

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: P300890

Luminaire Tested: **GLNA-AF-09-LED-E1-SL4-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300890
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: GLNA-AF-09-LED-E1-SL4-8030
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Square Wide OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41120.4 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G5

Input Watts (W): 501
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

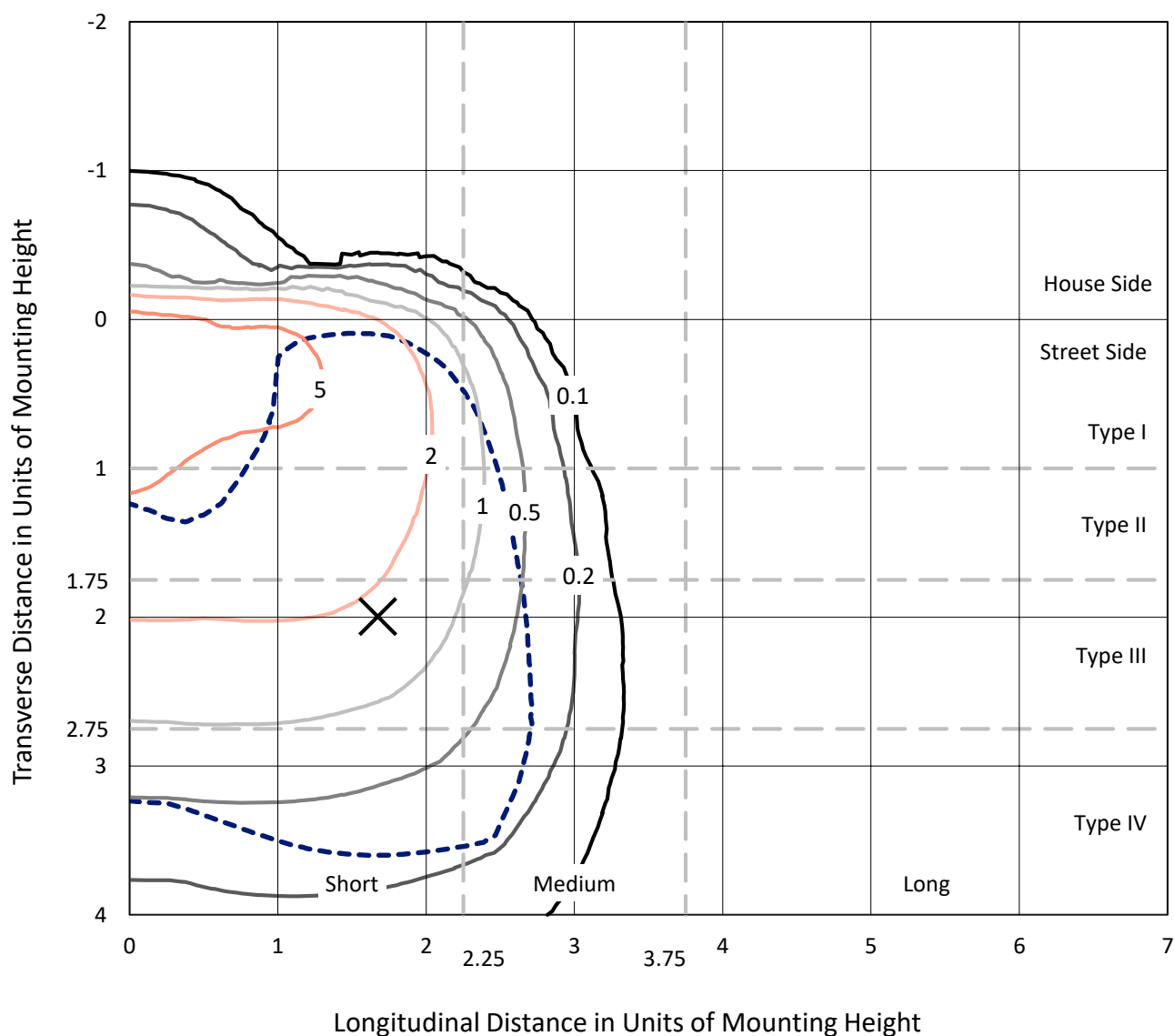


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

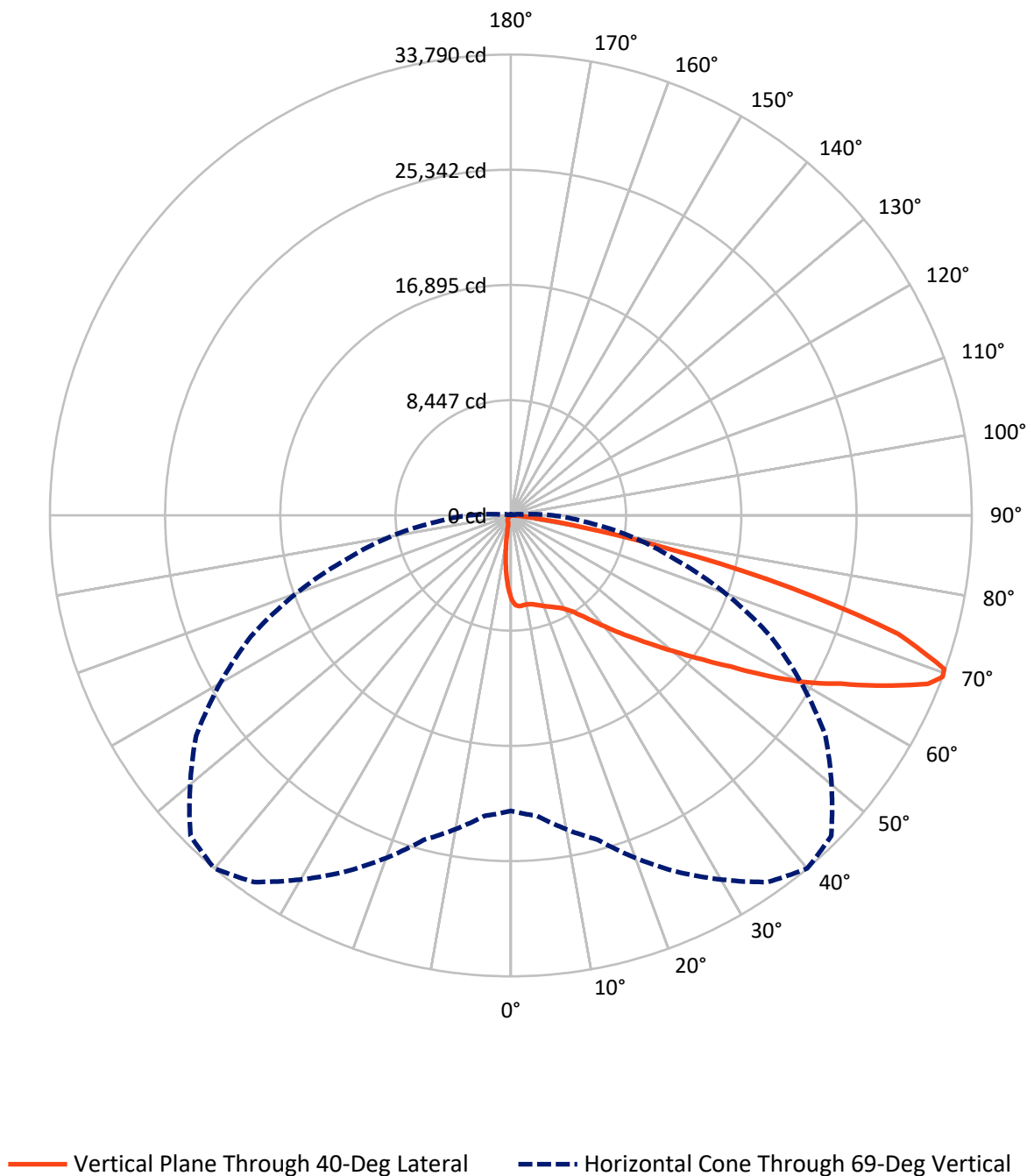


Based on 30 foot mounting height. Maximum calculated value = 7.5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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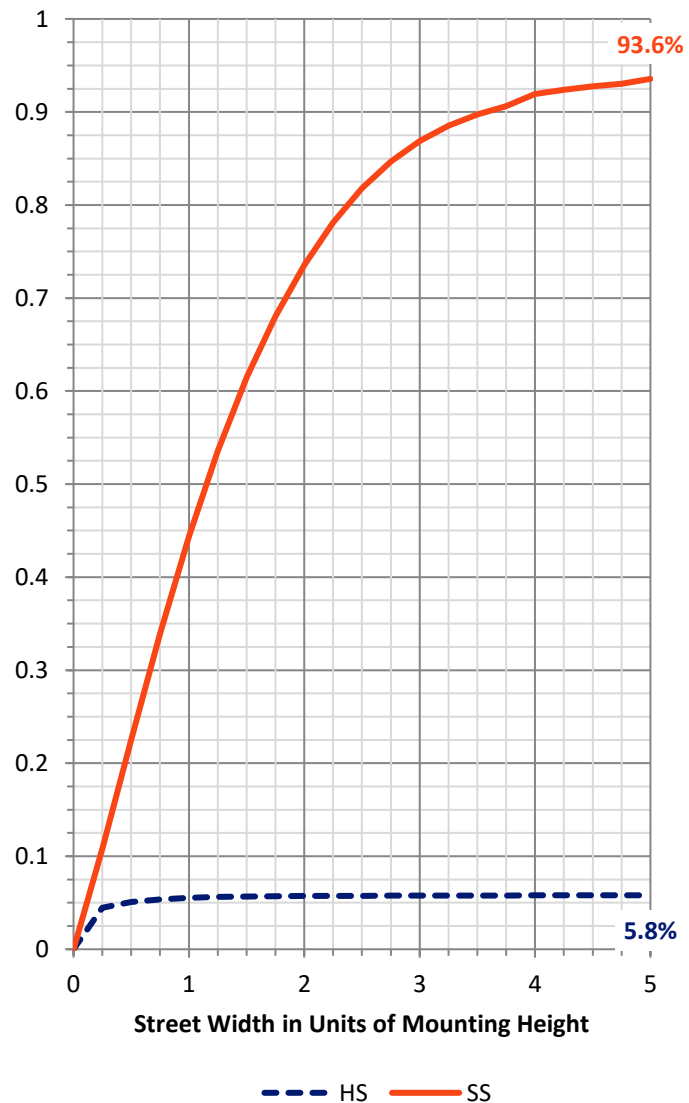
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2405.8	0.0	2405.8
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	38714.6	0.0	38714.6
	% Fixture	94.1	0.0	94.1
Total	Lumens	41120.4	0.0	41120.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	498.1	1.2
10°-20°	1225.0	3.0
20°-30°	2063.3	5.0
30°-40°	3377.7	8.2
40°-50°	5848.3	14.2
50°-60°	9211.7	22.4
60°-70°	12030.1	29.3
70°-80°	6196.0	15.1
80°-90°	670.2	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°	41120.4	100.0
0°-180°	41120.4	100.0

Coefficient of Utilization



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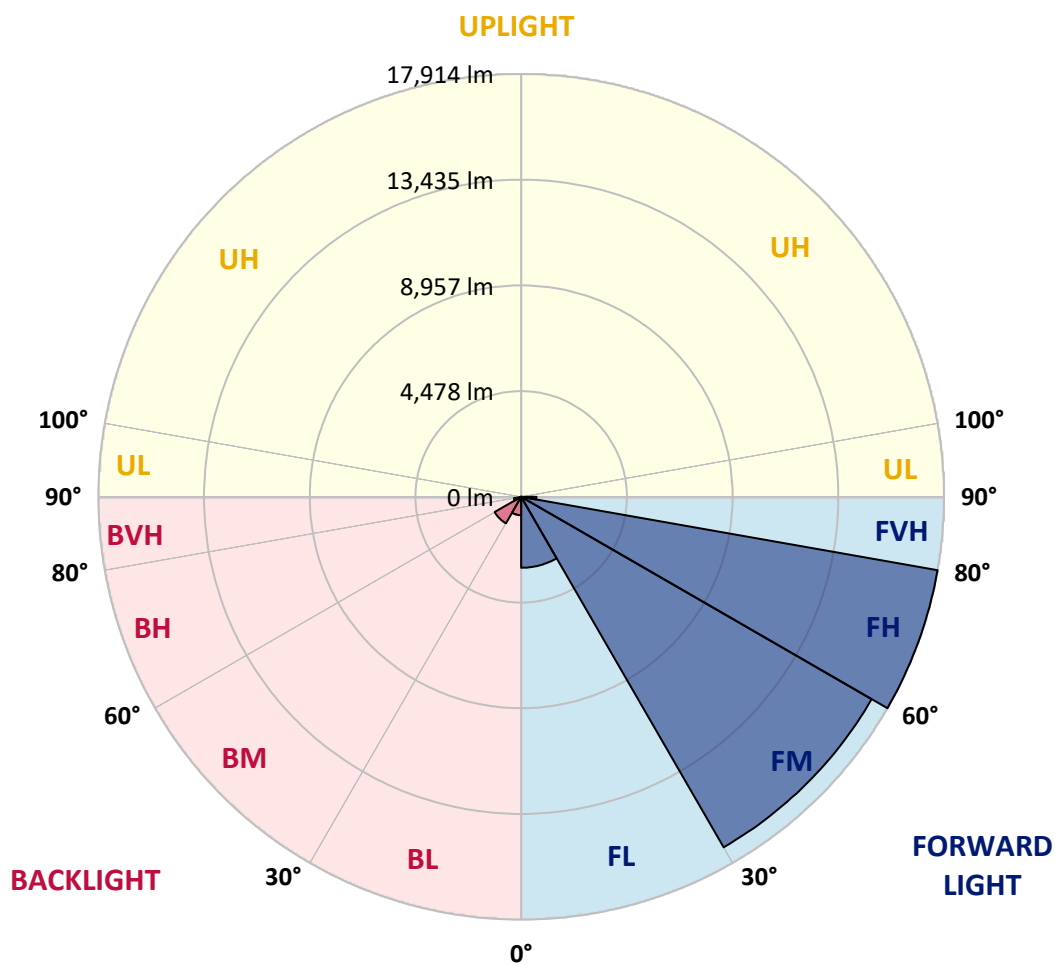
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3007.1	7.3			
FM	(30°-60°)	17144.6	41.7			
FH	(60°-80°)	17913.7	43.6			G5
FVH	(80°-90°)	649.2	1.6			G4/750
BL	(0°-30°)	779.3	1.9	B2/1000		
BM	(30°-60°)	1293.0	3.1	B2/2500		
BH	(60°-80°)	312.4	0.8	B1/500		G1/500
BVH	(80°-90°)	21.0	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	6143.6	6143.6	6143.6	6143.6	6143.6	6143.6	6143.6	6143.6	6143.6	6143.6	6143.6
2.5°	6745.7	6709.0	6687.0	6657.6	6620.9	6589.1	6576.8	6486.3	6400.6	6283.1	6148.5
5°	6870.5	6858.3	6819.1	6780.0	6735.9	6687.0	6660.0	6552.3	6430.0	6258.6	6023.7
7.5°	6882.8	6868.1	6819.1	6765.3	6704.1	6645.4	6598.9	6491.2	6378.6	6204.8	5918.4
10°	6863.2	6846.1	6809.4	6750.6	6674.7	6618.4	6571.9	6469.1	6373.7	6217.0	5898.8
12.5°	6841.2	6824.0	6806.9	6777.5	6711.4	6672.3	6633.1	6535.2	6449.5	6317.4	5969.8
15°	6863.2	6853.4	6873.0	6860.8	6824.0	6789.8	6750.6	6662.5	6584.2	6474.0	6099.5
17.5°	6956.2	6956.2	7017.4	7024.7	6990.5	6941.5	6885.2	6797.1	6731.0	6638.0	6253.7
20°	7174.1	7166.7	7245.0	7259.7	7176.5	7100.6	7017.4	6909.7	6858.3	6799.6	6405.5
22.5°	7548.5	7514.3	7560.8	7546.1	7382.1	7264.6	7161.8	7029.6	7002.7	6975.8	6574.4
25°	8035.6	8016.0	8047.9	7903.4	7614.6	7455.5	7333.1	7183.8	7183.8	7210.8	6765.3
27.5°	8743.0	8669.6	8561.9	8307.3	7874.1	7670.9	7538.8	7379.7	7421.3	7521.6	7017.4
30°	9467.5	9386.7	9139.5	8747.9	8189.8	7976.9	7822.7	7656.2	7754.1	7937.7	7355.2
32.5°	10182.2	10091.6	9741.6	9247.2	8642.6	8429.7	8280.4	8096.8	8260.8	8569.2	7849.6
35°	10874.9	10794.1	10390.3	9807.7	9244.8	9068.5	8931.5	8772.4	8982.9	9413.6	8547.2
37.5°	11653.2	11565.1	11073.2	10441.7	9976.6	9849.3	9749.0	9589.9	9957.0	10588.5	9518.9
40°	12610.3	12461.0	11797.7	11168.6	10823.5	10762.3	10693.8	10671.7	11242.0	12115.8	10813.7
42.5°	13706.8	13462.1	12556.4	11934.7	11753.6	11797.7	11780.5	11878.4	12850.1	14015.2	12390.0
45°	14803.4	14487.6	13400.9	12752.2	12776.7	12930.9	13026.4	13418.0	14864.6	16193.6	14086.2
47.5°	15733.5	15422.6	14211.0	13635.8	13929.6	14233.1	14492.5	15234.2	16935.3	18337.8	15405.5
50°	16529.0	16235.2	15070.2	14607.6	15268.4	15757.9	16178.9	17277.9	19162.6	19970.3	16330.7
52.5°	17180.0	16984.2	15961.1	15721.2	16798.2	17515.4	18132.2	19449.0	21135.4	21297.0	17050.3
55°	17814.0	17674.5	16918.1	17045.4	18594.8	19571.4	20352.2	21752.2	22834.1	22403.3	17740.5
57.5°	18543.4	18416.1	18009.8	18724.5	20956.7	22185.5	23037.2	23793.6	24329.6	23534.1	18391.6
60°	19287.5	19214.0	19223.8	20589.6	23668.7	24848.5	25318.5	25514.3	25798.2	24598.8	18428.3
62.5°	19997.3	20136.8	20611.6	22665.2	26265.7	27171.3	27408.7	27602.1	27269.2	24767.7	17025.8
65°	21199.1	21426.7	22560.0	25443.3	29122.1	30091.4	30336.1	29672.8	27501.8	22584.4	13848.8
67.5°	21786.5	22202.6	24224.4	28032.9	31892.8	32969.8	32879.2	29807.4	24679.6	17221.6	8887.4
69°	21664.1	22107.1	24608.6	28825.9	32813.1	33789.8	33214.6	28160.2	21025.3	12475.7	5455.8
70°	21179.5	21627.4	24410.4	28796.6	32930.6	33704.1	32592.9	26126.2	17777.3	9122.4	3412.0
72.5°	17686.7	18073.4	21671.5	26028.3	30336.1	29707.1	27266.8	18100.3	8662.2	2484.4	768.6
75°	10887.1	11102.5	15549.9	19608.1	22912.4	21297.0	18166.4	9004.9	2582.3	702.5	425.9
77.5°	5752.0	5849.9	8512.9	11557.8	14524.3	12017.9	9310.8	3512.4	1189.6	440.6	308.4
80°	3399.8	3473.2	4584.4	5284.5	6285.6	5250.2	3722.9	2156.4	851.8	276.6	274.1
82.5°	1945.9	1992.4	3323.9	2937.2	2477.0	2114.8	1852.9	2043.8	511.6	186.0	283.9
85°	714.7	724.5	1870.0	2234.7	1473.5	876.3	920.3	1693.8	137.1	117.5	222.7
87.5°	332.9	325.5	961.9	1368.2	861.6	555.6	717.2	372.0	53.8	75.9	61.2
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°	6143.6	6143.6	6143.6	6143.6	6143.6	6143.6	6143.6	6143.6	6143.6	6143.6	6143.6
2.5°	6070.2	5979.6	5815.6	5646.7	5475.4	5343.2	5213.5	5110.7	5076.4	5012.8	5017.7
5°	5884.1	5717.7	5375.0	5027.5	4665.2	4366.6	4085.1	3857.5	3747.3	3634.8	3634.8
7.5°	5722.6	5480.3	4944.2	4378.8	3793.9	3301.9	2858.9	2526.0	2342.4	2195.5	2193.1
10°	5661.4	5333.4	4584.4	3774.3	2959.2	2288.5	1762.3	1424.5	1250.7	1138.2	1133.3
12.5°	5688.3	5282.0	4307.9	3216.2	2193.1	1471.0	1020.7	802.8	729.4	695.1	695.1
15°	5766.7	5267.3	4031.3	2670.4	1549.4	920.3	678.0	619.3	614.4	614.4	614.4
17.5°	5862.1	5272.2	3747.3	2139.2	1054.9	658.4	585.0	577.6	582.5	582.5	582.5
20°	5960.0	5274.7	3441.4	1647.3	744.1	572.7	550.7	548.3	553.2	553.2	555.6
22.5°	6080.0	5286.9	3135.4	1231.2	614.4	540.9	523.8	523.8	526.2	526.2	523.8
25°	6217.0	5311.4	2817.2	913.0	560.5	518.9	504.2	501.8	504.2	501.8	499.3
27.5°	6388.4	5345.7	2462.3	714.7	536.0	496.9	484.6	484.6	482.2	479.7	477.3
30°	6603.7	5384.8	2063.4	607.0	511.6	477.3	465.1	462.6	460.2	455.3	455.3
32.5°	6931.7	5470.5	1669.3	550.7	484.6	450.4	440.6	440.6	435.7	430.8	428.3
35°	7435.9	5639.4	1316.8	516.5	455.3	421.0	408.8	408.8	403.9	401.4	399.0
37.5°	8133.5	5896.4	1023.1	484.6	425.9	389.2	376.9	374.5	369.6	364.7	362.3
40°	9061.2	6214.6	805.3	455.3	396.5	357.4	347.6	342.7	332.9	325.5	325.5
42.5°	10226.3	6576.8	653.5	423.4	362.3	328.0	320.6	313.3	296.2	288.8	286.4
45°	11445.2	6902.4	553.2	386.7	328.0	298.6	293.7	281.5	259.5	252.1	252.1
47.5°	12323.9	6978.2	487.1	352.5	296.2	266.8	264.3	242.3	222.7	217.8	215.4
50°	12872.2	6828.9	433.2	318.2	266.8	237.4	230.1	203.2	190.9	186.0	183.6
52.5°	13241.8	6562.1	389.2	288.8	239.9	210.5	193.4	173.8	164.0	159.1	159.1
55°	13537.9	6185.2	345.1	261.9	217.8	188.5	164.0	149.3	139.5	134.6	134.6
57.5°	13621.2	5673.6	301.1	239.9	195.8	166.4	139.5	129.7	117.5	115.0	115.0
60°	13016.6	4750.9	266.8	212.9	176.2	144.4	122.4	110.1	97.9	95.5	93.0
62.5°	11423.2	3676.4	235.0	188.5	154.2	124.8	105.2	90.6	80.8	80.8	80.8
65°	8713.6	2464.8	205.6	164.0	134.6	105.2	90.6	73.4	68.5	68.5	71.0
67.5°	5215.9	1341.3	176.2	139.5	115.0	88.1	75.9	63.6	61.2	63.6	63.6
69°	3057.1	788.1	159.1	124.8	100.4	78.3	66.1	56.3	61.2	63.6	63.6
70°	1887.1	531.1	146.9	112.6	90.6	71.0	61.2	53.8	58.7	61.2	61.2
72.5°	526.2	274.1	117.5	88.1	73.4	58.7	49.0	49.0	56.3	58.7	58.7
75°	342.7	203.2	90.6	66.1	56.3	46.5	41.6	46.5	53.8	56.3	56.3
77.5°	283.9	166.4	73.4	53.8	46.5	44.1	39.2	41.6	49.0	51.4	51.4
80°	259.5	117.5	58.7	49.0	41.6	39.2	36.7	34.3	44.1	46.5	46.5
82.5°	247.2	93.0	51.4	44.1	39.2	34.3	31.8	34.3	39.2	41.6	44.1
85°	154.2	61.2	46.5	41.6	34.3	31.8	31.8	31.8	36.7	39.2	39.2
87.5°	56.3	49.0	41.6	34.3	29.4	29.4	29.4	29.4	31.8	36.7	36.7
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)