

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: P192876

Luminaire Tested: **GLEON-AF-08-LED-E1-SL3-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192876
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-08-LED-E1-SL3-7030-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1050mA 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: 39416.4 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 445
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

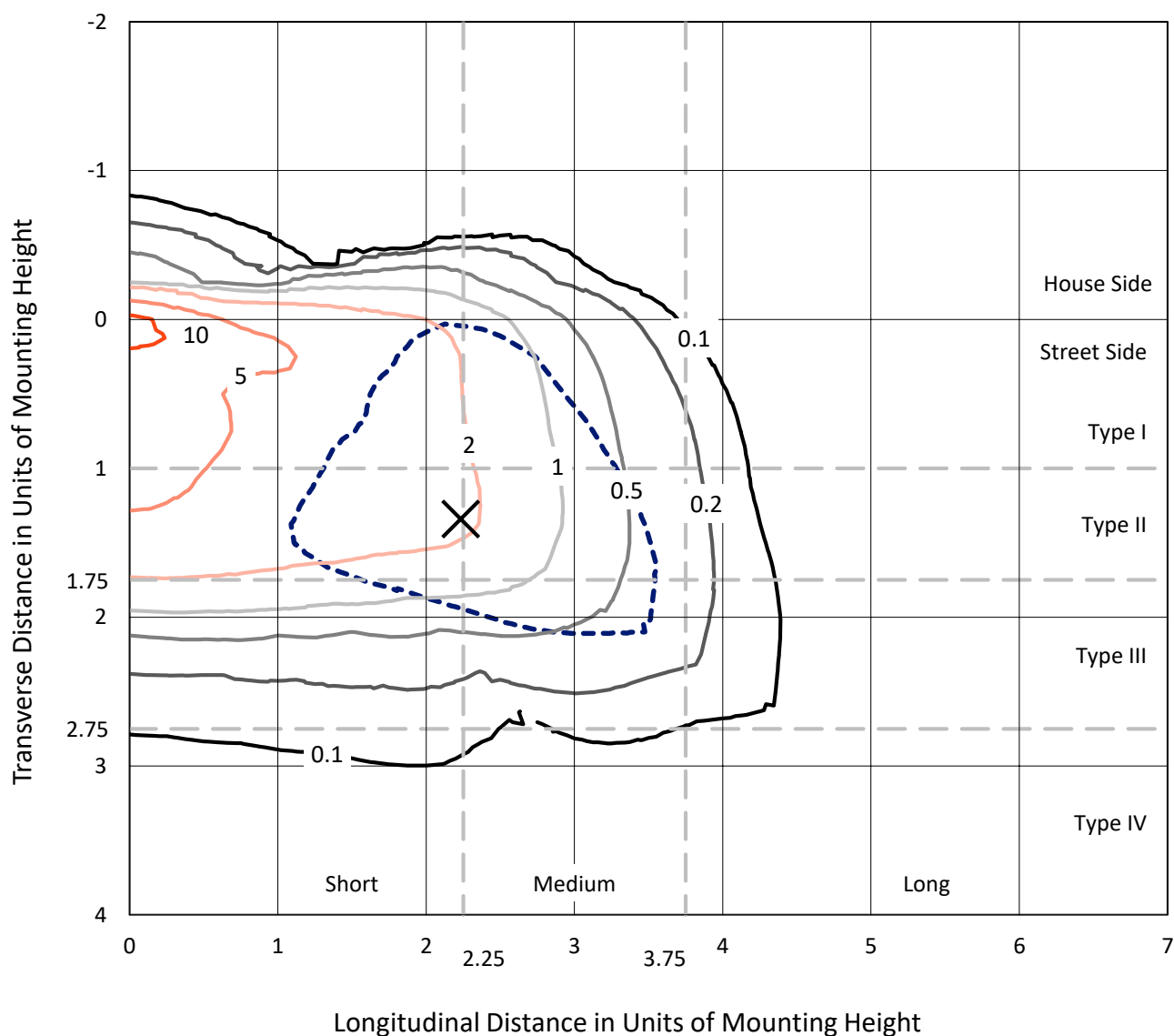


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

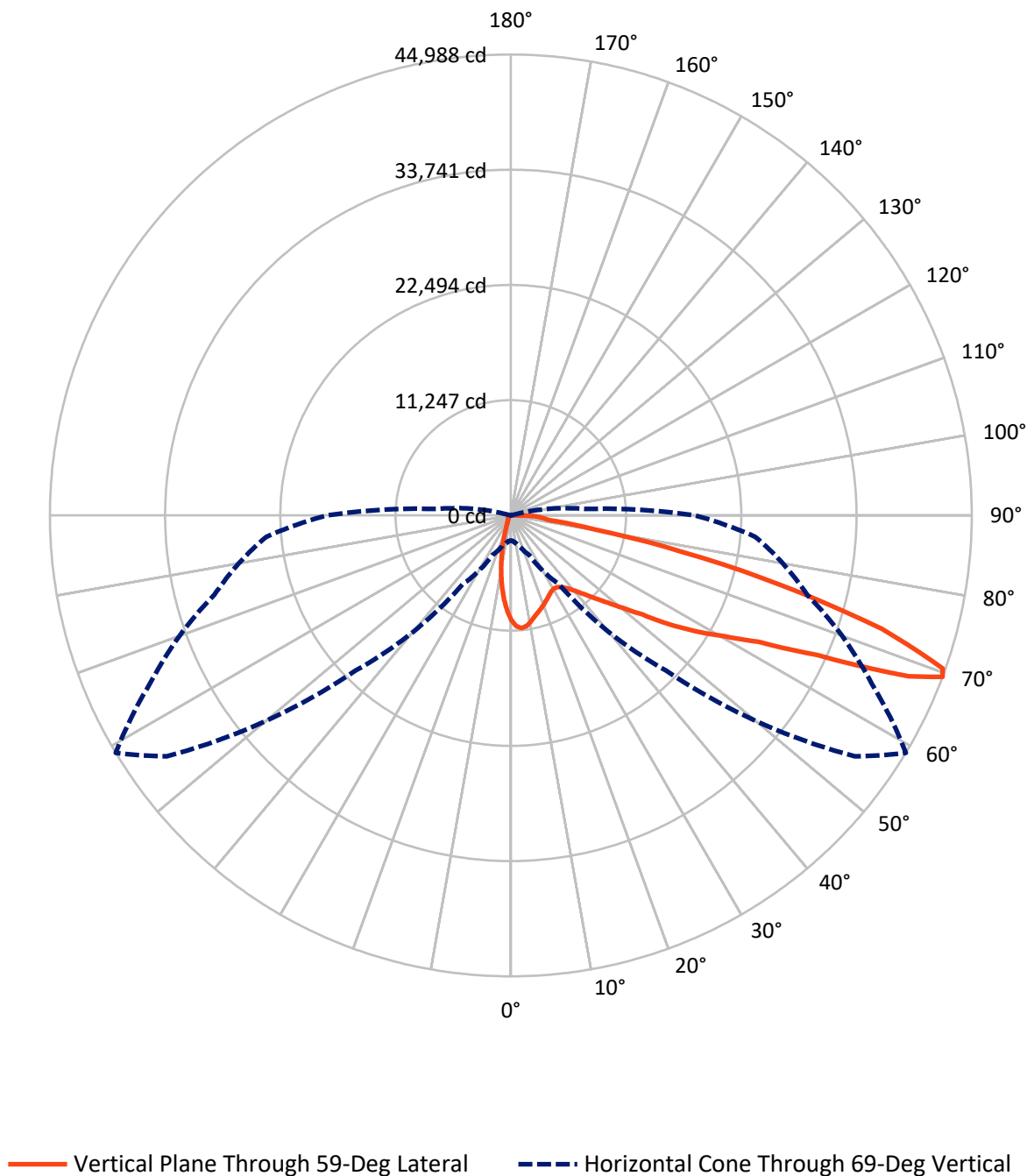


Based on 30 foot mounting height. Maximum calculated value = 11.5 fc
Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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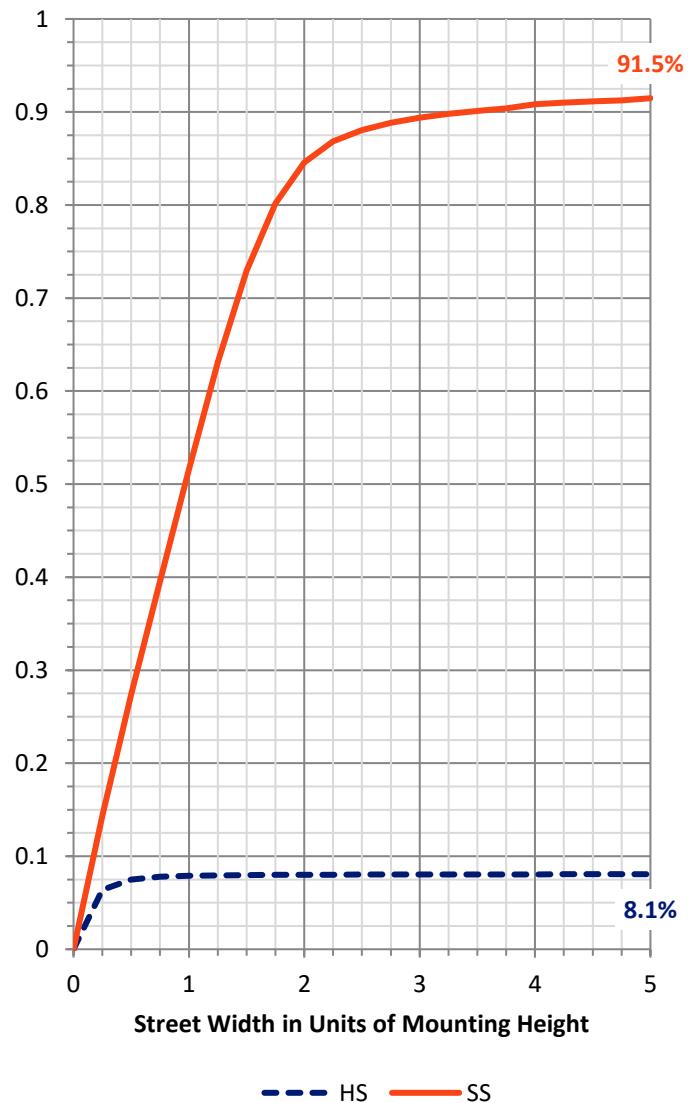
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3210.0	0.0	3210.0
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	36206.4	0.0	36206.4
	% Fixture	91.9	0.0	91.9
Total	Lumens	39416.4	0.0	39416.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	832.8	2.1
10°-20°	1720.7	4.4
20°-30°	2315.5	5.9
30°-40°	3361.9	8.5
40°-50°	5597.8	14.2
50°-60°	8732.5	22.2
60°-70°	10805.8	27.4
70°-80°	5476.3	13.9
80°-90°	573.0	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°	39416.4	100.0
0°-180°	39416.4	100.0

Coefficient of Utilization



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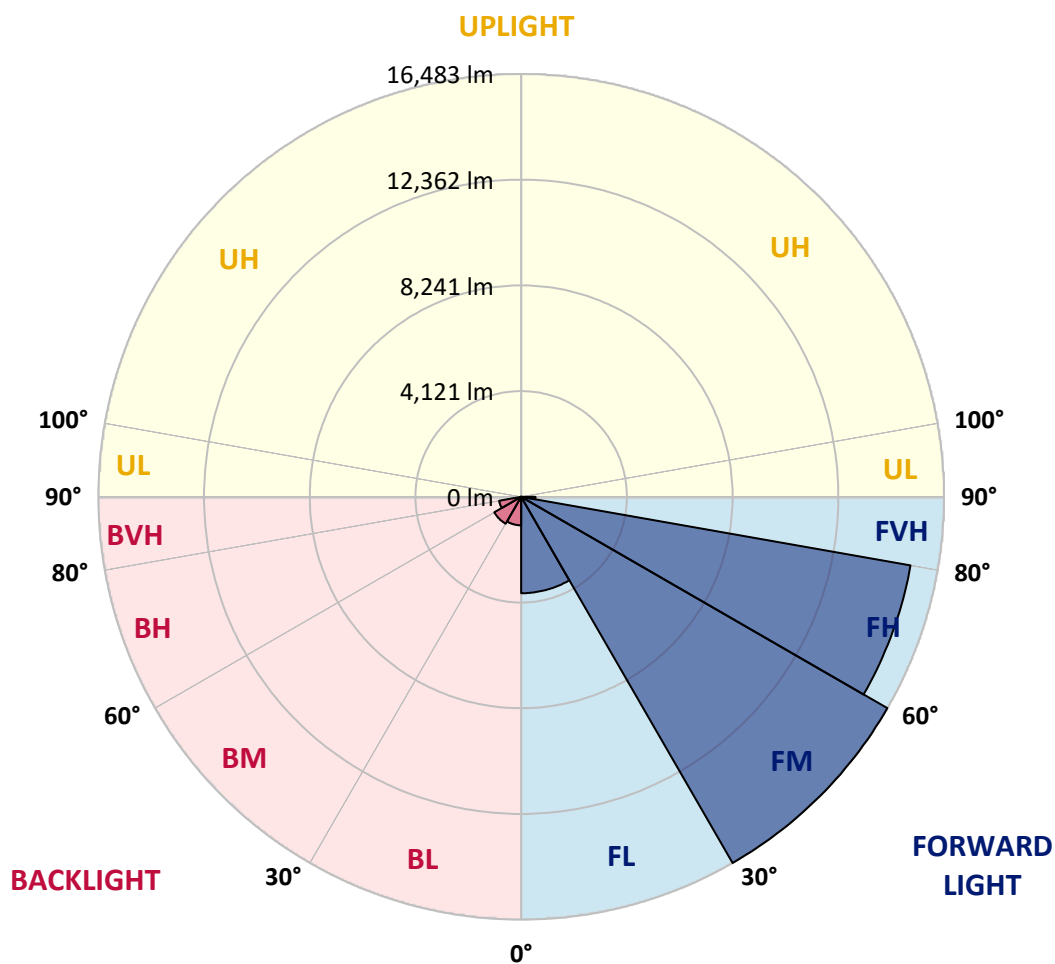
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3757.9	9.5			
FM	(30°-60°)	16482.8	41.8			
FH	(60°-80°)	15410.4	39.1			G5
FVH	(80°-90°)	555.4	1.4			G4/750
BL	(0°-30°)	1111.1	2.8	B3/2500		
BM	(30°-60°)	1209.5	3.1	B2/2500		
BH	(60°-80°)	871.7	2.2	B2/1000		G2/1000
BVH	(80°-90°)	17.6	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	10259.6	10259.6	10259.6	10259.6	10259.6	10259.6	10259.6	10259.6	10259.6	10259.6	10259.6
2.5°	11244.8	11240.3	11191.2	11168.9	11128.8	11044.2	10912.6	10843.6	10732.1	10538.2	10277.4
5°	11142.1	11195.7	11224.6	11226.8	11255.9	11224.6	11106.5	11048.6	10894.8	10582.8	10114.6
7.5°	10446.8	10466.8	10549.3	10620.6	10758.8	10890.3	10932.7	10908.1	10816.7	10482.5	9860.5
10°	9702.3	9722.3	9820.4	9914.0	10101.2	10304.1	10518.1	10562.6	10600.6	10339.8	9615.4
12.5°	9060.5	9080.4	9180.7	9303.3	9521.7	9771.4	10103.5	10177.1	10344.2	10203.8	9419.2
15°	8507.7	8516.5	8614.6	8766.2	9027.0	9347.9	9724.6	9842.7	10099.1	10108.0	9247.6
17.5°	8037.3	8059.6	8119.8	8264.7	8550.0	8946.7	9385.8	9555.2	9856.1	10027.7	9080.4
20°	7749.9	7772.1	7769.9	7850.2	8106.5	8530.0	9047.0	9249.9	9615.4	9945.3	8931.1
22.5°	7694.1	7694.1	7636.1	7624.9	7776.5	8131.0	8694.9	8942.3	9399.1	9909.6	8826.4
25°	7892.5	7883.6	7738.8	7620.5	7627.3	7839.1	8353.9	8648.1	9216.4	9934.1	8770.7
27.5°	8311.5	8300.3	8117.6	7892.5	7711.9	7709.7	8095.3	8411.8	9071.6	10050.0	8792.9
30°	8891.0	8886.5	8688.2	8405.1	8077.4	7776.5	8006.2	8293.7	8978.0	10259.6	8844.2
32.5°	9524.0	9517.3	9368.0	9069.3	8654.8	8077.4	8099.7	8340.6	9004.7	10538.2	8969.0
35°	10194.9	10183.7	10119.1	9858.4	9401.4	8632.5	8407.4	8594.6	9174.1	10955.0	9214.2
37.5°	10921.5	10932.7	10979.5	10729.8	10250.6	9410.3	8922.2	9049.3	9515.1	11521.1	9613.1
40°	11993.6	11991.4	12006.9	11679.4	11217.9	10362.0	9642.1	9682.2	10085.7	12272.2	10219.4
42.5°	13939.4	13803.5	13391.2	12722.4	12258.9	11449.8	10549.3	10506.9	10783.4	13201.7	11068.6
45°	16553.9	16264.2	15194.2	13912.6	13319.8	12675.6	11665.9	11530.0	11706.0	14318.3	12116.2
47.5°	18802.9	18502.0	16988.5	15152.0	14445.3	13839.1	12974.3	12729.1	12787.0	15568.7	13444.6
50°	19567.4	19420.3	18098.5	16230.7	15535.2	15303.5	14492.1	14193.6	14111.1	17015.3	14984.8
52.5°	19302.1	19291.0	18410.5	16930.6	16533.8	16819.2	16402.3	16056.8	15753.8	18539.8	16551.6
55°	18876.4	18932.1	18537.6	17543.5	17530.1	18203.2	19014.6	18727.0	17848.9	20195.9	17902.3
57.5°	17701.7	17940.3	18466.2	18702.6	19250.8	19939.6	21190.0	21359.3	20320.7	21464.1	19023.4
60°	14362.9	14886.7	16607.4	18869.7	21468.6	23184.9	23815.6	23960.4	22349.0	22518.4	20536.9
62.5°	10194.9	10729.8	12911.9	16738.8	21502.0	27448.6	27727.3	27158.9	24582.4	24080.8	23146.9
65°	5411.7	5824.1	7607.1	12082.8	18642.4	28438.3	34567.7	32873.7	28523.0	27154.4	26519.2
67.5°	2768.3	2893.0	3601.8	5913.2	12816.1	25259.8	40699.4	41891.8	35314.3	30203.5	26356.5
69°	2449.6	2523.2	2993.3	4275.0	8206.8	21395.0	40998.0	44987.7	38869.4	29949.5	23951.6
70°	2371.6	2436.2	2864.1	3869.3	6414.7	17942.4	39854.6	44715.8	39778.8	28982.1	22155.0
72.5°	2012.7	2068.4	2549.9	3419.0	5213.3	8906.6	32374.5	37891.0	35695.5	24143.2	16036.7
75°	1346.3	1529.0	2447.3	3205.1	4850.0	5059.6	21343.8	27381.8	25436.0	16284.2	8353.9
77.5°	323.2	347.7	690.9	2549.9	4435.5	4453.3	10977.3	17021.9	13883.7	5804.0	1974.8
80°	173.8	167.1	193.9	506.0	4130.1	4179.1	4941.5	8262.5	4957.0	962.9	650.8
82.5°	122.6	116.0	124.8	211.8	1299.4	3806.9	3575.1	3740.1	2055.0	370.0	291.9
85°	44.6	42.4	69.1	191.6	407.9	2188.8	3673.2	3084.7	1665.0	169.4	213.9
87.5°	15.7	13.3	26.8	104.8	124.8	931.7	2266.8	2331.4	655.3	102.4	100.3
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°	10259.6	10259.6	10259.6	10259.6	10259.6	10259.6	10259.6	10259.6	10259.6	10259.6	10259.6
2.5°	10168.1	10030.0	9775.9	9515.1	9274.4	8984.6	8839.7	8697.0	8637.0	8614.6	8509.8
5°	9874.0	9640.0	9100.5	8559.0	8059.6	7529.2	7179.2	6898.4	6733.4	6653.3	6526.2
7.5°	9497.3	9113.9	8295.9	7460.1	6682.2	5915.4	5347.0	4910.2	4609.3	4464.5	4332.9
10°	9131.7	8621.3	7457.8	6318.9	5262.4	4246.1	3461.5	2893.0	2529.8	2362.6	2255.6
12.5°	8804.1	8142.1	6648.8	5206.6	3880.5	2690.3	1892.4	1439.8	1214.8	1136.8	1098.8
15°	8512.1	7700.8	5884.2	4150.2	2627.9	1538.0	1034.2	880.4	844.8	844.8	840.3
17.5°	8235.8	7268.4	5146.4	3158.3	1649.4	940.6	786.7	766.8	766.8	775.6	775.6
20°	7970.5	6856.0	4433.2	2266.8	1038.6	746.7	711.1	706.6	711.1	722.2	722.2
22.5°	7743.1	6481.6	3766.8	1555.8	771.2	673.1	655.3	648.6	650.8	657.5	662.0
25°	7573.8	6165.1	3138.3	1054.3	664.2	613.0	592.8	581.7	572.8	572.8	577.3
27.5°	7466.8	5897.6	2529.8	766.8	597.3	557.2	526.0	508.2	488.2	477.0	481.4
30°	7388.7	5643.6	1959.2	626.3	535.0	494.8	454.7	425.7	396.7	383.4	387.9
32.5°	7359.8	5438.5	1464.4	552.8	479.2	434.7	385.5	347.7	316.6	305.4	307.6
35°	7437.9	5275.8	1072.1	499.4	434.7	378.9	323.2	280.8	256.3	249.6	251.9
37.5°	7642.8	5188.8	802.4	454.7	394.5	332.1	269.7	229.6	213.9	213.9	216.3
40°	8030.7	5186.6	644.2	423.5	358.8	287.6	222.9	193.9	184.9	189.4	191.6
42.5°	8596.7	5304.7	561.7	394.5	327.7	245.2	184.9	165.0	162.7	167.1	169.4
45°	9370.2	5521.0	517.2	370.0	294.2	205.1	156.0	142.7	142.7	149.3	151.6
47.5°	10317.5	5837.4	479.2	345.5	260.8	171.6	133.8	124.8	127.1	133.8	135.9
50°	11458.7	6236.4	441.3	318.7	236.2	142.7	116.0	109.3	111.5	120.4	122.6
52.5°	12758.1	6773.5	410.2	294.2	205.1	118.1	98.2	93.6	98.2	107.0	109.3
55°	13872.5	7255.1	372.2	274.1	165.0	98.2	80.2	80.2	84.6	95.8	98.2
57.5°	14944.6	7758.7	338.8	236.2	129.3	78.0	66.8	69.1	75.8	87.0	89.1
60°	16518.3	8612.4	298.8	198.5	98.2	62.4	55.7	57.9	66.8	78.0	80.2
62.5°	19190.7	9911.8	258.5	165.0	75.8	49.0	44.6	49.0	60.2	73.5	75.8
65°	21602.3	10440.0	211.8	138.2	57.9	37.9	37.9	44.6	57.9	71.3	73.5
67.5°	20258.3	8788.5	165.0	109.3	44.6	29.0	31.2	42.4	55.7	71.3	73.5
69°	17915.8	7185.9	140.4	87.0	37.9	26.8	29.0	42.4	55.7	69.1	71.3
70°	16090.3	6067.0	124.8	73.5	33.5	26.8	29.0	40.1	55.7	69.1	71.3
72.5°	10776.7	3276.4	100.3	53.5	31.2	24.5	24.5	40.1	53.5	66.8	69.1
75°	4631.6	904.8	80.2	37.9	26.8	22.3	22.3	37.9	51.3	64.7	69.1
77.5°	847.0	229.6	64.7	33.5	26.8	22.3	20.1	35.6	49.0	62.4	64.7
80°	336.5	113.6	51.3	29.0	24.5	20.1	17.8	33.5	46.8	60.2	62.4
82.5°	202.7	64.7	42.4	26.8	24.5	17.8	15.7	29.0	44.6	57.9	60.2
85°	165.0	44.6	33.5	26.8	22.3	17.8	13.3	26.8	40.1	55.7	57.9
87.5°	80.2	31.2	31.2	24.5	22.3	17.8	13.3	24.5	37.9	53.5	55.7
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)