

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: STREETWORKS

Report Number: P192965

Luminaire Tested: **GAN-AF-07-LED-U-SL4-7030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192965
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: STREETWORKS
Catalog Number: GAN-AF-07-LED-U-SL4-7030-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36254.4 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G5

Input Watts (W): 448
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: 28.75 FT



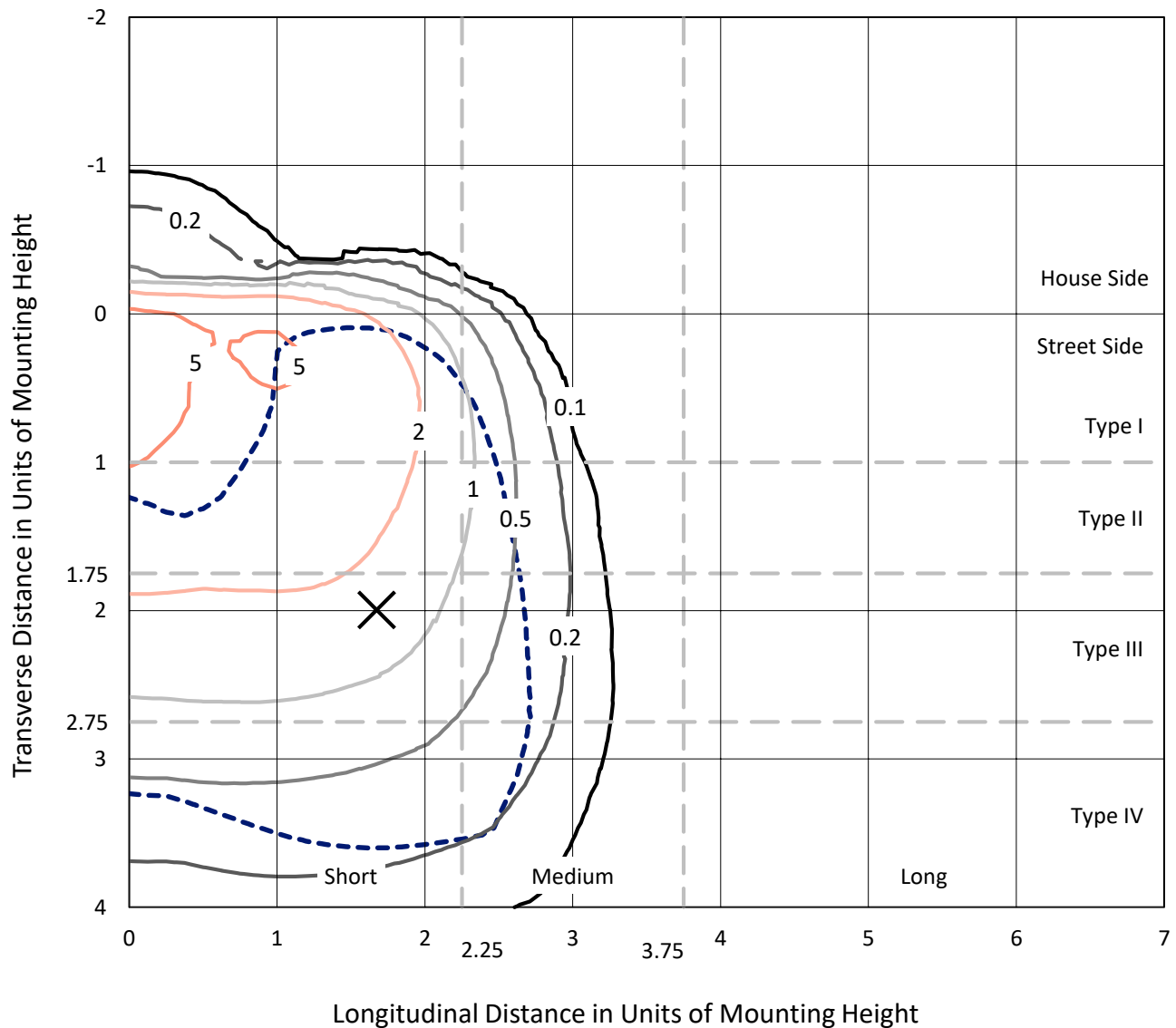
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Iso-Footcandle Lines of Horizontal Illumination

✗ Max cd

--- 1/2 Max cd

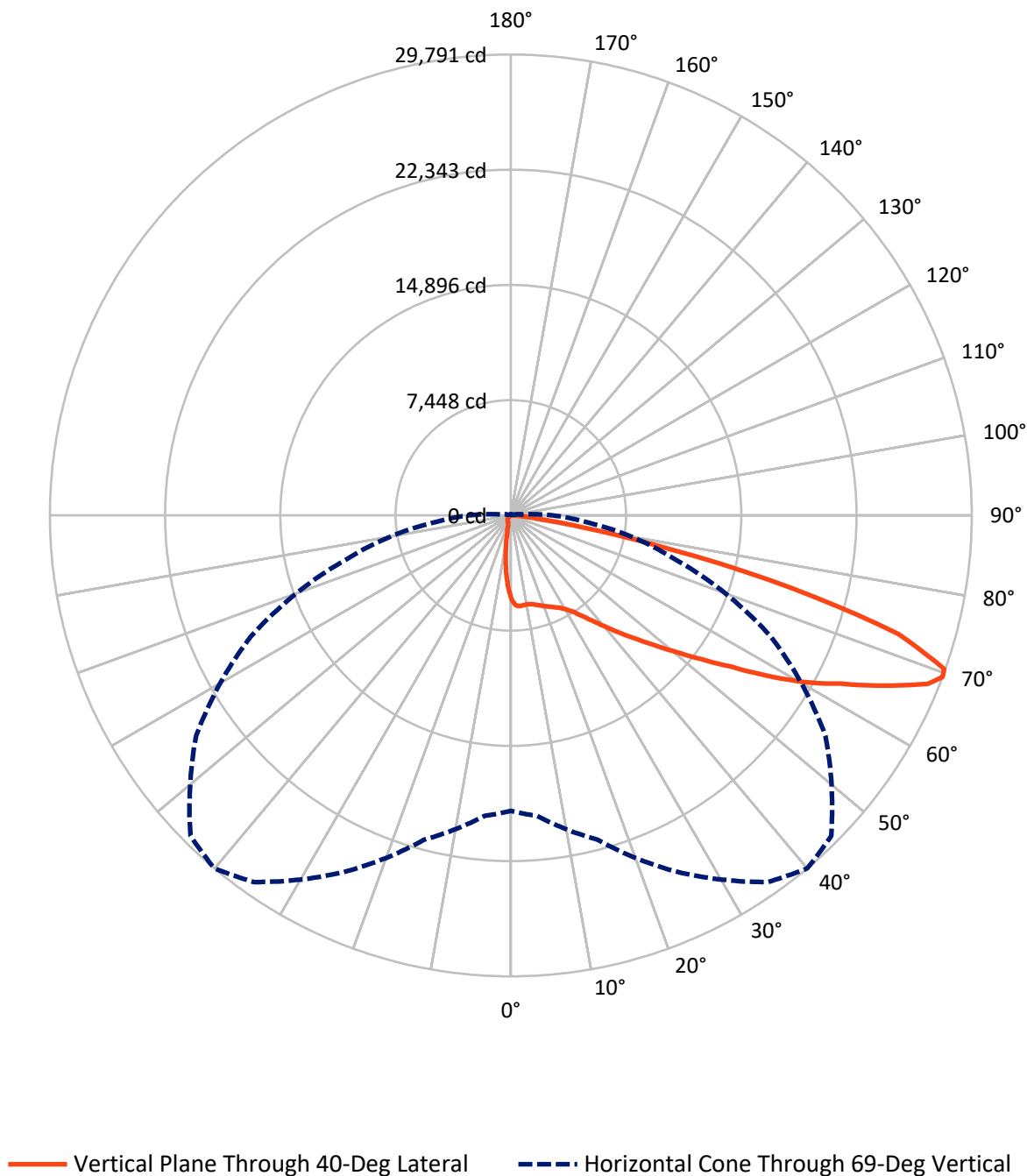


Based on 30 foot mounting height. Maximum calculated value = 6.6 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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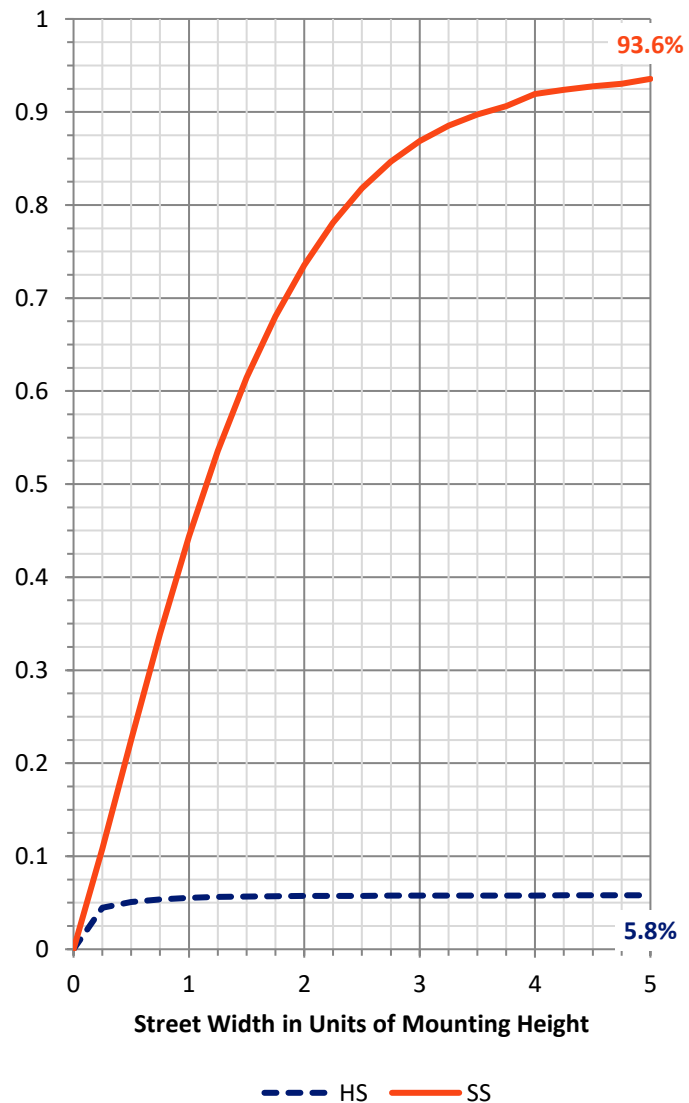
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2121.1	0.0	2121.1
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	34133.3	0.0	34133.3
	% Fixture	94.1	0.0	94.1
Total	Lumens	36254.4	0.0	36254.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	439.2	1.2
10°-20°	1080.0	3.0
20°-30°	1819.1	5.0
30°-40°	2978.0	8.2
40°-50°	5156.3	14.2
50°-60°	8121.6	22.4
60°-70°	10606.5	29.3
70°-80°	5462.8	15.1
80°-90°	590.9	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°	36254.4	100.0
0°-180°	36254.4	100.0

Coefficient of Utilization



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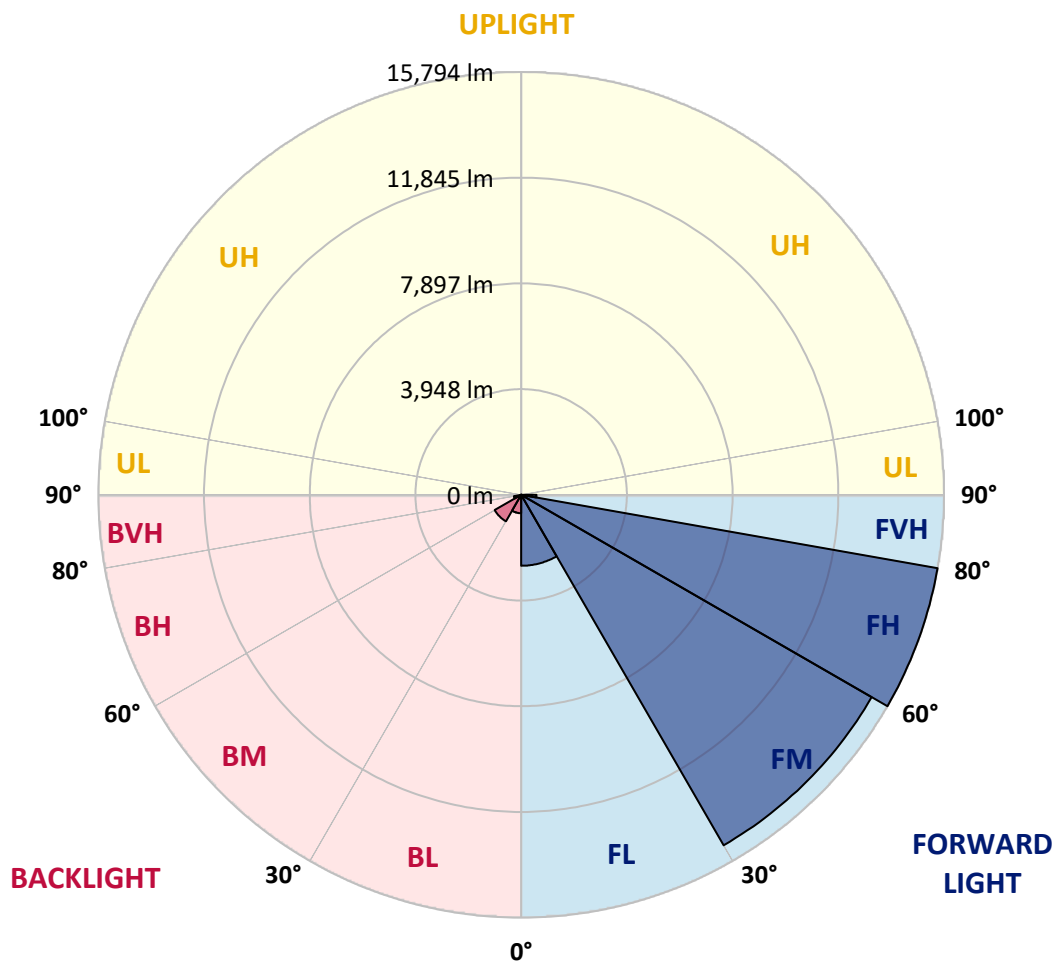
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2651.2	7.3			
FM	(30°-60°)	15115.8	41.7			
FH	(60°-80°)	15793.9	43.6			G5
FVH	(80°-90°)	572.4	1.6			G4/750
BL	(0°-30°)	687.1	1.9	B2/1000		
BM	(30°-60°)	1140.0	3.1	B2/2500		
BH	(60°-80°)	275.4	0.8	B1/500		G1/500
BVH	(80°-90°)	18.6	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°	5416.6	5416.6	5416.6	5416.6	5416.6	5416.6	5416.6	5416.6	5416.6	5416.6	5416.6
2.5°	5947.4	5915.1	5895.6	5869.7	5837.4	5809.4	5798.6	5718.7	5643.1	5539.6	5420.9
5°	6057.6	6046.7	6012.2	5977.7	5938.8	5895.6	5871.9	5777.0	5669.1	5518.0	5310.9
7.5°	6068.3	6055.3	6012.2	5964.7	5910.8	5859.0	5817.9	5723.0	5623.8	5470.5	5218.0
10°	6051.0	6035.9	6003.6	5951.8	5884.9	5835.2	5794.2	5703.7	5619.4	5481.3	5200.7
12.5°	6031.6	6016.5	6001.4	5975.5	5917.3	5882.7	5848.2	5761.9	5686.4	5569.8	5263.3
15°	6051.0	6042.4	6059.6	6048.9	6016.5	5986.4	5951.8	5874.1	5805.1	5707.9	5377.7
17.5°	6133.0	6133.0	6187.1	6193.5	6163.4	6120.1	6070.5	5992.8	5934.5	5852.5	5513.7
20°	6325.1	6318.7	6387.8	6400.6	6327.3	6260.3	6187.1	6092.1	6046.7	5994.9	5647.5
22.5°	6655.3	6625.1	6666.1	6653.2	6508.6	6405.0	6314.3	6197.8	6174.0	6150.3	5796.4
25°	7084.7	7067.4	7095.6	6968.2	6713.6	6573.2	6465.4	6333.8	6333.8	6357.5	5964.7
27.5°	7708.4	7643.7	7548.7	7324.3	6942.4	6763.1	6646.7	6506.4	6543.1	6631.6	6187.1
30°	8347.2	8276.0	8058.0	7712.7	7220.7	7032.9	6897.0	6750.2	6836.6	6998.4	6484.7
32.5°	8977.3	8897.4	8588.9	8152.9	7620.0	7432.2	7300.4	7138.7	7283.2	7555.2	6920.7
35°	9588.0	9516.8	9160.8	8647.1	8150.7	7995.4	7874.6	7734.3	7919.8	8299.7	7535.7
37.5°	10274.3	10196.6	9762.9	9206.0	8796.0	8683.8	8595.3	8455.0	8778.8	9335.5	8392.5
40°	11118.0	10986.4	10401.6	9847.0	9542.7	9488.7	9428.3	9408.9	9911.7	10682.2	9534.1
42.5°	12084.8	11869.1	11070.5	10522.4	10362.7	10401.6	10386.5	10472.8	11329.5	12356.7	10923.8
45°	13051.7	12773.3	11815.1	11243.3	11264.7	11400.7	11484.9	11830.1	13105.5	14277.4	12419.3
47.5°	13871.7	13597.7	12529.5	12022.3	12281.2	12548.8	12777.6	13431.5	14931.3	16167.7	13582.4
50°	14573.0	14314.0	13286.8	12878.9	13461.7	13893.2	14264.5	15233.4	16895.0	17607.1	14398.1
52.5°	15147.0	14974.4	14072.4	13860.8	14810.4	15442.7	15986.5	17147.4	18634.3	18776.9	15032.7
55°	15706.0	15583.0	14916.2	15028.4	16394.4	17255.5	17943.8	19178.2	20132.0	19752.2	15641.2
57.5°	16349.0	16236.8	15878.6	16508.7	18476.9	19560.1	20311.2	20978.0	21450.6	20749.2	16215.2
60°	17005.1	16940.3	16949.0	18153.1	20867.9	21908.1	22322.4	22495.1	22745.4	21688.0	16247.6
62.5°	17630.9	17753.9	18172.5	19983.1	23157.6	23956.0	24165.3	24335.9	24042.4	21836.9	15011.1
65°	18690.4	18891.2	19890.3	22432.4	25675.9	26530.6	26746.3	26161.5	24247.4	19912.0	12210.0
67.5°	19208.5	19575.3	21357.8	24715.6	28118.9	29068.3	28988.4	26280.2	21759.2	15183.8	7835.7
69°	19100.4	19491.1	21696.6	25414.8	28930.2	29791.2	29284.1	24827.8	18537.3	10999.3	4810.2
70°	18673.2	19068.2	21521.8	25388.9	29033.8	29715.8	28736.1	23034.6	15673.6	8042.9	3008.2
72.5°	15593.7	15934.7	19106.9	22948.3	26746.3	26191.7	24040.2	15958.4	7637.2	2190.4	677.6
75°	9598.9	9788.7	13709.9	17287.8	20201.1	18776.9	16016.8	7939.4	2276.8	619.4	375.6
77.5°	5071.3	5157.6	7505.6	10190.1	12805.6	10595.9	8209.0	3096.7	1048.8	388.4	271.9
80°	2997.4	3062.2	4041.9	4659.2	5541.7	4628.9	3282.3	1901.2	750.9	243.8	241.7
82.5°	1715.6	1756.7	2930.6	2589.6	2183.9	1864.5	1633.7	1801.9	451.0	164.0	250.3
85°	630.1	638.7	1648.7	1970.3	1299.1	772.6	811.4	1493.3	120.8	103.6	196.3
87.5°	293.5	287.1	848.1	1206.3	759.6	489.9	632.3	328.0	47.5	66.8	54.0
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°	5416.6	5416.6	5416.6	5416.6	5416.6	5416.6	5416.6	5416.6	5416.6	5416.6	5416.6
2.5°	5351.8	5272.0	5127.4	4978.5	4827.5	4710.9	4596.5	4506.0	4475.7	4419.6	4423.9
5°	5187.8	5041.1	4739.0	4432.5	4113.2	3849.9	3601.7	3401.0	3303.9	3204.7	3204.7
7.5°	5045.4	4831.8	4359.2	3860.6	3344.9	2911.1	2520.5	2227.0	2065.2	1935.7	1933.6
10°	4991.5	4702.3	4041.9	3327.6	2609.0	2017.7	1553.7	1255.9	1102.8	1003.4	999.1
12.5°	5015.2	4656.9	3798.1	2835.6	1933.6	1296.9	899.9	707.8	643.1	612.8	612.8
15°	5084.3	4644.1	3554.2	2354.4	1366.1	811.4	597.7	546.0	541.7	541.7	541.7
17.5°	5168.4	4648.3	3303.9	1886.2	930.2	580.5	515.8	509.2	513.6	513.6	513.6
20°	5254.8	4650.5	3034.1	1452.4	656.0	505.0	485.5	483.4	487.8	487.8	489.9
22.5°	5360.5	4661.3	2764.4	1085.5	541.7	476.9	461.8	461.8	464.1	464.1	461.8
25°	5481.3	4682.9	2483.9	804.9	494.2	457.5	444.5	442.4	444.5	442.4	440.2
27.5°	5632.5	4713.1	2171.0	630.1	472.6	438.1	427.3	427.3	425.1	423.0	420.7
30°	5822.3	4747.7	1819.1	535.2	451.0	420.7	410.0	407.9	405.7	401.4	401.4
32.5°	6111.5	4823.1	1471.7	485.5	427.3	397.0	388.4	388.4	384.1	379.7	377.6
35°	6556.0	4972.1	1161.0	455.4	401.4	371.2	360.3	360.3	356.0	353.9	351.7
37.5°	7171.0	5198.7	902.1	427.3	375.6	343.1	332.3	330.2	325.8	321.6	319.4
40°	7988.9	5479.2	709.9	401.4	349.6	315.1	306.5	302.1	293.5	287.1	287.1
42.5°	9016.2	5798.6	576.3	373.3	319.4	289.2	282.7	276.2	261.1	254.7	252.5
45°	10090.8	6085.5	487.8	341.0	289.2	263.4	259.0	248.1	228.8	222.3	222.3
47.5°	10865.5	6152.5	429.4	310.8	261.1	235.2	233.0	213.6	196.3	192.1	189.9
50°	11349.0	6020.8	382.0	280.6	235.2	209.3	202.9	179.0	168.4	164.0	161.8
52.5°	11674.8	5785.6	343.1	254.7	211.5	185.6	170.5	153.2	144.5	140.3	140.3
55°	11935.9	5453.2	304.3	230.9	192.1	166.2	144.5	131.6	123.0	118.6	118.6
57.5°	12009.3	5002.2	265.4	211.5	172.6	146.7	123.0	114.4	103.6	101.4	101.4
60°	11476.3	4188.7	235.2	187.7	155.3	127.3	107.9	97.1	86.4	84.1	82.1
62.5°	10071.4	3241.2	207.1	166.2	135.9	110.1	92.8	79.9	71.2	71.2	71.2
65°	7682.4	2173.0	181.3	144.5	118.6	92.8	79.9	64.8	60.4	60.4	62.6
67.5°	4598.7	1182.6	155.3	123.0	101.4	77.7	66.8	56.2	54.0	56.2	56.2
69°	2695.3	694.9	140.3	110.1	88.5	69.1	58.2	49.6	54.0	56.2	56.2
70°	1663.8	468.2	129.5	99.3	79.9	62.6	54.0	47.5	51.8	54.0	54.0
72.5°	464.1	241.7	103.6	77.7	64.8	51.8	43.1	43.1	49.6	51.8	51.8
75°	302.1	179.0	79.9	58.2	49.6	41.0	36.7	41.0	47.5	49.6	49.6
77.5°	250.3	146.7	64.8	47.5	41.0	38.9	34.5	36.7	43.1	45.4	45.4
80°	228.8	103.6	51.8	43.1	36.7	34.5	32.3	30.3	38.9	41.0	41.0
82.5°	218.0	82.1	45.4	38.9	34.5	30.3	28.1	30.3	34.5	36.7	38.9
85°	135.9	54.0	41.0	36.7	30.3	28.1	28.1	28.1	32.3	34.5	34.5
87.5°	49.6	43.1	36.7	30.3	25.9	25.9	25.9	25.9	28.1	32.3	32.3
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)