

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: P319286

Luminaire Tested: **GAN-SA2C-727-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319286
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2C-727-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11856 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 113
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



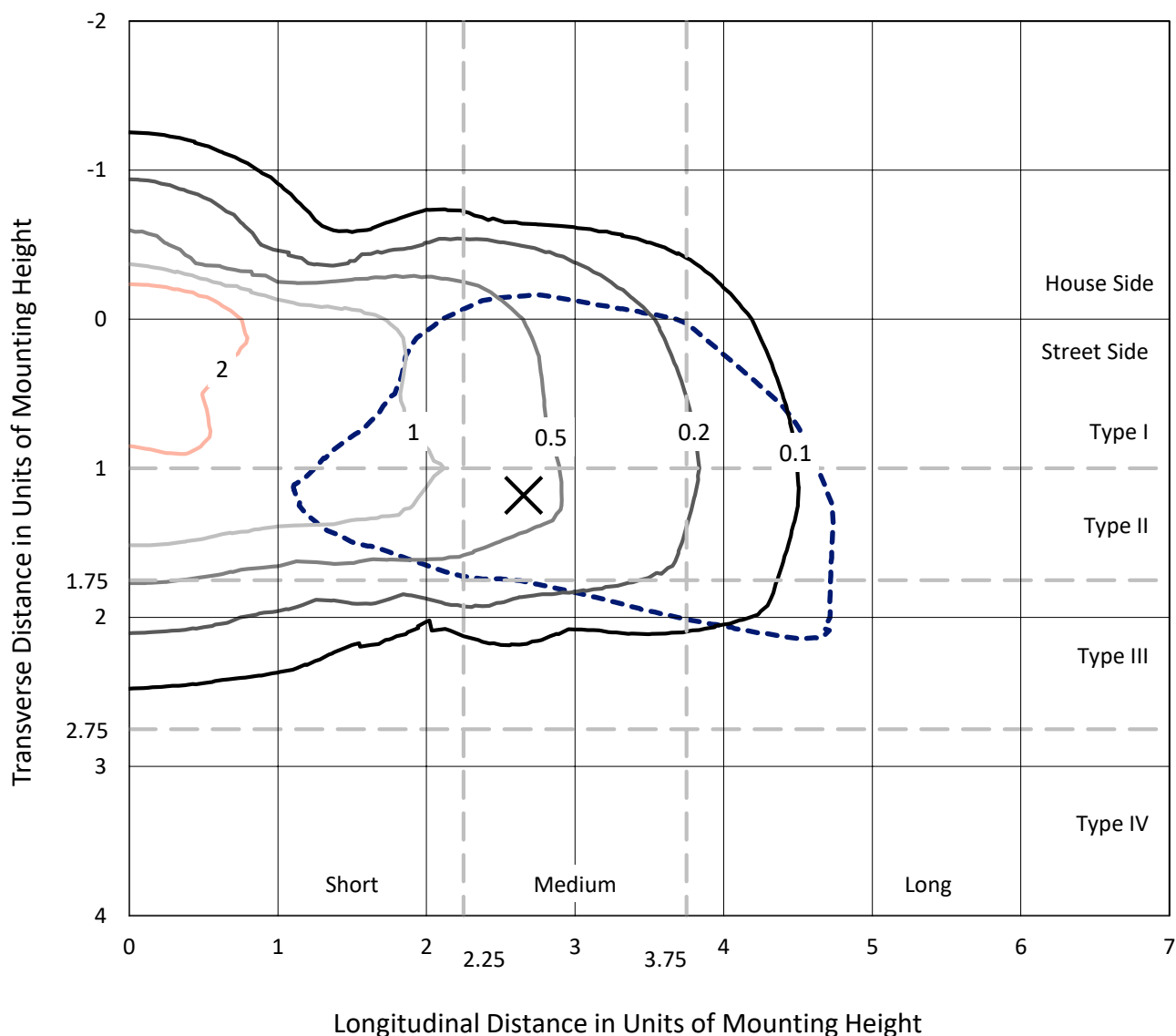
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

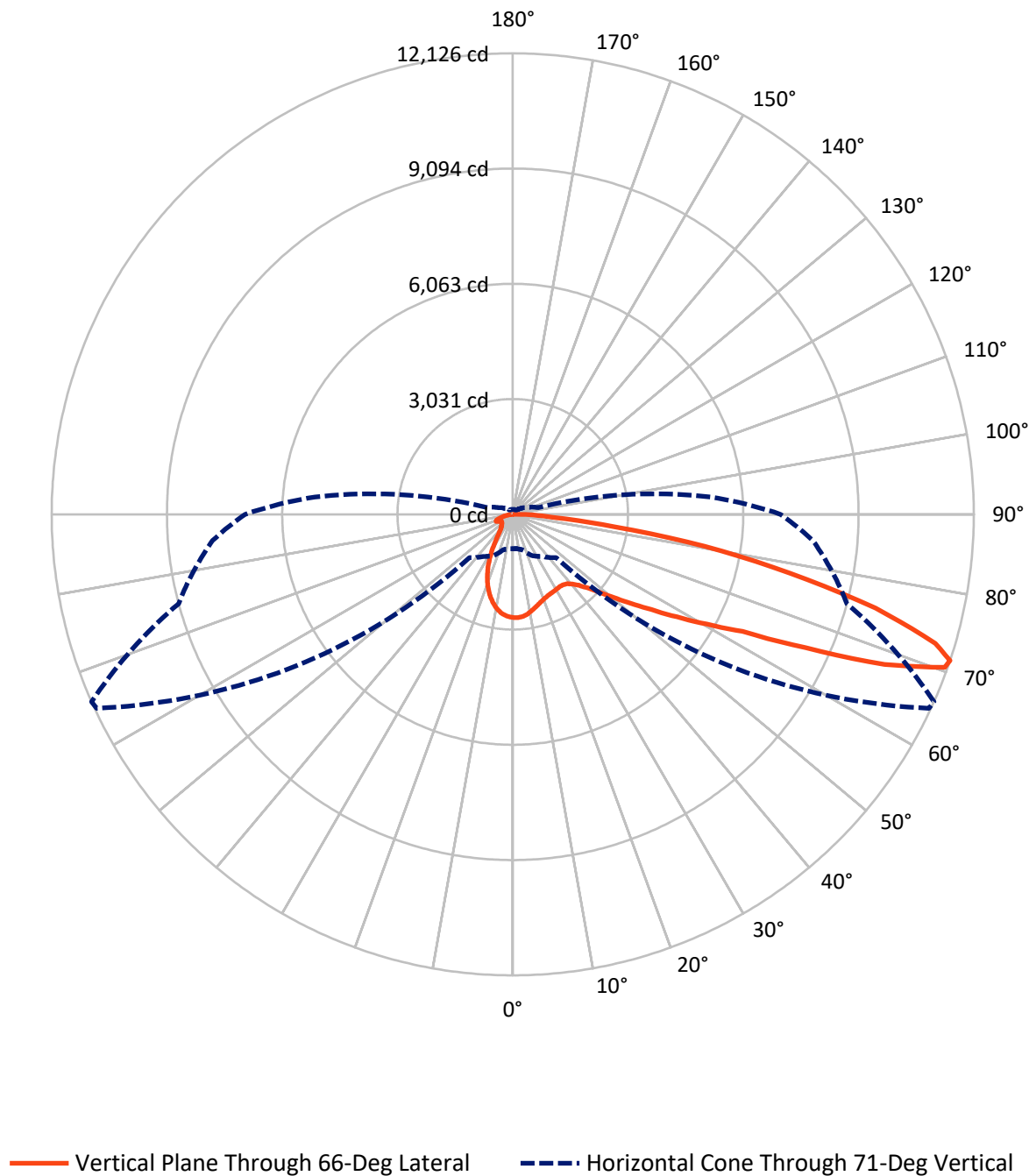


Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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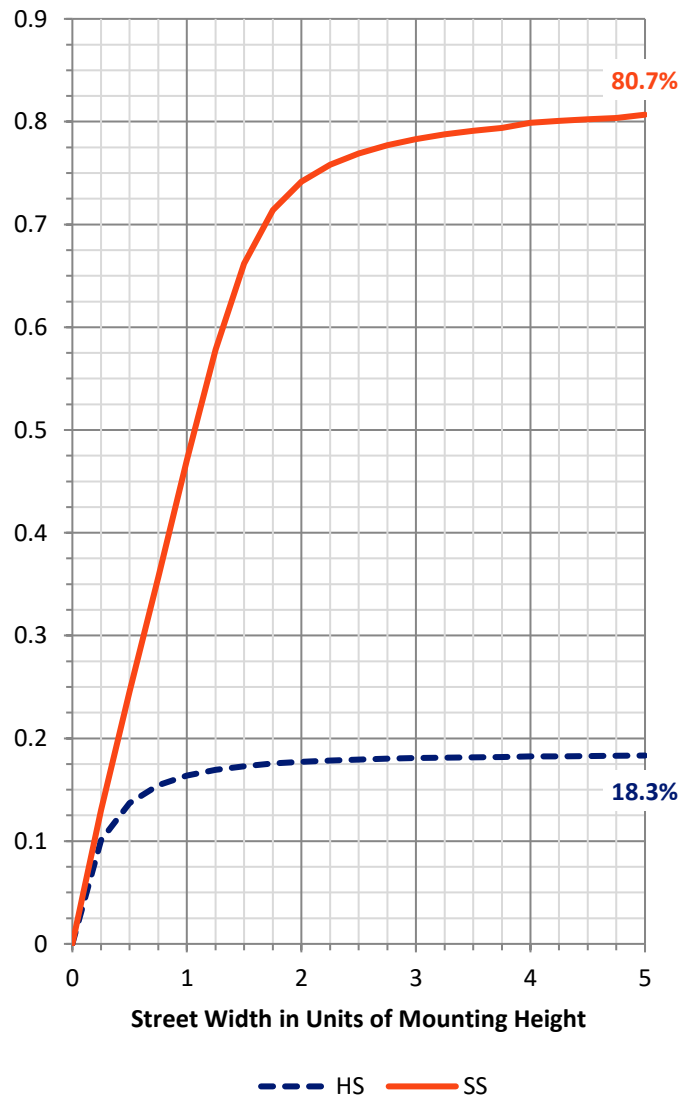
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2197.2	0.0	2197.2
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	9658.8	0.0	9658.8
	% Fixture	81.5	0.0	81.5
Total	Lumens	11856.0	0.0	11856.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.1	2.0
10°-20°	573.4	4.8
20°-30°	770.2	6.5
30°-40°	1013.2	8.5
40°-50°	1473.9	12.4
50°-60°	2302.5	19.4
60°-70°	2884.2	24.3
70°-80°	2200.0	18.6
80°-90°	399.5	3.4
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°	11856.0	100.0
0°-180°	11856.0	100.0

Coefficient of Utilization



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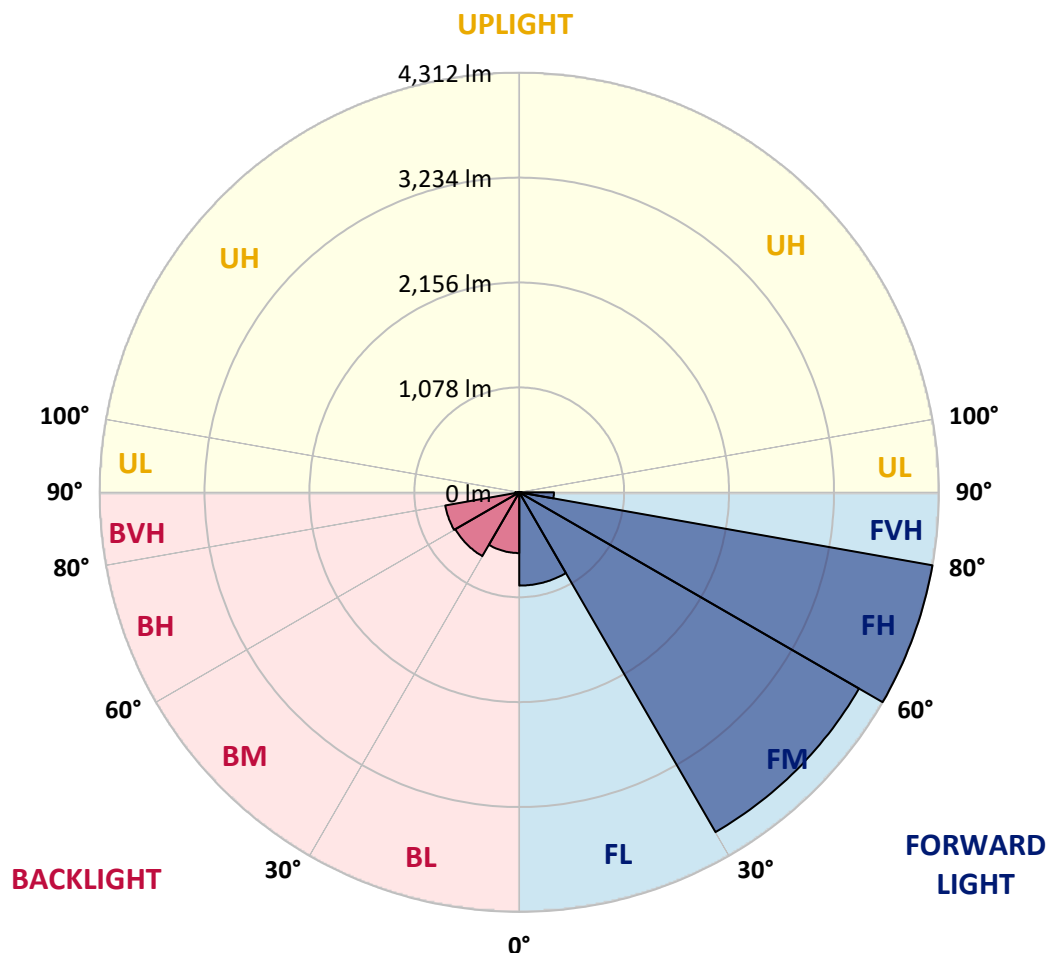
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	958.7	8.1			
FM	(30°-60°)	4031.6	34.0			
FH	(60°-80°)	4312.1	36.4			G2/5000
FVH	(80°-90°)	356.3	3.0			G3/500
BL	(0°-30°)	624.0	5.3	B2/1000		
BM	(30°-60°)	758.0	6.4	B1/1000		
BH	(60°-80°)	772.1	6.5	B2/1000		G2/1000
BVH	(80°-90°)	43.2	0.4			G1/100
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2716.0	2716.0	2716.0	2716.0	2716.0	2716.0	2716.0	2716.0	2716.0	2716.0	2716.0
2.5°	2665.6	2661.5	2673.8	2686.5	2691.4	2699.6	2711.9	2718.8	2718.4	2719.7	2715.6
5°	2488.8	2483.5	2508.0	2528.1	2566.6	2610.0	2662.8	2700.4	2701.2	2722.5	2728.3
7.5°	2321.4	2317.7	2345.9	2378.3	2422.9	2489.2	2574.8	2655.8	2660.7	2718.4	2738.5
10°	2187.1	2186.3	2213.7	2248.9	2300.9	2375.0	2473.2	2591.9	2599.3	2698.8	2740.1
12.5°	2082.3	2084.0	2107.7	2147.8	2202.7	2280.0	2386.5	2520.3	2532.2	2667.7	2730.7
15°	2005.0	2011.5	2030.7	2071.3	2125.3	2203.9	2313.2	2454.0	2472.0	2632.9	2725.4
17.5°	1960.7	1968.1	1981.6	2015.2	2065.9	2141.7	2245.2	2399.6	2415.9	2606.3	2725.8
20°	1947.6	1953.8	1961.6	1982.0	2025.0	2093.8	2191.6	2350.4	2368.0	2585.0	2729.9
22.5°	1973.4	1977.9	1978.8	1977.1	2003.3	2059.4	2152.7	2314.4	2333.2	2571.1	2732.8
25°	2028.7	2034.8	2030.3	2015.2	2006.6	2041.0	2132.7	2290.7	2309.5	2560.8	2727.0
27.5°	2111.8	2112.6	2108.9	2089.3	2048.8	2043.0	2126.5	2276.8	2294.8	2549.0	2715.2
30°	2224.8	2230.1	2223.5	2196.9	2130.6	2075.8	2133.9	2263.2	2279.6	2533.8	2695.9
32.5°	2357.0	2370.1	2369.7	2341.8	2246.9	2149.0	2164.2	2255.1	2267.8	2517.9	2672.6
35°	2494.1	2512.1	2545.7	2533.8	2416.3	2264.9	2222.3	2268.2	2276.8	2515.8	2656.2
37.5°	2636.6	2654.6	2723.8	2755.7	2618.1	2430.7	2314.0	2314.4	2318.5	2540.8	2655.0
40°	2785.6	2804.8	2908.8	2991.9	2879.7	2640.7	2461.8	2411.0	2406.5	2602.2	2679.1
42.5°	2994.3	3011.5	3136.4	3242.4	3169.9	2909.6	2666.0	2560.0	2550.6	2722.5	2756.5
45°	3258.4	3273.1	3405.7	3519.1	3481.9	3216.6	2922.7	2765.1	2763.5	2923.1	2913.3
47.5°	3572.3	3583.8	3702.9	3812.6	3826.1	3569.9	3245.3	3081.5	3054.9	3198.2	3156.0
50°	3899.4	3912.1	3993.1	4111.0	4211.3	4042.7	3660.3	3469.2	3433.6	3561.3	3499.9
52.5°	4115.9	4132.7	4203.1	4352.5	4644.4	4560.9	4151.1	3939.1	3885.1	4001.3	3954.2
55°	4019.3	4057.0	4164.6	4404.1	4990.7	5352.5	4756.5	4487.2	4426.2	4522.8	4495.0
57.5°	3580.1	3631.7	3778.6	4148.3	5039.4	6050.1	5671.8	5132.7	5089.8	5061.9	5074.6
60°	2777.4	2826.9	3009.1	3490.9	4700.1	6559.3	7049.3	5928.5	5866.3	5603.1	5614.5
62.5°	1965.7	1940.7	2065.5	2418.0	3819.2	6619.1	8616.6	6992.8	6788.1	6174.5	6124.2
65°	1499.0	1493.3	1549.4	1661.5	2313.2	5903.9	9550.3	8781.6	8461.9	6846.6	6727.9
67.5°	1231.7	1221.5	1276.7	1440.1	1489.6	3808.9	9570.8	10857.0	10543.0	7683.3	7426.3
70°	1012.7	1001.2	1052.8	1263.6	1376.6	1931.7	8055.0	12072.3	12055.5	8742.7	7953.5
71°	907.9	899.7	961.5	1195.7	1352.5	1609.9	6954.7	12075.6	12125.9	9101.3	7922.4
72.5°	739.3	742.1	807.6	1064.3	1334.5	1421.6	5111.4	11512.7	11619.2	9443.1	7639.5
75°	491.2	493.7	579.6	818.7	1293.9	1390.9	2809.3	9660.5	9856.1	9238.4	6971.1
77.5°	329.9	329.1	387.6	561.6	1127.3	1390.9	1647.2	7225.3	7440.2	7351.0	5374.2
80°	227.2	225.5	266.9	387.6	853.5	1407.7	1273.5	5063.6	5128.6	3969.8	2184.2
82.5°	139.2	140.4	174.4	273.8	580.9	1266.9	1202.2	2761.0	2690.2	1113.4	545.7
85°	79.8	79.4	111.3	185.4	372.9	1069.2	1172.4	1188.3	1090.1	335.3	197.3
87.5°	28.7	30.7	59.8	102.7	213.7	744.6	994.7	618.1	557.1	151.5	89.2
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°	2716.0	2716.0	2716.0	2716.0	2716.0	2716.0	2716.0	2716.0	2716.0	2716.0	2716.0
2.5°	2712.7	2715.2	2712.3	2695.9	2682.0	2659.5	2646.8	2629.2	2623.9	2621.4	2628.0
5°	2722.9	2723.8	2699.6	2656.6	2608.3	2551.4	2510.5	2460.1	2436.4	2426.2	2432.7
7.5°	2732.4	2728.7	2675.9	2593.6	2504.4	2405.3	2317.3	2236.6	2189.6	2170.3	2172.0
10°	2733.6	2718.0	2633.3	2506.0	2367.6	2222.3	2087.2	1962.8	1884.2	1833.0	1848.6
12.5°	2720.9	2694.7	2570.7	2392.6	2200.6	2002.5	1819.9	1633.3	1521.1	1469.1	1470.8
15°	2711.1	2663.6	2493.7	2259.2	2001.3	1738.9	1489.6	1270.2	1150.7	1097.4	1072.5
17.5°	2702.9	2630.0	2404.5	2108.9	1765.9	1433.1	1133.5	937.8	872.3	856.8	850.2
20°	2691.4	2594.4	2305.0	1935.0	1497.8	1090.9	827.7	731.1	731.5	749.5	752.0
22.5°	2675.5	2553.9	2199.0	1739.7	1210.0	794.5	648.8	621.0	649.2	683.6	689.7
25°	2651.7	2506.0	2081.1	1524.0	922.7	610.7	554.2	553.0	587.4	623.4	628.7
27.5°	2618.1	2443.4	1950.1	1292.3	679.9	519.0	496.5	505.1	530.5	556.7	558.8
30°	2573.1	2370.5	1805.6	1047.9	533.0	462.1	459.7	467.5	483.0	501.4	503.1
32.5°	2523.6	2296.4	1651.3	811.3	456.4	431.4	433.9	437.6	445.0	452.3	454.0
35°	2478.6	2220.7	1493.3	616.5	420.0	411.4	409.8	408.9	409.8	407.3	407.7
37.5°	2449.5	2158.0	1328.7	490.8	399.1	393.8	388.9	382.7	375.8	371.7	372.5
40°	2438.9	2111.4	1162.1	424.1	381.9	378.2	368.8	355.7	347.5	345.1	345.1
42.5°	2467.5	2087.2	1001.2	390.5	367.6	361.4	345.9	330.7	324.6	324.2	323.8
45°	2555.1	2097.1	848.2	372.1	354.5	342.6	322.2	309.5	305.4	306.2	305.8
47.5°	2712.3	2158.9	717.2	359.8	341.4	325.8	302.9	292.7	287.8	287.8	288.2
50°	2979.6	2303.4	612.8	349.6	330.3	310.3	289.0	276.3	269.8	269.3	269.3
52.5°	3368.9	2562.1	547.7	341.0	318.1	296.4	275.1	259.1	251.3	249.7	248.9
55°	3856.8	2932.9	529.7	335.3	301.7	281.2	258.3	242.3	233.7	230.0	229.6
57.5°	4402.5	3384.0	565.3	328.3	284.9	263.2	239.9	224.7	215.7	211.2	210.8
60°	4954.7	3876.5	710.6	318.5	271.0	243.6	221.0	207.1	198.1	193.2	192.4
62.5°	5507.7	4395.5	1007.4	317.6	261.2	224.7	201.8	189.9	181.3	176.0	174.8
65°	6131.5	4963.7	1344.7	339.3	257.9	207.5	182.2	172.7	165.4	160.5	160.1
67.5°	6847.9	5605.1	1312.3	384.0	268.9	192.0	163.7	156.4	151.0	147.0	146.5
70°	7183.9	5504.8	815.8	415.5	284.5	176.8	146.1	140.8	136.7	133.9	132.6
71°	7043.1	5226.9	684.0	411.8	282.9	170.3	139.2	135.1	131.0	128.5	127.3
72.5°	6659.2	4766.8	570.6	383.1	264.4	158.4	130.2	126.1	122.4	119.5	118.7
75°	5975.6	4257.2	456.8	306.2	210.8	133.9	114.2	109.7	106.8	105.2	103.6
77.5°	4392.6	3038.1	353.3	241.9	155.1	109.3	97.4	94.1	91.3	88.8	87.6
80°	1682.8	1176.9	237.8	180.5	113.8	86.4	78.6	77.0	74.1	72.5	72.5
82.5°	453.1	351.6	126.9	109.3	76.1	63.0	60.2	59.4	56.9	53.6	54.0
85°	183.4	155.1	71.2	60.2	46.7	37.3	40.5	40.9	38.1	34.0	34.4
87.5°	80.6	65.9	39.7	26.6	20.5	14.3	18.4	18.4	16.8	13.9	12.7
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)