

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: P321989

Luminaire Tested: **GAN-SA5A-760-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321989
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-SA5A-760-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 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: 16569 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

Input Watts (W): 162
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

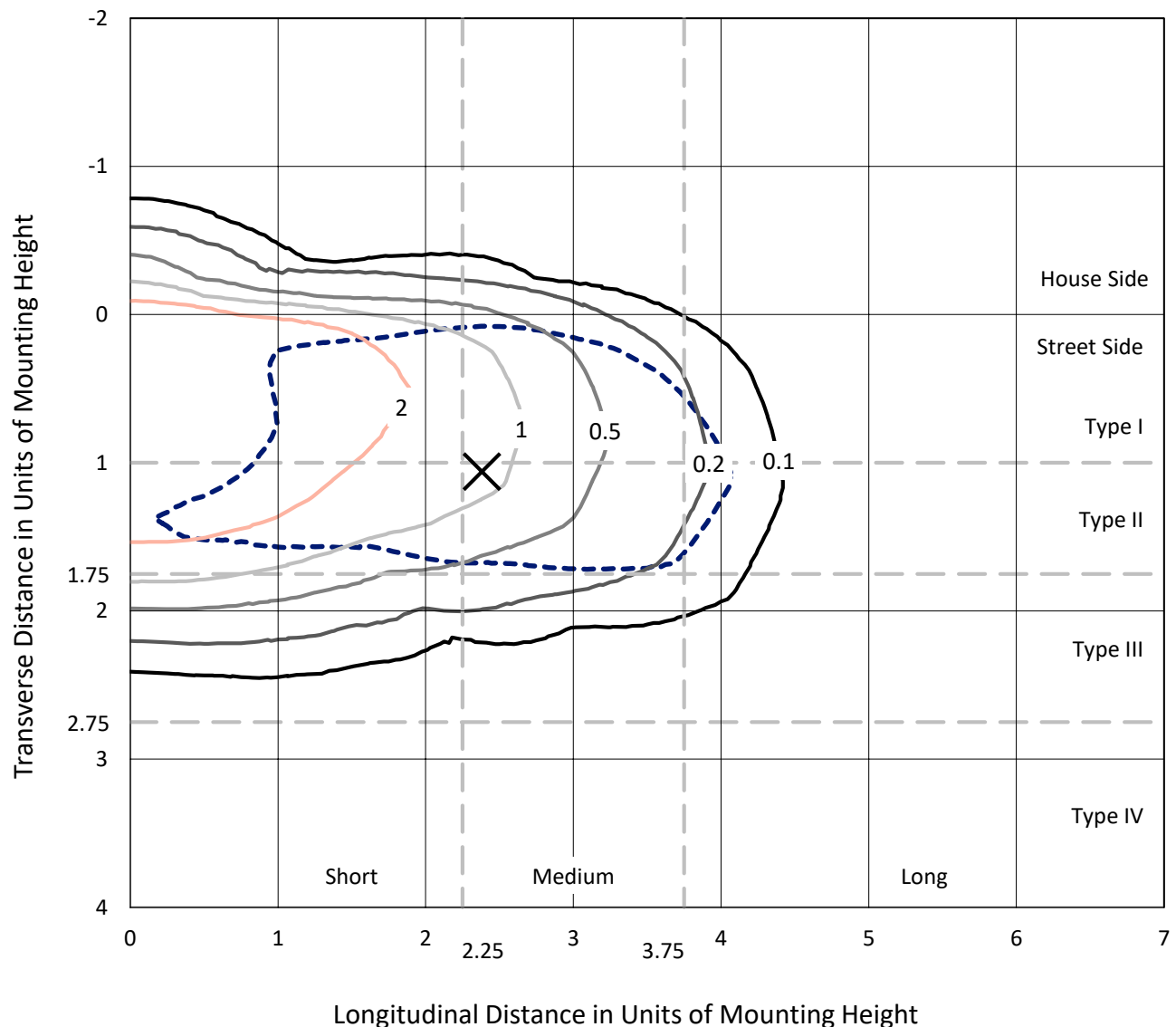


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Iso-Footcandle Lines of Horizontal Illumination

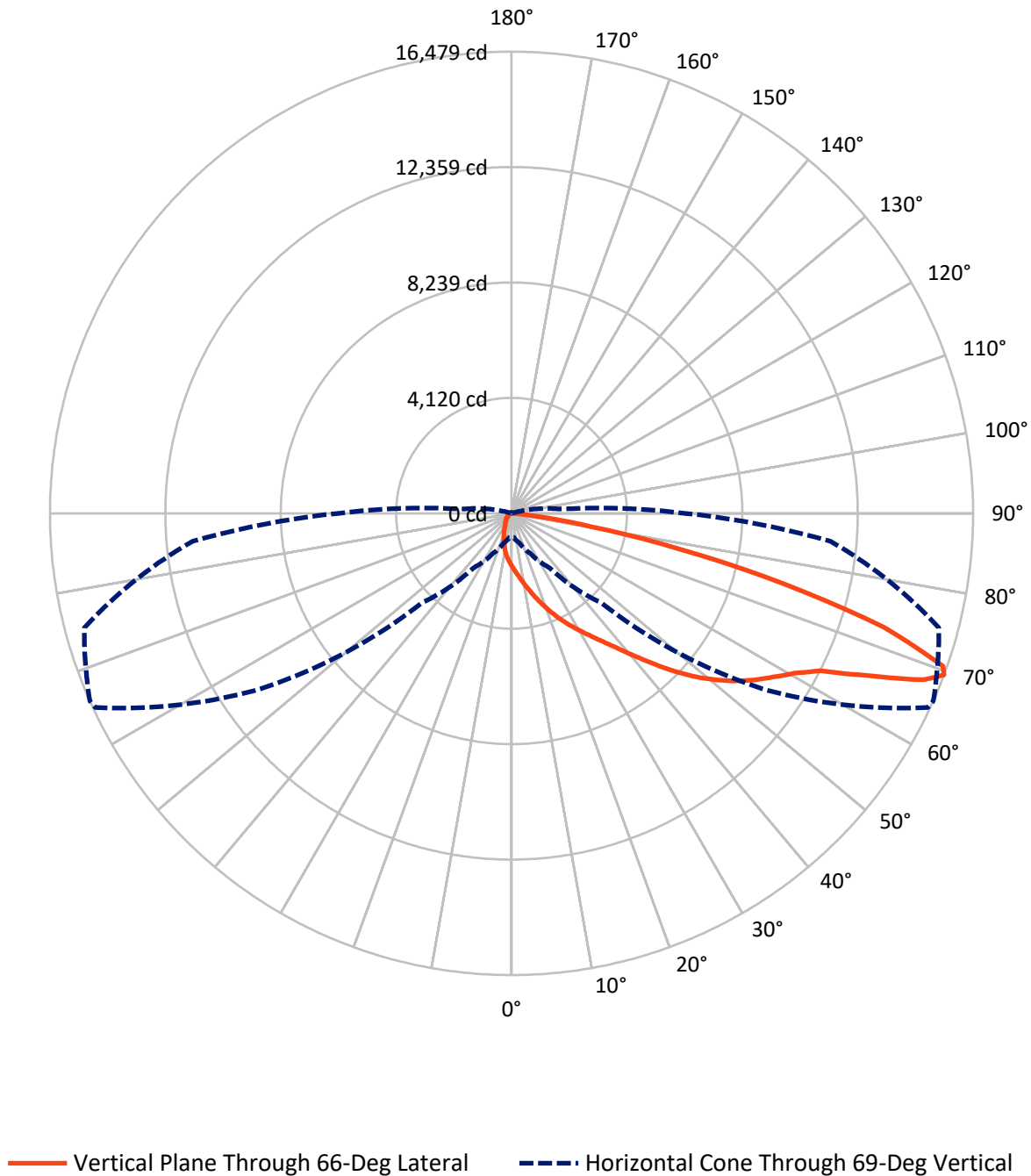
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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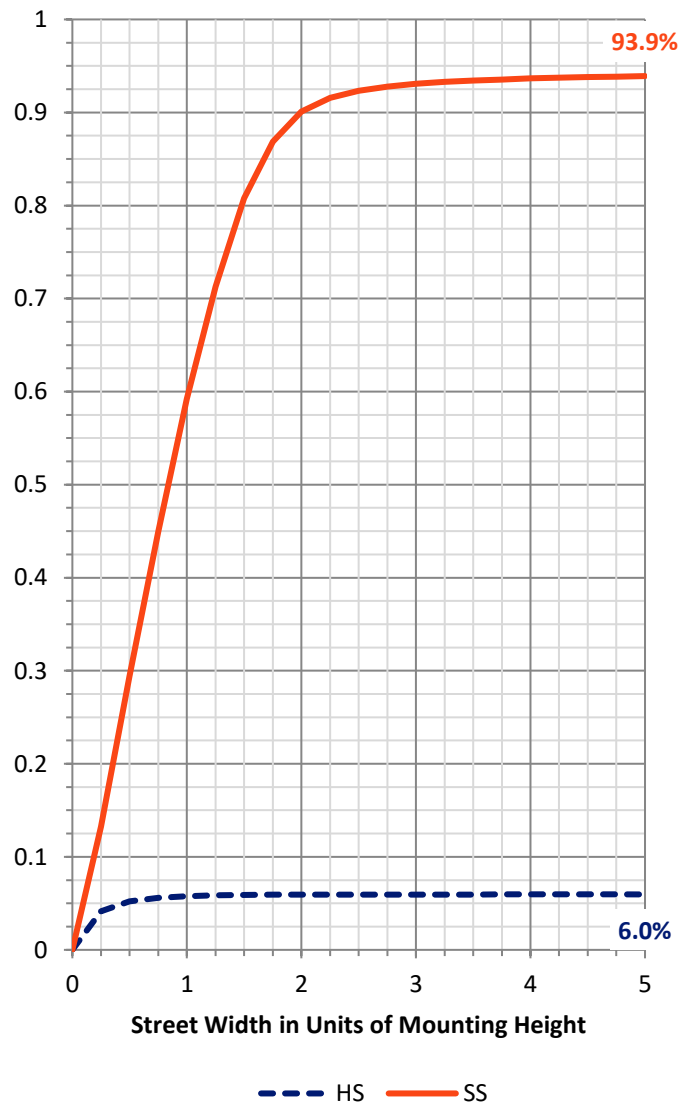
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	993.9	0.0	993.9
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	15575.1	0.0	15575.1
	% Fixture	94.0	0.0	94.0
Total	Lumens	16569.0	0.0	16569.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.3	1.1
10°-20°	542.5	3.3
20°-30°	944.6	5.7
30°-40°	1657.4	10.0
40°-50°	2774.2	16.7
50°-60°	4077.7	24.6
60°-70°	4186.8	25.3
70°-80°	2066.9	12.5
80°-90°	136.7	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°	16569.0	100.0
0°-180°	16569.0	100.0

Coefficient of Utilization



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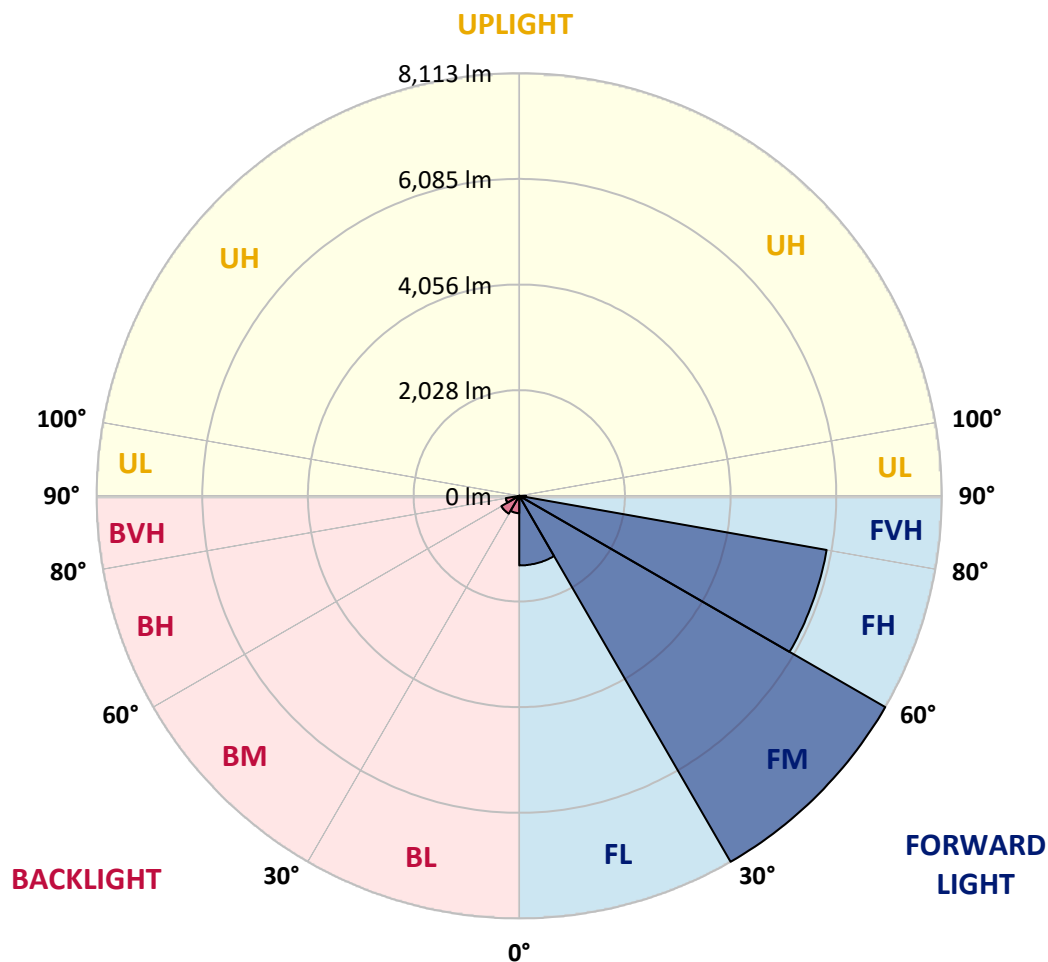
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1337.0	8.1			
FM	(30°-60°)	8113.0	49.0			
FH	(60°-80°)	5991.8	36.2			G3/7500
FVH	(80°-90°)	133.4	0.8			G2/225
BL	(0°-30°)	332.4	2.0	B1/500		
BM	(30°-60°)	396.3	2.4	B1/1000		
BH	(60°-80°)	261.9	1.6	B1/500		G1/500
BVH	(80°-90°)	3.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1885.6	1885.6	1885.6	1885.6	1885.6	1885.6	1885.6	1885.6	1885.6	1885.6	1885.6
2.5°	2219.3	2209.8	2205.9	2188.6	2158.7	2135.9	2091.8	2040.6	2031.2	1981.6	1921.0
5°	2507.3	2499.5	2493.9	2469.5	2438.9	2381.4	2301.1	2205.9	2187.8	2093.4	1972.2
7.5°	2708.0	2722.2	2722.2	2706.4	2667.9	2624.6	2526.2	2396.4	2373.5	2228.7	2040.6
10°	2825.3	2842.6	2856.0	2869.3	2863.8	2846.5	2753.6	2607.3	2579.7	2387.7	2120.1
12.5°	2836.3	2853.6	2891.4	2947.2	3001.5	3040.9	2982.7	2841.0	2809.5	2571.9	2214.6
15°	2774.9	2793.0	2851.2	2959.8	3091.3	3206.2	3225.0	3099.9	3067.7	2791.4	2332.6
17.5°	2667.9	2679.7	2763.1	2913.4	3119.6	3330.5	3444.6	3377.7	3347.8	3042.5	2464.0
20°	2588.4	2597.0	2670.2	2831.6	3102.3	3408.4	3652.4	3672.8	3641.4	3311.6	2606.5
22.5°	2724.5	2740.3	2742.6	2819.0	3055.1	3447.0	3835.0	3963.2	3939.6	3597.3	2746.6
25°	3096.8	3114.9	3055.1	3007.8	3095.2	3464.3	3991.6	4260.7	4241.8	3905.0	2887.4
27.5°	3588.6	3607.5	3530.4	3389.5	3305.3	3529.6	4130.9	4562.9	4562.1	4230.8	3039.3
30°	4071.8	4090.7	4012.0	3871.2	3677.6	3714.5	4251.3	4879.3	4884.0	4566.8	3200.6
32.5°	4578.7	4602.3	4521.2	4340.2	4137.9	4034.1	4420.5	5197.2	5224.0	4956.4	3382.4
35°	5154.7	5157.9	5043.8	4854.1	4621.1	4461.4	4692.0	5553.7	5617.5	5438.8	3613.0
37.5°	5719.8	5742.6	5648.9	5349.9	5135.8	4954.8	5095.7	5999.2	6089.7	6028.3	3914.4
40°	6138.4	6186.5	6173.1	5850.4	5647.4	5518.3	5597.0	6528.8	6643.7	6714.5	4294.6
42.5°	6401.3	6437.5	6498.9	6304.5	6120.3	6141.6	6188.8	7145.8	7287.4	7496.8	4731.3
45°	6702.7	6720.0	6771.2	6685.4	6561.1	6775.1	6816.8	7840.7	7989.4	8338.1	5216.1
47.5°	7071.0	7111.9	7126.1	7047.4	6990.7	7335.4	7422.0	8472.6	8681.2	9239.2	5729.2
50°	7540.1	7551.1	7575.5	7524.3	7467.7	7817.1	7965.0	9136.1	9325.7	10143.4	6235.2
52.5°	7998.9	8038.2	8123.2	8090.9	8068.1	8227.1	8449.0	9734.2	9945.9	10897.3	6740.5
55°	8131.1	8164.9	8458.5	8659.1	8844.9	8732.3	8911.8	10270.1	10499.1	11571.0	7226.8
57.5°	7603.0	7671.5	8179.9	8702.4	9472.9	9517.7	9547.6	10820.2	11025.6	12087.2	7732.9
60°	6268.3	6281.7	7115.9	8012.2	9369.0	10203.2	10476.3	11411.2	11583.6	12568.1	8338.8
62.5°	3986.8	4123.0	5038.2	6303.7	8270.4	10104.0	11599.3	12305.2	12368.2	13144.9	9207.7
65°	1899.0	1987.1	2646.6	3894.8	5990.5	8834.6	12374.5	13922.5	13950.8	14288.4	10368.5
67.5°	1051.4	1093.9	1407.9	2096.5	3502.1	6247.8	12061.3	15838.0	15864.7	15456.3	11386.8
69°	822.4	858.6	1105.7	1580.3	2374.3	4490.5	10914.6	16399.1	16478.6	15790.8	11423.0
70°	698.1	733.5	952.2	1334.7	1909.2	3469.8	9715.3	16259.8	16344.0	15759.3	11153.1
72.5°	427.3	447.8	634.3	939.7	1279.6	1745.5	5991.3	13750.9	13893.4	14456.0	9585.4
75°	288.0	299.1	396.6	648.5	915.3	898.7	3112.5	9692.5	10000.9	11245.2	7079.7
77.5°	206.2	216.4	266.0	419.5	641.4	593.4	1409.5	6023.5	6089.7	6744.4	3860.9
80°	117.3	126.7	188.1	249.5	435.2	395.9	560.3	2877.2	2910.3	2892.2	1289.1
82.5°	61.4	69.3	103.1	164.5	279.4	258.9	232.9	963.3	968.0	805.1	282.5
85°	11.8	14.2	51.2	112.5	144.0	112.5	95.2	225.9	230.6	203.8	70.0
87.5°	0.0	0.8	20.5	25.2	28.3	29.1	30.7	44.1	47.2	63.7	18.9
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°	1885.6	1885.6	1885.6	1885.6	1885.6	1885.6	1885.6	1885.6	1885.6	1885.6	1885.6
2.5°	1894.3	1865.9	1811.6	1748.7	1699.9	1651.9	1614.1	1574.7	1560.6	1553.5	1552.7
5°	1913.1	1853.3	1738.4	1620.4	1523.6	1432.3	1367.0	1304.8	1275.7	1262.3	1256.8
7.5°	1944.6	1848.6	1663.7	1483.5	1344.2	1230.1	1139.5	1071.9	1038.0	1023.9	1018.4
10°	1981.6	1842.3	1576.3	1338.7	1160.8	1042.7	953.0	886.1	849.2	833.4	825.5
12.5°	2024.9	1831.3	1475.6	1192.3	1004.2	886.1	777.5	694.9	652.4	634.3	625.6
15°	2078.4	1820.3	1370.1	1054.6	866.5	722.4	603.6	547.7	539.1	535.9	536.7
17.5°	2131.1	1803.0	1255.2	918.4	721.7	564.3	503.7	500.5	502.1	502.1	502.1
20°	2178.4	1763.6	1130.1	801.9	583.9	476.1	463.5	458.0	454.1	450.9	447.0
22.5°	2215.4	1710.9	1009.7	686.2	476.9	436.0	416.3	399.0	384.8	375.4	370.7
25°	2240.5	1640.9	899.5	575.3	428.9	396.6	361.2	332.1	310.1	296.7	291.2
27.5°	2259.4	1565.3	801.1	481.6	395.9	351.0	304.6	269.9	247.1	235.3	230.6
30°	2272.8	1479.5	714.6	423.4	358.9	303.0	253.4	219.6	203.0	196.7	193.6
32.5°	2285.4	1384.3	632.7	395.9	324.2	258.9	212.5	186.5	176.3	168.4	166.1
35°	2316.9	1296.2	554.8	366.7	288.8	221.1	182.6	163.7	153.5	148.7	147.2
37.5°	2391.6	1230.8	480.1	336.8	253.4	191.2	159.8	146.4	136.9	132.2	130.6
40°	2512.0	1197.8	417.1	304.6	218.8	168.4	144.8	132.2	122.0	114.9	113.3
42.5°	2689.1	1202.5	373.0	272.3	191.2	150.3	130.6	115.7	104.7	98.4	96.8
45°	2904.0	1237.1	342.3	240.8	168.4	136.1	114.9	99.2	88.9	83.4	81.8
47.5°	3136.9	1293.0	317.2	212.5	150.3	122.8	99.2	82.6	74.0	69.3	68.5
50°	3382.4	1347.3	291.2	184.9	134.6	109.4	83.4	68.5	61.4	57.4	55.9
52.5°	3631.1	1410.3	267.6	159.8	121.2	93.7	69.3	55.9	50.4	47.2	45.6
55°	3898.7	1457.5	244.8	140.1	107.8	79.5	57.4	46.4	41.7	37.8	37.0
57.5°	4213.5	1530.7	221.1	121.2	92.1	66.1	47.2	37.0	33.1	29.1	28.3
60°	4638.5	1616.5	196.0	107.0	75.6	54.3	38.6	29.9	25.2	22.0	21.2
62.5°	5198.8	1711.7	164.5	93.7	61.4	44.1	30.7	23.6	18.1	14.2	14.2
65°	5909.4	1866.7	134.6	78.7	50.4	36.2	23.6	17.3	10.2	6.3	6.3
67.5°	6324.2	1893.5	108.6	64.5	40.9	30.7	19.7	11.8	3.1	0.8	0.0
69°	6191.2	1738.4	92.1	55.1	35.4	29.1	18.1	8.7	1.6	0.0	0.0
70°	5940.9	1589.7	81.1	48.8	32.3	27.5	17.3	6.3	1.6	0.0	0.0
72.5°	4909.2	1131.7	61.4	36.2	23.6	24.4	15.7	3.9	1.6	0.0	0.0
75°	3576.0	687.8	44.1	25.2	15.0	18.1	11.0	1.6	0.8	0.0	0.0
77.5°	1989.5	324.2	27.5	14.2	9.4	11.0	5.5	0.0	0.0	0.0	0.0
80°	646.1	88.1	12.6	7.9	5.5	6.3	2.4	0.0	0.0	0.0	0.0
82.5°	119.6	25.2	7.1	3.9	1.6	1.6	0.0	0.0	0.0	0.0	0.0
85°	26.0	10.2	3.9	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.7	3.1	0.8	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)