

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: P317868

Luminaire Tested: **GAN-SA4A-827-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317868
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-SA4A-827-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14129 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

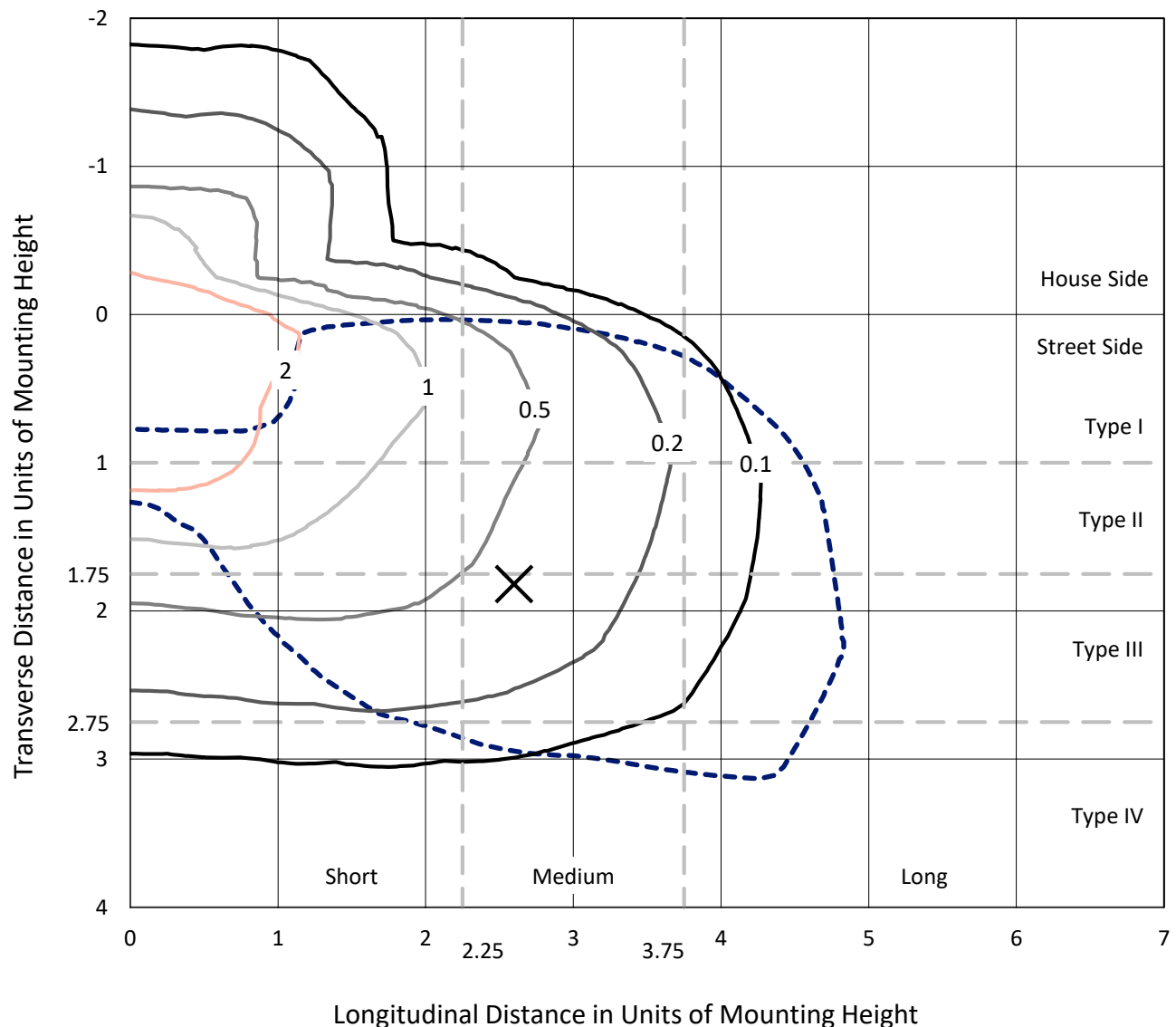
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

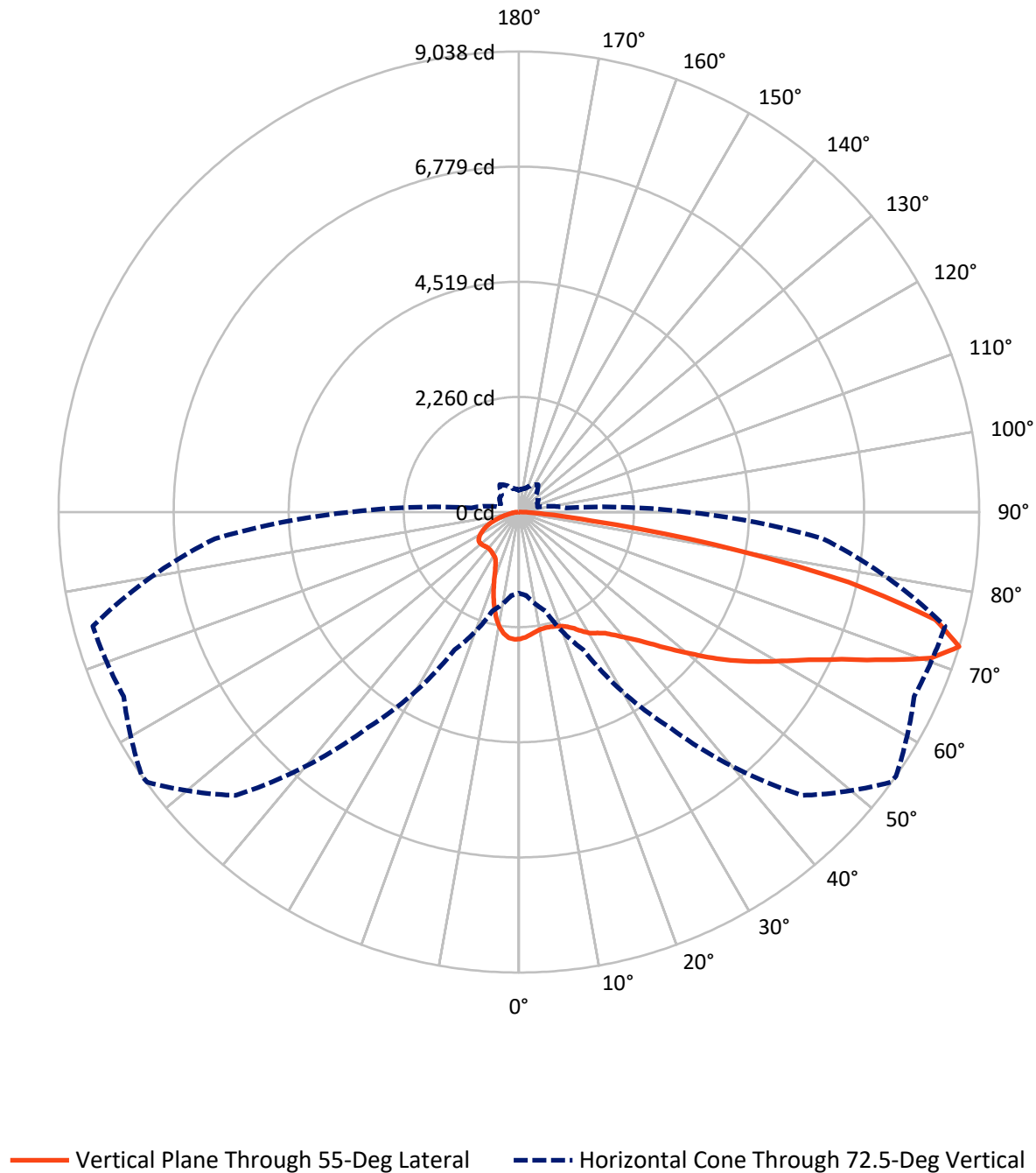
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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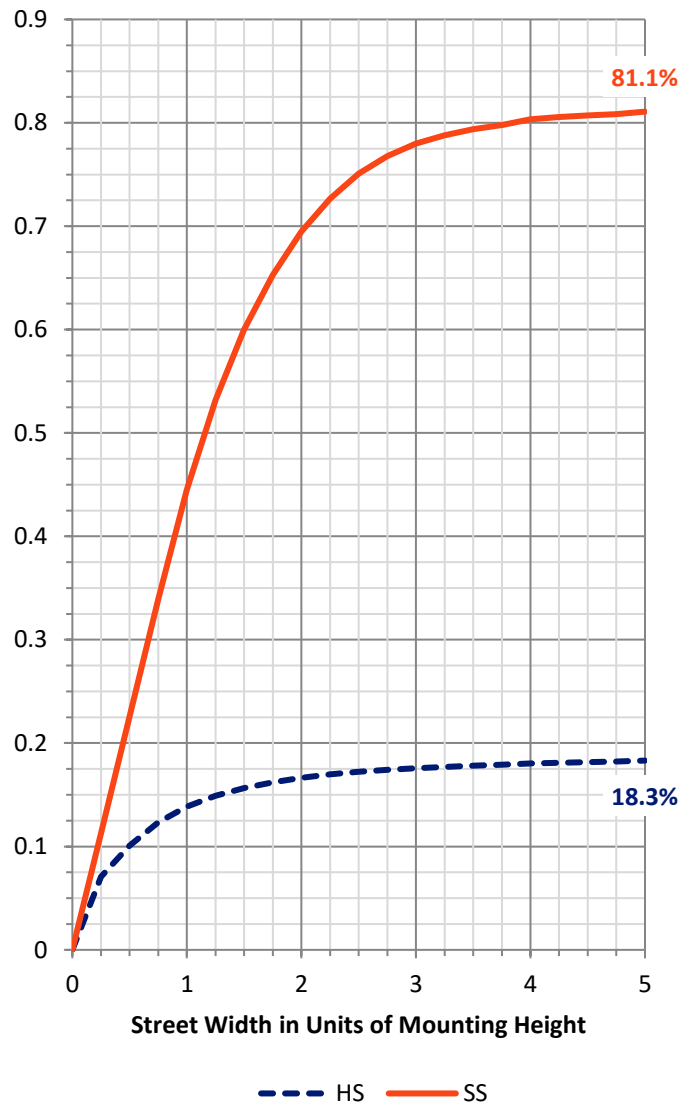
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2626.1	0.0	2626.1
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	11502.9	0.0	11502.9
	% Fixture	81.4	0.0	81.4
Total	Lumens	14129.0	0.0	14129.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.5	1.6
10°-20°	600.4	4.2
20°-30°	989.9	7.0
30°-40°	1464.2	10.4
40°-50°	2043.8	14.5
50°-60°	2661.1	18.8
60°-70°	3270.4	23.1
70°-80°	2563.6	18.1
80°-90°	310.2	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°	14129.0	100.0
0°-180°	14129.0	100.0

Coefficient of Utilization



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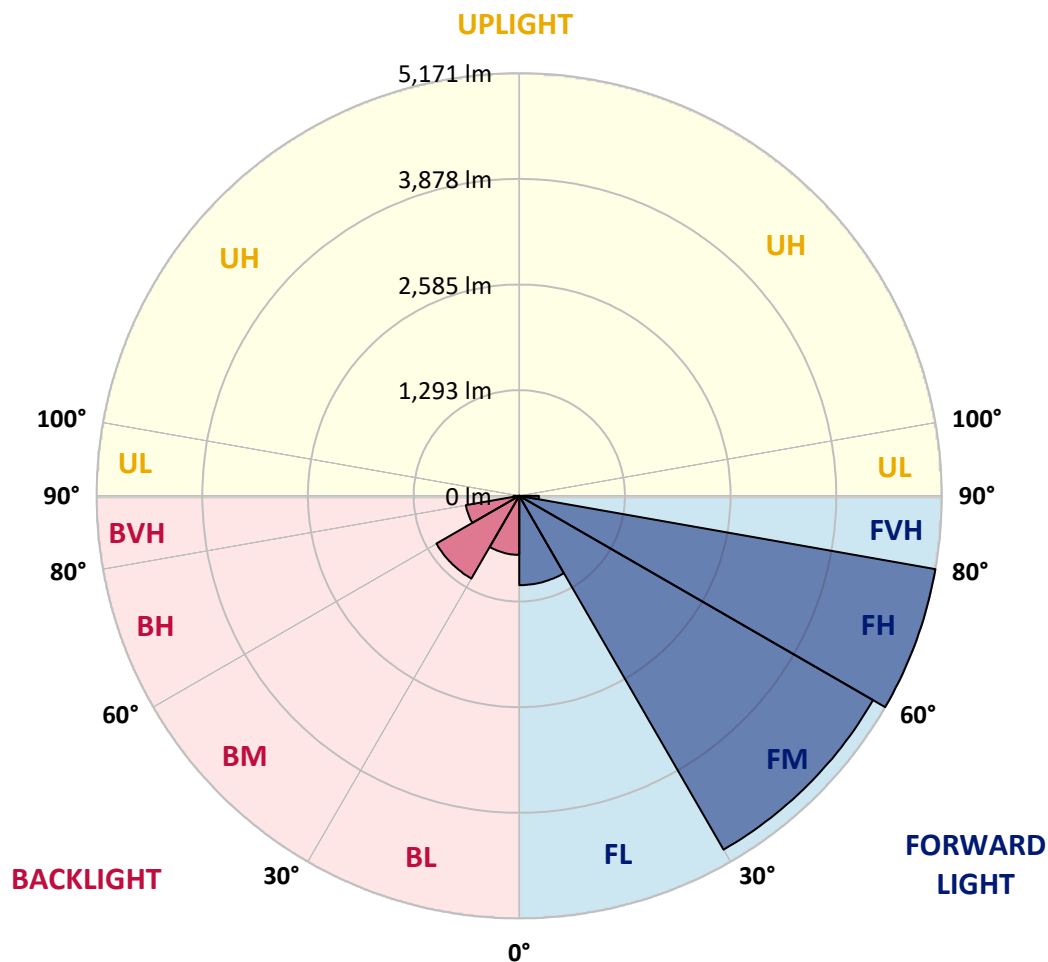
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1093.2	7.7			
FM	(30°-60°)	4999.1	35.4			
FH	(60°-80°)	5170.7	36.6			G3/7500
FVH	(80°-90°)	239.8	1.7			G3/500
BL	(0°-30°)	722.6	5.1	B2/1000		
BM	(30°-60°)	1170.0	8.3	B2/2500		
BH	(60°-80°)	663.2	4.7	B2/1000		G2/1000
BVH	(80°-90°)	70.4	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°	2492.1	2492.1	2492.1	2492.1	2492.1	2492.1	2492.1	2492.1	2492.1	2492.1	2492.1
2.5°	2410.9	2405.2	2412.4	2422.4	2433.4	2448.1	2456.7	2460.6	2475.3	2481.1	2493.5
5°	2299.3	2296.4	2308.3	2325.5	2349.8	2384.2	2411.9	2417.1	2456.3	2483.9	2509.2
7.5°	2218.1	2218.1	2232.0	2252.5	2279.7	2326.0	2365.1	2372.3	2438.6	2498.3	2545.0
10°	2153.7	2156.1	2172.3	2196.7	2228.6	2277.8	2329.8	2337.9	2433.8	2531.7	2606.1
12.5°	2110.8	2116.5	2131.3	2153.2	2192.8	2252.5	2318.3	2329.3	2443.9	2579.4	2679.6
15°	2138.0	2147.5	2148.9	2158.0	2179.9	2244.9	2325.0	2336.5	2465.3	2628.1	2763.1
17.5°	2257.3	2260.6	2245.8	2226.7	2216.2	2257.7	2345.1	2357.0	2491.1	2676.3	2843.3
20°	2438.6	2436.7	2404.7	2353.2	2299.7	2306.4	2378.0	2390.4	2525.9	2718.7	2923.5
22.5°	2667.7	2661.0	2611.8	2516.9	2425.7	2387.5	2435.7	2446.2	2578.4	2779.3	3009.4
25°	2945.4	2930.6	2865.7	2738.3	2604.2	2505.9	2522.6	2532.6	2654.8	2847.1	3088.1
27.5°	3238.4	3223.6	3141.1	2986.9	2808.4	2655.3	2642.4	2651.0	2741.6	2897.2	3146.3
30°	3544.8	3529.1	3453.7	3280.9	3025.1	2809.9	2754.0	2757.4	2802.7	2924.4	3194.0
32.5°	3852.6	3837.8	3753.3	3552.9	3260.4	2976.0	2834.7	2830.4	2839.5	2952.6	3248.0
35°	4164.7	4170.4	4071.7	3849.7	3520.9	3160.6	2930.1	2921.1	2901.0	3010.3	3324.3
37.5°	4498.8	4495.0	4367.1	4135.1	3793.4	3361.1	3067.1	3065.7	2996.5	3119.6	3444.1
40°	4722.1	4724.5	4646.7	4427.2	4068.8	3583.0	3242.7	3239.4	3148.7	3283.3	3601.1
42.5°	4809.4	4825.2	4845.2	4705.9	4357.0	3840.2	3452.2	3447.4	3361.1	3518.1	3785.8
45°	4815.6	4847.1	4971.2	4953.6	4649.1	4134.6	3719.9	3706.6	3644.5	3830.2	4006.3
47.5°	4762.2	4794.6	5000.8	5101.0	4910.1	4445.3	4033.0	4022.5	3969.1	4220.5	4244.9
50°	4645.3	4676.3	4939.7	5173.1	5124.9	4744.1	4393.8	4366.1	4337.5	4671.5	4517.9
52.5°	4426.2	4485.9	4858.1	5190.3	5253.3	5009.4	4773.2	4755.0	4770.8	5147.3	4791.3
55°	3907.5	3974.3	4647.7	5175.9	5348.2	5232.3	5152.6	5151.6	5233.2	5646.5	5084.8
57.5°	3616.9	3664.1	4219.1	5151.6	5460.8	5453.7	5528.1	5537.2	5696.1	6190.0	5392.1
60°	3452.7	3502.3	4002.0	5061.4	5635.5	5740.0	5911.3	5929.5	6166.7	6791.8	5762.0
62.5°	3303.3	3357.7	3867.4	4877.7	5841.2	6149.5	6370.4	6386.7	6664.9	7410.3	6119.4
65°	3048.0	3109.6	3670.3	4756.9	6028.3	6683.5	6954.1	6965.1	7237.1	8058.4	6392.9
67.5°	2687.2	2743.5	3298.6	4490.2	6166.7	7332.0	7730.0	7736.2	7804.5	8516.0	6532.7
70°	2265.8	2287.3	2768.8	3939.5	6003.0	7938.6	8580.4	8581.9	8321.8	8809.0	6509.8
72.5°	1592.0	1642.6	2010.1	2982.2	5158.8	7864.6	9021.9	9038.1	8562.3	8661.1	5989.6
75°	976.4	1029.8	1260.8	1807.2	3272.8	6185.3	8335.6	8448.3	8111.3	7722.4	4893.0
77.5°	652.8	672.9	822.7	1053.7	1482.7	3558.6	6408.6	6620.5	6738.4	5631.7	3129.1
80°	364.1	402.3	545.5	654.7	659.5	1414.0	3842.6	3892.2	3749.1	2242.5	965.4
82.5°	192.8	213.8	364.1	384.6	359.8	473.4	1432.1	1433.6	1197.8	601.3	286.8
85°	149.4	167.0	249.6	234.8	183.7	210.0	472.4	498.2	407.5	246.2	93.5
87.5°	74.4	92.6	169.4	148.9	72.1	60.1	168.9	180.4	160.8	96.4	33.9
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°	2492.1	2492.1	2492.1	2492.1	2492.1	2492.1	2492.1	2492.1	2492.1	2492.1	2492.1
2.5°	2498.3	2502.6	2507.8	2502.1	2500.2	2492.5	2479.6	2476.8	2470.1	2470.6	2474.4
5°	2520.2	2527.4	2524.5	2502.6	2476.3	2439.6	2401.4	2368.9	2347.5	2346.0	2344.6
7.5°	2562.2	2567.0	2544.5	2482.0	2408.5	2323.6	2243.4	2173.3	2130.8	2120.3	2117.9
10°	2628.1	2627.1	2565.5	2439.6	2293.1	2141.3	2012.4	1915.1	1858.3	1841.6	1837.3
12.5°	2701.6	2690.6	2572.7	2362.2	2129.8	1919.4	1756.2	1647.8	1588.7	1569.6	1564.8
15°	2777.4	2750.2	2555.0	2246.8	1929.4	1680.3	1509.0	1408.8	1376.8	1366.3	1364.4
17.5°	2848.1	2795.6	2504.5	2090.2	1700.8	1442.2	1308.5	1268.5	1276.1	1289.9	1290.4
20°	2917.3	2826.1	2423.3	1892.7	1459.8	1246.0	1200.7	1230.3	1266.5	1294.7	1298.5
22.5°	2985.5	2847.6	2318.8	1664.5	1244.1	1135.8	1167.8	1221.7	1263.2	1293.7	1299.0
25°	3042.8	2852.8	2174.7	1421.2	1094.3	1094.3	1152.0	1203.1	1244.1	1274.2	1279.4
27.5°	3063.8	2817.5	1971.4	1195.9	1018.9	1075.2	1130.1	1172.5	1207.4	1239.3	1245.1
30°	3071.9	2752.1	1736.6	1015.1	987.8	1054.7	1100.5	1136.7	1169.7	1199.7	1205.0
32.5°	3073.3	2673.4	1487.5	912.4	966.4	1033.2	1063.7	1095.7	1131.0	1142.9	1144.9
35°	3082.4	2580.3	1225.0	860.0	946.3	1013.1	1037.5	1060.4	1003.1	1007.4	1011.2
37.5°	3108.6	2488.2	1005.5	830.4	933.4	1002.6	1031.8	948.7	903.9	893.4	891.9
40°	3157.8	2389.9	842.8	806.5	928.7	1007.9	995.0	885.7	808.4	750.7	742.1
42.5°	3226.0	2284.0	738.7	790.8	932.0	1033.2	943.9	825.1	696.7	659.5	654.7
45°	3302.9	2172.8	682.4	779.8	943.5	1052.8	933.4	744.5	644.7	616.6	614.2
47.5°	3377.3	2036.8	653.3	775.0	959.2	1037.0	889.1	719.7	619.9	605.1	606.5
50°	3462.7	1914.1	635.7	769.8	973.1	1027.0	839.0	706.8	610.4	628.5	647.6
52.5°	3534.8	1787.2	619.9	759.3	978.3	1009.3	826.1	709.2	610.4	645.2	663.3
55°	3620.2	1691.3	601.8	737.3	968.3	959.2	817.0	723.5	617.5	595.6	597.5
57.5°	3730.4	1659.8	581.7	702.9	934.9	886.2	812.7	737.3	613.2	599.4	604.2
60°	3883.2	1693.2	573.6	658.1	882.9	828.9	813.2	730.1	583.2	559.3	559.8
62.5°	4028.7	1730.4	573.1	629.9	818.9	777.9	802.2	706.8	567.9	554.1	559.3
65°	4076.4	1692.7	550.2	598.4	746.9	716.8	782.2	681.9	556.4	535.4	534.5
67.5°	4012.5	1575.8	503.9	547.4	664.3	645.7	755.9	652.4	538.3	521.1	518.3
70°	3822.5	1314.7	446.7	480.1	570.3	565.5	714.4	618.0	514.0	499.2	486.8
72.5°	3311.4	936.8	376.5	399.4	464.3	479.6	657.1	573.1	479.6	447.6	428.5
75°	2719.7	693.4	309.2	314.0	352.7	394.2	578.4	520.6	439.0	384.6	369.8
77.5°	1665.5	424.3	246.2	248.2	252.9	314.5	476.3	462.0	387.5	320.7	310.2
80°	539.3	231.5	178.0	187.1	172.8	230.5	368.4	393.2	332.6	268.2	256.7
82.5°	205.2	135.1	120.3	126.5	119.8	154.6	268.7	315.0	272.5	220.5	179.4
85°	99.3	76.4	71.1	79.7	74.0	79.2	171.8	231.9	206.6	143.6	133.6
87.5°	35.3	33.9	27.2	36.7	31.5	28.2	52.5	116.9	136.5	98.8	88.3
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)