

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: P192878

Luminaire Tested: **GLEON-AF-10-LED-E1-SL3-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192878
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-10-LED-E1-SL3-7030-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 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: 48681.6 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 558
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



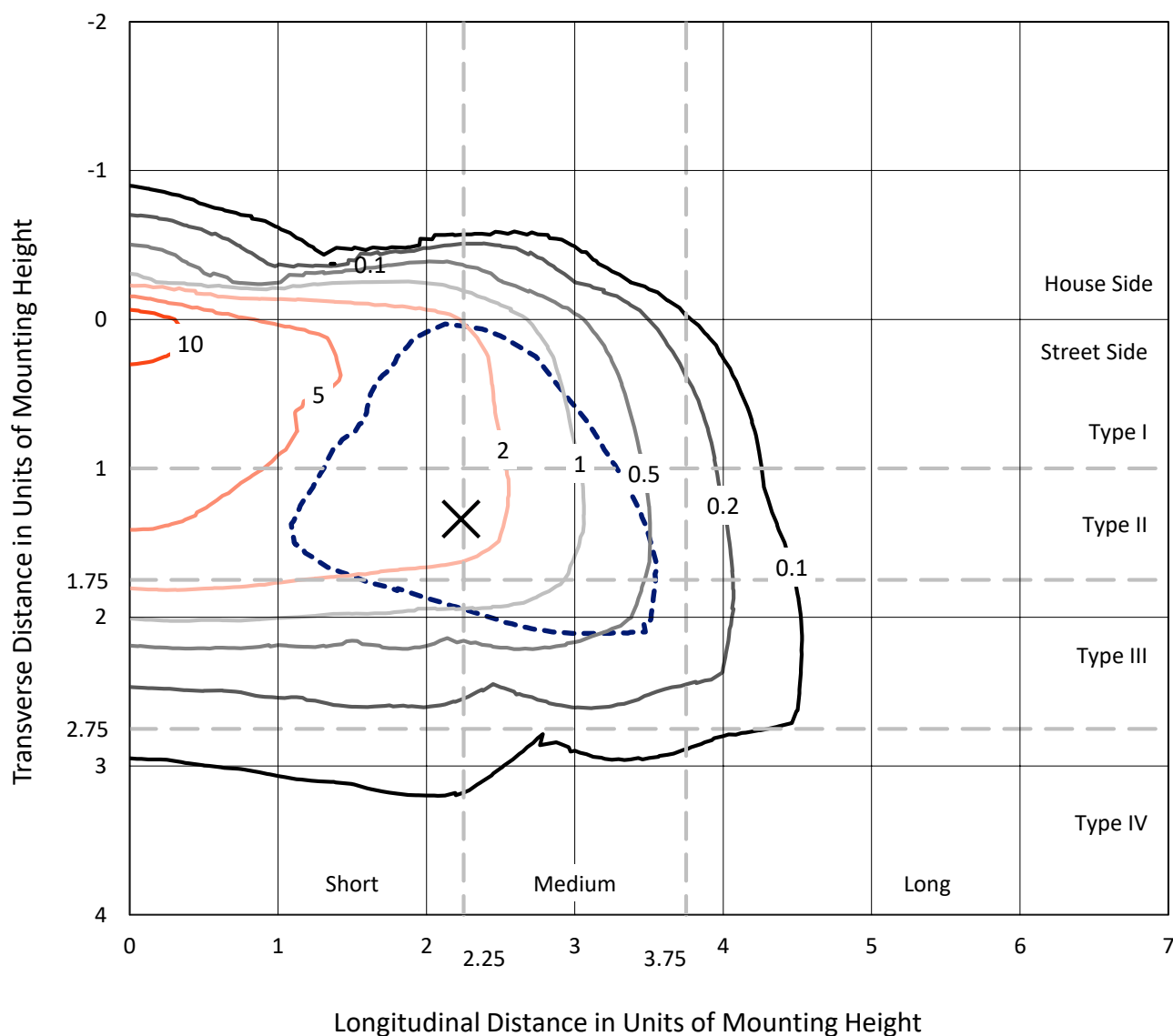
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

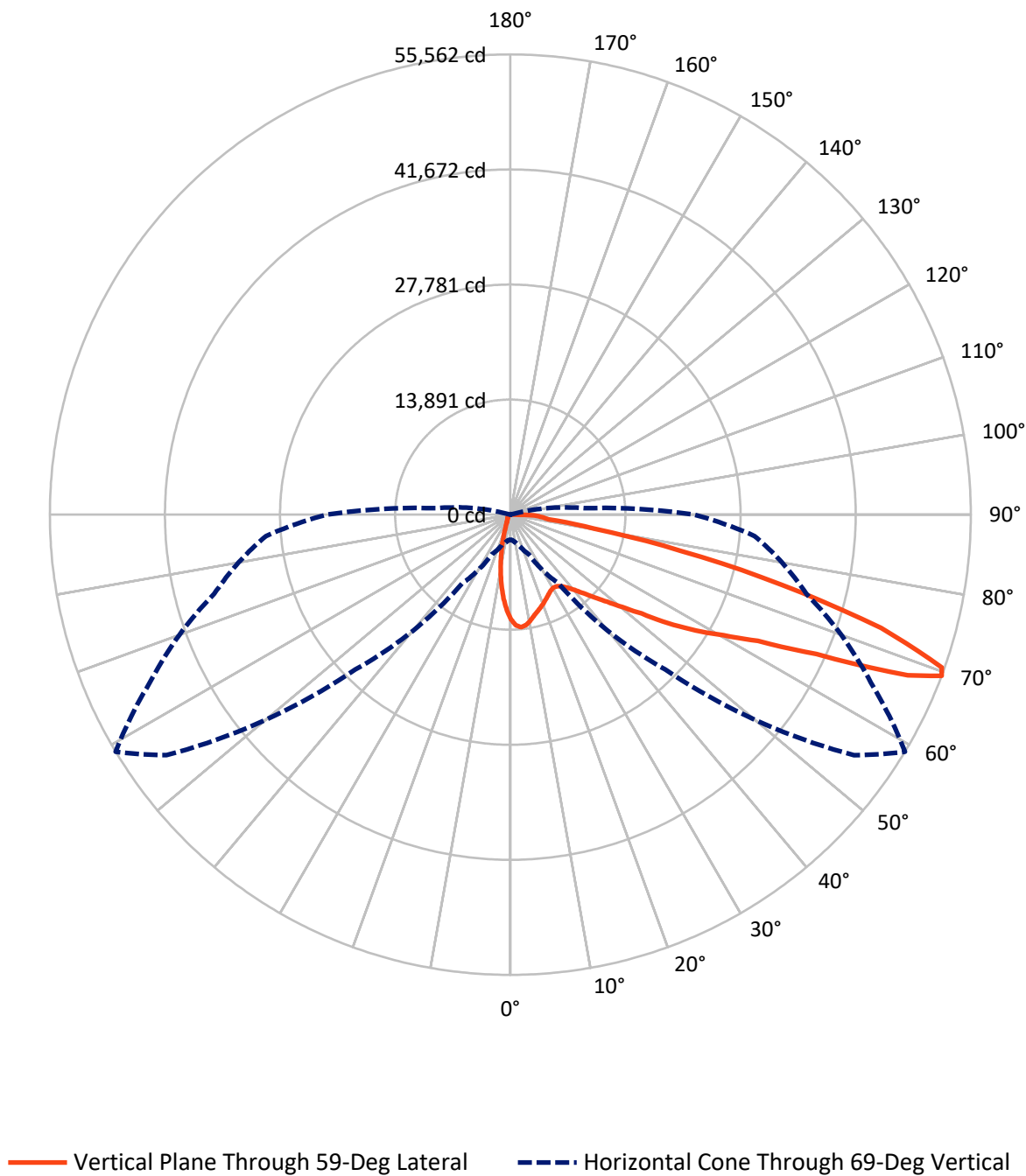


Based on 30 foot mounting height. Maximum calculated value = 14.1 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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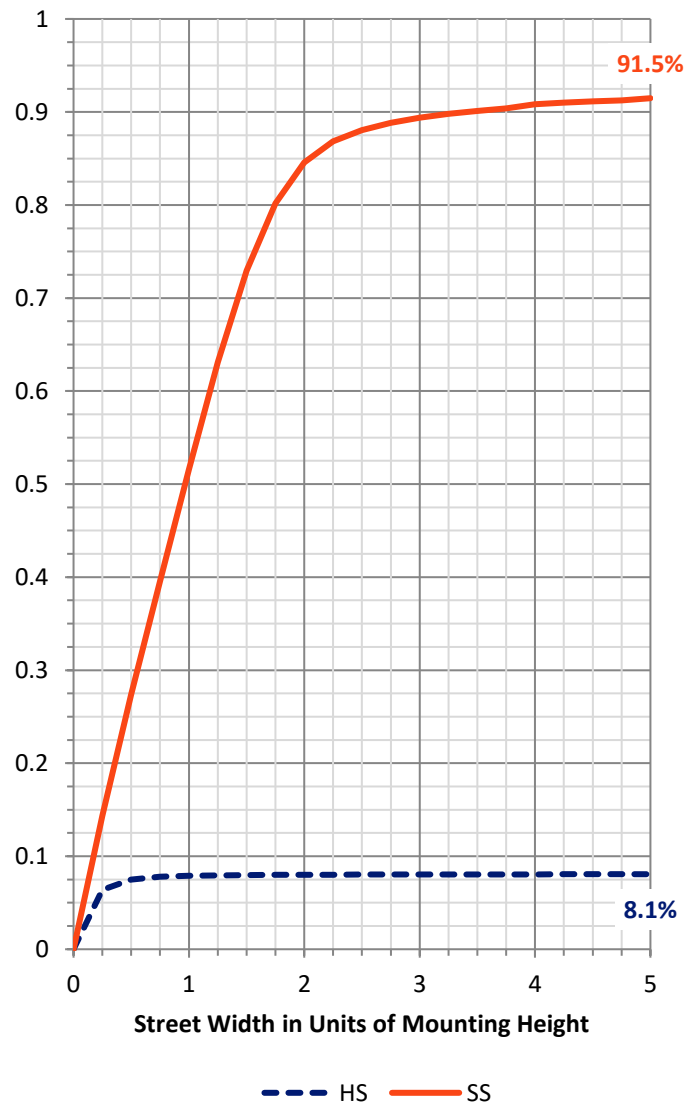
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3964.5	0.0	3964.5
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	44717.1	0.0	44717.1
	% Fixture	91.9	0.0	91.9
Total	Lumens	48681.6	0.0	48681.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1028.5	2.1
10°-20°	2125.2	4.4
20°-30°	2859.8	5.9
30°-40°	4152.2	8.5
40°-50°	6913.7	14.2
50°-60°	10785.2	22.2
60°-70°	13345.8	27.4
70°-80°	6763.5	13.9
80°-90°	707.7	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°	48681.6	100.0
0°-180°	48681.6	100.0

Coefficient of Utilization



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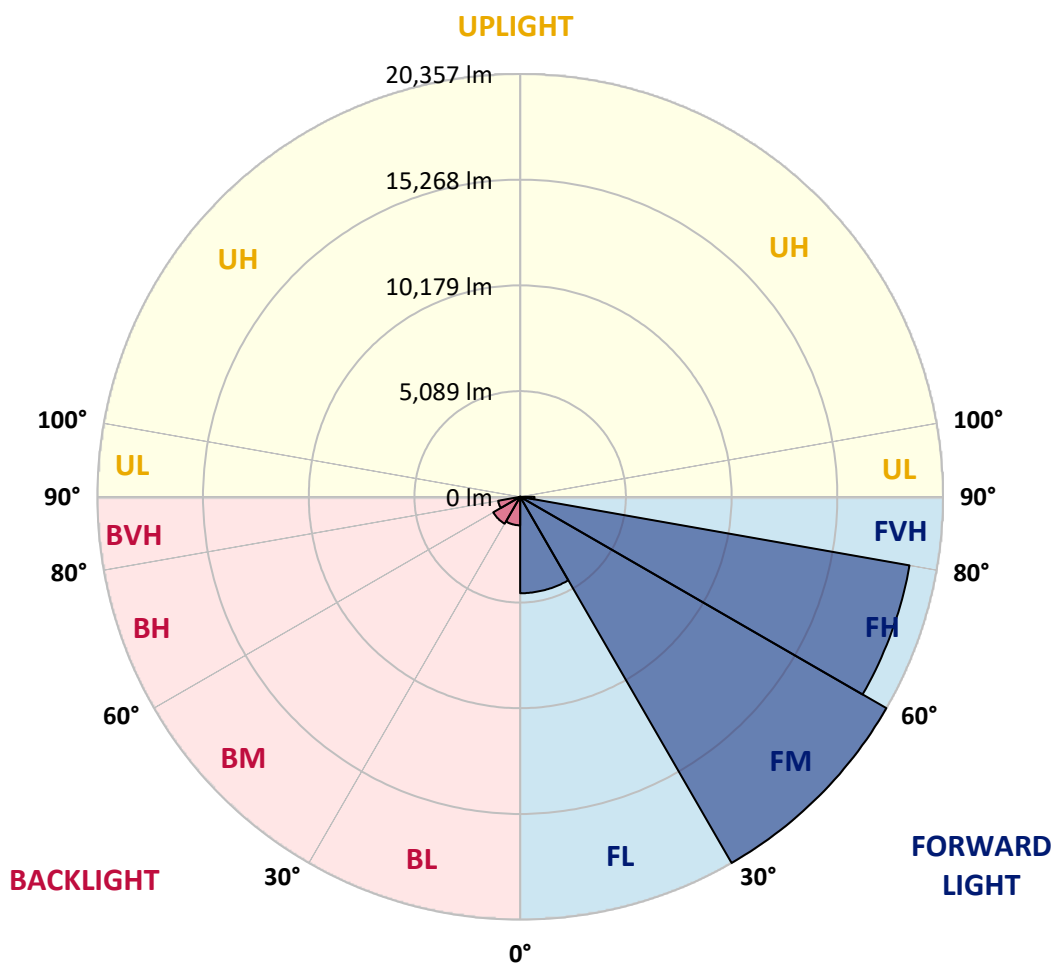
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4641.3	9.5			
FM	(30°-60°)	20357.2	41.8			
FH	(60°-80°)	19032.7	39.1			G5
FVH	(80°-90°)	685.9	1.4			G4/750
BL	(0°-30°)	1372.2	2.8	B3/2500		
BM	(30°-60°)	1493.8	3.1	B2/2500		
BH	(60°-80°)	1076.7	2.2	B3/2500		G3/2500
BVH	(80°-90°)	21.8	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°	12671.2	12671.2	12671.2	12671.2	12671.2	12671.2	12671.2	12671.2	12671.2	12671.2	12671.2
2.5°	13887.8	13882.4	13821.9	13794.3	13744.7	13640.2	13477.6	13392.4	13254.7	13015.2	12693.2
5°	13761.2	13827.3	13863.2	13865.9	13901.6	13863.2	13717.2	13645.6	13455.8	13070.2	12492.1
7.5°	12902.3	12927.1	13028.9	13117.1	13287.8	13450.2	13502.5	13472.2	13359.3	12946.4	12178.4
10°	11982.9	12007.7	12128.9	12244.4	12475.7	12726.2	12990.5	13045.5	13092.3	12770.2	11875.6
12.5°	11190.2	11214.9	11338.8	11490.1	11760.0	12068.2	12478.4	12569.3	12775.8	12602.3	11633.4
15°	10507.5	10518.5	10639.5	10826.7	11148.9	11545.2	12010.5	12156.4	12472.9	12484.0	11421.4
17.5°	9926.6	9954.2	10028.5	10207.3	10559.7	11049.7	11592.1	11801.2	12172.9	12384.9	11214.9
20°	9571.4	9599.0	9596.2	9695.3	10012.0	10535.0	11173.6	11424.1	11875.6	12283.0	11030.5
22.5°	9502.8	9502.8	9431.0	9417.3	9604.6	10042.2	10738.6	11044.3	11608.6	12238.9	10901.2
25°	9747.7	9736.6	9557.7	9411.8	9420.2	9681.6	10317.5	10680.8	11382.8	12269.3	10832.3
27.5°	10265.2	10251.5	10025.7	9747.7	9524.6	9522.0	9998.2	10389.0	11203.9	12412.4	10859.9
30°	10980.9	10975.4	10730.5	10380.8	9976.1	9604.6	9888.1	10243.2	11088.2	12671.2	10923.0
32.5°	11762.8	11754.4	11570.0	11201.1	10689.2	9976.1	10003.7	10301.0	11121.3	13015.2	11077.2
35°	12591.2	12577.5	12497.7	12175.7	11611.3	10661.6	10383.6	10614.7	11330.5	13530.0	11380.1
37.5°	13488.7	13502.5	13560.2	13251.9	12660.1	11622.4	11019.5	11176.3	11751.7	14229.3	11872.8
40°	14812.9	14810.1	14829.3	14424.6	13854.8	12797.7	11908.6	11958.2	12456.4	15156.9	12621.6
42.5°	17216.0	17048.0	16538.8	15713.0	15140.4	14141.1	13028.9	12976.7	13318.0	16304.9	13670.4
45°	20445.0	20087.2	18765.9	17182.9	16450.7	15655.2	14408.1	14240.2	14457.7	17683.9	14964.2
47.5°	23222.6	22851.0	20981.8	18713.5	17841.0	17092.1	16024.1	15721.2	15792.8	19228.3	16604.9
50°	24166.8	23985.1	22352.7	20045.9	19187.0	18900.8	17898.8	17529.8	17428.0	21014.8	18507.1
52.5°	23839.3	23825.5	22738.2	20910.2	20420.2	20772.6	20257.9	19831.2	19456.8	22897.8	20442.3
55°	23313.4	23382.2	22895.1	21667.3	21650.9	22482.1	23484.1	23129.0	22044.3	24943.2	22110.5
57.5°	21862.8	22157.2	22807.0	23098.7	23775.9	24626.5	26170.9	26380.1	25097.3	26509.5	23495.1
60°	17739.0	18385.9	20511.1	23305.2	26514.9	28634.6	29413.6	29592.6	27602.2	27811.5	25364.3
62.5°	12591.2	13251.9	15946.9	20673.5	26556.2	33900.8	34244.8	33542.8	30360.6	29741.3	28587.8
65°	6683.8	7193.1	9395.3	14922.9	23024.4	35122.9	42693.2	40601.1	35227.6	33537.3	32752.7
67.5°	3418.9	3573.1	4448.5	7303.2	15828.6	31197.5	50266.2	51738.8	43615.3	37303.2	32551.8
69°	3025.3	3116.2	3697.0	5279.9	10135.8	26424.2	50635.0	55562.4	48006.2	36989.4	29581.6
70°	2929.0	3008.8	3537.4	4778.9	7922.6	22160.1	49222.8	55226.6	49129.2	35794.7	27362.8
72.5°	2485.7	2554.6	3149.2	4222.8	6438.7	11000.2	39984.4	46797.6	44086.1	29818.3	19806.4
75°	1662.7	1888.4	3022.5	3958.6	5990.1	6248.9	26360.8	33818.2	31415.0	20112.0	10317.5
77.5°	399.2	429.4	853.4	3149.2	5478.0	5500.1	13557.6	21023.1	17147.1	7168.3	2439.0
80°	214.7	206.5	239.5	624.9	5101.0	5161.5	6103.0	10204.6	6122.3	1189.2	803.8
82.5°	151.5	143.1	154.2	261.5	1604.9	4701.8	4415.5	4619.2	2538.1	456.9	360.7
85°	55.0	52.3	85.3	236.8	503.8	2703.3	4536.7	3809.9	2056.4	209.2	264.3
87.5°	19.2	16.5	33.0	129.4	154.2	1150.7	2799.5	2879.4	809.3	126.6	123.9
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°	12671.2	12671.2	12671.2	12671.2	12671.2	12671.2	12671.2	12671.2	12671.2	12671.2	12671.2
2.5°	12558.3	12387.6	12073.8	11751.7	11454.4	11096.6	10917.6	10741.4	10667.1	10639.5	10510.2
5°	12194.9	11905.9	11239.7	10570.8	9954.2	9298.9	8866.7	8519.9	8316.2	8217.1	8060.2
7.5°	11729.6	11256.2	10245.9	9213.7	8252.9	7305.9	6603.9	6064.4	5692.7	5513.9	5351.4
10°	11278.2	10647.9	9210.9	7804.2	6499.4	5244.1	4275.1	3573.1	3124.4	2918.0	2785.8
12.5°	10873.6	10056.0	8211.6	6430.6	4792.6	3322.7	2337.2	1778.3	1500.2	1404.0	1357.1
15°	10512.9	9510.9	7267.4	5125.7	3245.5	1899.5	1277.4	1087.3	1043.3	1043.3	1037.9
17.5°	10171.6	8976.8	6356.2	3900.7	2037.0	1161.7	971.8	947.0	947.0	957.9	957.9
20°	9844.0	8467.6	5475.3	2799.5	1282.8	922.1	878.1	872.7	878.1	891.9	891.9
22.5°	9563.3	8005.1	4652.3	1921.5	952.5	831.4	809.3	801.1	803.8	812.2	817.6
25°	9354.0	7614.3	3876.0	1302.1	820.3	757.0	732.2	718.5	707.5	707.5	713.0
27.5°	9221.9	7283.9	3124.4	947.0	737.7	688.3	649.6	627.5	602.9	589.1	594.6
30°	9125.6	6970.0	2419.8	773.5	660.7	611.1	561.6	525.7	490.0	473.5	479.0
32.5°	9089.8	6716.8	1808.6	682.7	591.8	536.8	476.3	429.4	390.9	377.2	379.9
35°	9186.1	6515.9	1324.1	616.7	536.8	467.9	399.2	346.9	316.6	308.3	311.1
37.5°	9439.4	6408.5	991.0	561.6	487.3	410.2	333.1	283.5	264.3	264.3	267.0
40°	9918.3	6405.8	795.5	523.1	443.1	355.1	275.4	239.5	228.5	234.1	236.8
42.5°	10617.6	6551.6	693.7	487.3	404.7	302.7	228.5	203.7	200.9	206.5	209.2
45°	11572.7	6818.7	638.6	456.9	363.4	253.3	192.8	176.1	176.1	184.4	187.2
47.5°	12742.7	7209.6	591.8	426.6	322.1	212.0	165.2	154.2	156.9	165.2	167.9
50°	14152.2	7702.3	545.1	393.7	291.8	176.1	143.1	134.9	137.6	148.7	151.5
52.5°	15757.1	8365.8	506.5	363.4	253.3	145.9	121.2	115.6	121.2	132.1	134.9
55°	17133.4	8960.4	459.8	338.6	203.7	121.2	99.1	99.1	104.6	118.3	121.2
57.5°	18457.5	9582.5	418.5	291.8	159.6	96.3	82.6	85.3	93.6	107.4	110.2
60°	20401.0	10636.8	368.9	245.0	121.2	77.0	68.9	71.6	82.6	96.3	99.1
62.5°	23701.6	12241.7	319.4	203.7	93.6	60.5	55.0	60.5	74.3	90.8	93.6
65°	26680.1	12894.1	261.5	170.7	71.6	46.8	46.8	55.0	71.6	88.1	90.8
67.5°	25020.2	10854.3	203.7	134.9	55.0	35.8	38.6	52.3	68.9	88.1	90.8
69°	22126.9	8875.0	173.4	107.4	46.8	33.0	35.8	52.3	68.9	85.3	88.1
70°	19872.5	7493.1	154.2	90.8	41.3	33.0	35.8	49.6	68.9	85.3	88.1
72.5°	13309.8	4046.6	123.9	66.1	38.6	30.3	30.3	49.6	66.1	82.6	85.3
75°	5720.3	1117.6	99.1	46.8	33.0	27.6	27.6	46.8	63.3	79.9	85.3
77.5°	1046.0	283.5	79.9	41.3	33.0	27.6	24.8	44.0	60.5	77.0	79.9
80°	415.6	140.4	63.3	35.8	30.3	24.8	22.1	41.3	57.8	74.3	77.0
82.5°	250.5	79.9	52.3	33.0	30.3	22.1	19.2	35.8	55.0	71.6	74.3
85°	203.7	55.0	41.3	33.0	27.6	22.1	16.5	33.0	49.6	68.9	71.6
87.5°	99.1	38.6	38.6	30.3	27.6	22.1	16.5	30.3	46.8	66.1	68.9
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)