	154.4	96.6	94.9	126.1	179.3	178.1	80.4
77.5°	160.2	157.3	161.4	151.0	118.6	62.5	47.4	60.7	72.9	70.6	22.6
80°	117.4	115.7	104.1	125.5	104.7	42.8	29.5	32.4	37.6	31.8	6.9
82.5°	80.4	79.8	73.5	69.4	59.6	26.0	18.5	20.2	24.3	17.9	3.5
85°	12.7	14.5	53.2	42.2	35.3	11.6	12.7	13.9	16.2	9.8	1.2
87.5°	0.0	0.0	24.9	22.0	6.9	4.6	7.5	8.1	8.1	5.2	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°	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9	2758.9
2.5°	2769.4	2711.5	2604.5	2494.0	2391.7	2269.6	2185.8	2122.7	2049.8	2030.2	2073.0
5°	2788.4	2679.1	2448.9	2198.5	1963.1	1702.2	1502.7	1344.8	1201.9	1153.3	1197.3
7.5°	2818.5	2656.0	2280.6	1868.2	1458.7	1051.5	772.7	589.4	472.5	437.8	456.4
10°	2848.6	2622.4	2085.7	1477.2	917.3	511.9	333.2	266.1	241.2	236.0	238.9
12.5°	2873.5	2577.3	1848.0	1050.4	490.5	274.2	218.1	207.1	203.6	203.6	204.8
15°	2888.5	2509.1	1566.3	668.0	282.3	207.1	190.3	186.8	186.8	187.4	188.6
17.5°	2886.8	2422.3	1258.0	404.3	211.1	183.4	173.5	170.6	170.0	171.2	171.8
20°	2865.4	2309.0	948.6	266.6	183.9	167.2	157.3	152.1	151.5	152.7	153.9
22.5°	2824.9	2169.0	678.5	205.3	166.0	151.5	139.4	134.8	134.8	135.9	137.1
25°	2775.7	1997.8	463.9	174.1	149.8	134.8	123.2	119.1	120.3	123.2	123.8
27.5°	2714.4	1805.2	315.2	149.2	130.1	118.0	109.3	106.4	109.3	113.4	114.5
30°	2661.8	1604.5	225.0	129.0	110.5	101.8	96.6	96.6	100.6	108.2	109.9
32.5°	2621.3	1410.1	173.5	113.9	96.0	88.5	85.6	88.5	94.9	102.4	104.1
35°	2616.1	1249.9	146.9	101.8	85.6	78.1	76.9	82.1	88.5	94.3	95.4
37.5°	2656.0	1101.8	132.5	92.0	76.3	69.4	68.3	74.6	81.0	87.9	89.7
40°	2731.8	985.6	122.0	82.7	68.8	61.3	59.0	63.6	72.3	81.6	83.9
42.5°	2830.1	889.6	110.5	73.5	61.3	50.9	48.0	53.2	62.5	72.3	75.2
45°	2923.8	806.9	97.7	63.0	51.5	39.3	38.2	45.1	49.7	59.6	61.9
47.5°	2975.3	734.0	86.8	51.5	39.9	31.8	31.8	33.5	38.2	49.7	52.1
50°	2957.9	675.6	75.2	38.2	27.8	24.3	24.3	23.7	30.7	39.9	41.6
52.5°	2923.2	642.0	64.8	29.5	19.1	17.4	15.6	17.4	21.4	25.4	26.0
55°	2918.0	636.2	54.4	23.7	13.3	11.6	8.7	8.7	8.7	8.1	6.9
57.5°	2958.5	645.5	45.7	19.1	9.8	7.5	4.6	0.0	0.0	0.0	0.0
60°	3000.1	655.3	39.3	13.3	6.9	4.0	0.6	0.0	0.0	0.0	0.0
62.5°	2930.7	633.3	33.0	8.1	5.2	1.7	0.0	0.0	0.0	0.0	0.0
65°	2574.4	539.1	26.0	5.8	3.5	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1831.2	360.9	17.4	3.5	0.6	0.0	0.0	0.0	0.0	0.0	0.0
70°	835.8	151.0	11.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	178.7	46.9	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	36.4	34.1	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	11.6	53.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	6.9	38.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.2	5.8	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)