

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: P321832

Luminaire Tested: **GAN-SA8A-727-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321832
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8A-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22220 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G4

Input Watts (W): 257
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

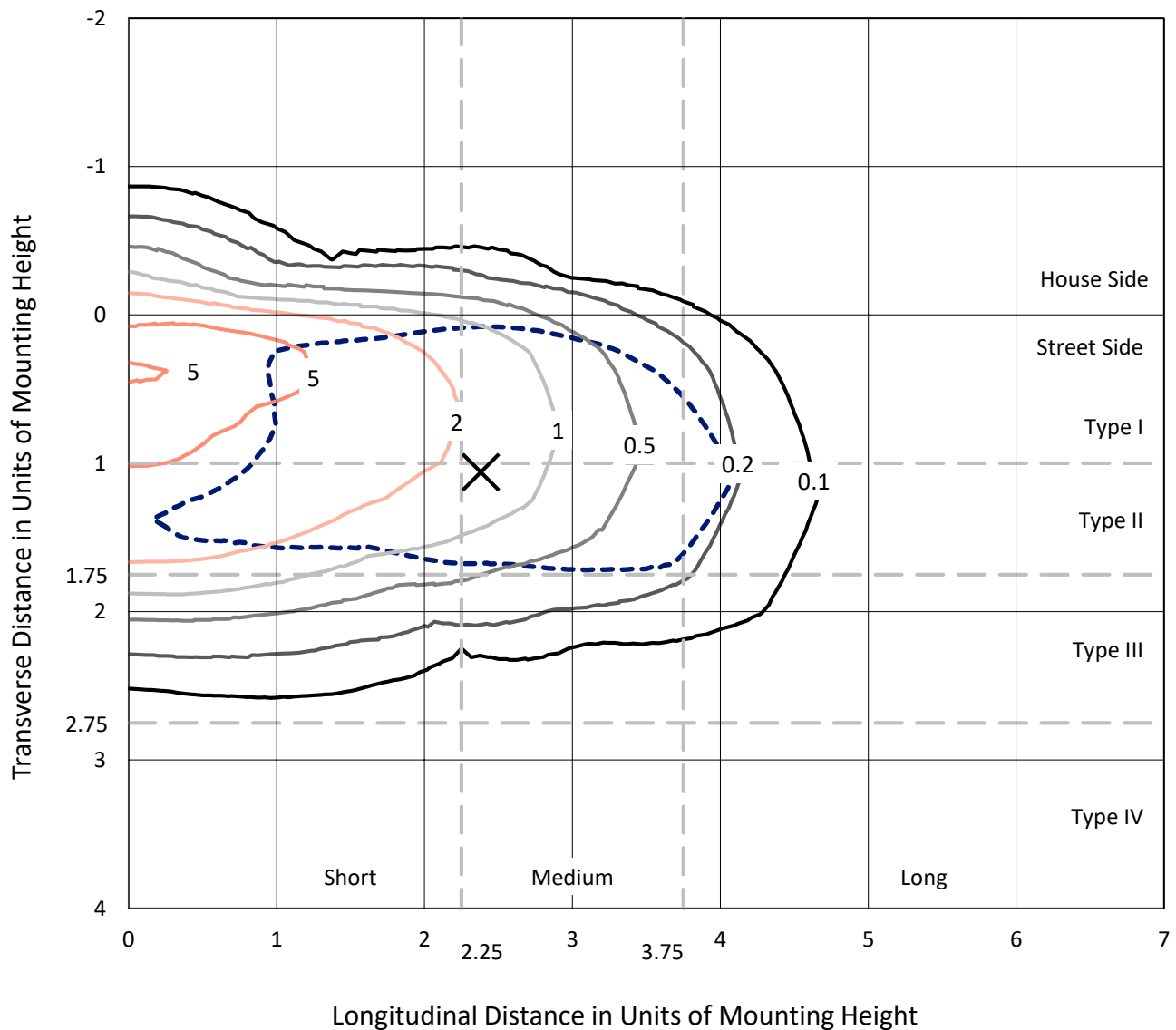


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Iso-Footcandle Lines of Horizontal Illumination

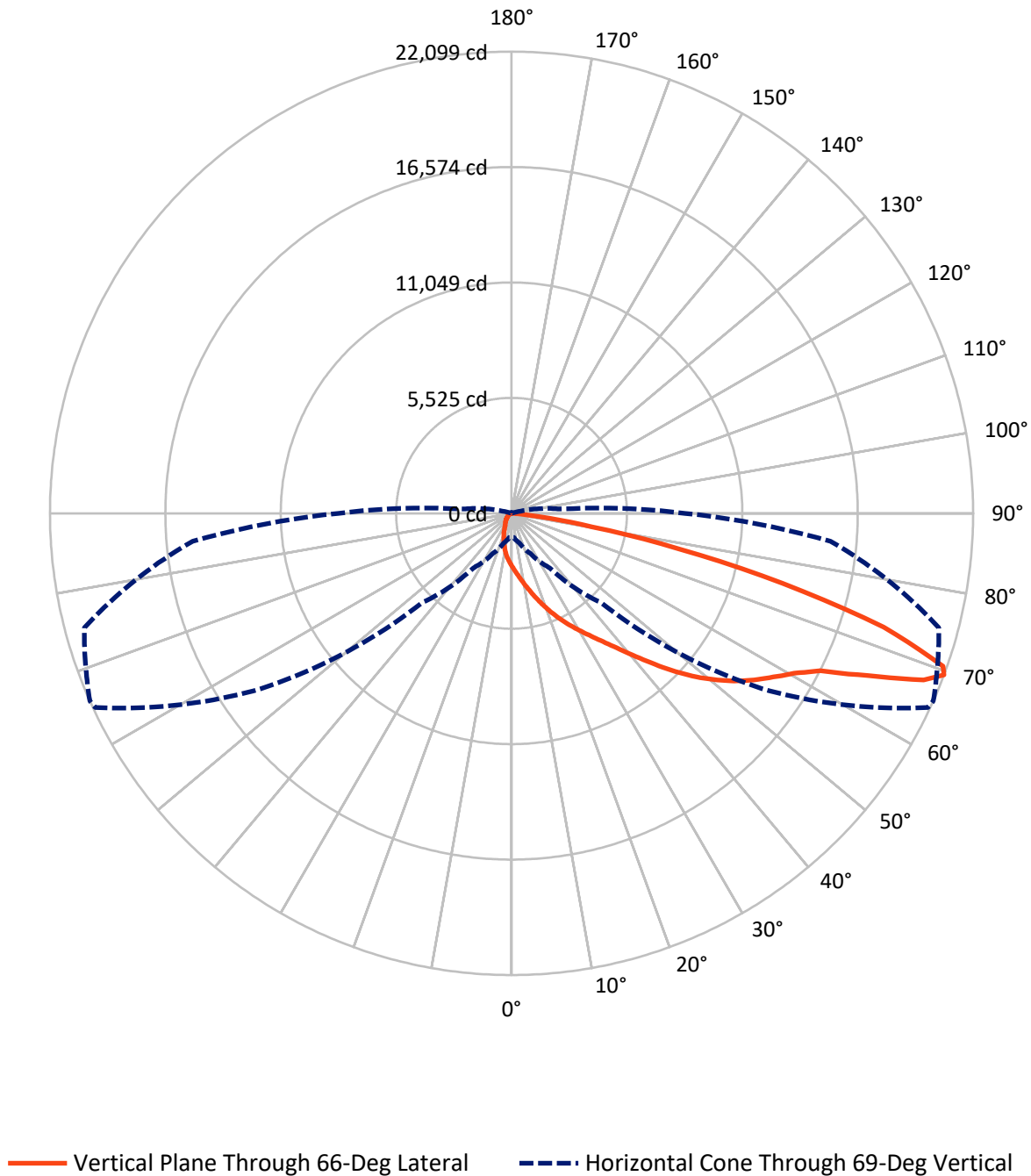
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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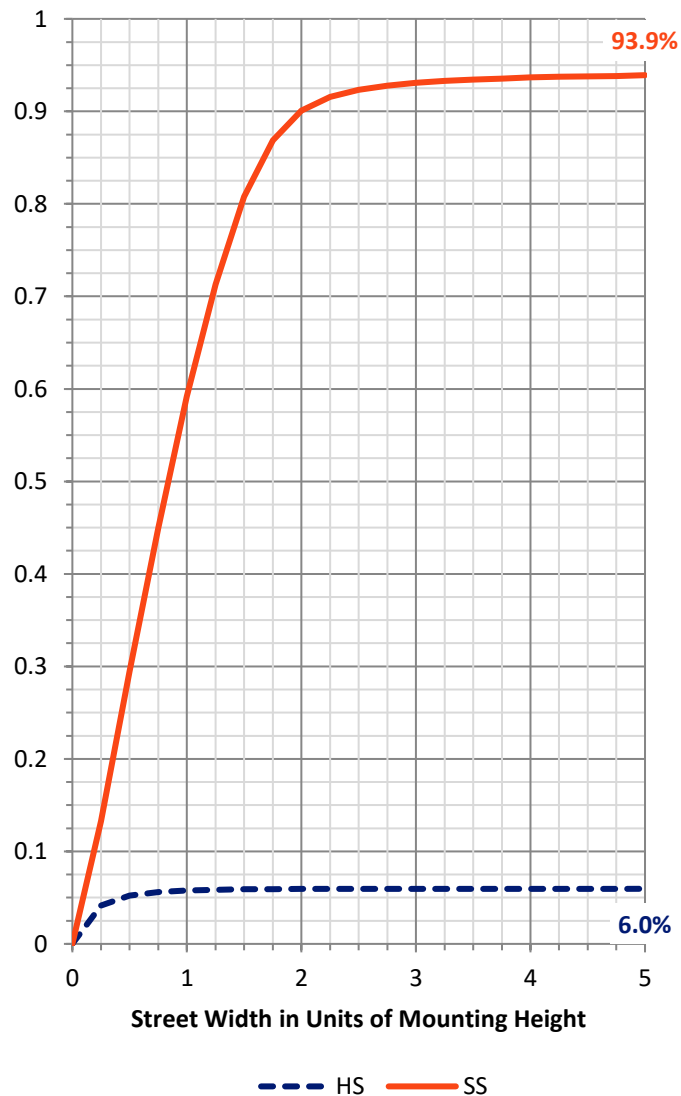
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1332.9	0.0	1332.9
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	20887.1	0.0	20887.1
	% Fixture	94.0	0.0	94.0
Total	Lumens	22220.0	0.0	22220.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.4	1.1
10°-20°	727.5	3.3
20°-30°	1266.8	5.7
30°-40°	2222.6	10.0
40°-50°	3720.3	16.7
50°-60°	5468.5	24.6
60°-70°	5614.8	25.3
70°-80°	2771.8	12.5
80°-90°	183.3	0.8
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°	22220.0	100.0
0°-180°	22220.0	100.0

Coefficient of Utilization



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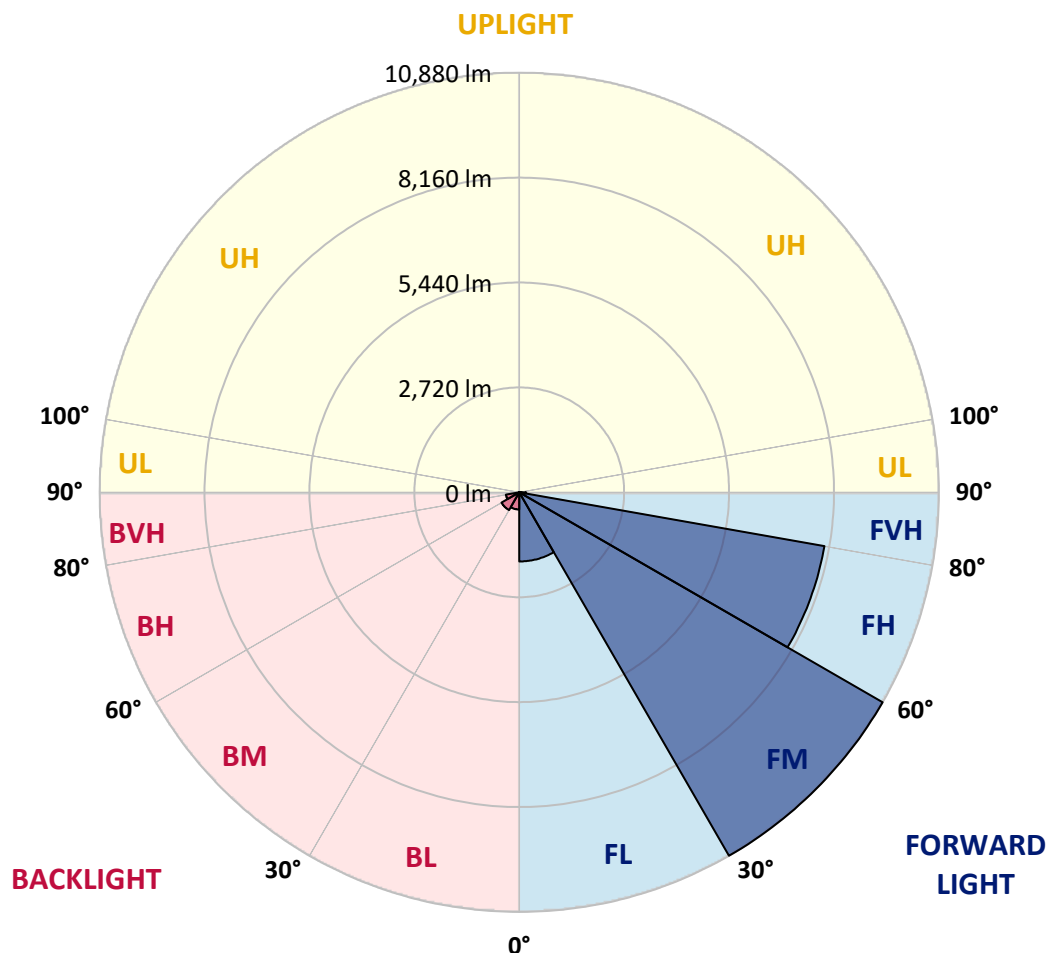
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1792.9	8.1			
FM	(30°-60°)	10880.0	49.0			
FH	(60°-80°)	8035.3	36.2			G4/12000
FVH	(80°-90°)	178.8	0.8			G2/225
BL	(0°-30°)	445.8	2.0	B1/500		
BM	(30°-60°)	531.4	2.4	B1/1000		
BH	(60°-80°)	351.3	1.6	B1/500		G1/500
BVH	(80°-90°)	4.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2528.7	2528.7	2528.7	2528.7	2528.7	2528.7	2528.7	2528.7	2528.7	2528.7	2528.7
2.5°	2976.2	2963.5	2958.2	2935.0	2894.9	2864.3	2805.2	2736.6	2724.0	2657.5	2576.2
5°	3362.5	3351.9	3344.5	3311.8	3270.6	3193.6	3086.0	2958.2	2934.0	2807.3	2644.8
7.5°	3631.6	3650.6	3650.6	3629.5	3577.8	3519.7	3387.8	3213.7	3183.0	2988.9	2736.6
10°	3788.8	3812.1	3830.0	3847.9	3840.6	3817.3	3692.8	3496.5	3459.6	3202.0	2843.2
12.5°	3803.6	3826.8	3877.5	3952.4	4025.2	4078.0	3999.9	3809.9	3767.7	3449.0	2969.9
15°	3721.3	3745.6	3823.7	3969.3	4145.6	4299.6	4325.0	4157.2	4113.9	3743.5	3128.2
17.5°	3577.8	3593.6	3705.5	3907.0	4183.6	4466.4	4619.4	4529.7	4489.6	4080.1	3304.4
20°	3471.2	3482.8	3580.9	3797.3	4160.3	4570.9	4898.1	4925.5	4883.3	4441.1	3495.4
22.5°	3653.7	3674.9	3678.0	3780.4	4097.0	4622.6	5142.9	5314.9	5283.3	4824.2	3683.3
25°	4152.9	4177.2	4097.0	4033.7	4150.8	4645.8	5352.9	5713.9	5688.5	5236.8	3872.2
27.5°	4812.6	4837.9	4734.5	4545.6	4432.6	4733.4	5539.7	6119.1	6118.1	5673.8	4075.9
30°	5460.6	5485.9	5380.4	5191.4	4931.8	4981.4	5701.2	6543.4	6549.7	6124.4	4292.3
32.5°	6140.2	6171.9	6063.2	5820.5	5549.2	5409.9	5928.1	6969.8	7005.7	6646.8	4536.1
35°	6912.8	6917.0	6764.0	6509.6	6197.2	5983.0	6292.2	7447.9	7533.4	7293.8	4845.3
37.5°	7670.6	7701.2	7575.6	7174.5	6887.5	6644.7	6833.6	8045.2	8166.6	8084.3	5249.5
40°	8232.0	8296.4	8278.5	7845.7	7573.5	7400.4	7505.9	8755.5	8909.6	9004.6	5759.2
42.5°	8584.5	8633.1	8715.4	8454.7	8207.7	8236.2	8299.6	9582.9	9772.9	10053.6	6345.0
45°	8988.7	9011.9	9080.6	8965.5	8798.8	9085.8	9141.8	10514.8	10714.3	11181.8	6995.1
47.5°	9482.7	9537.5	9556.5	9451.0	9375.0	9837.3	9953.4	11362.3	11642.0	12390.2	7683.2
50°	10111.7	10126.4	10159.2	10090.6	10014.6	10483.2	10681.6	12252.0	12506.3	13602.9	8361.8
52.5°	10727.0	10779.7	10893.7	10850.4	10819.8	11033.0	11330.6	13054.1	13338.0	14613.9	9039.4
55°	10904.3	10949.6	11343.3	11612.4	11861.5	11710.6	11951.2	13772.8	14079.9	15517.4	9691.6
57.5°	10196.1	10287.9	10969.7	11670.5	12703.7	12763.9	12804.0	14510.5	14786.0	16209.7	10370.2
60°	8406.2	8424.1	9542.8	10744.9	12564.4	13683.1	14049.3	15303.1	15534.2	16854.5	11182.9
62.5°	5346.6	5529.2	6756.6	8453.7	11091.1	13550.1	15555.3	16502.0	16586.5	17628.1	12348.0
65°	2546.6	2664.9	3549.3	5223.1	8033.6	11847.8	16594.9	18670.9	18708.8	19161.6	13904.7
67.5°	1410.0	1467.0	1888.1	2811.6	4696.5	8378.7	16174.9	21239.7	21275.5	20727.8	15270.4
69°	1102.9	1151.4	1482.8	2119.2	3184.1	6022.0	14637.2	21992.2	22098.7	21176.3	15318.9
70°	936.1	983.6	1277.0	1789.9	2560.4	4653.2	13028.8	21805.4	21918.3	21134.1	14956.9
72.5°	573.1	600.5	850.6	1260.1	1716.1	2340.8	8034.7	18440.8	18631.8	19386.4	12854.6
75°	386.3	401.0	531.9	869.6	1227.4	1205.3	4174.1	12998.1	13411.9	15080.4	9494.3
77.5°	276.5	290.2	356.7	562.5	860.1	795.8	1890.2	8077.9	8166.6	9044.7	5177.7
80°	157.3	169.9	252.2	334.6	583.6	530.9	751.4	3858.5	3902.8	3878.5	1728.7
82.5°	82.3	92.9	138.3	220.6	374.7	347.2	312.4	1291.8	1298.1	1079.7	378.9
85°	15.8	19.0	68.6	150.9	193.1	150.9	127.7	302.9	309.2	273.3	93.9
87.5°	0.0	1.1	27.4	33.8	38.0	39.0	41.2	59.1	63.3	85.5	25.3
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°	2528.7	2528.7	2528.7	2528.7	2528.7	2528.7	2528.7	2528.7	2528.7	2528.7	2528.7
2.5°	2540.3	2502.3	2429.5	2345.1	2279.6	2215.3	2164.6	2111.8	2092.8	2083.3	2082.3
5°	2565.6	2485.4	2331.3	2173.0	2043.2	1920.8	1833.2	1749.8	1710.8	1692.8	1685.5
7.5°	2607.9	2479.1	2231.1	1989.4	1802.6	1649.6	1528.2	1437.4	1392.1	1373.1	1365.7
10°	2657.5	2470.7	2113.9	1795.2	1556.7	1398.4	1278.1	1188.4	1138.8	1117.7	1107.1
12.5°	2715.5	2455.9	1978.9	1598.9	1346.7	1188.4	1042.7	931.9	874.9	850.6	839.0
15°	2787.3	2441.1	1837.4	1414.2	1162.0	968.8	809.5	734.5	722.9	718.7	719.8
17.5°	2858.0	2417.9	1683.3	1231.6	967.8	756.7	675.4	671.2	673.3	673.3	673.3
20°	2921.3	2365.1	1515.5	1075.4	783.1	638.5	621.6	614.2	609.0	604.7	599.5
22.5°	2970.9	2294.4	1354.1	920.3	639.6	584.7	558.3	535.1	516.1	503.4	497.1
25°	3004.7	2200.5	1206.3	771.5	575.2	531.9	484.4	445.4	415.8	397.9	390.5
27.5°	3030.0	2099.2	1074.4	645.9	530.9	470.7	408.4	362.0	331.4	315.6	309.2
30°	3048.0	1984.1	958.3	567.8	481.3	406.3	339.8	294.5	272.3	263.8	259.6
32.5°	3064.8	1856.4	848.5	530.9	434.8	347.2	285.0	250.1	236.4	225.9	222.7
35°	3107.1	1738.2	744.0	491.8	387.3	296.6	244.8	219.5	205.8	199.5	197.4
37.5°	3207.3	1650.6	643.8	451.7	339.8	256.5	214.2	196.3	183.6	177.3	175.2
40°	3368.8	1606.3	559.4	408.4	293.4	225.9	194.2	177.3	163.6	154.1	152.0
42.5°	3606.3	1612.6	500.3	365.2	256.5	201.6	175.2	155.1	140.4	131.9	129.8
45°	3894.4	1659.1	459.1	322.9	225.9	182.6	154.1	133.0	119.3	111.9	109.8
47.5°	4206.8	1734.0	425.3	285.0	201.6	164.6	133.0	110.8	99.2	92.9	91.8
50°	4536.1	1806.8	390.5	248.0	180.5	146.7	111.9	91.8	82.3	77.0	74.9
52.5°	4869.6	1891.3	358.8	214.2	162.5	125.6	92.9	74.9	67.5	63.3	61.2
55°	5228.4	1954.6	328.2	187.9	144.6	106.6	77.0	62.3	55.9	50.7	49.6
57.5°	5650.5	2052.7	296.6	162.5	123.5	88.7	63.3	49.6	44.3	39.0	38.0
60°	6220.5	2167.8	262.8	143.5	101.3	72.8	51.7	40.1	33.8	29.6	28.5
62.5°	6971.9	2295.5	220.6	125.6	82.3	59.1	41.2	31.7	24.3	19.0	19.0
65°	7924.9	2503.4	180.5	105.5	67.5	48.5	31.7	23.2	13.7	8.4	8.4
67.5°	8481.1	2539.3	145.6	86.5	54.9	41.2	26.4	15.8	4.2	1.1	0.0
69°	8302.7	2331.3	123.5	73.9	47.5	39.0	24.3	11.6	2.1	0.0	0.0
70°	7967.1	2131.9	108.7	65.4	43.3	36.9	23.2	8.4	2.1	0.0	0.0
72.5°	6583.5	1517.6	82.3	48.5	31.7	32.7	21.1	5.3	2.1	0.0	0.0
75°	4795.7	922.4	59.1	33.8	20.1	24.3	14.8	2.1	1.1	0.0	0.0
77.5°	2668.0	434.8	36.9	19.0	12.7	14.8	7.4	0.0	0.0	0.0	0.0
80°	866.5	118.2	16.9	10.6	7.4	8.4	3.2	0.0	0.0	0.0	0.0
82.5°	160.4	33.8	9.5	5.3	2.1	2.1	0.0	0.0	0.0	0.0	0.0
85°	34.8	13.7	5.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.6	4.2	1.1	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)