

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: P322054

Luminaire Tested: **GAN-SA0C-827-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322054
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-SA0C-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 2700K, 1050mA 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: 36612 lumens
Efficiency: N/A
Efficacy: 65.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

Input Watts (W): 558
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

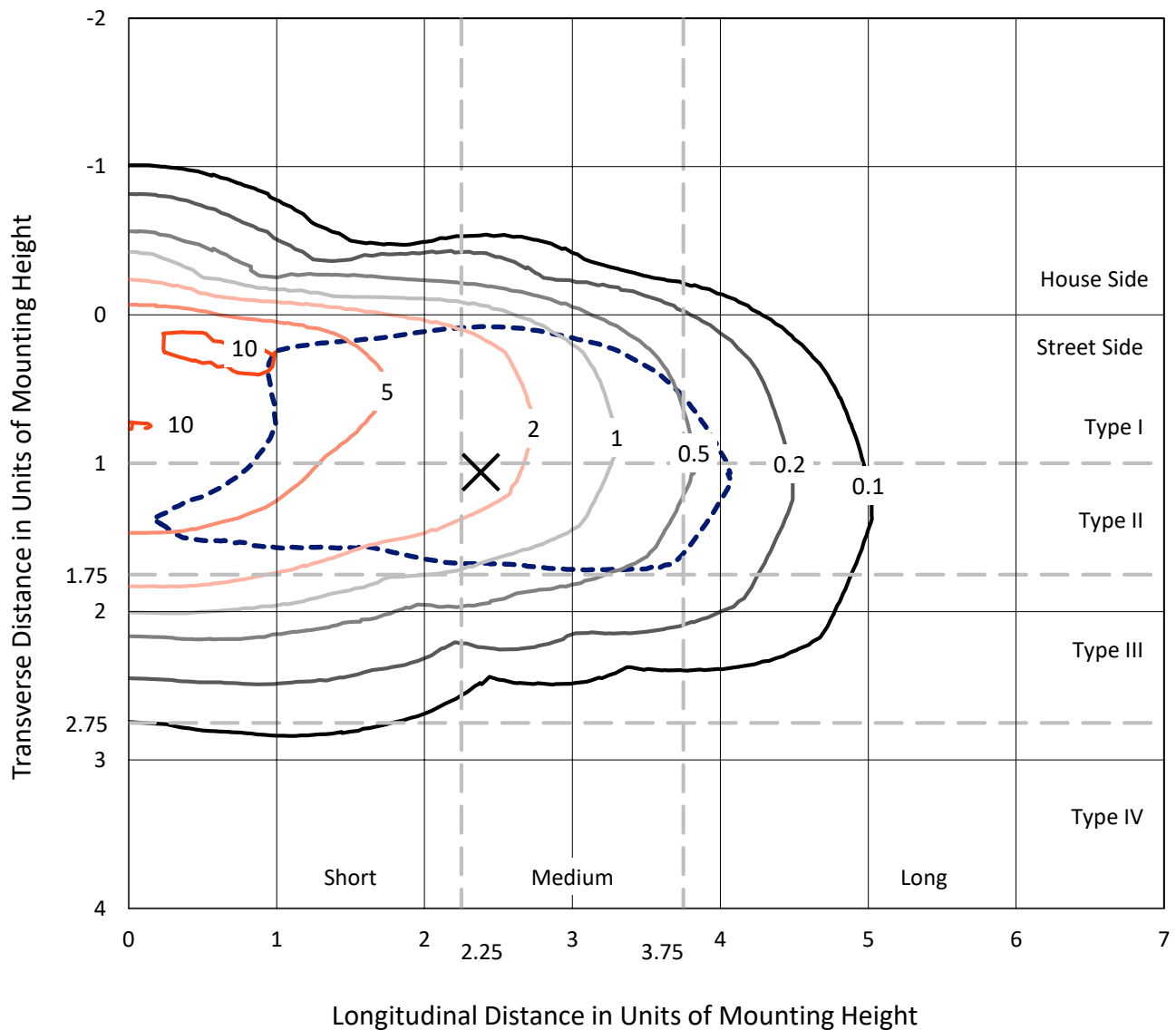


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Iso-Footcandle Lines of Horizontal Illumination

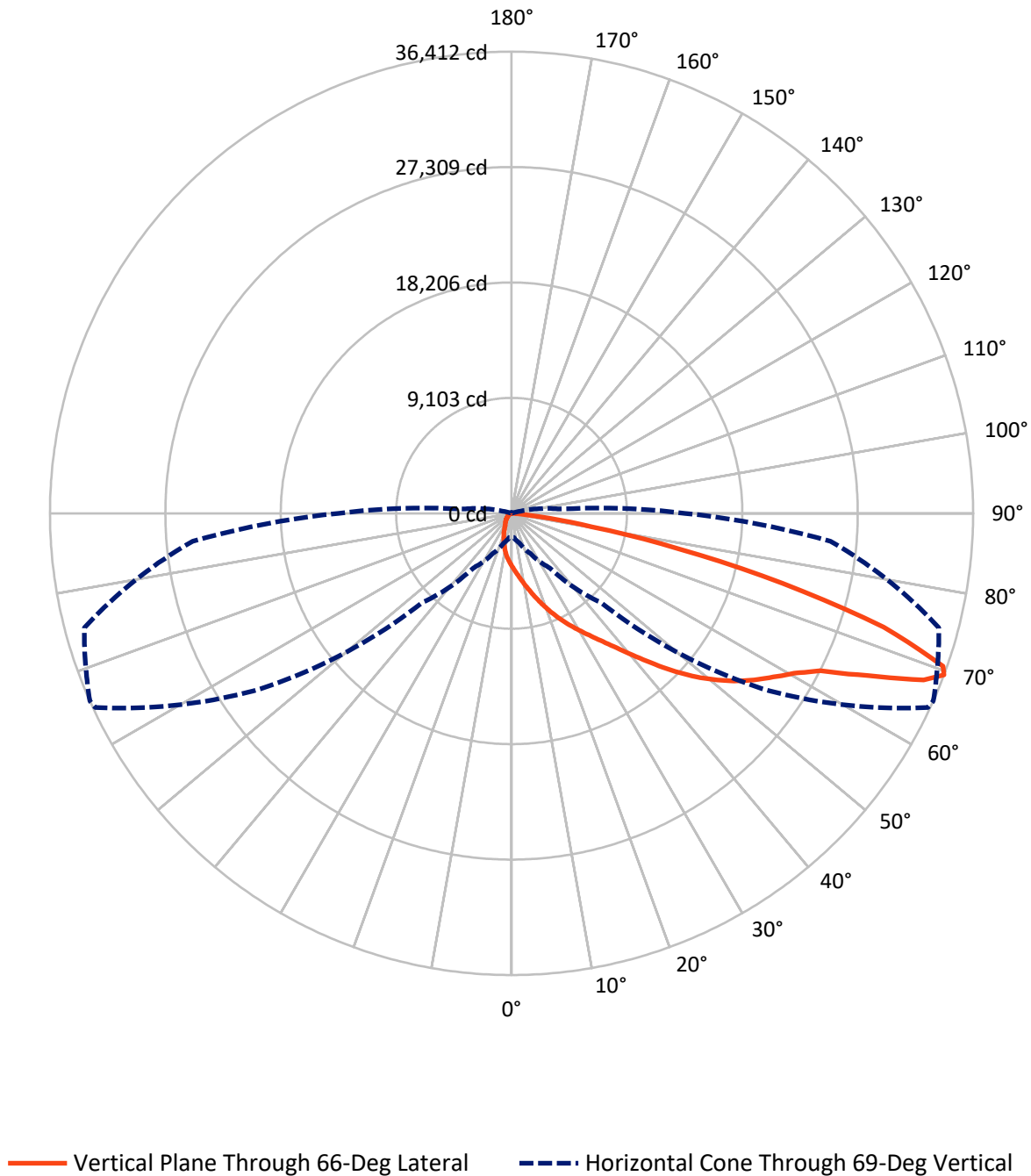
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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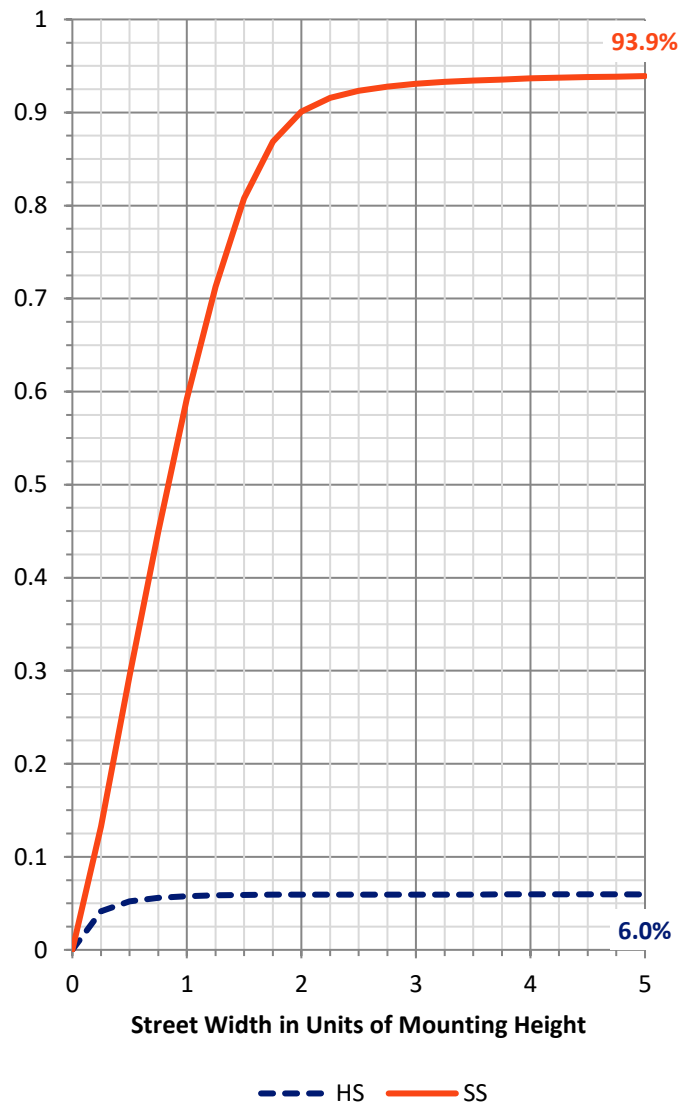
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2196.2	0.0	2196.2
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	34415.8	0.0	34415.8
	% Fixture	94.0	0.0	94.0
Total	Lumens	36612.0	0.0	36612.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	402.7	1.1
10°-20°	1198.7	3.3
20°-30°	2087.3	5.7
30°-40°	3662.2	10.0
40°-50°	6130.0	16.7
50°-60°	9010.5	24.6
60°-70°	9251.5	25.3
70°-80°	4567.2	12.5
80°-90°	302.0	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°	36612.0	100.0
0°-180°	36612.0	100.0

Coefficient of Utilization



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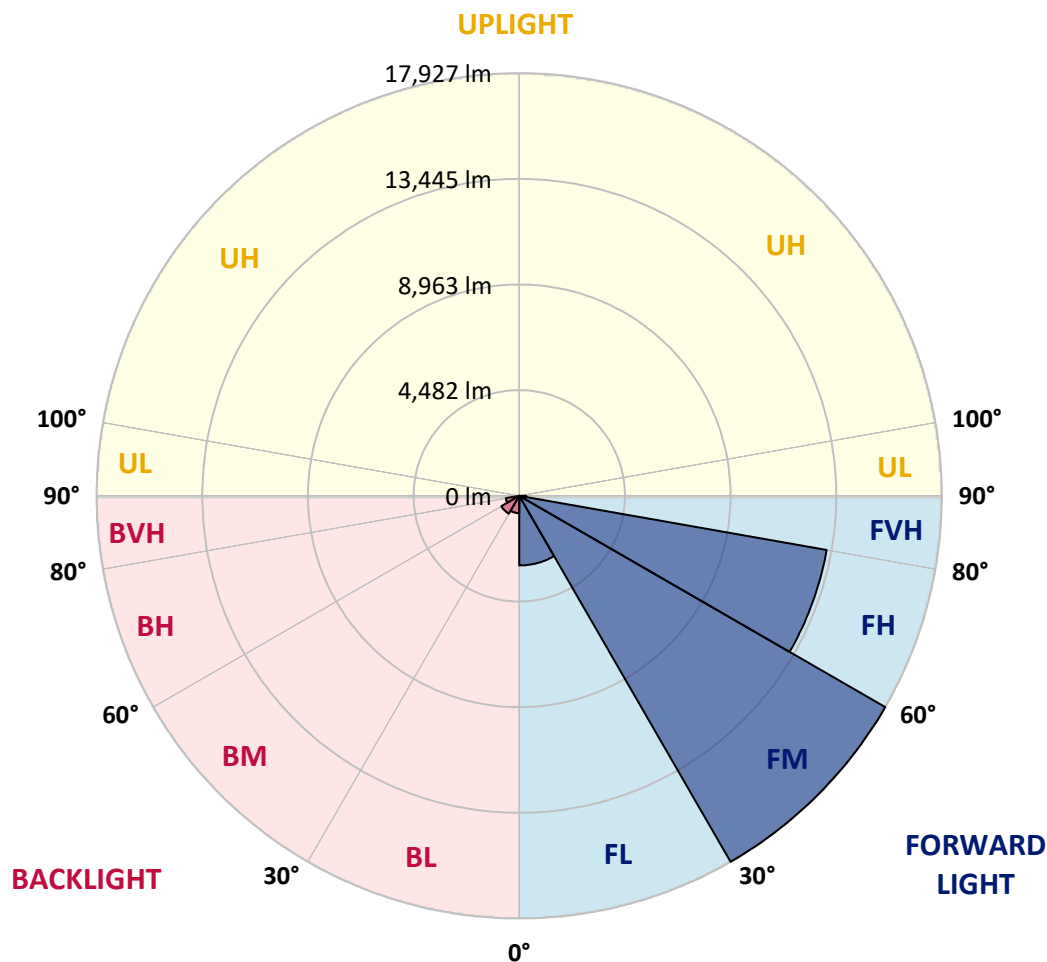
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2954.2	8.1			
FM	(30°-60°)	17927.0	49.0			
FH	(60°-80°)	13239.9	36.2			G5
FVH	(80°-90°)	294.7	0.8			G3/500
BL	(0°-30°)	734.5	2.0	B2/1000		
BM	(30°-60°)	875.6	2.4	B1/1000		
BH	(60°-80°)	578.8	1.6	B2/1000		G2/1000
BVH	(80°-90°)	7.3	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4166.6	4166.6	4166.6	4166.6	4166.6	4166.6	4166.6	4166.6	4166.6	4166.6	4166.6
2.5°	4903.9	4883.0	4874.3	4836.1	4770.0	4719.6	4622.2	4509.1	4488.3	4378.7	4244.8
5°	5540.3	5523.0	5510.8	5456.9	5389.1	5262.1	5084.7	4874.3	4834.3	4625.7	4357.8
7.5°	5983.8	6015.1	6015.1	5980.3	5895.1	5799.5	5582.1	5295.2	5244.7	4924.8	4509.1
10°	6242.9	6281.1	6310.7	6340.3	6328.1	6289.8	6084.6	5761.2	5700.3	5276.0	4684.8
12.5°	6267.2	6305.5	6389.0	6512.4	6632.4	6719.4	6590.7	6277.7	6208.1	5682.9	4893.5
15°	6131.6	6171.6	6300.3	6540.3	6830.7	7084.5	7126.3	6849.8	6778.5	6168.1	5154.3
17.5°	5895.1	5921.2	6105.5	6437.7	6893.3	7359.3	7611.5	7463.6	7397.6	6722.8	5444.7
20°	5719.5	5738.6	5900.3	6256.8	6855.0	7531.5	8070.5	8115.8	8046.2	7317.6	5759.5
22.5°	6020.3	6055.1	6060.3	6229.0	6750.7	7616.7	8474.0	8757.4	8705.3	7948.8	6069.0
25°	6842.8	6882.8	6750.7	6646.3	6839.4	7654.9	8820.0	9414.8	9373.0	8628.8	6380.3
27.5°	7929.7	7971.4	7801.0	7489.7	7303.7	7799.3	9127.8	10082.5	10080.8	9348.7	6715.9
30°	8997.4	9039.1	8865.2	8554.0	8126.2	8207.9	9393.9	10781.6	10792.0	10091.2	7072.4
32.5°	10117.3	10169.5	9990.4	9590.4	9143.5	8913.9	9767.8	11484.1	11543.3	10952.0	7474.1
35°	11390.2	11397.2	11145.0	10725.9	10211.2	9858.2	10367.7	12271.9	12412.7	12018.0	7983.6
37.5°	12638.8	12689.2	12482.3	11821.5	11348.5	10948.5	11259.8	13256.1	13456.1	13320.5	8649.6
40°	13563.9	13670.0	13640.5	12927.5	12478.8	12193.6	12367.5	14426.5	14680.4	14836.9	9489.5
42.5°	14144.8	14224.7	14360.4	13930.9	13523.9	13570.9	13675.2	15789.8	16102.8	16565.4	10454.7
45°	14810.8	14849.0	14962.1	14772.5	14497.8	14970.8	15062.9	17325.3	17654.0	18424.3	11525.9
47.5°	15624.6	15715.0	15746.3	15572.4	15447.2	16208.9	16400.2	18721.7	19182.5	20415.5	12659.7
50°	16661.0	16685.4	16739.3	16626.3	16501.1	17273.2	17600.1	20187.7	20606.8	22413.5	13777.8
52.5°	17674.9	17761.8	17949.6	17878.3	17827.9	18179.2	18669.5	21509.3	21977.1	24079.5	14894.2
55°	17967.0	18041.8	18690.4	19133.8	19544.2	19295.6	19692.1	22693.5	23199.5	25568.0	15968.9
57.5°	16800.2	16951.4	18074.8	19229.5	20931.9	21031.1	21097.1	23909.0	24362.9	26708.8	17087.1
60°	13850.9	13880.4	15723.7	17704.4	20702.4	22545.7	23149.1	25215.0	25595.8	27771.3	18426.1
62.5°	8809.6	9110.4	11132.9	13929.1	18274.8	22326.6	25630.6	27190.5	27329.6	29046.0	20345.9
65°	4196.1	4390.9	5848.1	8606.1	13237.0	19521.6	27343.5	30764.1	30826.7	31572.7	22910.9
67.5°	2323.3	2417.2	3111.0	4632.6	7738.4	13805.7	26651.4	34996.7	35055.8	34153.3	25161.1
69°	1817.2	1897.2	2443.2	3491.8	5246.5	9922.5	24117.7	36236.6	36412.2	34892.4	25241.1
70°	1542.5	1620.7	2104.1	2949.3	4218.7	7667.1	21467.5	35928.8	36114.9	34822.8	24644.6
72.5°	944.3	989.5	1401.6	2076.3	2827.6	3857.0	13238.8	30385.0	30699.7	31943.1	21180.6
75°	636.5	660.8	876.4	1432.9	2022.4	1985.9	6877.6	21417.1	22098.8	24848.1	15643.7
77.5°	455.6	478.2	587.8	926.9	1417.3	1311.2	3114.5	13310.0	13456.1	14902.9	8531.4
80°	259.1	280.0	415.6	551.3	961.6	874.7	1238.1	6357.7	6430.7	6390.7	2848.4
82.5°	135.6	153.0	227.8	363.4	617.3	572.1	514.7	2128.5	2138.9	1779.0	624.3
85°	26.1	31.3	113.0	248.7	318.2	248.7	210.4	499.1	509.5	450.4	154.8
87.5°	0.0	1.7	45.2	55.6	62.6	64.3	67.8	97.4	104.3	140.9	41.7
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°	4166.6	4166.6	4166.6	4166.6	4166.6	4166.6	4166.6	4166.6	4166.6	4166.6	4166.6
2.5°	4185.7	4123.1	4003.1	3864.0	3756.2	3650.1	3566.6	3479.7	3448.4	3432.7	3431.0
5°	4227.4	4095.3	3841.4	3580.5	3366.6	3164.9	3020.6	2883.2	2818.9	2789.3	2777.1
7.5°	4297.0	4084.8	3676.2	3278.0	2970.2	2718.0	2518.0	2368.5	2293.7	2262.4	2250.2
10°	4378.7	4070.9	3483.1	2958.0	2565.0	2304.1	2105.9	1958.1	1876.3	1841.6	1824.2
12.5°	4474.4	4046.6	3260.6	2634.5	2218.9	1958.1	1718.1	1535.5	1441.6	1401.6	1382.5
15°	4592.6	4022.2	3027.5	2330.2	1914.6	1596.4	1333.8	1210.3	1191.2	1184.2	1186.0
17.5°	4709.1	3984.0	2773.7	2029.4	1594.6	1246.8	1112.9	1106.0	1109.5	1109.5	1109.5
20°	4813.5	3897.0	2497.2	1772.0	1290.3	1052.1	1024.3	1012.1	1003.4	996.4	987.7
22.5°	4895.2	3780.5	2231.1	1516.4	1053.8	963.4	919.9	881.7	850.4	829.5	819.1
25°	4950.8	3625.7	1987.6	1271.2	947.7	876.4	798.2	733.8	685.2	655.6	643.4
27.5°	4992.6	3458.8	1770.3	1064.2	874.7	775.6	673.0	596.5	546.0	520.0	509.5
30°	5022.1	3269.3	1579.0	935.6	793.0	669.5	559.9	485.2	448.7	434.7	427.8
32.5°	5050.0	3058.8	1398.1	874.7	716.5	572.1	469.5	412.1	389.5	372.1	366.9
35°	5119.5	2864.1	1226.0	810.4	638.2	488.6	403.4	361.7	339.1	328.7	325.2
37.5°	5284.7	2719.7	1060.8	744.3	559.9	422.6	353.0	323.4	302.6	292.1	288.7
40°	5550.8	2646.7	921.7	673.0	483.4	372.1	320.0	292.1	269.5	253.9	250.4
42.5°	5942.0	2657.1	824.3	601.7	422.6	332.1	288.7	255.6	231.3	217.4	213.9
45°	6416.8	2733.7	756.5	532.1	372.1	300.8	253.9	219.1	196.5	184.3	180.9
47.5°	6931.5	2857.1	700.8	469.5	332.1	271.3	219.1	182.6	163.5	153.0	151.3
50°	7474.1	2977.1	643.4	408.7	297.4	241.7	184.3	151.3	135.6	126.9	123.5
52.5°	8023.6	3116.2	591.2	353.0	267.8	206.9	153.0	123.5	111.3	104.3	100.9
55°	8614.8	3220.6	540.8	309.5	238.2	175.6	126.9	102.6	92.2	83.5	81.7
57.5°	9310.4	3382.3	488.6	267.8	203.5	146.1	104.3	81.7	73.0	64.3	62.6
60°	10249.5	3571.8	433.0	236.5	166.9	120.0	85.2	66.1	55.6	48.7	47.0
62.5°	11487.6	3782.3	363.4	206.9	135.6	97.4	67.8	52.2	40.0	31.3	31.3
65°	13057.9	4124.8	297.4	173.9	111.3	80.0	52.2	38.3	22.6	13.9	13.9
67.5°	13974.3	4184.0	240.0	142.6	90.4	67.8	43.5	26.1	7.0	1.7	0.0
69°	13680.4	3841.4	203.5	121.7	78.3	64.3	40.0	19.1	3.5	0.0	0.0
70°	13127.5	3512.7	179.1	107.8	71.3	60.9	38.3	13.9	3.5	0.0	0.0
72.5°	10847.7	2500.6	135.6	80.0	52.2	53.9	34.8	8.7	3.5	0.0	0.0
75°	7901.9	1519.9	97.4	55.6	33.0	40.0	24.3	3.5	1.7	0.0	0.0
77.5°	4396.1	716.5	60.9	31.3	20.9	24.3	12.2	0.0	0.0	0.0	0.0
80°	1427.7	194.8	27.8	17.4	12.2	13.9	5.2	0.0	0.0	0.0	0.0
82.5°	264.3	55.6	15.7	8.7	3.5	3.5	0.0	0.0	0.0	0.0	0.0
85°	57.4	22.6	8.7	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.1	7.0	1.7	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)