

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: P322178

Luminaire Tested: **GAN-SA4D-727-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322178
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-SA4D-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1200mA 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: 19074 lumens
Efficiency: N/A
Efficacy: 73.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 258
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

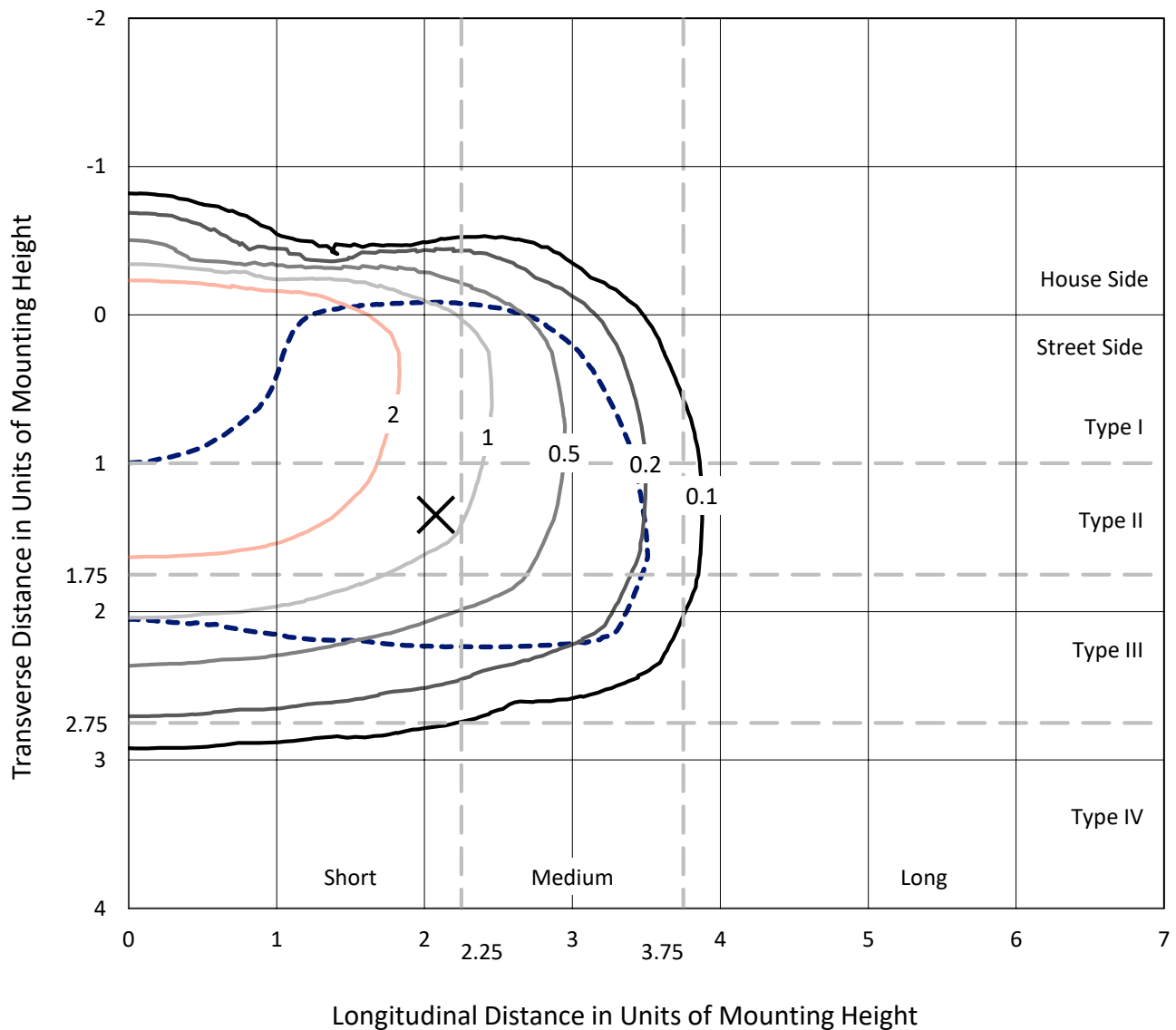


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Iso-Footcandle Lines of Horizontal Illumination

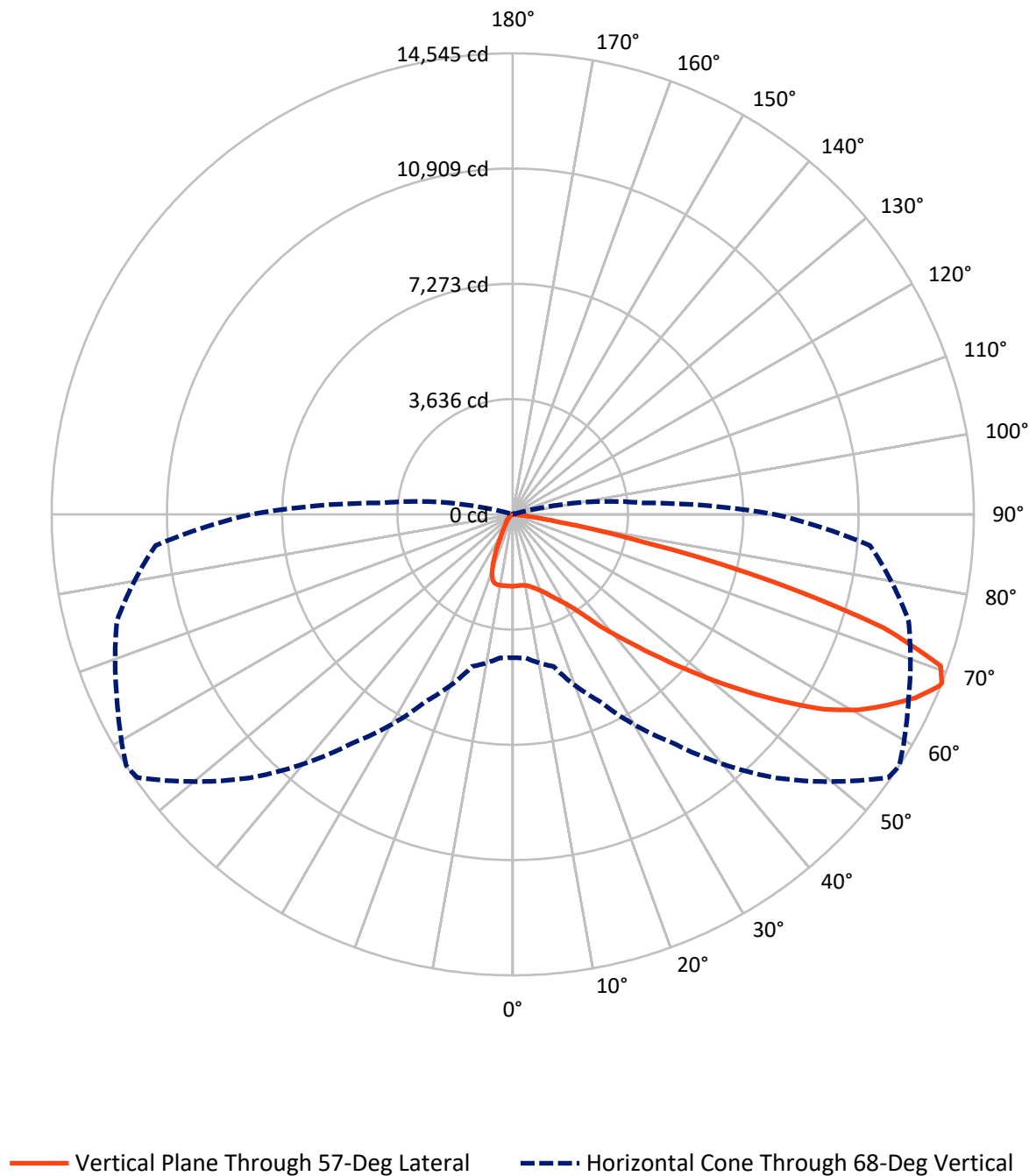
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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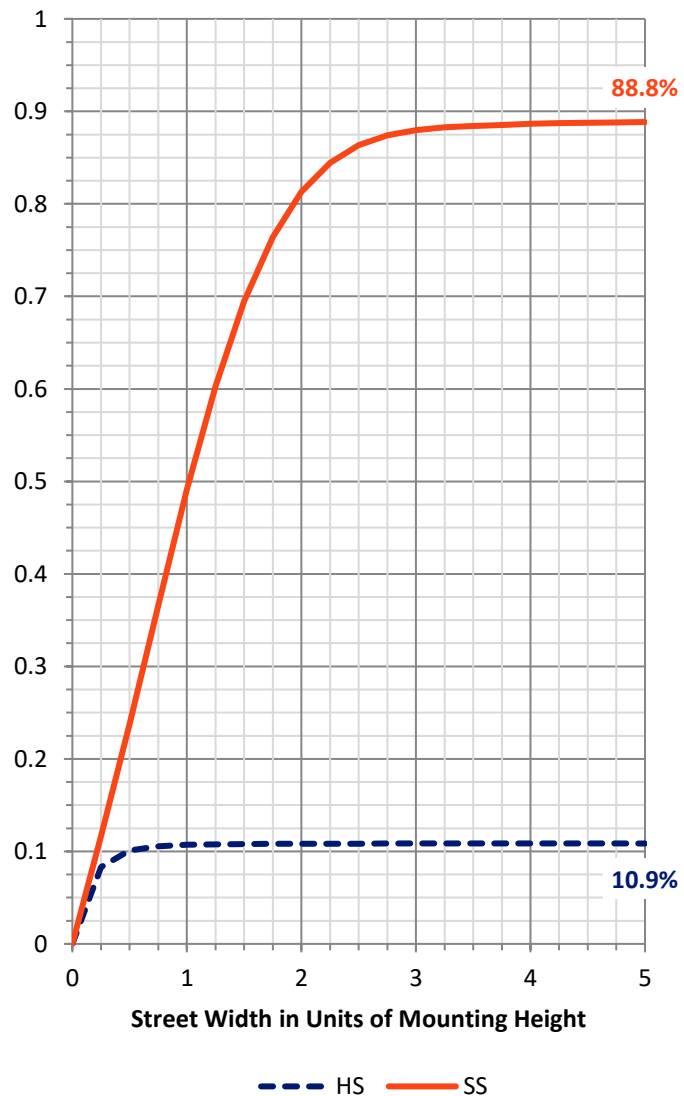
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2091.6	0.0	2091.6
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	16982.4	0.0	16982.4
	% Fixture	89.0	0.0	89.0
Total	Lumens	19074.0	0.0	19074.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.1	1.1
10°-20°	587.8	3.1
20°-30°	1014.0	5.3
30°-40°	1750.1	9.2
40°-50°	2993.5	15.7
50°-60°	4789.3	25.1
60°-70°	5533.5	29.0
70°-80°	2114.4	11.1
80°-90°	79.3	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°	19074.0	100.0
0°-180°	19074.0	100.0

Coefficient of Utilization



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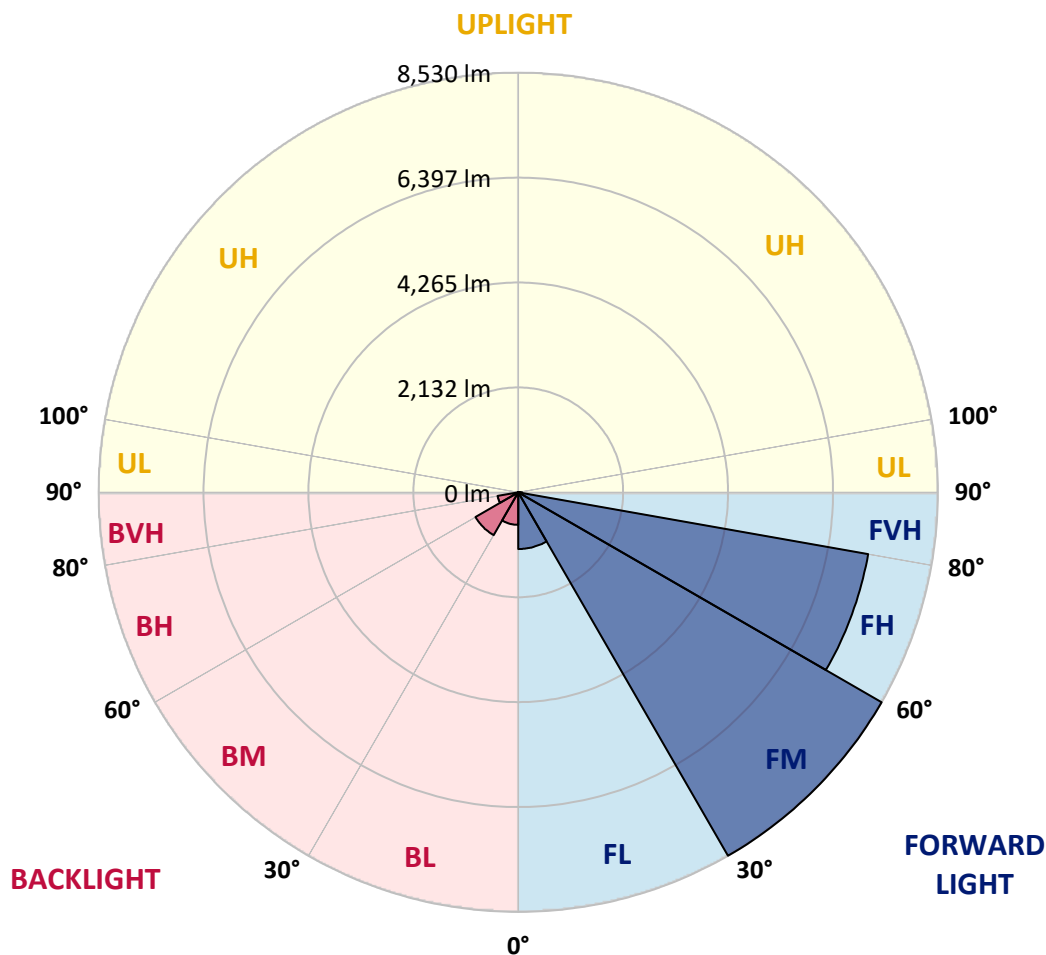
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1152.8	6.0			
FM	(30°-60°)	8529.7	44.7			
FH	(60°-80°)	7222.0	37.9			G3/7500
FVH	(80°-90°)	77.8	0.4			G1/100
BL	(0°-30°)	661.0	3.5	B2/1000		
BM	(30°-60°)	1003.2	5.3	B2/2500		
BH	(60°-80°)	426.0	2.2	B1/500		G1/500
BVH	(80°-90°)	1.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	2266.5	2266.5	2266.5	2266.5	2266.5	2266.5	2266.5	2266.5	2266.5	2266.5	2266.5
2.5°	2213.3	2223.2	2230.4	2234.9	2240.3	2252.1	2255.7	2261.1	2263.8	2263.8	2270.1
5°	2125.8	2136.6	2152.0	2164.6	2189.8	2222.3	2245.8	2254.8	2271.0	2285.4	2293.6
7.5°	2044.6	2057.3	2075.3	2105.1	2148.3	2200.7	2249.4	2262.0	2293.6	2324.2	2339.5
10°	1992.3	2002.2	2025.7	2068.1	2124.9	2197.9	2266.5	2281.8	2335.9	2387.3	2416.2
12.5°	1974.3	1983.3	2007.6	2055.4	2125.8	2211.5	2306.2	2328.7	2408.1	2483.0	2523.5
15°	2000.4	2002.2	2028.4	2073.5	2142.9	2244.8	2372.0	2399.1	2499.2	2596.6	2647.1
17.5°	2101.4	2093.3	2106.9	2126.7	2181.7	2289.0	2441.5	2482.1	2615.5	2730.1	2777.9
20°	2354.0	2354.0	2323.3	2269.2	2270.1	2357.6	2535.3	2581.3	2744.5	2877.1	2920.4
22.5°	2786.0	2777.9	2716.5	2584.0	2462.2	2475.7	2649.8	2709.3	2899.6	3041.2	3055.7
25°	3305.5	3295.6	3200.9	3014.2	2803.1	2666.9	2804.9	2873.5	3084.5	3209.9	3180.1
27.5°	3855.7	3847.5	3753.7	3521.9	3221.6	2971.8	2989.8	3054.8	3273.0	3396.6	3301.9
30°	4388.7	4391.4	4298.5	4060.4	3720.4	3360.5	3224.3	3262.2	3456.1	3581.5	3446.2
32.5°	4895.6	4899.2	4818.9	4552.8	4235.4	3812.4	3549.0	3539.1	3669.0	3792.5	3637.4
35°	5347.4	5356.4	5301.4	5094.9	4758.5	4315.6	3970.2	3946.7	3971.1	4110.9	3930.5
37.5°	5783.0	5788.4	5747.0	5572.9	5291.5	4868.5	4502.3	4469.0	4416.6	4524.0	4317.4
40°	6260.1	6246.6	6198.8	6041.0	5799.3	5479.1	5074.1	5016.4	4925.3	5020.9	4826.1
42.5°	6703.9	6688.5	6696.7	6518.1	6314.3	6106.8	5740.6	5641.4	5588.2	5698.3	5450.2
45°	7258.6	7250.4	7277.5	7122.4	6957.3	6806.7	6504.6	6396.3	6372.9	6501.9	6205.1
47.5°	7806.0	7825.9	7909.7	7843.9	7777.2	7644.6	7313.6	7264.9	7279.3	7435.3	7001.5
50°	8262.4	8285.8	8515.8	8591.6	8688.1	8610.5	8278.6	8248.8	8305.7	8446.4	7858.3
52.5°	8592.5	8640.3	8926.2	9275.2	9627.0	9679.3	9348.3	9321.2	9397.9	9419.5	8520.3
55°	8821.6	8863.9	9187.7	9826.3	10542.4	10767.9	10562.2	10457.6	10443.2	10229.4	9216.6
57.5°	8862.1	8857.6	9323.0	10182.5	11260.3	11842.0	11712.2	11609.4	11313.5	10978.0	10014.8
60°	8633.1	8659.2	9199.5	10306.1	11711.3	12654.7	12664.6	12531.1	12070.2	11705.9	10788.6
62.5°	7927.8	8034.2	8579.8	9982.3	11705.9	12982.1	13362.7	13260.7	12709.7	12302.0	11573.3
65°	6784.1	6822.0	7342.4	8873.0	10914.9	12845.0	13991.3	13953.4	13286.0	12881.0	11976.4
67.5°	4954.2	4872.1	5418.7	6987.1	9240.9	12045.9	14442.2	14490.0	13730.6	13000.1	11547.1
68°	4521.3	4545.6	4971.3	6520.8	8802.6	11763.6	14472.0	14545.1	13774.8	12922.5	11312.6
70°	2694.9	2741.8	3121.5	4489.7	6696.7	10166.3	14150.9	14317.8	13511.5	12122.5	9784.8
72.5°	688.2	744.1	1103.0	2009.5	3825.0	7163.0	11945.8	12228.1	11731.1	9834.4	6605.6
75°	283.2	297.6	394.1	662.0	1425.0	3227.0	7873.7	8477.9	8132.5	5887.7	2985.3
77.5°	195.7	205.6	253.4	367.1	616.9	1094.0	3860.2	4296.7	3871.0	2009.5	651.2
80°	140.7	148.8	181.3	244.4	354.4	390.5	1258.2	1454.8	1155.3	441.0	161.4
82.5°	83.9	90.2	135.3	174.1	215.6	186.7	313.0	355.4	334.6	219.2	72.2
85°	41.5	48.7	91.1	124.5	116.3	78.5	95.6	106.4	131.7	133.5	38.8
87.5°	2.7	5.4	53.2	74.9	32.5	18.0	28.0	34.3	46.9	65.8	16.2
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°	2266.5	2266.5	2266.5	2266.5	2266.5	2266.5	2266.5	2266.5	2266.5	2266.5	2266.5
2.5°	2272.8	2273.7	2267.4	2264.7	2266.5	2255.7	2251.2	2253.0	2253.0	2255.7	2251.2
5°	2295.4	2295.4	2284.5	2270.1	2262.0	2241.2	2227.7	2224.1	2221.4	2219.6	2216.0
7.5°	2344.1	2338.6	2319.7	2288.1	2261.1	2216.0	2181.7	2163.7	2154.7	2151.0	2148.3
10°	2422.5	2412.6	2381.0	2322.4	2260.2	2179.9	2105.1	2051.8	2007.6	1989.6	1978.8
12.5°	2528.0	2513.6	2460.4	2363.0	2253.9	2106.0	1943.6	1787.6	1642.4	1582.8	1553.1
15°	2649.8	2629.1	2545.2	2397.3	2216.9	1939.1	1586.5	1313.2	1112.1	1036.3	1003.8
17.5°	2773.4	2746.3	2619.1	2418.9	2106.0	1593.7	1113.0	840.6	706.2	670.1	657.5
20°	2897.8	2858.1	2683.2	2402.7	1855.2	1149.0	734.2	614.2	575.4	564.6	561.0
22.5°	3016.0	2954.6	2740.9	2339.5	1469.2	771.1	580.8	542.9	530.3	524.0	522.2
25°	3118.8	3033.1	2791.4	2144.7	1039.9	582.6	523.1	510.5	494.2	482.5	483.4
27.5°	3215.3	3111.6	2822.1	1823.7	693.6	497.9	484.3	467.2	437.4	420.3	420.3
30°	3331.6	3216.2	2844.6	1403.4	510.5	440.1	429.3	403.2	362.6	340.0	340.0
32.5°	3506.6	3374.9	2830.2	984.9	423.0	386.9	361.7	325.6	281.4	259.7	258.8
35°	3774.5	3620.3	2727.4	645.8	373.4	336.4	295.8	251.6	212.9	194.8	193.9
37.5°	4135.2	3948.6	2496.5	461.8	334.6	289.5	240.8	192.1	163.2	151.5	150.6
40°	4603.3	4330.1	2166.4	374.3	298.5	244.4	185.8	148.8	129.0	120.0	120.9
42.5°	5165.2	4738.6	1770.4	322.9	263.4	201.1	145.2	117.2	104.6	98.3	96.5
45°	5789.3	5141.8	1355.6	287.7	228.2	162.3	113.6	92.9	83.0	79.4	79.4
47.5°	6475.7	5534.1	992.1	257.0	190.3	125.4	91.1	75.8	67.6	64.9	64.0
50°	7098.9	5806.5	715.2	224.6	156.0	99.2	74.0	63.1	57.7	54.1	54.1
52.5°	7618.4	5892.2	526.7	189.4	126.3	79.4	61.3	54.1	48.7	46.0	46.0
55°	8075.7	5857.0	391.4	156.0	101.9	64.9	52.3	46.0	41.5	38.8	38.8
57.5°	8514.0	5743.3	292.2	127.2	82.1	52.3	44.2	38.8	34.3	32.5	32.5
60°	8872.1	5553.9	217.4	102.8	65.8	42.4	37.0	31.6	28.0	25.3	25.3
62.5°	9162.5	5344.7	159.6	84.8	52.3	33.4	28.9	26.2	20.7	18.0	18.0
65°	9164.3	4997.5	120.0	70.3	40.6	26.2	21.6	20.7	13.5	10.8	9.9
67.5°	8501.4	4308.4	92.0	60.4	31.6	19.8	16.2	17.1	7.2	4.5	3.6
68°	8260.6	4133.4	86.6	59.5	29.8	18.9	15.3	17.1	6.3	3.6	2.7
70°	6964.5	3288.4	69.4	57.7	26.2	14.4	12.6	17.1	5.4	2.7	1.8
72.5°	4454.5	1908.4	51.4	46.0	19.8	10.8	8.1	15.3	5.4	1.8	0.9
75°	1895.8	591.7	35.2	32.5	11.7	8.1	5.4	9.9	3.6	0.9	0.0
77.5°	399.5	133.5	20.7	19.8	8.1	5.4	3.6	2.7	0.9	0.0	0.0
80°	102.8	38.8	10.8	9.9	4.5	2.7	1.8	0.0	0.0	0.0	0.0
82.5°	32.5	15.3	6.3	4.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.2	9.0	3.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.0	2.7	0.9	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)