Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P192994

Luminaire Tested: **GLEON-AF-06-LED-E1-SL4-7030**

Issue Date: 3/3/2020

Report Generated By E9970913

Test Information

Test Method:	LM-79-08
Report Number:	P192994
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab:	INNOVATION CENTER P2
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GLEON-AF-06-LED-E1-SL4-7030
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(6) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	32717.7 lumens
Efficiency:	N/A
Efficacy:	98.3 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type IV - Short - Semi-Cutoff
BUG Rating:	B2 - U0 - G5

Input Watts (W):	333
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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Scaled Data Report

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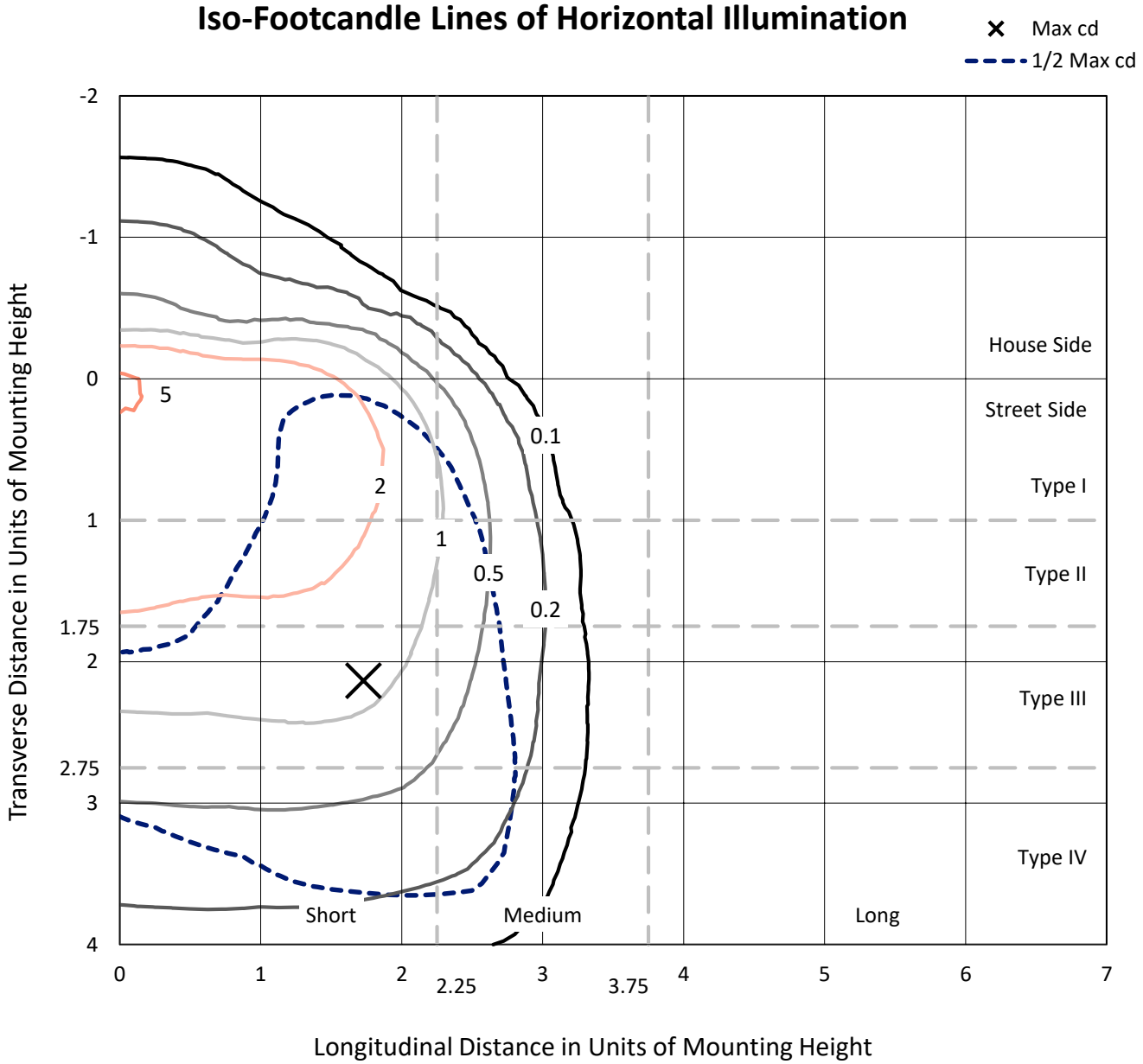
Iso-Footcandle Lines of Horizontal Illumination



Based on 30 foot mounting height. Maximum calculated value = 5.5 fc
Type IV - Short - Semi-Cutoff

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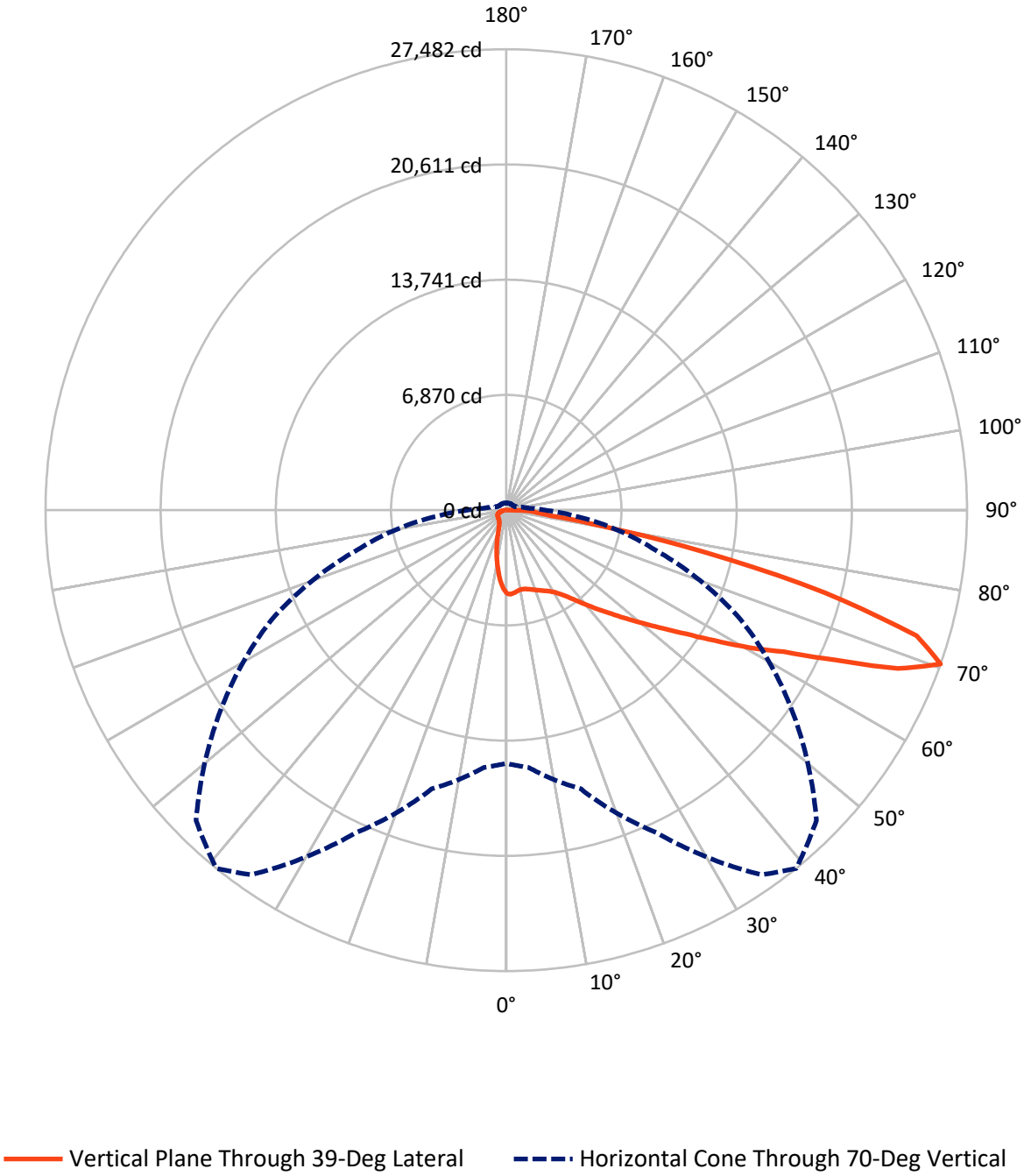
Luminous Intensity Polar Plot



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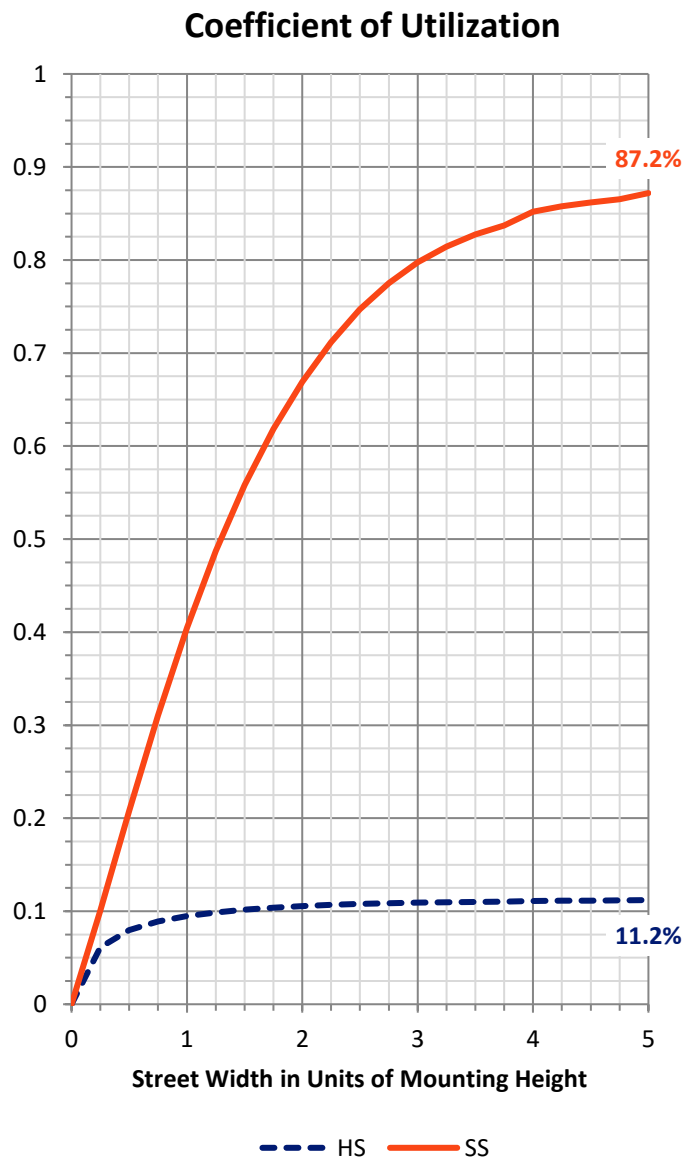
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3721.1	0.0	3721.1
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	28996.6	0.0	28996.6
	% Fixture	88.6	0.0	88.6
Total	Lumens	32717.7	0.0	32717.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	426.3	1.3
10°-20°	1065.5	3.3
20°-30°	1659.0	5.1
30°-40°	2584.5	7.9
40°-50°	4338.9	13.3
50°-60°	6892.6	21.1
60°-70°	9194.0	28.1
70°-80°	5552.0	17.0
80°-90°	1004.8	3.1
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°	32717.7	100.0
0°-180°	32717.7	100.0



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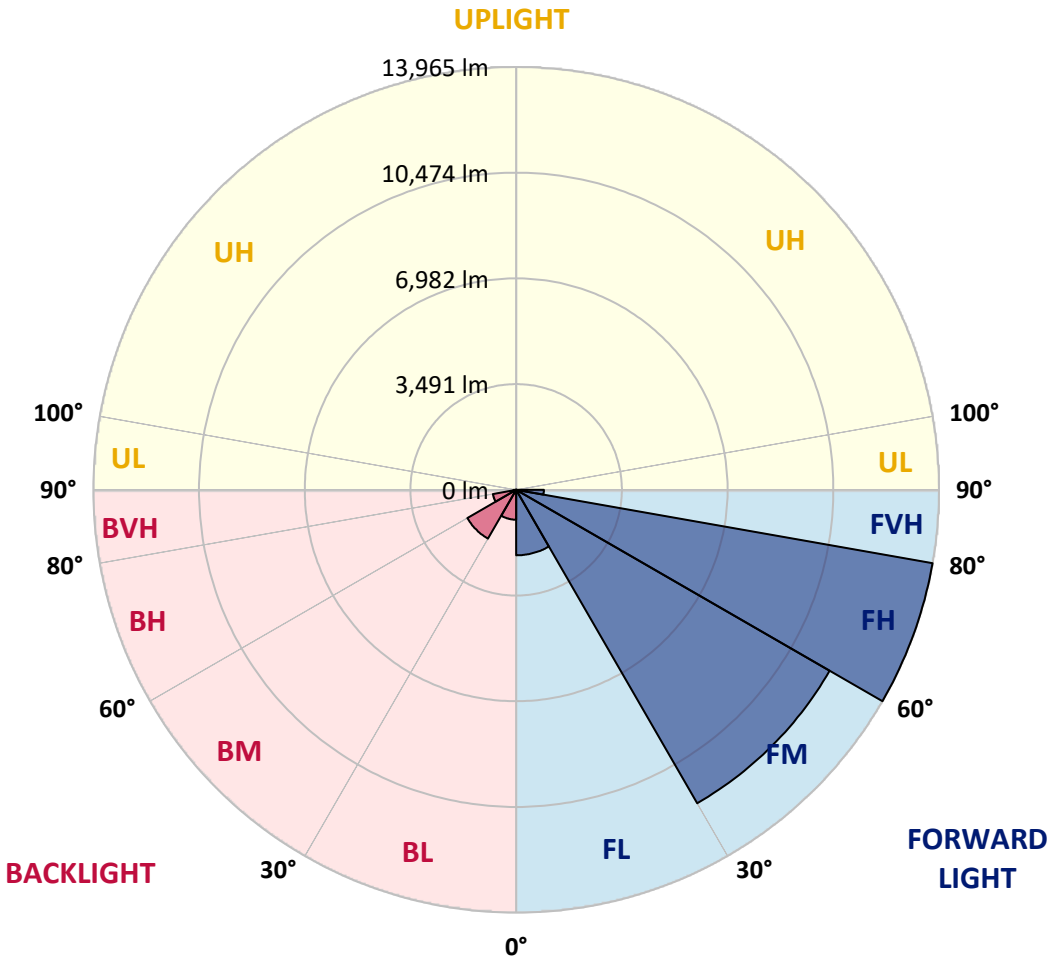
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2163.7	6.6			
FM	(30°-60°)	11953.8	36.5			
FH	(60°-80°)	13964.9	42.7			G5
FVH	(80°-90°)	914.3	2.8			G5
BL	(0°-30°)	987.1	3.0	B2/1000		
BM	(30°-60°)	1862.2	5.7	B2/2500		
BH	(60°-80°)	781.2	2.4	B2/1000		G2/1000
BVH	(80°-90°)	90.6	0.3			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°	39°	45°	55°	65°	75°	85°
0°	4967.0	4967.0	4967.0	4967.0	4967.0	*4967.0*	4967.0	4967.0	4967.0	4967.0	4967.0
2.5°	5063.5	5061.9	5048.6	5038.6	5030.3	*5026.9*	5033.6	5008.7	4987.0	4960.4	4932.1
5°	5025.3	5023.6	5002.0	4982.0	4962.0	*4955.5*	4953.7	4908.8	4882.2	4842.3	4789.1
7.5°	4983.7	4975.3	4947.0	4913.8	4878.9	*4862.2*	4845.6	4787.4	4757.4	4717.5	4656.0
10°	4940.4	4930.5	4903.9	4870.6	4837.4	*4812.4*	4784.0	4727.5	4696.0	4665.9	4594.5
12.5°	4895.5	4887.1	4880.5	4865.6	4842.3	*4820.6*	4799.0	4750.8	4717.5	4682.7	4599.4
15°	4889.0	4885.5	4900.5	4910.5	4897.2	*4883.9*	4860.6	4819.0	4784.0	4749.2	4641.0
17.5°	4942.2	4940.4	4978.7	5005.2	4998.6	*4975.3*	4943.8	4897.2	4868.9	4839.0	4704.2
20°	5058.6	5066.9	5113.5	5148.4	5115.1	*5081.8*	5030.3	4965.4	4950.4	4937.1	4769.0
22.5°	5278.1	5286.4	5319.8	5333.1	5246.5	*5198.2*	5126.8	5043.5	5033.6	5043.5	4847.3
25°	5620.8	5612.4	5607.5	5557.6	5399.6	*5324.6*	5233.2	5146.6	5151.7	5196.6	4957.1
27.5°	6075.0	6030.0	5960.1	5810.4	5559.2	*5476.1*	5364.6	5284.8	5316.3	5402.9	5121.7
30°	6545.6	6495.8	6334.5	6089.9	5768.8	*5677.3*	5552.5	5462.8	5545.9	5682.3	5341.3
32.5°	6981.4	6974.8	6738.7	6424.2	6058.3	*5978.4*	5853.7	5752.2	5886.9	6094.9	5670.7
35°	7457.3	7472.2	7189.4	6811.8	6449.1	*6366.0*	6276.2	6199.7	6379.3	6665.5	6148.1
37.5°	7966.2	7996.1	7661.8	7236.0	6895.1	*6860.1*	6806.9	6773.5	7051.4	7447.2	6815.1
40°	8646.6	8616.6	8152.6	7715.1	7442.3	*7440.5*	7423.9	7463.9	7926.3	8468.5	7671.8
42.5°	9375.2	9287.0	8673.2	8229.1	8042.8	*8099.3*	8132.6	8295.6	8979.3	9709.6	8716.4
45°	10160.3	9962.4	9213.9	8773.0	8709.8	*8829.6*	8942.7	9297.0	10218.6	11121.8	9860.8
47.5°	10787.5	10596.2	9772.8	9343.7	9481.6	*9663.0*	9880.9	10441.5	11605.8	12580.6	10990.4
50°	11281.4	11156.8	10336.7	10008.9	10331.7	*10611.1*	10967.1	11737.2	13049.7	14001.2	12036.6
52.5°	11760.5	11667.5	10905.6	10691.0	11329.7	*11715.7*	12199.7	13127.9	14530.2	15398.6	12916.6
55°	12193.2	12126.5	11517.7	11540.9	12504.1	*13006.4*	13615.4	14711.5	16143.7	16644.4	13661.9
57.5°	12680.4	12595.6	12216.4	12607.3	14012.8	*14665.0*	15456.8	16491.4	17657.5	17752.3	14229.2
60°	13171.2	13098.0	12991.5	13838.2	15929.1	*16614.5*	17364.7	18216.4	19192.8	18612.4	14195.8
62.5°	13597.0	13605.3	13793.3	15130.7	17805.6	*18598.9*	19513.9	20355.5	20581.8	18762.0	13146.2
65°	14319.0	14450.4	15010.9	16960.6	20447.1	*21508.3*	22631.2	22496.5	20966.1	17363.1	10895.6
67.5°	15177.3	15408.5	16544.7	19399.1	23785.6	*25194.5*	25628.7	22980.5	19427.4	14114.3	7766.5
70°	*15090.8*	*15408.5*	*17206.7*	*21217.3*	*26537.0*	*27481.8*	*26164.4*	*20798.0*	*15426.8*	*9220.5*	*4125.3*
72.5°	13400.7	13854.8	15857.7	20383.9	25670.4	*25587.1*	22714.4	15505.0	9165.5	3702.8	1611.9
75°	10213.5	10672.7	12396.0	16103.8	20289.0	*19590.4*	16117.2	8565.1	3478.3	1470.5	1016.3
77.5°	5875.3	6231.3	7562.1	9875.8	12871.8	*12154.8*	8970.9	3809.4	1693.4	1024.7	793.4
80°	3280.3	3478.3	4286.7	5010.3	6307.7	*5782.1*	4013.8	2367.1	1264.2	743.5	612.2
82.5°	2593.3	2769.6	3466.6	3160.6	2881.0	*2658.2*	2305.6	2107.6	1009.7	469.0	365.9
85°	2265.6	2433.6	2934.2	2488.5	1967.9	*1804.9*	1873.0	2074.3	785.1	282.8	312.7
87.5°	2099.3	2323.8	2614.9	1917.9	1532.1	*1357.3*	1728.4	2273.9	252.8	176.4	126.4
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°	4967.0	4967.0	4967.0	4967.0	4967.0	4967.0	4967.0	4967.0	4967.0	4967.0	4967.0
2.5°	4907.2	4880.5	4837.4	4799.0	4739.1	4707.6	4672.6	4647.7	4627.6	4611.1	4637.7
5°	4755.8	4705.9	4614.4	4516.2	4399.9	4308.3	4231.8	4160.3	4110.4	4077.1	4100.4
7.5°	4612.7	4531.2	4388.2	4210.2	4010.6	3840.9	3701.1	3578.0	3493.2	3438.4	3460.0
10°	4531.2	4429.8	4208.5	3929.1	3634.6	3370.1	3150.6	2960.9	2829.5	2754.7	2766.3
12.5°	4511.4	4379.8	4073.7	3689.5	3286.9	2919.3	2609.9	2347.1	2162.5	2066.0	2069.4
15°	4526.3	4358.3	3947.3	3460.0	2951.0	2486.8	2100.9	1781.6	1567.0	1457.2	1455.6
17.5°	4551.2	4341.6	3814.2	3212.1	2609.9	2071.0	1640.2	1327.4	1137.8	1049.7	1043.0
20°	4577.9	4314.9	3664.5	2944.3	2255.6	1685.1	1284.3	1039.6	919.9	871.7	868.3
22.5°	4616.1	4291.7	3509.9	2661.5	1908.0	1372.3	1056.3	891.5	828.4	803.5	800.1
25°	4677.6	4280.0	3345.2	2367.1	1595.3	1147.8	919.9	818.5	781.9	765.2	763.5
27.5°	4780.7	4296.7	3190.5	2081.0	1340.7	996.5	843.4	781.9	755.2	740.2	738.6
30°	4913.8	4348.3	3027.5	1809.9	1142.8	893.3	796.8	756.8	735.2	720.2	720.2
32.5°	5135.0	4434.8	2856.1	1575.3	1001.4	821.7	761.9	735.2	717.0	705.3	703.6
35°	5461.1	4597.7	2696.4	1380.7	900.0	770.2	731.9	712.0	698.6	692.0	692.0
37.5°	5935.2	4855.6	2555.0	1240.9	838.3	735.2	703.6	688.7	680.3	680.3	680.3
40°	6572.3	5211.5	2440.3	1147.8	803.5	710.3	682.0	670.5	665.4	667.0	667.0
42.5°	7359.0	5674.1	2363.8	1082.9	786.7	695.3	667.0	657.0	652.1	650.4	652.1
45°	8255.7	6199.7	2355.4	1034.6	770.2	685.4	657.0	647.1	637.1	630.4	630.4
47.5°	9127.3	6733.6	2423.6	1018.1	751.9	673.7	648.8	638.7	623.8	608.8	608.8
50°	9897.5	7187.7	2515.1	1024.7	745.2	657.0	635.5	630.4	607.2	590.5	588.9
52.5°	10509.6	7537.0	2590.0	1044.6	751.9	645.4	618.9	620.5	595.5	577.2	575.6
55°	11000.3	7766.5	2570.0	1064.6	766.9	638.7	603.8	607.2	587.2	568.9	568.9
57.5°	11214.9	7681.8	2348.7	1048.1	778.5	640.5	592.1	605.6	588.9	572.2	572.2
60°	10754.2	6928.2	1934.6	974.8	763.5	635.5	587.2	612.2	610.4	593.9	592.1
62.5°	9360.2	5579.3	1500.4	866.7	712.0	610.4	573.9	610.4	628.8	623.8	622.1
65°	7214.4	3974.0	1146.1	750.2	642.1	568.9	538.9	572.2	597.2	603.8	602.1
67.5°	4682.7	2435.3	883.3	640.5	563.9	520.6	494.1	509.0	513.9	513.9	510.7
70°	*2302.2*	*1310.8*	*703.6*	*538.9*	*484.0*	*469.0*	*454.1*	*445.8*	*437.5*	*430.8*	*430.8*
72.5°	1136.2	856.7	578.8	455.8	417.5	411.0	407.5	397.6	390.9	382.6	379.2
75°	840.1	697.0	492.4	384.3	359.4	352.7	359.4	350.9	349.3	342.6	339.4
77.5°	690.3	593.9	424.2	329.4	307.8	296.1	306.0	307.8	309.4	299.4	296.1
80°	560.6	502.4	354.3	272.8	252.8	244.5	251.2	264.5	267.8	252.8	246.2
82.5°	404.3	411.0	286.2	212.9	196.3	189.7	202.9	219.6	222.9	201.2	196.3
85°	339.4	342.6	219.6	151.4	134.7	124.8	146.4	163.1	174.7	153.1	148.0
87.5°	141.4	201.2	126.4	84.7	74.9	64.9	78.2	86.6	104.8	96.4	94.8
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)