

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: P322821

Luminaire Tested: **GAN-SA7D-727-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322821
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7D-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33266 lumens
Efficiency: N/A
Efficacy: 74.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

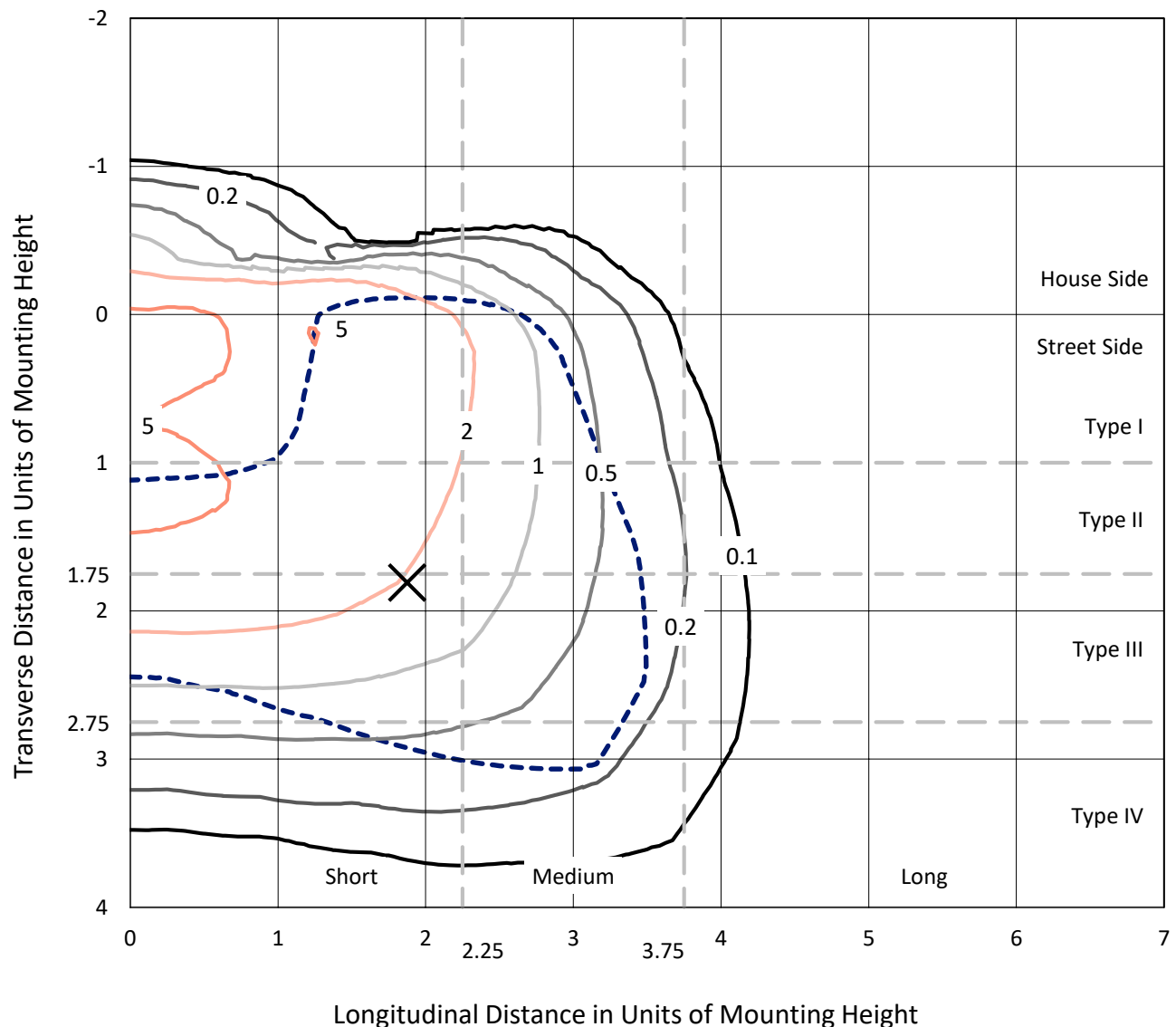
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

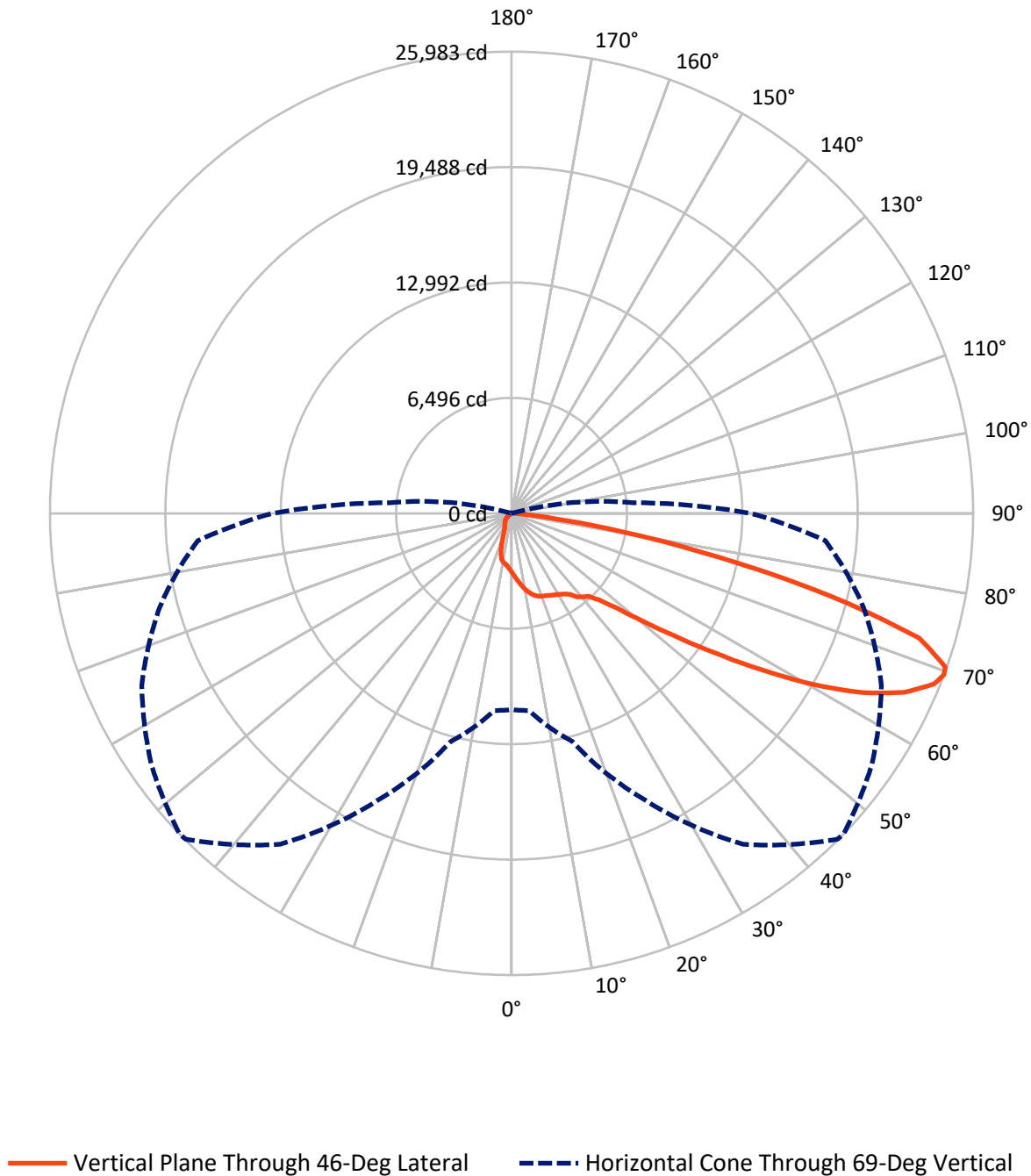
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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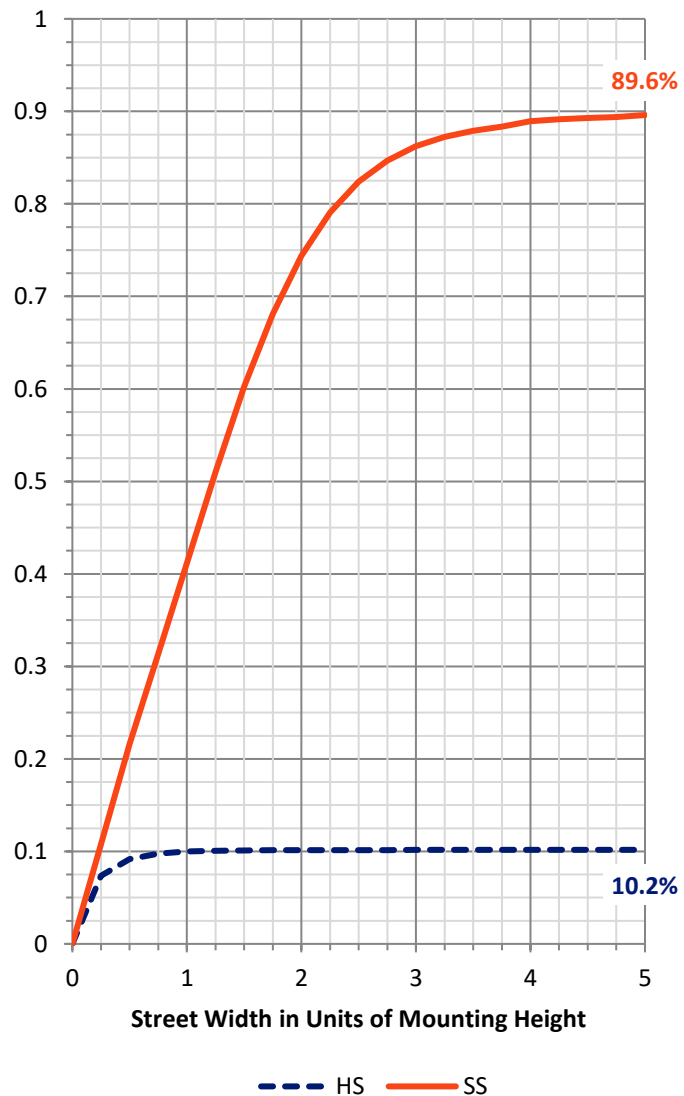
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3414.0	0.0	3414.0
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	29852.0	0.0	29852.0
	% Fixture	89.7	0.0	89.7
Total	Lumens	33266.0	0.0	33266.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.8	1.0
10°-20°	1006.5	3.0
20°-30°	1582.9	4.8
30°-40°	2269.8	6.8
40°-50°	3923.1	11.8
50°-60°	7750.5	23.3
60°-70°	10832.0	32.6
70°-80°	5233.0	15.7
80°-90°	336.4	1.0
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°	33266.0	100.0
0°-180°	33266.0	100.0

Coefficient of Utilization



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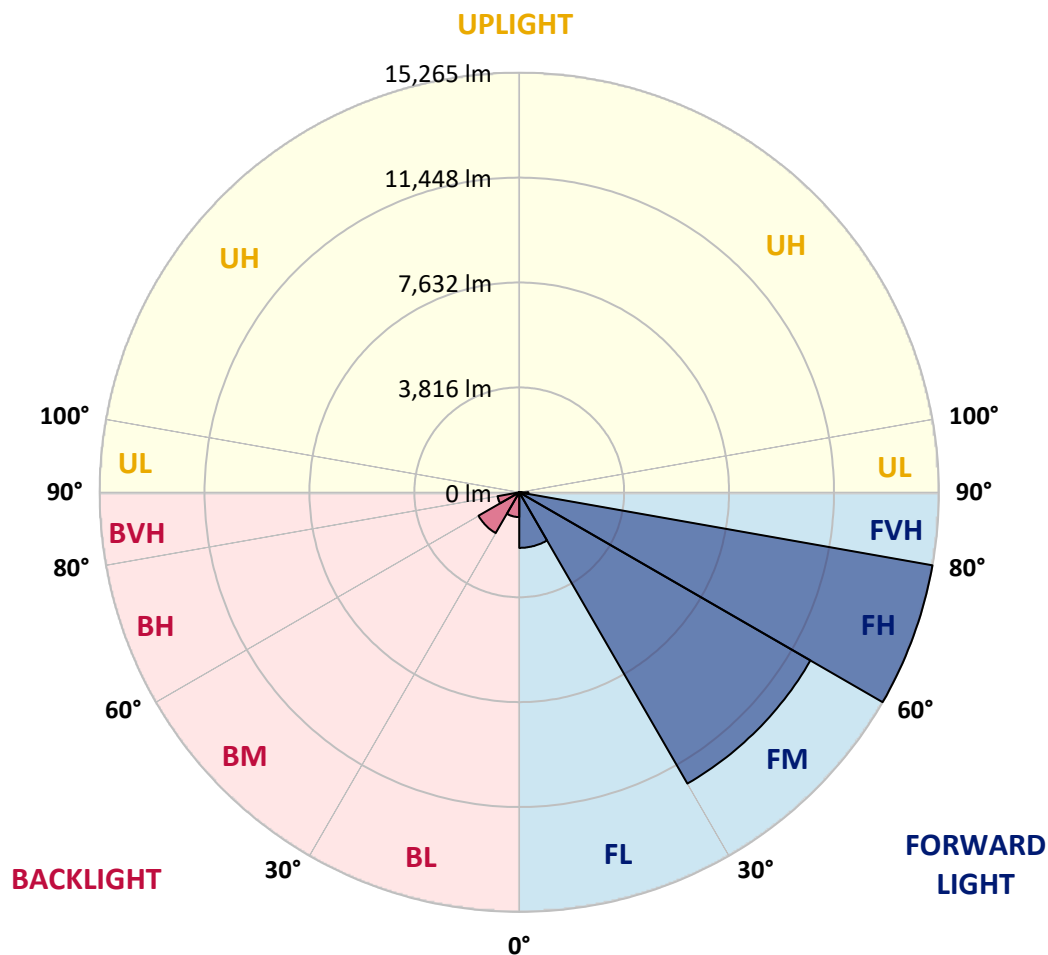
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2021.3	6.1			
FM	(30°-60°)	12232.6	36.8			
FH	(60°-80°)	15264.5	45.9			G5
FVH	(80°-90°)	333.5	1.0			G3/500
BL	(0°-30°)	899.8	2.7	B2/1000		
BM	(30°-60°)	1710.8	5.1	B2/2500		
BH	(60°-80°)	800.5	2.4	B2/1000		G2/1000
BVH	(80°-90°)	2.8	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3333.1	3333.1	3333.1	3333.1	3333.1	3333.1	3333.1	3333.1	3333.1	3333.1	3333.1
2.5°	3702.8	3698.1	3676.3	3666.9	3613.9	3582.7	3570.2	3531.2	3475.1	3418.9	3356.5
5°	4123.9	4122.3	4081.8	4042.8	3943.0	3849.4	3832.2	3741.8	3615.4	3496.9	3378.4
7.5°	4554.4	4534.1	4493.6	4418.7	4273.6	4123.9	4109.9	3982.0	3802.6	3631.0	3461.0
10°	4919.4	4906.9	4853.9	4740.0	4570.0	4400.0	4382.8	4225.3	4022.5	3812.0	3595.2
12.5°	5203.2	5193.9	5123.7	4981.8	4800.8	4624.6	4601.2	4460.8	4244.0	4008.5	3752.7
15°	5376.4	5371.7	5285.9	5134.6	4956.8	4803.9	4783.7	4660.5	4459.2	4212.8	3924.3
17.5°	5416.9	5418.5	5329.6	5176.7	5030.1	4920.9	4905.3	4811.7	4643.3	4398.4	4095.8
20°	5326.5	5345.2	5265.6	5133.0	5042.6	4984.9	4972.4	4916.2	4774.3	4543.5	4233.1
22.5°	5198.6	5207.9	5153.3	5064.4	5027.0	5037.9	5031.7	5000.5	4880.4	4668.3	4368.8
25°	5120.6	5120.6	5087.8	5013.0	5037.9	5105.0	5106.5	5100.3	5005.2	4821.1	4534.1
27.5°	5117.5	5108.1	5070.7	5014.5	5083.1	5186.1	5192.3	5234.4	5175.2	5006.7	4740.0
30°	5242.2	5231.3	5151.8	5078.5	5165.8	5276.5	5292.1	5384.2	5354.5	5207.9	4969.3
32.5°	5533.9	5494.9	5318.7	5198.6	5264.1	5396.6	5416.9	5563.5	5610.3	5455.9	5190.8
35°	5933.2	5810.0	5555.7	5426.3	5432.5	5571.3	5590.0	5805.3	5944.1	5683.6	5362.3
37.5°	6483.8	6422.9	6009.6	5663.4	5691.4	5902.0	5956.6	6190.5	6151.5	5808.4	5557.3
40°	7691.0	7595.9	7156.0	6327.8	5939.4	6170.3	6187.4	6312.2	6315.3	6090.7	5962.8
42.5°	9334.9	9296.0	8832.7	7533.5	6427.6	6349.6	6380.8	6591.4	6826.9	6686.5	6680.3
45°	11155.1	11134.9	10643.6	9133.7	7414.9	6937.6	6976.6	7259.0	7709.7	7740.9	7939.0
47.5°	12619.7	12610.4	12328.1	10919.6	8926.3	7934.3	7946.8	8246.3	9038.6	9430.1	9746.7
50°	13954.8	14000.1	13777.0	12852.1	10985.1	9495.6	9466.0	9665.6	10938.3	11579.4	11972.4
52.5°	15810.9	15874.9	15249.4	14655.2	13145.3	11432.8	11409.4	11618.4	13221.8	13702.2	13772.4
55°	17450.2	17341.0	16846.6	16675.0	15779.7	13825.4	13819.1	14003.2	15430.3	15634.7	15764.1
57.5°	18173.9	18131.8	18370.4	18763.5	18538.9	16653.2	16639.1	16498.8	17406.5	17428.3	17826.1
60°	18630.9	18682.4	19413.9	20625.8	21185.7	19696.2	19605.7	18749.4	19293.8	19245.4	19671.2
62.5°	18287.8	18389.1	19705.5	21725.4	23166.6	22352.4	22224.5	20811.4	20906.5	20739.6	21135.8
65°	16466.0	16623.5	18780.6	21517.9	24149.2	24428.4	24298.9	22631.6	22187.1	21912.6	21692.6
67.5°	13369.9	13463.5	15715.8	19713.3	23706.2	25666.8	25640.3	24227.2	23154.1	21714.5	20008.1
69°	11049.1	11141.1	13309.1	17813.6	22731.4	25932.0	25983.4	24738.8	22970.0	20510.4	17727.8
70°	9358.3	9456.6	11476.4	16185.2	21600.6	25808.7	25900.8	24690.4	22442.9	19116.0	15726.7
72.5°	4908.4	4992.7	7065.5	11150.5	17609.3	23698.4	23977.6	22603.5	19023.9	13883.1	9299.1
75°	1542.6	1590.9	2759.2	5828.7	12056.7	18426.6	18490.5	17730.9	13508.8	7636.4	3872.8
77.5°	588.0	574.0	918.7	2147.7	6095.4	11602.8	11994.3	11080.3	7088.9	2699.9	893.7
80°	316.6	318.2	477.3	889.0	2607.9	5962.8	6293.5	5370.1	2519.0	842.3	205.9
82.5°	137.3	143.5	268.3	471.0	1197.9	2199.2	2364.5	1968.4	962.3	566.2	76.4
85°	29.6	32.8	129.5	255.8	488.2	617.7	647.3	637.9	613.0	439.8	29.6
87.5°	0.0	0.0	57.7	92.0	123.2	140.4	123.2	160.7	338.5	296.3	15.6
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°	3333.1	3333.1	3333.1	3333.1	3333.1	3333.1	3333.1	3333.1	3333.1	3333.1	3333.1
2.5°	3336.2	3308.2	3259.8	3206.8	3169.4	3130.4	3099.2	3085.1	3069.5	3058.6	3072.7
5°	3330.0	3275.4	3181.8	3091.4	3025.9	2972.8	2929.2	2912.0	2894.8	2882.4	2880.8
7.5°	3384.6	3308.2	3164.7	3032.1	2930.7	2859.0	2799.7	2774.7	2754.5	2745.1	2737.3
10°	3489.1	3390.8	3199.0	3025.9	2894.8	2773.2	2645.3	2547.0	2483.1	2453.4	2442.5
12.5°	3624.8	3501.6	3264.5	3058.6	2868.3	2634.4	2363.0	2129.0	1977.7	1927.8	1898.2
15°	3783.9	3631.0	3350.3	3100.7	2771.6	2344.3	1884.1	1578.4	1438.1	1410.0	1378.8
17.5°	3936.7	3768.3	3453.2	3108.5	2559.5	1873.2	1380.4	1172.9	1118.3	1137.0	1141.7
20°	4070.9	3904.0	3554.6	3039.9	2174.3	1405.3	1068.4	1016.9	1037.2	1073.1	1079.3
22.5°	4206.6	4035.0	3648.2	2859.0	1681.4	1066.9	962.3	974.8	995.1	1031.0	1037.2
25°	4371.9	4194.1	3735.5	2526.8	1261.8	907.8	914.0	932.7	953.0	985.7	988.9
27.5°	4562.2	4395.3	3793.2	2094.7	935.8	834.5	854.7	882.8	903.1	934.3	940.5
30°	4814.9	4660.5	3812.0	1647.1	784.5	768.9	778.3	812.6	842.3	870.3	875.0
32.5°	5051.9	4922.5	3749.6	1243.1	726.8	708.1	708.1	728.4	762.7	789.2	795.5
35°	5270.3	5186.1	3549.9	909.3	683.2	652.0	636.4	636.4	658.2	680.0	686.3
37.5°	5558.9	5555.7	3227.1	725.3	641.0	605.2	572.4	547.5	539.7	544.3	547.5
40°	6053.3	6058.0	2805.9	650.4	605.2	556.8	506.9	461.7	419.6	405.5	404.0
42.5°	6825.3	6755.2	2364.5	614.5	574.0	506.9	432.0	371.2	305.7	285.4	283.9
45°	8051.3	7634.8	1896.6	581.8	541.2	450.8	357.2	274.5	221.5	205.9	205.9
47.5°	9837.2	8790.6	1469.3	545.9	497.6	386.8	269.8	198.1	162.2	154.4	156.0
50°	11683.9	9923.0	1126.1	500.7	444.5	319.7	199.6	143.5	123.2	123.2	124.8
52.5°	13321.6	10752.7	878.1	452.3	379.0	251.1	151.3	112.3	102.9	101.4	102.9
55°	14854.8	11287.7	672.2	396.2	301.0	187.2	115.4	92.0	85.8	82.7	81.1
57.5°	16333.4	11552.9	503.8	319.7	218.4	135.7	92.0	78.0	71.7	67.1	65.5
60°	17317.6	11337.6	346.3	235.5	151.3	98.3	76.4	67.1	59.3	54.6	53.0
62.5°	17872.9	10749.6	223.0	170.0	107.6	73.3	60.8	56.2	45.2	40.6	40.6
65°	17648.3	9779.5	156.0	121.7	78.0	54.6	45.2	45.2	32.8	26.5	25.0
67.5°	15639.3	8261.9	118.5	90.5	56.2	40.6	34.3	39.0	20.3	12.5	12.5
69°	13455.7	6847.2	101.4	74.9	46.8	32.8	29.6	35.9	14.0	9.4	7.8
70°	11694.8	5906.7	92.0	65.5	39.0	28.1	26.5	34.3	14.0	7.8	6.2
72.5°	6996.9	3294.1	70.2	46.8	25.0	21.8	21.8	39.0	14.0	7.8	6.2
75°	2827.8	1160.4	51.5	32.8	18.7	18.7	26.5	49.9	12.5	6.2	4.7
77.5°	641.0	254.2	29.6	20.3	12.5	18.7	31.2	39.0	7.8	3.1	0.0
80°	156.0	62.4	18.7	12.5	7.8	14.0	23.4	21.8	1.6	0.0	0.0
82.5°	51.5	21.8	7.8	6.2	1.6	4.7	10.9	6.2	0.0	0.0	0.0
85°	21.8	12.5	3.1	1.6	0.0	0.0	1.6	0.0	0.0	0.0	0.0
87.5°	14.0	4.7	0.0	0.0	0.0	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)