

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: P322159

Luminaire Tested: **GAN-SA5B-727-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322159
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5B-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17406 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 210
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



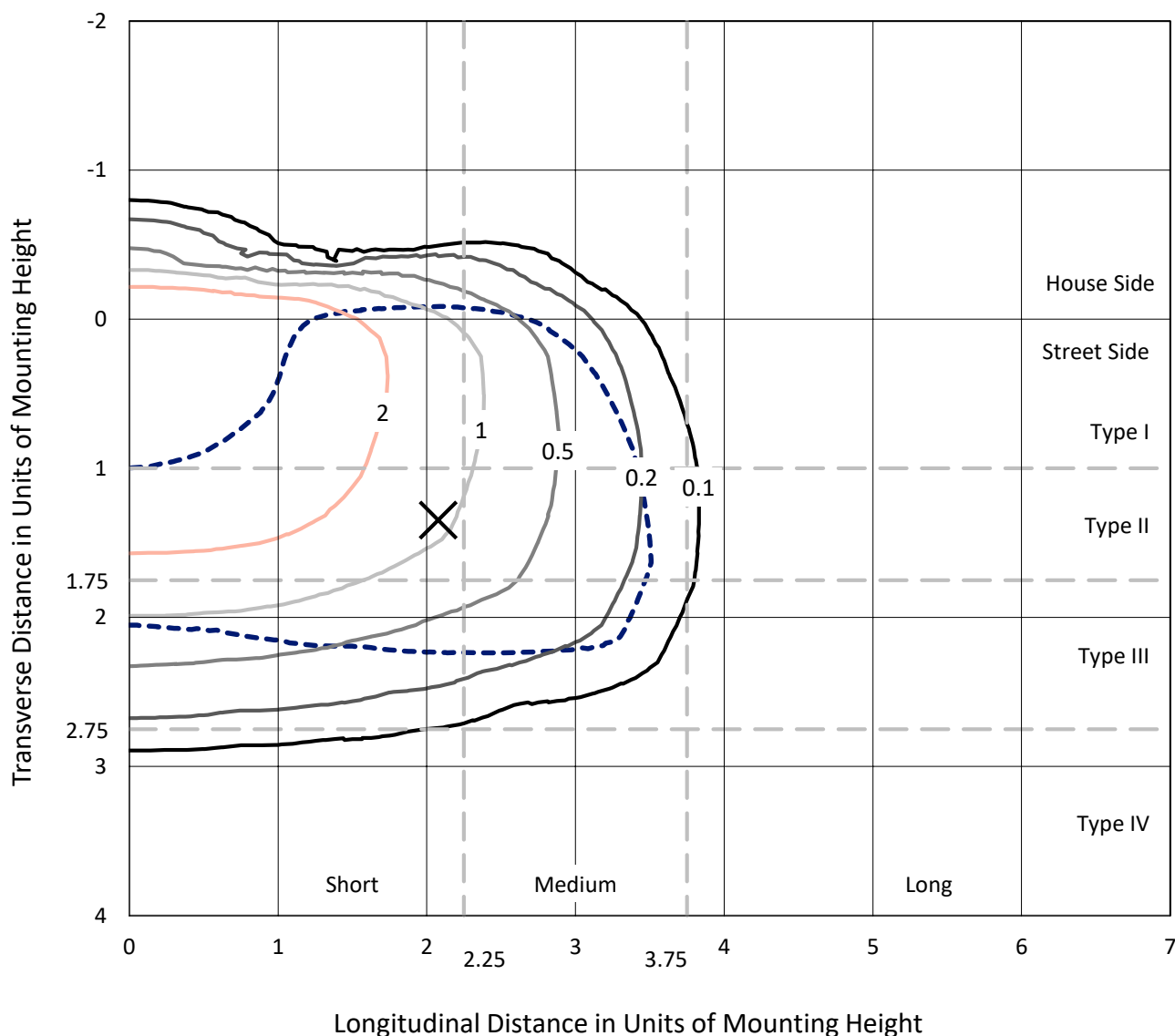
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

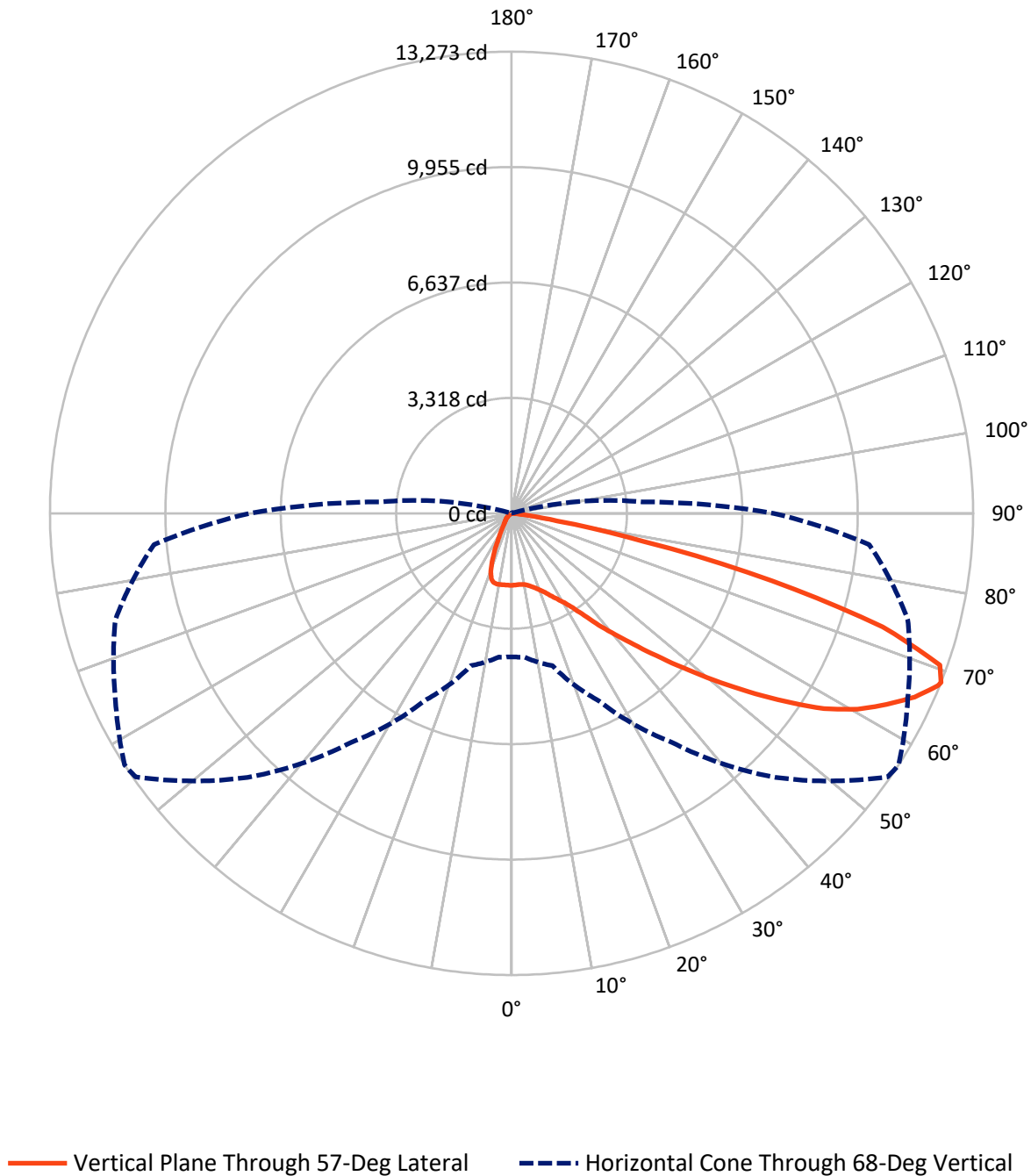


Based on 25 foot mounting height. Maximum calculated value = 4.3 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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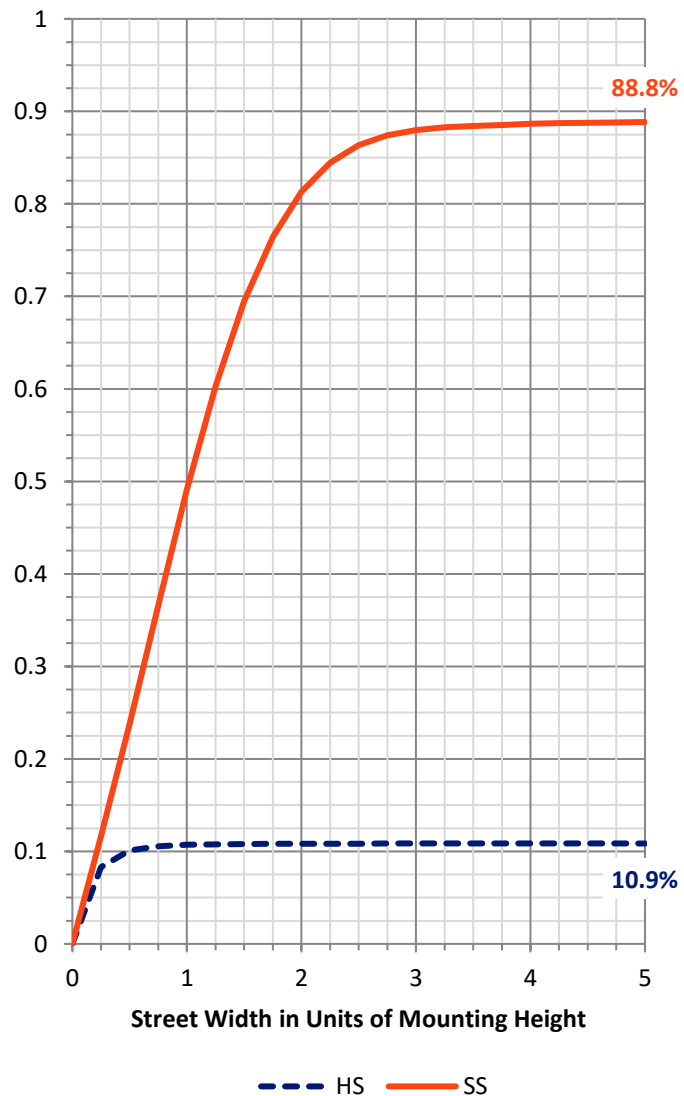
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1908.7	0.0	1908.7
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	15497.3	0.0	15497.3
	% Fixture	89.0	0.0	89.0
Total	Lumens	17406.0	0.0	17406.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.6	1.1
10°-20°	536.4	3.1
20°-30°	925.3	5.3
30°-40°	1597.0	9.2
40°-50°	2731.7	15.7
50°-60°	4370.5	25.1
60°-70°	5049.6	29.0
70°-80°	1929.5	11.1
80°-90°	72.3	0.4
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°	17406.0	100.0
0°-180°	17406.0	100.0

Coefficient of Utilization



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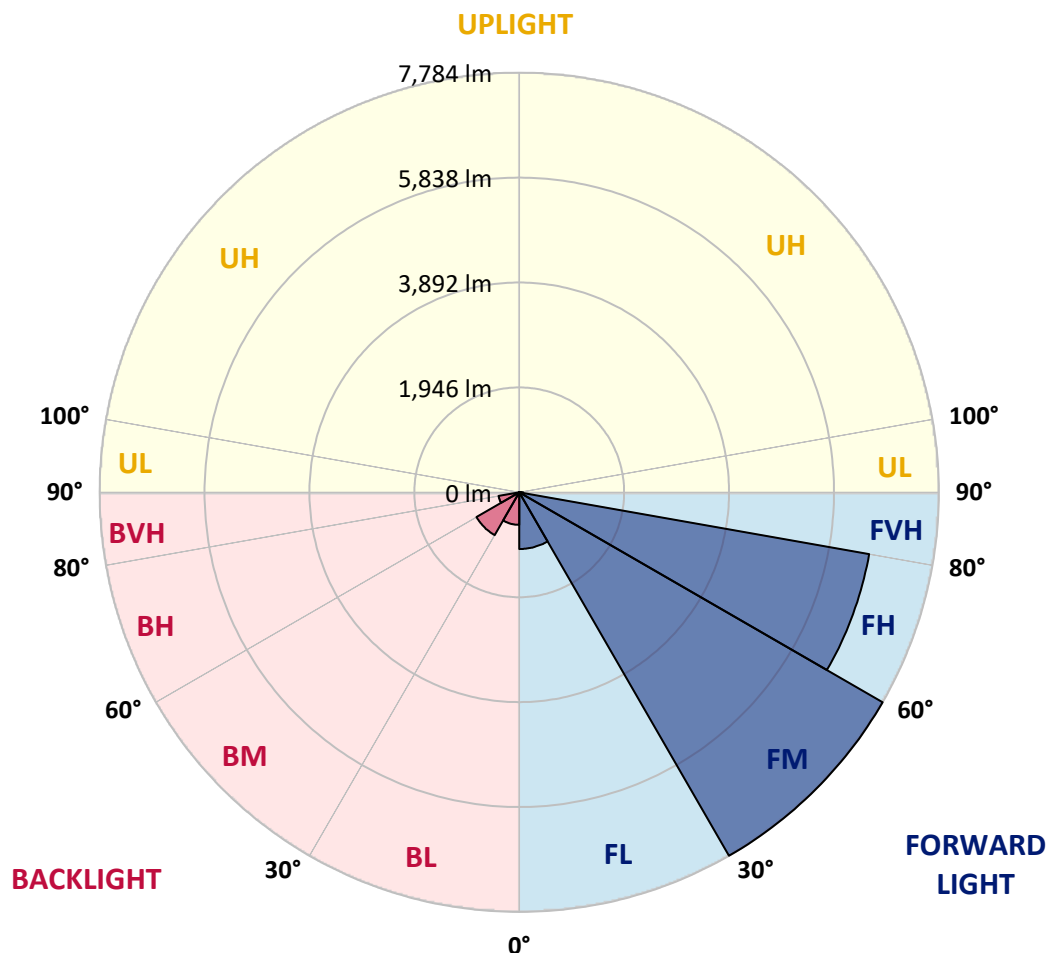
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1052.0	6.0			
FM	(30°-60°)	7783.8	44.7			
FH	(60°-80°)	6590.5	37.9			G3/7500
FVH	(80°-90°)	71.0	0.4			G1/100
BL	(0°-30°)	603.2	3.5	B2/1000		
BM	(30°-60°)	915.4	5.3	B1/1000		
BH	(60°-80°)	388.7	2.2	B1/500		G1/500
BVH	(80°-90°)	1.3	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2068.3	2068.3	2068.3	2068.3	2068.3	2068.3	2068.3	2068.3	2068.3	2068.3	2068.3
2.5°	2019.7	2028.8	2035.4	2039.5	2044.4	2055.1	2058.4	2063.4	2065.8	2065.8	2071.6
5°	1939.9	1949.8	1963.8	1975.3	1998.3	2028.0	2049.4	2057.6	2072.4	2085.6	2093.0
7.5°	1865.8	1877.3	1893.8	1921.0	1960.5	2008.2	2052.7	2064.2	2093.0	2121.0	2135.0
10°	1818.1	1827.1	1848.5	1887.2	1939.1	2005.7	2068.3	2082.3	2131.7	2178.6	2204.9
12.5°	1801.6	1809.9	1832.1	1875.7	1939.9	2018.1	2104.5	2125.1	2197.5	2265.8	2302.9
15°	1825.5	1827.1	1851.0	1892.2	1955.5	2048.5	2164.6	2189.3	2280.6	2369.5	2415.6
17.5°	1917.7	1910.3	1922.6	1940.7	1990.9	2088.9	2228.0	2265.0	2386.8	2491.3	2535.0
20°	2148.1	2148.1	2120.1	2070.8	2071.6	2151.4	2313.6	2355.5	2504.5	2625.5	2665.0
22.5°	2542.4	2535.0	2479.0	2358.0	2246.9	2259.2	2418.1	2472.4	2646.1	2775.3	2788.4
25°	3016.4	3007.4	2921.0	2750.6	2558.0	2433.7	2559.6	2622.2	2814.8	2929.2	2902.0
27.5°	3518.5	3511.1	3425.5	3214.0	2939.9	2711.9	2728.4	2787.6	2986.8	3099.6	3013.1
30°	4004.9	4007.4	3922.6	3705.3	3395.0	3066.6	2942.4	2976.9	3153.9	3268.3	3144.8
32.5°	4467.4	4470.7	4397.5	4154.7	3865.0	3479.0	3238.7	3229.6	3348.1	3460.9	3319.3
35°	4879.8	4888.0	4837.8	4649.3	4342.3	3938.2	3623.0	3601.6	3623.8	3751.4	3586.8
37.5°	5277.3	5282.3	5244.4	5085.5	4828.8	4442.8	4108.6	4078.1	4030.4	4128.4	3939.9
40°	5712.7	5700.4	5656.7	5512.7	5292.1	4999.9	4630.4	4577.7	4494.6	4581.8	4404.1
42.5°	6117.6	6103.6	6111.0	5948.1	5762.1	5572.8	5238.6	5148.1	5099.5	5199.9	4973.6
45°	6623.8	6616.4	6641.1	6499.5	6348.9	6211.5	5935.7	5837.0	5815.6	5933.3	5662.5
47.5°	7123.4	7141.5	7218.0	7158.0	7097.0	6976.1	6674.0	6629.6	6642.7	6785.1	6389.2
50°	7539.8	7561.2	7771.1	7840.2	7928.3	7857.5	7554.7	7527.5	7579.3	7707.7	7171.1
52.5°	7841.1	7884.7	8145.6	8464.1	8785.1	8832.8	8530.8	8506.1	8576.0	8595.8	7775.2
55°	8050.1	8088.8	8384.3	8967.0	9620.5	9826.2	9638.6	9543.1	9529.9	9334.9	8410.6
57.5°	8087.2	8083.0	8507.7	9292.1	10275.6	10806.5	10688.0	10594.1	10324.2	10018.0	9139.0
60°	7878.1	7902.0	8395.0	9404.8	10687.1	11548.0	11557.1	11435.3	11014.7	10682.2	9845.2
62.5°	7234.5	7331.6	7829.5	9109.4	10682.2	11846.8	12194.1	12101.1	11598.2	11226.2	10561.2
65°	6190.9	6225.5	6700.3	8097.0	9960.4	11721.7	12767.8	12733.2	12124.2	11754.6	10929.1
67.5°	4520.9	4446.0	4944.8	6376.1	8432.8	10992.5	13179.3	13222.9	12529.9	11863.3	10537.3
68°	4125.9	4148.1	4536.6	5950.6	8032.8	10734.9	13206.4	13273.1	12570.2	11792.5	10323.4
70°	2459.2	2502.0	2848.5	4097.1	6111.0	9277.3	12913.4	13065.7	12329.9	11062.4	8929.1
72.5°	628.0	679.0	1006.6	1833.7	3490.5	6536.6	10901.1	11158.7	10705.2	8974.4	6027.9
75°	258.4	271.6	359.7	604.1	1300.4	2944.8	7185.1	7736.5	7421.3	5372.8	2724.3
77.5°	178.6	187.7	231.3	335.0	563.0	998.3	3522.6	3920.9	3532.5	1833.7	594.2
80°	128.4	135.8	165.4	223.0	323.5	356.4	1148.1	1327.6	1054.3	402.5	147.3
82.5°	76.5	82.3	123.5	158.8	196.7	170.4	285.6	324.3	305.3	200.0	65.8
85°	37.9	44.4	83.1	113.6	106.2	71.6	87.2	97.1	120.2	121.8	35.4
87.5°	2.5	4.9	48.6	68.3	29.6	16.5	25.5	31.3	42.8	60.1	14.8
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°	2068.3	2068.3	2068.3	2068.3	2068.3	2068.3	2068.3	2068.3	2068.3	2068.3	2068.3
2.5°	2074.1	2074.9	2069.1	2066.6	2068.3	2058.4	2054.3	2055.9	2055.9	2058.4	2054.3
5°	2094.6	2094.6	2084.8	2071.6	2064.2	2045.2	2032.9	2029.6	2027.1	2025.5	2022.2
7.5°	2139.1	2134.1	2116.9	2088.0	2063.4	2022.2	1990.9	1974.5	1966.2	1962.9	1960.5
10°	2210.7	2201.6	2172.8	2119.3	2062.5	1989.3	1921.0	1872.4	1832.1	1815.6	1805.7
12.5°	2307.0	2293.8	2245.2	2156.4	2056.8	1921.8	1773.6	1631.3	1498.8	1444.4	1417.3
15°	2418.1	2399.2	2322.6	2187.6	2023.0	1769.5	1447.7	1198.3	1014.8	945.7	916.0
17.5°	2530.8	2506.1	2390.1	2207.4	1921.8	1454.3	1015.6	767.1	644.4	611.5	600.0
20°	2644.4	2608.2	2448.5	2192.6	1693.0	1048.5	670.0	560.5	525.1	515.2	511.9
22.5°	2752.2	2696.3	2501.2	2135.0	1340.7	703.7	530.0	495.5	483.9	478.2	476.5
25°	2846.1	2767.9	2547.3	1957.2	949.0	531.7	477.4	465.8	451.0	440.3	441.1
27.5°	2934.1	2839.5	2575.3	1664.2	632.9	454.3	442.0	426.3	399.2	383.5	383.5
30°	3040.3	2934.9	2595.9	1280.6	465.8	401.6	391.8	367.9	330.9	310.3	310.3
32.5°	3200.0	3079.8	2582.7	898.8	386.0	353.1	330.0	297.1	256.8	237.0	236.2
35°	3444.4	3303.7	2488.9	589.3	340.7	307.0	270.0	229.6	194.2	177.8	177.0
37.5°	3773.6	3603.3	2278.2	421.4	305.3	264.2	219.8	175.3	149.0	138.3	137.4
40°	4200.8	3951.4	1976.9	341.6	272.4	223.0	169.5	135.8	117.7	109.5	110.3
42.5°	4713.5	4324.2	1615.6	294.6	240.3	183.5	132.5	107.0	95.5	89.7	88.1
45°	5283.1	4692.1	1237.0	262.5	208.2	148.1	103.7	84.8	75.7	72.4	72.4
47.5°	5909.4	5050.2	905.3	234.6	173.7	114.4	83.1	69.1	61.7	59.3	58.4
50°	6478.1	5298.7	652.7	204.9	142.4	90.5	67.5	57.6	52.7	49.4	49.4
52.5°	6952.2	5376.9	480.7	172.8	115.2	72.4	56.0	49.4	44.4	42.0	42.0
55°	7369.5	5344.8	357.2	142.4	93.0	59.3	47.7	42.0	37.9	35.4	35.4
57.5°	7769.5	5241.1	266.7	116.0	74.9	47.7	40.3	35.4	31.3	29.6	29.6
60°	8096.2	5068.3	198.4	93.8	60.1	38.7	33.7	28.8	25.5	23.0	23.0
62.5°	8361.2	4877.3	145.7	77.4	47.7	30.5	26.3	23.9	18.9	16.5	16.5
65°	8362.9	4560.4	109.5	64.2	37.0	23.9	19.8	18.9	12.3	9.9	9.1
67.5°	7757.9	3931.6	83.9	55.1	28.8	18.1	14.8	15.6	6.6	4.1	3.3
68°	7538.2	3772.0	79.0	54.3	27.2	17.3	14.0	15.6	5.8	3.3	2.5
70°	6355.5	3000.8	63.4	52.7	23.9	13.2	11.5	15.6	4.9	2.5	1.6
72.5°	4065.0	1741.5	46.9	42.0	18.1	9.9	7.4	14.0	4.9	1.6	0.8
75°	1730.0	539.9	32.1	29.6	10.7	7.4	4.9	9.1	3.3	0.8	0.0
77.5°	364.6	121.8	18.9	18.1	7.4	4.9	3.3	2.5	0.8	0.0	0.0
80°	93.8	35.4	9.9	9.1	4.1	2.5	1.6	0.0	0.0	0.0	0.0
82.5°	29.6	14.0	5.8	4.1	1.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.8	8.2	3.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.2	2.5	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)