

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: P317846

Luminaire Tested: **GAN-SA2C-760-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317846
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2C-760-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14797 lumens
Efficiency: N/A
Efficacy: 130.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - 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

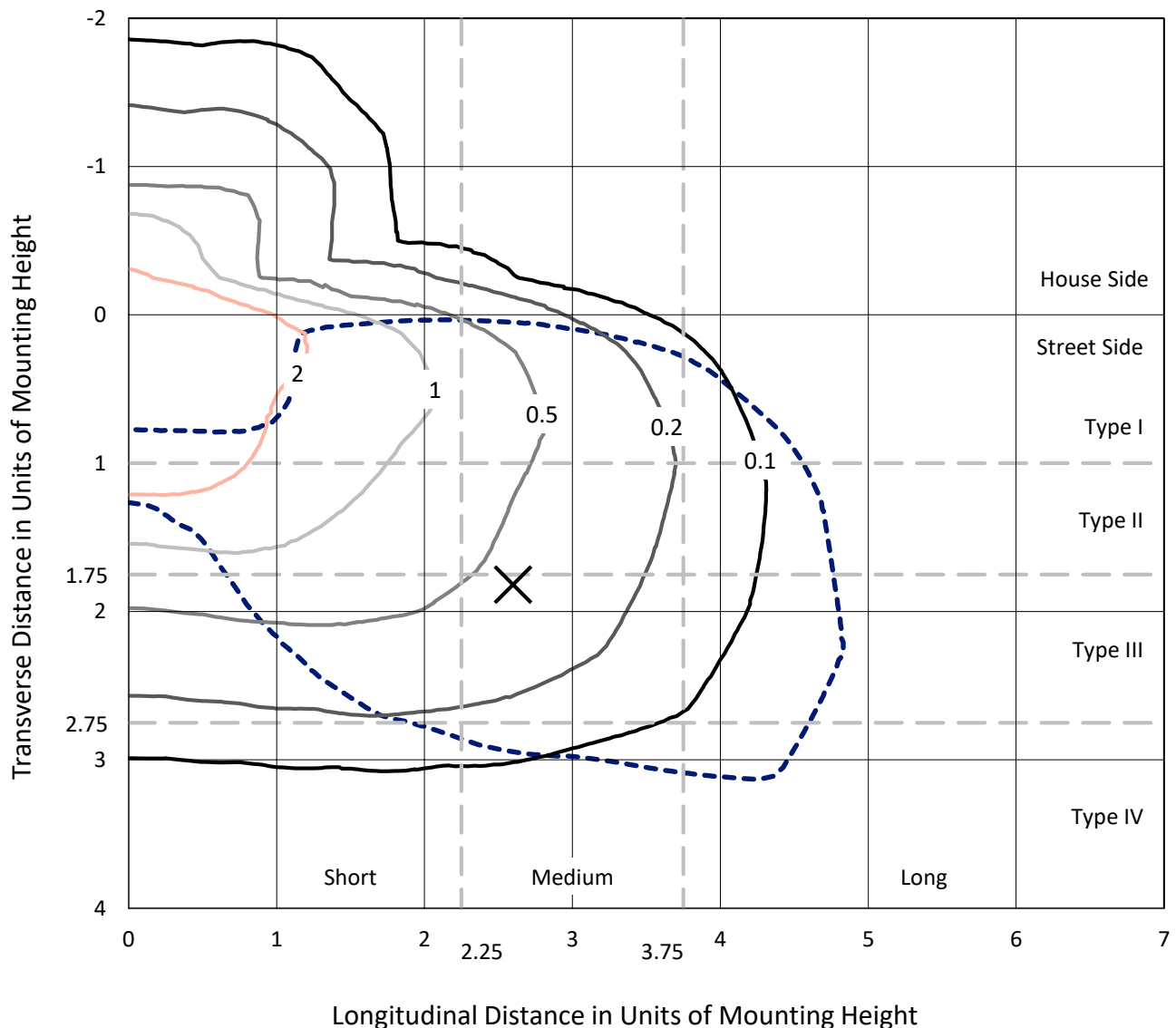


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Iso-Footcandle Lines of Horizontal Illumination

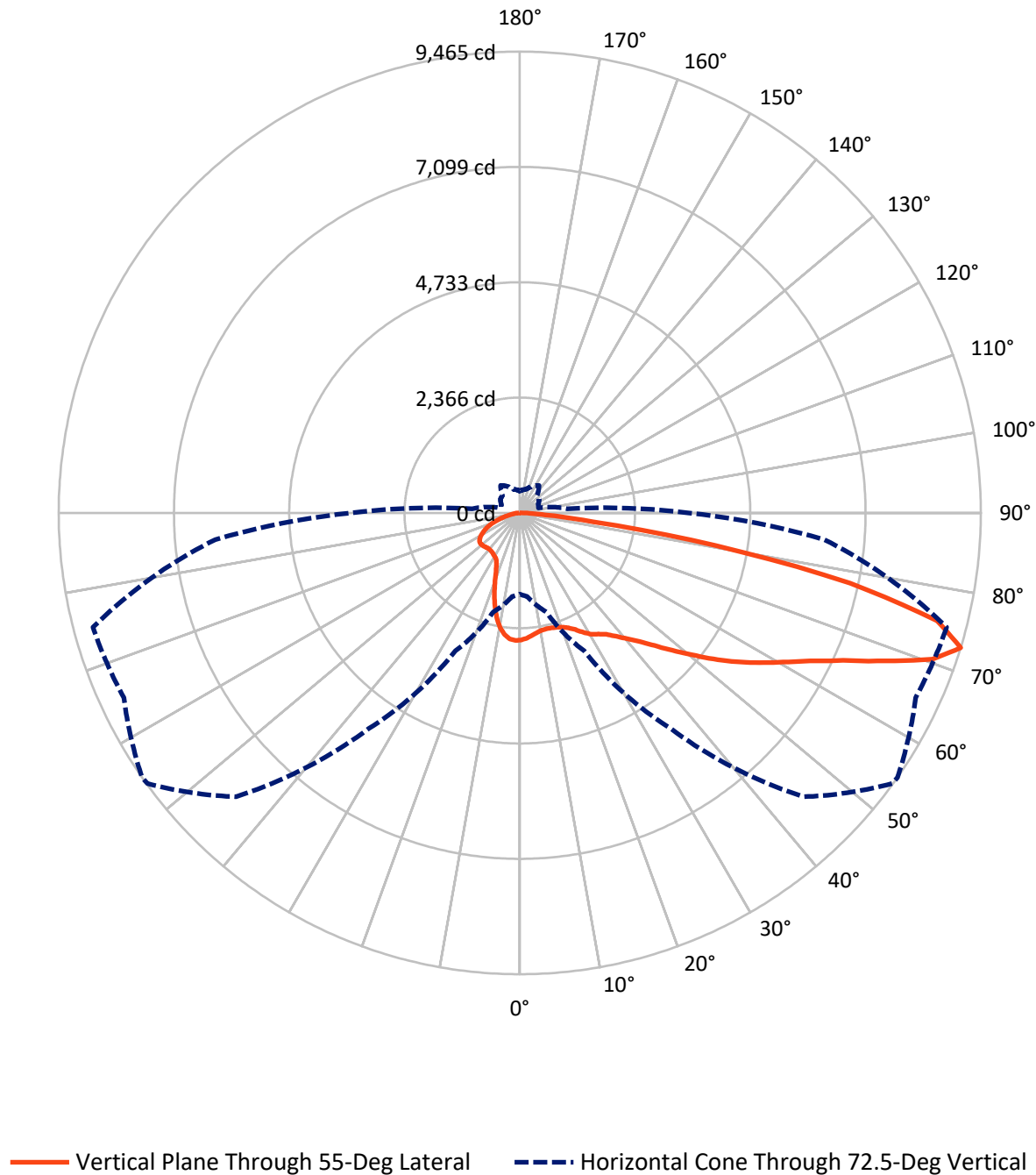
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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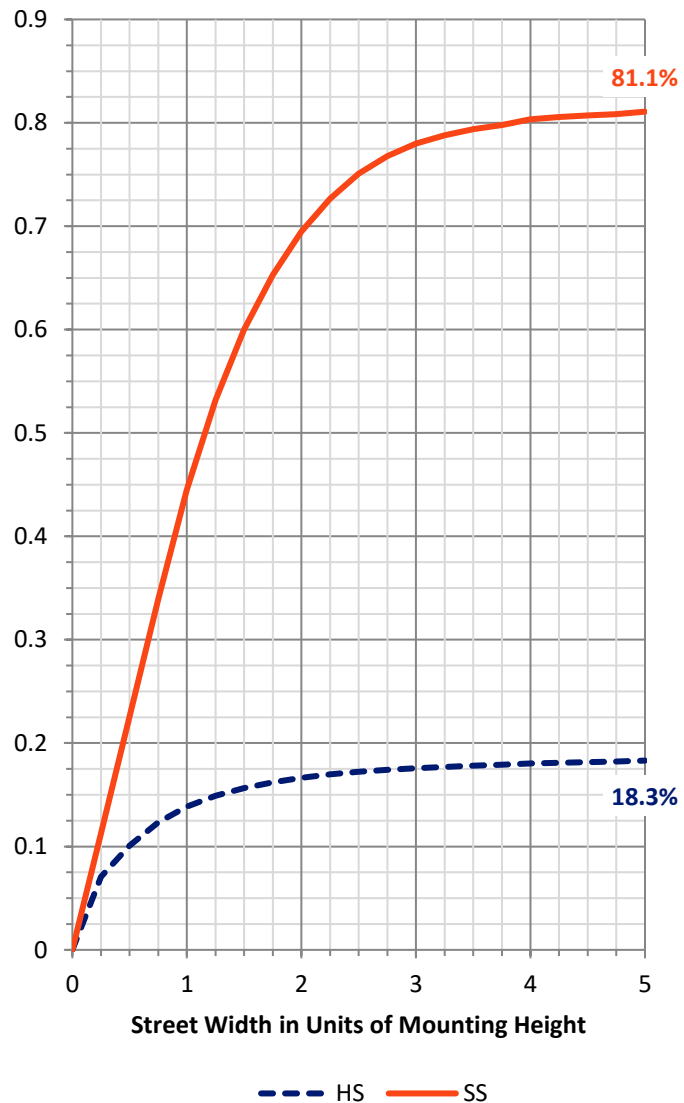
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2750.3	0.0	2750.3
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	12046.7	0.0	12046.7
	% Fixture	81.4	0.0	81.4
Total	Lumens	14797.0	0.0	14797.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.2	1.6
10°-20°	628.8	4.2
20°-30°	1036.7	7.0
30°-40°	1533.5	10.4
40°-50°	2140.4	14.5
50°-60°	2786.9	18.8
60°-70°	3425.0	23.1
70°-80°	2684.8	18.1
80°-90°	324.9	2.2
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°	14797.0	100.0
0°-180°	14797.0	100.0

Coefficient of Utilization



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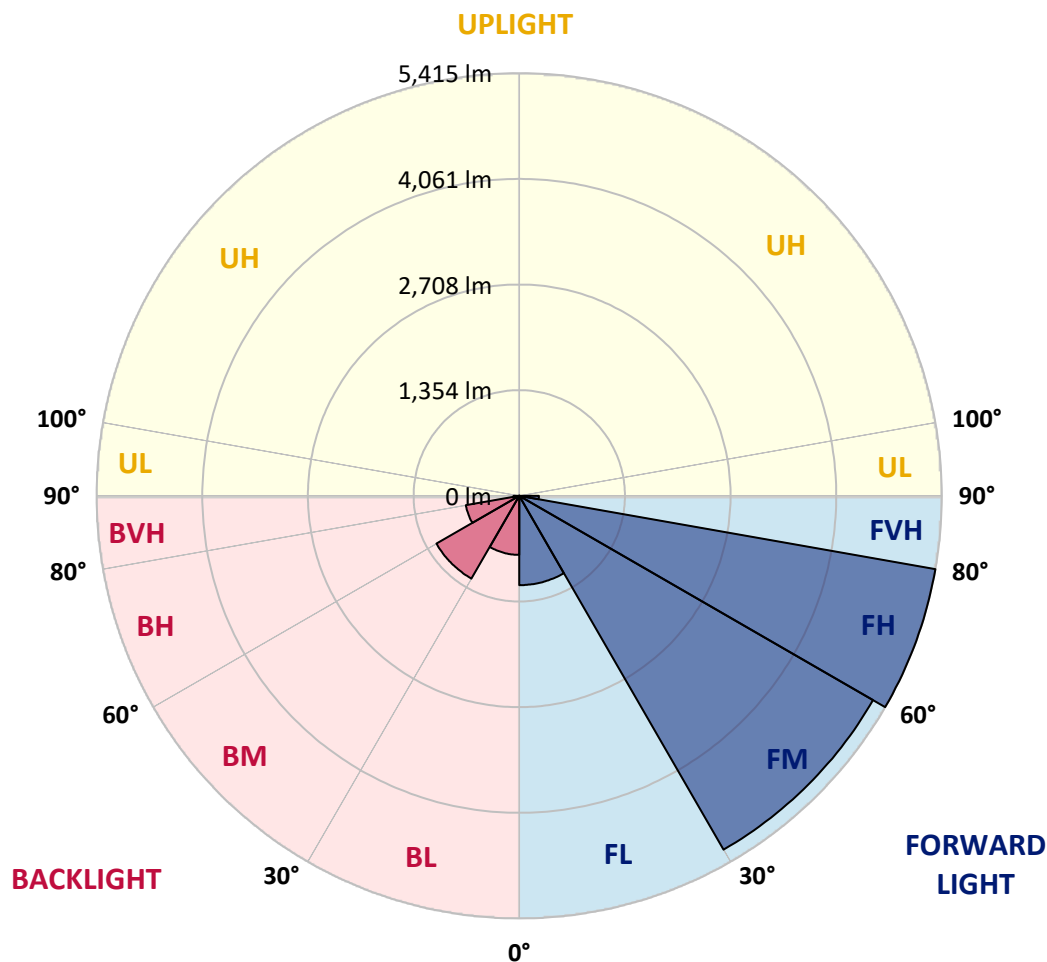
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1144.9	7.7			
FM	(30°-60°)	5235.5	35.4			
FH	(60°-80°)	5415.2	36.6			G3/7500
FVH	(80°-90°)	251.2	1.7			G3/500
BL	(0°-30°)	756.7	5.1	B2/1000		
BM	(30°-60°)	1225.3	8.3	B2/2500		
BH	(60°-80°)	694.6	4.7	B2/1000		G2/1000
BVH	(80°-90°)	73.7	0.5			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 IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2609.9	2609.9	2609.9	2609.9	2609.9	2609.9	2609.9	2609.9	2609.9	2609.9	2609.9
2.5°	2524.9	2518.9	2526.4	2536.9	2548.4	2563.9	2572.9	2576.9	2592.4	2598.4	2611.4
5°	2408.0	2405.0	2417.5	2435.4	2460.9	2496.9	2525.9	2531.4	2572.4	2601.4	2627.9
7.5°	2323.0	2323.0	2337.5	2359.0	2387.5	2435.9	2476.9	2484.4	2553.9	2616.4	2665.3
10°	2255.5	2258.0	2275.0	2300.5	2334.0	2385.5	2439.9	2448.4	2548.9	2651.4	2729.3
12.5°	2210.5	2216.5	2232.0	2255.0	2296.5	2359.0	2428.0	2439.4	2559.4	2701.3	2806.3
15°	2239.0	2249.0	2250.5	2260.0	2283.0	2351.0	2434.9	2446.9	2581.9	2752.3	2893.7
17.5°	2364.0	2367.5	2352.0	2332.0	2321.0	2364.5	2455.9	2468.4	2608.9	2802.8	2977.7
20°	2553.9	2551.9	2518.4	2464.4	2408.5	2415.5	2490.4	2503.4	2645.4	2847.3	3061.7
22.5°	2793.8	2786.8	2735.3	2635.9	2540.4	2500.4	2550.9	2561.9	2700.3	2910.7	3151.6
25°	3084.7	3069.2	3001.2	2867.8	2727.3	2624.4	2641.9	2652.4	2780.3	2981.7	3234.1
27.5°	3391.5	3376.0	3289.6	3128.1	2941.2	2780.8	2767.3	2776.3	2871.3	3034.2	3295.1
30°	3712.4	3695.9	3616.9	3436.0	3168.1	2942.7	2884.3	2887.8	2935.2	3062.7	3345.1
32.5°	4034.8	4019.3	3930.8	3720.9	3414.5	3116.7	2968.7	2964.2	2973.7	3092.2	3401.5
35°	4361.6	4367.6	4264.2	4031.8	3687.4	3310.1	3068.7	3059.2	3038.2	3152.6	3481.5
37.5°	4711.5	4707.5	4573.5	4330.6	3972.8	3520.0	3212.1	3210.6	3138.1	3267.1	3606.9
40°	4945.4	4947.9	4866.4	4636.5	4261.2	3752.4	3396.0	3392.5	3297.6	3438.5	3771.4
42.5°	5036.8	5053.3	5074.3	4928.4	4563.0	4021.8	3615.4	3610.4	3520.0	3684.4	3964.8
45°	5043.3	5076.3	5206.3	5187.8	4868.9	4330.1	3895.8	3881.8	3816.9	4011.3	4195.7
47.5°	4987.3	5021.3	5237.2	5342.2	5142.3	4655.5	4223.7	4212.7	4156.7	4420.1	4445.6
50°	4864.9	4897.4	5173.3	5417.7	5367.2	4968.4	4601.5	4572.5	4542.5	4892.4	4731.5
52.5°	4635.5	4698.0	5087.8	5435.7	5501.6	5246.2	4998.8	4979.8	4996.3	5390.7	5017.8
55°	4092.2	4162.2	4867.4	5420.7	5601.1	5479.6	5396.2	5395.2	5480.6	5913.4	5325.2
57.5°	3787.9	3837.3	4418.6	5395.2	5719.0	5711.5	5789.5	5799.0	5965.4	6482.7	5647.1
60°	3615.9	3667.9	4191.2	5300.7	5902.0	6011.4	6190.8	6209.8	6458.2	7112.9	6034.4
62.5°	3459.5	3516.5	4050.3	5108.3	6117.4	6440.2	6671.6	6688.6	6980.0	7760.6	6408.7
65°	3192.1	3256.6	3843.8	4981.8	6313.3	6999.5	7282.9	7294.3	7579.2	8439.4	6695.1
67.5°	2814.3	2873.3	3454.5	4702.5	6458.2	7678.7	8095.5	8102.0	8173.5	8918.6	6841.5
70°	2373.0	2395.5	2899.7	4125.7	6286.8	8313.9	8986.1	8987.6	8715.2	9225.5	6817.6
72.5°	1667.3	1720.3	2105.1	3123.2	5402.7	8236.4	9448.4	9465.4	8967.1	9070.6	6272.8
75°	1022.6	1078.5	1320.4	1892.7	3427.5	6477.7	8729.7	8847.7	8494.8	8087.5	5124.3
77.5°	683.7	704.7	861.6	1103.5	1552.8	3726.9	6711.6	6933.5	7057.0	5898.0	3277.1
80°	381.3	421.3	571.3	685.7	690.7	1480.9	4024.3	4076.2	3926.3	2348.5	1011.1
82.5°	201.9	223.9	381.3	402.8	376.8	495.8	1499.9	1501.4	1254.5	629.7	300.4
85°	156.4	174.9	261.4	245.9	192.4	219.9	494.8	521.8	426.8	257.9	98.0
87.5°	78.0	97.0	177.4	155.9	75.5	63.0	176.9	188.9	168.4	101.0	35.5
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°	2609.9	2609.9	2609.9	2609.9	2609.9	2609.9	2609.9	2609.9	2609.9	2609.9	2609.9
2.5°	2616.4	2620.9	2626.4	2620.4	2618.4	2610.4	2596.9	2593.9	2586.9	2587.4	2591.4
5°	2639.4	2646.9	2643.9	2620.9	2593.4	2554.9	2514.9	2480.9	2458.4	2456.9	2455.4
7.5°	2683.3	2688.3	2664.8	2599.4	2522.4	2433.4	2349.5	2276.0	2231.5	2220.5	2218.0
10°	2752.3	2751.3	2686.8	2554.9	2401.5	2242.5	2107.6	2005.6	1946.2	1928.7	1924.2
12.5°	2829.3	2817.8	2694.3	2473.9	2230.5	2010.1	1839.2	1725.8	1663.8	1643.8	1638.8
15°	2908.7	2880.3	2675.8	2353.0	2020.6	1759.7	1580.3	1475.4	1441.9	1430.9	1428.9
17.5°	2982.7	2927.7	2622.9	2189.1	1781.2	1510.3	1370.4	1328.4	1336.4	1350.9	1351.4
20°	3055.2	2959.7	2537.9	1982.1	1528.8	1304.9	1257.5	1288.4	1326.4	1355.9	1359.9
22.5°	3126.6	2982.2	2428.5	1743.2	1302.9	1189.5	1223.0	1279.4	1322.9	1354.9	1360.4
25°	3186.6	2987.7	2277.5	1488.4	1146.0	1146.0	1206.5	1260.0	1302.9	1334.4	1339.9
27.5°	3208.6	2950.7	2064.6	1252.5	1067.0	1126.0	1183.5	1228.0	1264.5	1297.9	1303.9
30°	3217.1	2882.3	1818.7	1063.0	1034.6	1104.5	1152.5	1190.5	1225.0	1256.5	1262.0
32.5°	3218.6	2799.8	1557.8	955.6	1012.1	1082.0	1114.0	1147.5	1184.5	1197.0	1199.0
35°	3228.1	2702.3	1282.9	900.6	991.1	1061.0	1086.5	1110.5	1050.5	1055.0	1059.0
37.5°	3255.6	2605.9	1053.0	869.6	977.6	1050.0	1080.5	993.6	946.6	935.6	934.1
40°	3307.1	2502.9	882.6	844.6	972.6	1055.5	1042.0	927.6	846.6	786.2	777.2
42.5°	3378.5	2392.0	773.7	828.1	976.1	1082.0	988.6	864.1	729.7	690.7	685.7
45°	3459.0	2275.5	714.7	816.6	988.1	1102.5	977.6	779.7	675.2	645.7	643.2
47.5°	3537.0	2133.1	684.2	811.6	1004.6	1086.0	931.1	753.7	649.2	633.7	635.2
50°	3626.4	2004.6	665.7	806.2	1019.1	1075.5	878.6	740.2	639.2	658.2	678.2
52.5°	3701.9	1871.7	649.2	795.2	1024.6	1057.0	865.1	742.7	639.2	675.7	694.7
55°	3791.4	1771.2	630.2	772.2	1014.1	1004.6	855.6	757.7	646.7	623.7	625.7
57.5°	3906.8	1738.2	609.2	736.2	979.1	928.1	851.1	772.2	642.2	627.7	632.7
60°	4066.7	1773.2	600.7	689.2	924.6	868.1	851.6	764.7	610.7	585.7	586.2
62.5°	4219.2	1812.2	600.2	659.7	857.6	814.6	840.1	740.2	594.7	580.2	585.7
65°	4269.2	1772.7	576.3	626.7	782.2	750.7	819.1	714.2	582.7	560.8	559.8
67.5°	4202.2	1650.3	527.8	573.3	695.7	676.2	791.7	683.2	563.8	545.8	542.8
70°	4003.3	1376.9	467.8	502.8	597.2	592.2	748.2	647.2	538.3	522.8	509.8
72.5°	3468.0	981.1	394.3	418.3	486.3	502.3	688.2	600.2	502.3	468.8	448.8
75°	2848.3	726.2	323.9	328.9	369.3	412.8	605.7	545.3	459.8	402.8	387.3
77.5°	1744.2	444.3	257.9	259.9	264.9	329.4	498.8	483.8	405.8	335.9	324.9
80°	564.8	242.4	186.4	195.9	180.9	241.4	385.8	411.8	348.3	280.9	268.9
82.5°	214.9	141.4	125.9	132.4	125.4	161.9	281.4	329.9	285.4	230.9	187.9
85°	104.0	80.0	74.5	83.5	77.5	83.0	179.9	242.9	216.4	150.4	139.9
87.5°	37.0	35.5	28.5	38.5	33.0	29.5	55.0	122.4	142.9	103.5	92.5
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)