

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: P323129

Luminaire Tested: **GAN-SA5C-727-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323129
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5C-727-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24487 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

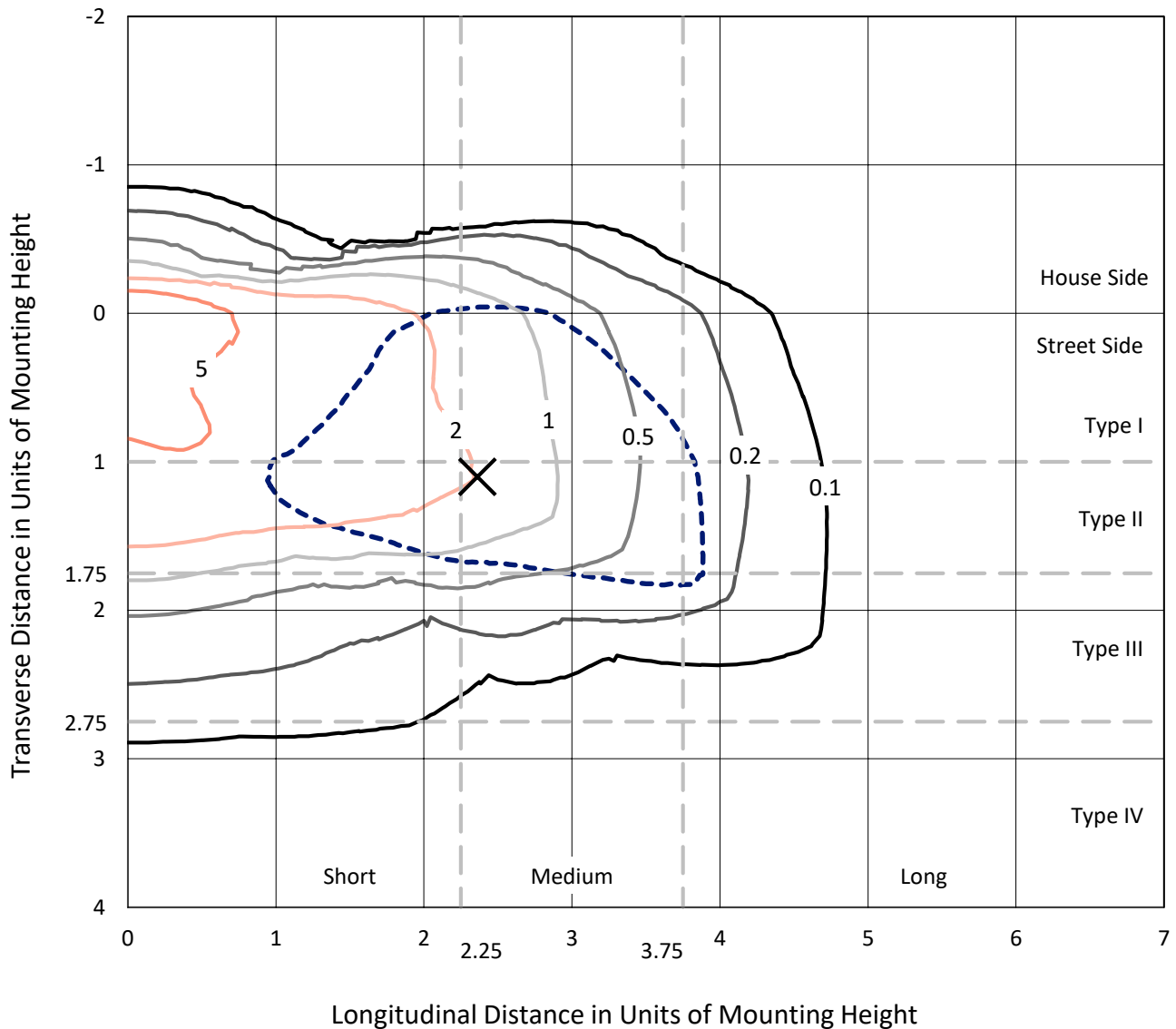
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

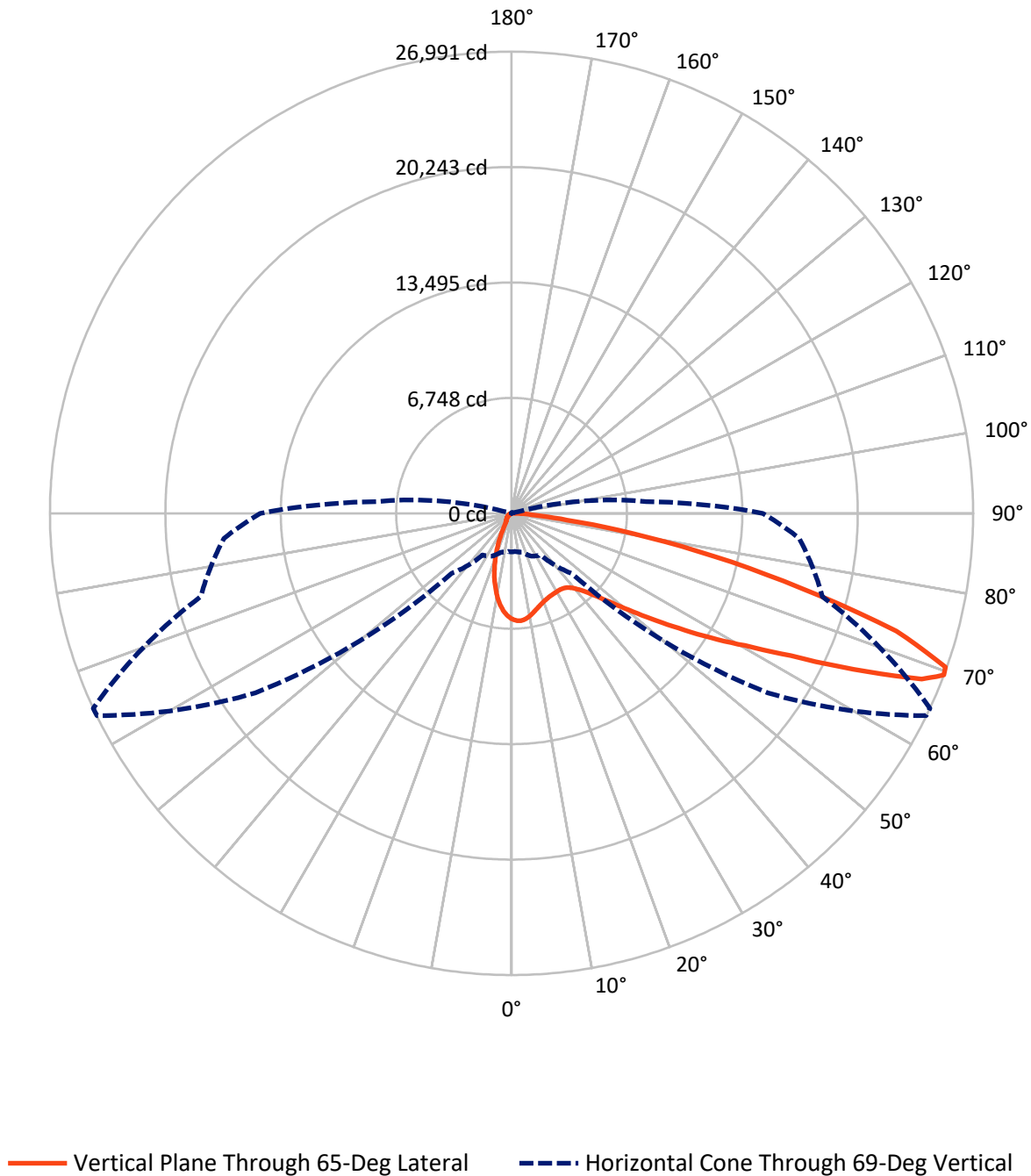
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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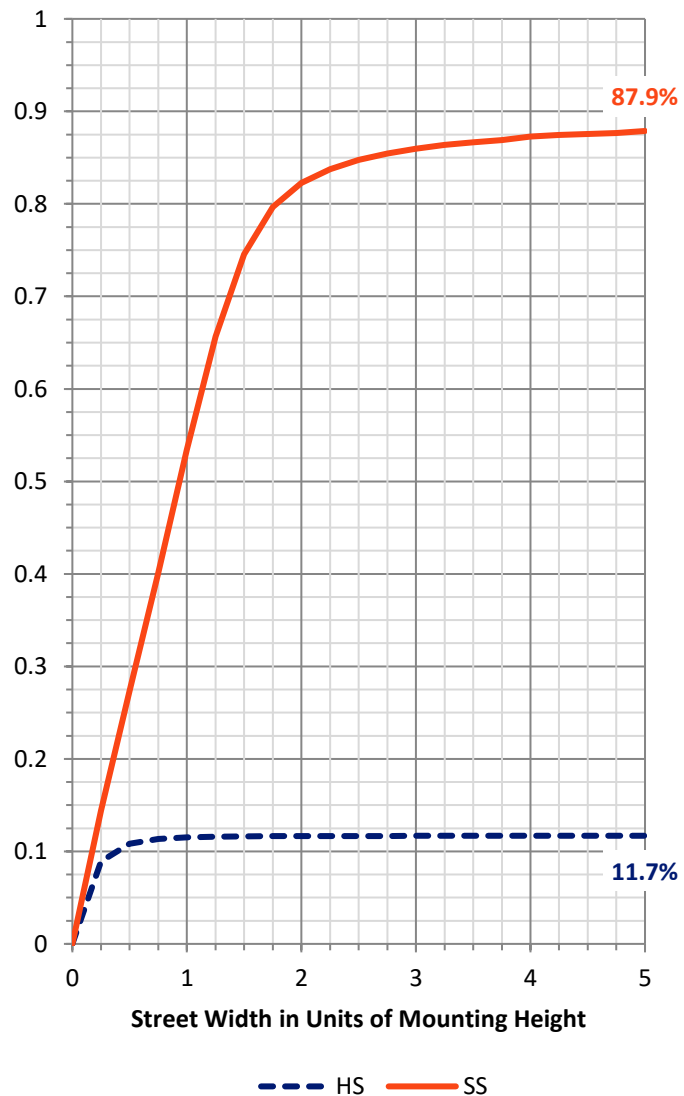
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2886.4	0.0	2886.4
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	21600.6	0.0	21600.6
	% Fixture	88.2	0.0	88.2
Total	Lumens	24487.0	0.0	24487.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	517.4	2.1
10°-20°	1132.7	4.6
20°-30°	1568.8	6.4
30°-40°	2187.4	8.9
40°-50°	3400.0	13.9
50°-60°	5458.3	22.3
60°-70°	6174.3	25.2
70°-80°	3626.2	14.8
80°-90°	421.8	1.7
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°	24487.0	100.0
0°-180°	24487.0	100.0

Coefficient of Utilization



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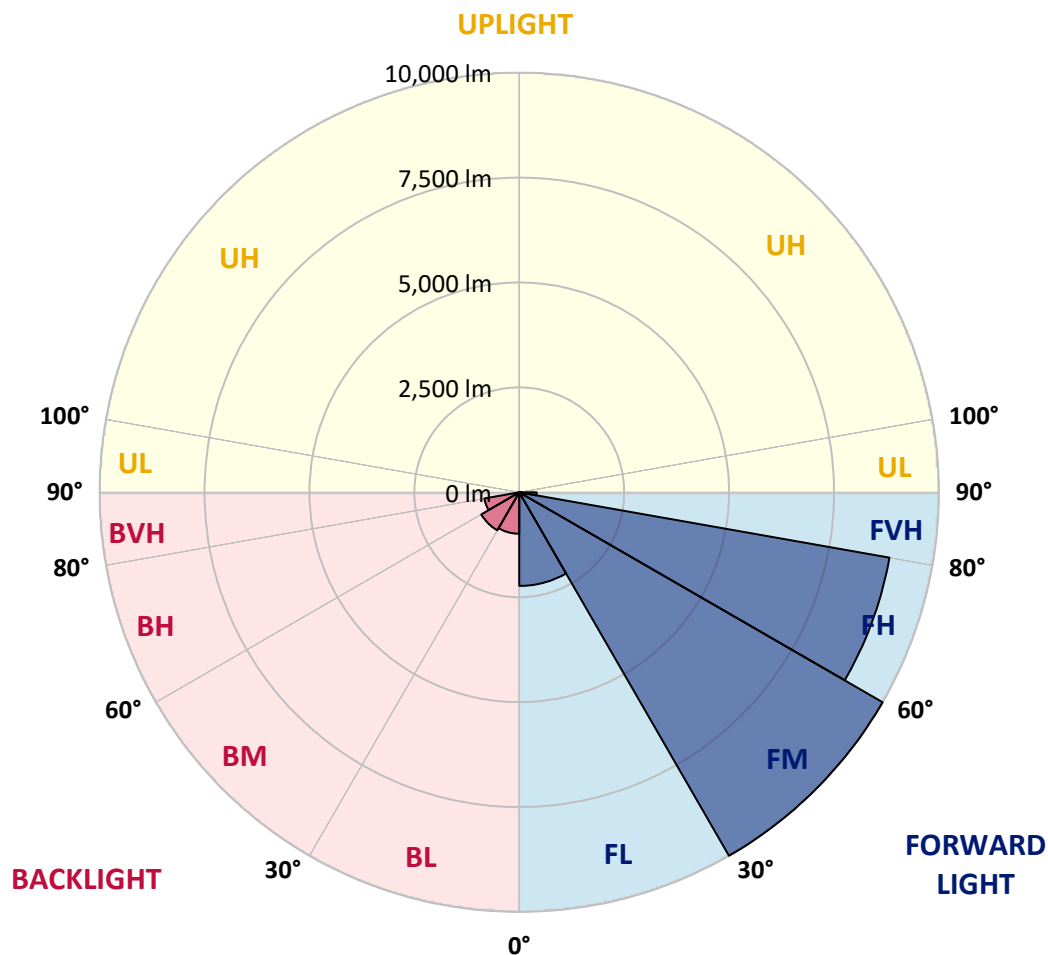
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2231.3	9.1			
FM	(30°-60°)	9999.8	40.8			
FH	(60°-80°)	8957.1	36.6			G4/12000
FVH	(80°-90°)	412.3	1.7			G3/500
BL	(0°-30°)	987.6	4.0	B2/1000		
BM	(30°-60°)	1046.0	4.3	B2/2500		
BH	(60°-80°)	843.4	3.4	B2/1000		G2/1000
BVH	(80°-90°)	9.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	6187.9	6187.9	6187.9	6187.9	6187.9	6187.9	6187.9	6187.9	6187.9	6187.9	6187.9
2.5°	6242.8	6227.3	6239.7	6266.7	6280.1	6280.1	6290.5	6278.1	6282.2	6252.1	6208.6
5°	5852.2	5828.4	5862.6	5938.2	6031.4	6111.2	6229.4	6291.5	6297.7	6298.8	6248.0
7.5°	5431.5	5409.8	5460.5	5549.6	5669.8	5818.0	6024.2	6204.5	6214.8	6312.2	6274.9
10°	5089.6	5074.0	5133.1	5228.4	5369.3	5535.1	5788.0	6038.7	6068.8	6284.3	6270.8
12.5°	4818.1	4805.7	4861.6	4971.5	5115.5	5298.9	5563.1	5854.3	5894.7	6221.1	6250.1
15°	4620.2	4618.1	4664.8	4770.5	4930.0	5101.0	5371.4	5683.3	5729.9	6152.7	6247.0
17.5°	4516.6	4519.7	4553.9	4644.0	4780.8	4950.7	5209.8	5539.3	5590.0	6091.5	6262.5
20°	4506.2	4509.3	4528.0	4578.8	4689.6	4839.9	5078.2	5418.0	5470.9	6046.0	6287.4
22.5°	4597.4	4595.3	4600.5	4595.3	4657.5	4771.5	4991.2	5324.8	5385.9	6015.9	6307.1
25°	4772.5	4769.4	4767.3	4729.0	4687.6	4748.7	4954.9	5271.9	5330.0	5994.1	6318.5
27.5°	5016.0	5013.9	5010.8	4947.6	4823.3	4785.0	4959.0	5252.3	5301.0	5976.5	6316.4
30°	5336.2	5350.7	5346.6	5258.5	5064.7	4895.8	5002.5	5241.9	5284.4	5942.3	6294.6
32.5°	5712.3	5741.3	5764.1	5669.8	5427.4	5115.5	5103.1	5253.3	5284.4	5916.4	6255.3
35°	6102.9	6140.2	6224.2	6191.0	5871.9	5446.0	5276.1	5321.7	5347.6	5930.9	6236.6
37.5°	6487.4	6531.9	6714.3	6810.6	6454.2	5883.3	5545.5	5490.6	5504.0	6019.0	6257.3
40°	6933.9	7001.3	7277.9	7433.4	7149.5	6468.7	5948.6	5780.7	5785.9	6212.8	6353.7
42.5°	7520.4	7589.8	7889.3	8132.8	7932.8	7208.5	6495.6	6224.2	6219.0	6575.4	6580.6
45°	8235.3	8307.9	8617.7	8888.1	8798.0	8085.1	7196.1	6871.8	6865.6	7147.4	7010.6
47.5°	9045.6	9117.1	9393.8	9672.5	9769.9	9108.8	8088.2	7755.6	7741.1	7942.1	7674.8
50°	9740.9	9787.5	10042.4	10417.5	10856.8	10366.7	9197.9	8877.8	8862.2	8998.0	8649.8
52.5°	9993.7	10020.6	10279.7	10805.0	11901.3	12070.2	10655.8	10243.4	10232.0	10291.1	9948.1
55°	9481.8	9530.5	9848.6	10627.8	12467.0	13995.3	12496.0	11934.4	11848.4	11721.0	11305.5
57.5°	8087.2	8164.9	8506.8	9543.0	12202.8	15522.6	15200.4	13847.2	13720.7	12941.6	12409.0
60°	6059.4	6154.8	6438.7	7556.7	10792.6	16066.6	18155.5	15978.5	15693.6	13913.5	13423.4
62.5°	4158.1	4205.7	4398.5	5126.9	7948.3	15175.5	20627.7	18833.1	18313.0	14970.3	14520.7
65°	3175.8	3192.4	3271.1	3521.9	4733.1	12327.1	21611.1	22599.5	21970.6	16234.5	15659.4
67.5°	2559.3	2545.8	2654.6	3013.1	3169.6	7520.4	20464.0	26162.9	25868.6	17924.4	16805.4
69°	2256.7	2238.1	2349.0	2765.5	2976.9	4971.5	18294.3	26972.1	26990.8	18816.5	16884.1
70°	2030.9	2043.3	2153.1	2618.4	2911.6	3902.2	16222.0	26765.9	26913.0	19150.2	16411.6
72.5°	1356.3	1389.5	1610.2	2173.8	2799.7	2953.0	9794.8	22968.4	23534.2	18399.0	14080.3
75°	764.7	789.5	1051.7	1639.2	2638.0	2812.1	5173.5	16921.4	17468.5	15385.8	10857.9
77.5°	375.1	388.6	594.8	1057.9	2206.0	2679.5	2934.4	11494.0	12118.8	10042.4	6141.3
80°	158.5	165.8	297.4	652.8	1577.0	2557.2	2179.0	7073.8	7151.5	3934.3	1636.1
82.5°	61.1	63.2	125.4	407.2	1002.0	1993.6	1822.6	3354.0	3273.2	740.8	373.0
85°	7.3	8.3	45.6	244.5	557.5	1025.8	1480.7	1445.4	1337.7	147.1	191.7
87.5°	0.0	0.0	3.1	74.6	165.8	480.8	769.9	599.9	540.9	47.7	99.5
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°	6187.9	6187.9	6187.9	6187.9	6187.9	6187.9	6187.9	6187.9	6187.9	6187.9	6187.9
2.5°	6172.4	6162.0	6106.1	6025.2	5948.6	5853.2	5762.0	5707.1	5663.6	5634.6	5668.8
5°	6188.9	6143.4	5973.4	5755.8	5542.4	5302.0	5078.2	4888.6	4814.0	4731.1	4768.4
7.5°	6183.8	6097.8	5792.1	5404.6	5012.9	4607.8	4224.4	3929.1	3775.7	3625.5	3663.8
10°	6157.9	6012.8	5549.6	4975.6	4389.1	3806.8	3262.8	2849.4	2618.4	2409.1	2439.1
12.5°	6100.9	5898.8	5263.7	4484.5	3700.1	2932.3	2295.1	1765.6	1481.7	1356.3	1371.9
15°	6066.7	5788.0	4961.1	3987.1	2964.4	2042.3	1403.0	1043.4	913.9	872.4	877.6
17.5°	6050.1	5681.2	4648.2	3418.3	2212.2	1300.4	906.6	799.9	771.9	764.7	766.8
20°	6033.5	5573.5	4325.9	2855.6	1524.2	874.5	745.0	713.9	703.5	694.2	696.3
22.5°	6005.5	5469.9	3979.9	2285.8	1027.9	709.8	671.4	641.4	619.6	608.2	610.3
25°	5971.4	5361.1	3626.5	1702.4	750.2	633.1	596.8	554.3	528.4	507.7	508.8
27.5°	5916.4	5227.4	3261.8	1239.2	630.0	566.8	518.1	471.4	427.9	404.1	404.1
30°	5839.8	5076.1	2856.7	886.9	564.7	501.5	442.4	384.4	337.8	316.0	314.0
32.5°	5754.8	4918.6	2447.4	672.5	512.9	440.4	373.0	311.9	270.4	252.8	251.8
35°	5682.3	4748.7	2039.1	563.7	461.1	381.3	307.7	255.9	222.8	208.3	207.2
37.5°	5635.6	4578.8	1641.3	503.6	414.5	326.4	258.0	211.4	187.5	176.1	175.1
40°	5628.4	4452.4	1277.6	458.0	370.9	277.7	215.5	179.3	157.5	145.1	144.0
42.5°	5722.7	4379.8	980.2	419.6	326.4	235.2	183.4	153.4	130.6	118.1	117.1
45°	5970.3	4402.6	754.3	385.4	281.8	198.9	155.4	127.4	106.7	97.4	95.3
47.5°	6422.1	4560.1	599.9	351.3	239.4	168.9	132.6	105.7	88.1	78.7	77.7
50°	7226.1	4930.0	501.5	314.0	200.0	144.0	109.8	86.0	71.5	63.2	62.2
52.5°	8293.4	5589.0	447.6	277.7	165.8	122.3	90.1	68.4	56.0	49.7	48.7
55°	9470.4	6386.8	412.4	238.3	135.7	101.5	71.5	53.9	43.5	38.3	36.3
57.5°	10619.5	7078.0	379.2	200.0	112.9	82.9	57.0	42.5	34.2	29.0	28.0
60°	11675.4	7713.1	340.9	160.6	92.2	65.3	44.6	33.2	26.9	21.8	21.8
62.5°	12805.8	8204.3	288.1	125.4	75.6	49.7	36.3	30.0	21.8	18.7	17.6
65°	14003.6	8569.0	225.9	97.4	59.1	37.3	30.0	31.1	17.6	13.5	12.4
67.5°	14888.5	8496.5	166.8	76.7	45.6	29.0	29.0	33.2	15.5	10.4	9.3
69°	14693.7	7906.9	139.9	66.3	39.4	24.9	26.9	33.2	14.5	9.3	8.3
70°	14129.0	7254.1	123.3	59.1	35.2	22.8	25.9	32.1	13.5	9.3	8.3
72.5°	11766.6	5463.6	96.4	44.6	28.0	18.7	21.8	28.0	13.5	9.3	7.3
75°	8850.8	3497.0	73.6	32.1	20.7	14.5	16.6	20.7	13.5	8.3	7.3
77.5°	4816.0	1261.0	52.8	21.8	14.5	11.4	11.4	15.5	12.4	6.2	4.1
80°	1238.2	317.1	33.2	14.5	11.4	8.3	7.3	10.4	7.3	1.0	0.0
82.5°	305.7	71.5	17.6	10.4	8.3	3.1	3.1	5.2	3.1	0.0	0.0
85°	167.9	35.2	11.4	7.3	4.1	0.0	0.0	1.0	0.0	0.0	0.0
87.5°	86.0	10.4	3.1	2.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
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)