

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: P318857

Luminaire Tested: **GAN-SA3D-827-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318857
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3D-827-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17519 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

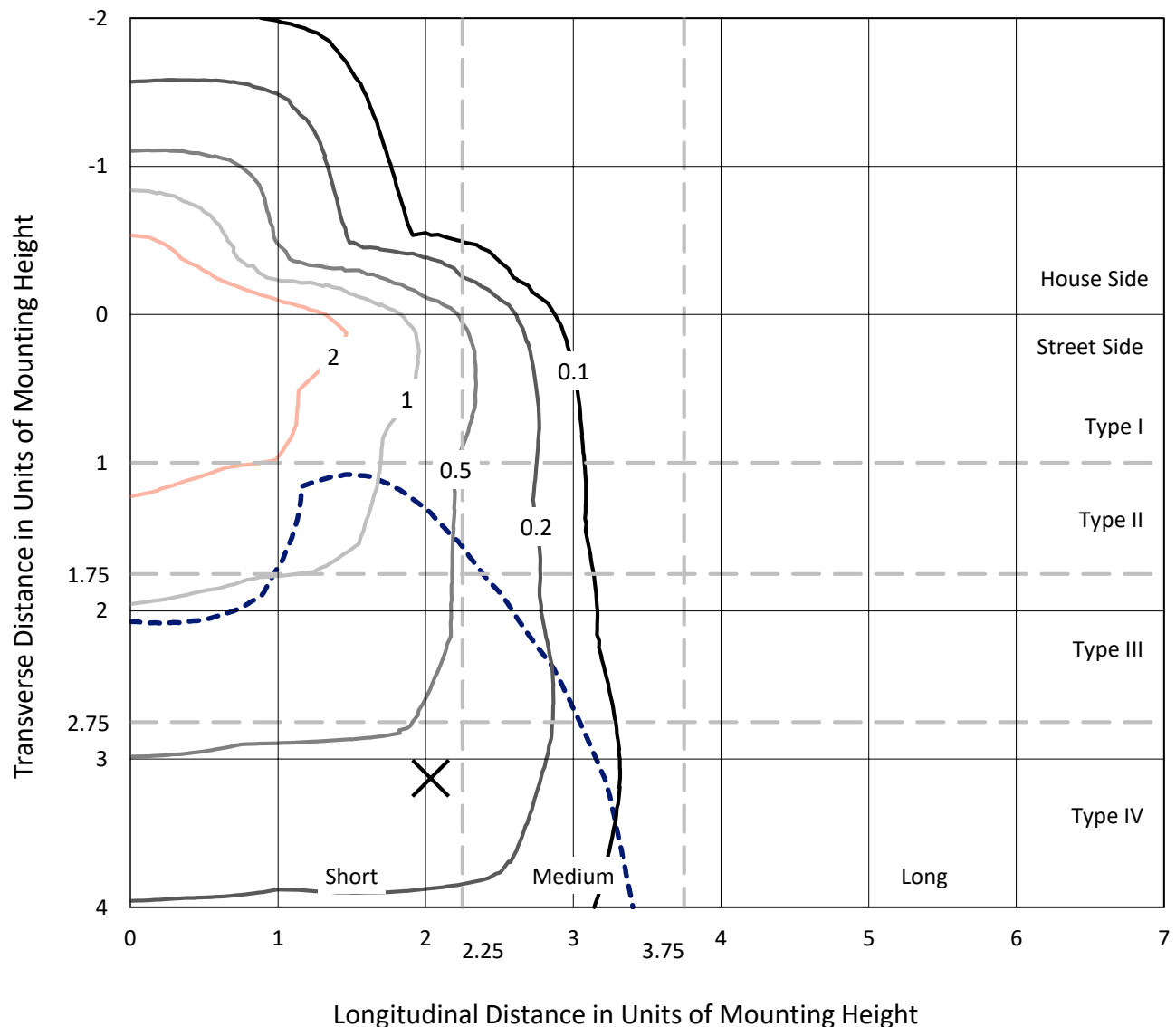
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

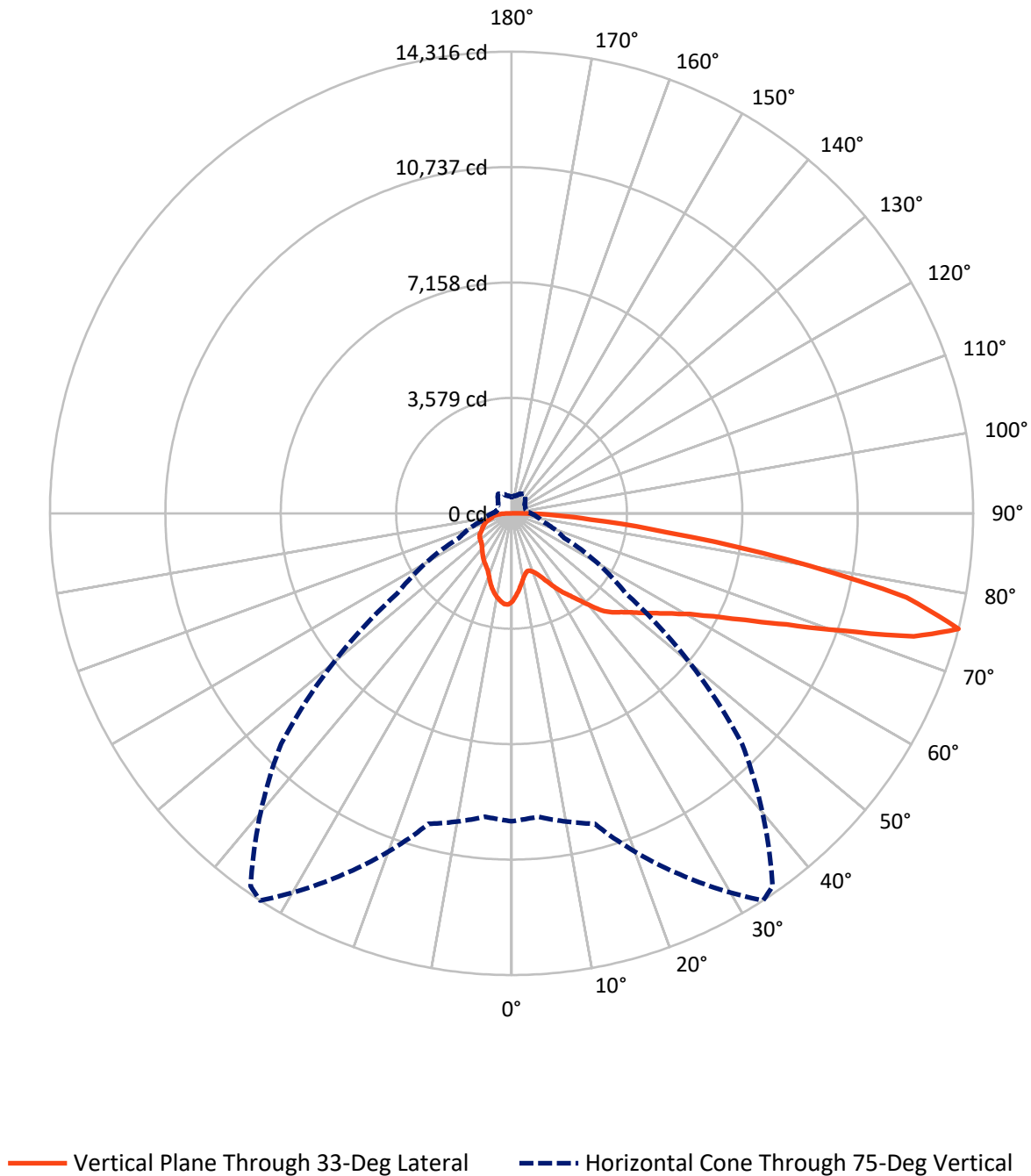
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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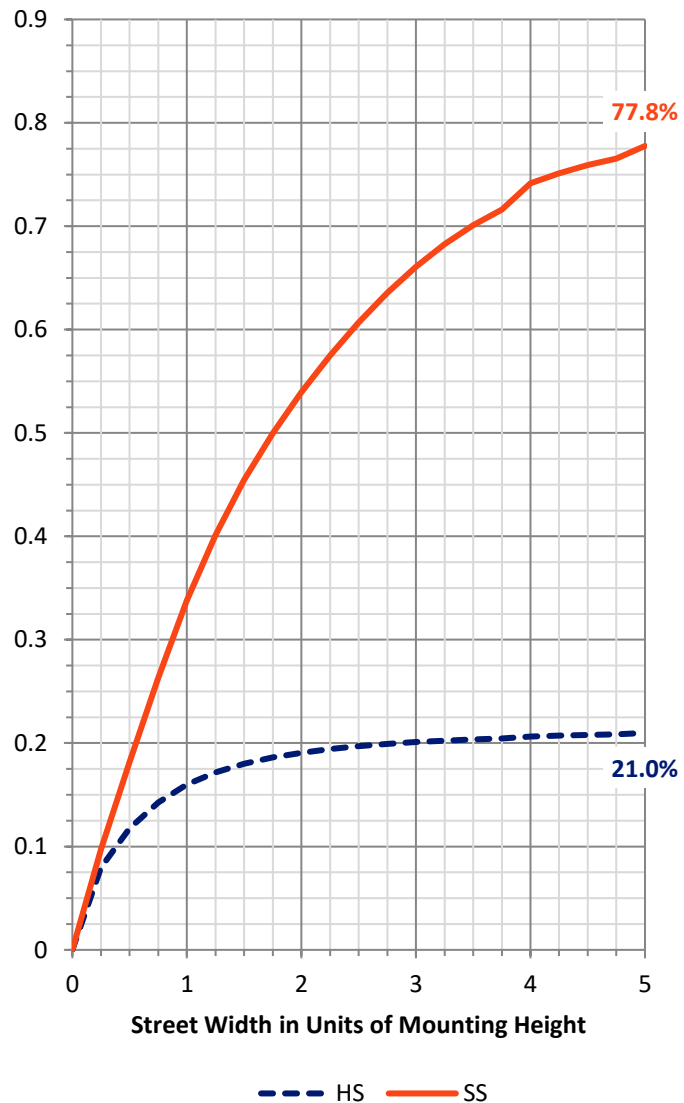
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3761.8	0.0	3761.8
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	13757.2	0.0	13757.2
	% Fixture	78.5	0.0	78.5
Total	Lumens	17519.0	0.0	17519.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.6	1.4
10°-20°	670.7	3.8
20°-30°	1095.4	6.3
30°-40°	1631.3	9.3
40°-50°	2339.7	13.4
50°-60°	3212.1	18.3
60°-70°	4021.4	23.0
70°-80°	3638.0	20.8
80°-90°	662.7	3.8
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°	17519.0	100.0
0°-180°	17519.0	100.0

Coefficient of Utilization



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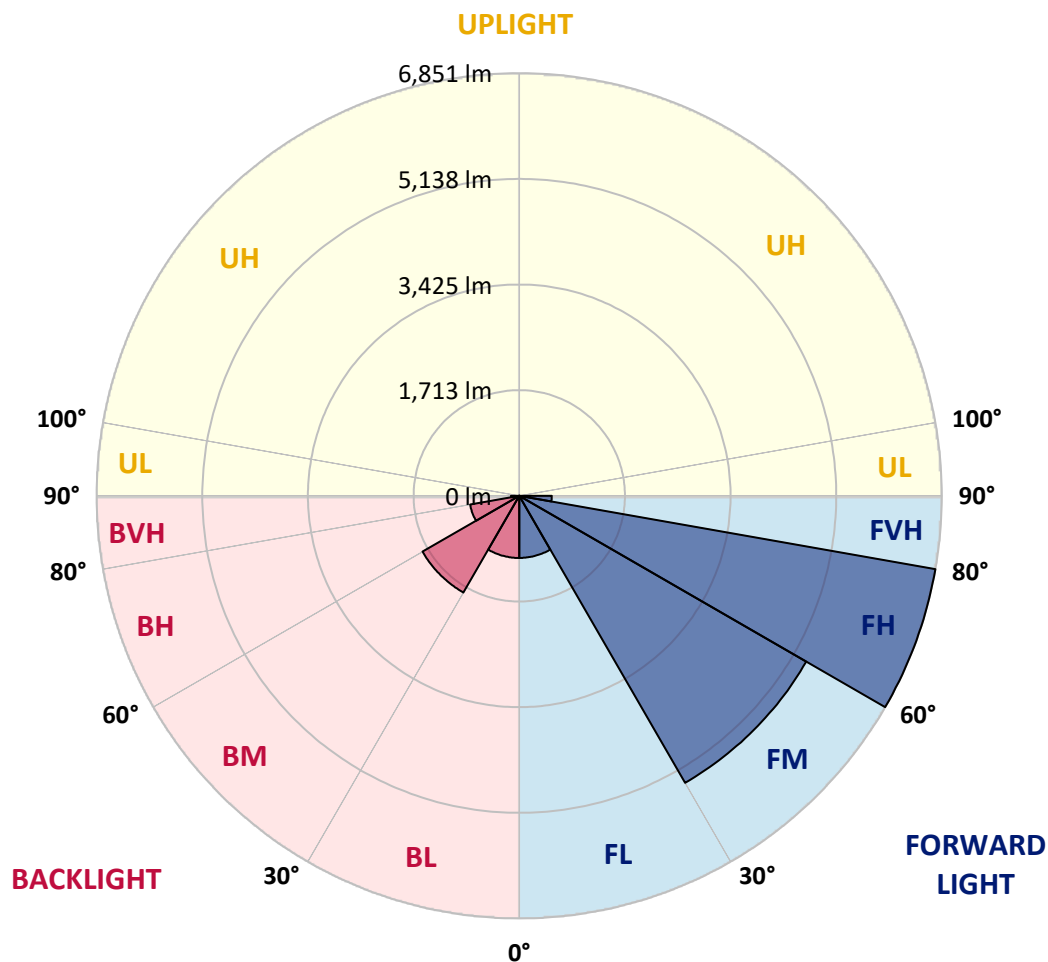
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1006.2	5.7			
FM	(30°-60°)	5372.7	30.7			
FH	(60°-80°)	6850.5	39.1			G3/7500
FVH	(80°-90°)	527.8	3.0			G4/750
BL	(0°-30°)	1007.6	5.8	B3/2500		
BM	(30°-60°)	1810.4	10.3	B2/2500		
BH	(60°-80°)	808.9	4.6	B2/1000		G2/1000
BVH	(80°-90°)	134.9	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	2738.3	2738.3	2738.3	2738.3	2738.3	2738.3	2738.3	2738.3	2738.3	2738.3	2738.3
2.5°	2542.9	2533.2	2551.3	2553.7	2569.5	2575.5	2597.3	2631.2	2659.0	2691.1	2720.2
5°	2312.3	2305.6	2331.0	2349.2	2383.7	2398.2	2449.7	2521.7	2585.8	2658.4	2724.4
7.5°	2093.2	2089.6	2118.0	2159.2	2199.1	2219.1	2308.1	2412.7	2519.9	2637.3	2738.3
10°	1908.7	1907.4	1934.7	1975.2	2033.9	2056.3	2171.3	2309.3	2459.3	2620.9	2761.9
12.5°	1805.2	1809.4	1822.1	1856.0	1910.5	1932.9	2060.5	2222.7	2408.5	2615.5	2796.4
15°	1830.6	1837.2	1815.5	1814.2	1853.0	1870.5	1990.3	2161.0	2372.2	2624.5	2846.6
17.5°	1938.9	1940.1	1882.6	1846.3	1869.9	1879.0	1968.6	2125.9	2351.0	2645.1	2909.6
20°	2091.4	2088.4	1986.7	1926.2	1938.9	1941.3	1999.4	2126.5	2349.2	2680.8	2991.3
22.5°	2293.5	2271.1	2134.4	2052.1	2049.0	2045.4	2078.7	2171.3	2375.8	2738.9	3088.7
25°	2557.4	2536.2	2348.0	2235.4	2211.2	2202.2	2207.0	2266.9	2428.5	2801.3	3197.6
27.5°	2850.9	2814.0	2632.4	2473.3	2423.0	2410.3	2381.3	2401.9	2486.0	2861.2	3327.1
30°	3096.6	3076.6	2918.0	2729.2	2669.9	2651.8	2575.5	2553.1	2568.9	2942.9	3490.5
32.5°	3233.9	3220.6	3124.4	2971.9	2916.8	2891.4	2783.7	2738.9	2702.0	3071.8	3712.0
35°	3400.4	3391.9	3333.8	3223.0	3141.3	3114.7	3031.2	2984.6	2889.6	3249.1	3998.2
37.5°	3612.2	3603.1	3604.3	3514.7	3417.3	3392.5	3337.4	3288.4	3132.9	3482.1	4309.3
40°	3851.8	3834.3	3827.6	3823.4	3761.6	3747.7	3718.7	3652.1	3437.9	3760.4	4616.1
42.5°	4212.5	4150.1	4017.0	4067.2	4128.4	4121.1	4144.7	4049.1	3776.8	4089.6	4915.7
45°	4560.4	4458.2	4228.2	4239.1	4372.8	4413.4	4590.1	4522.3	4144.1	4450.3	5225.5
47.5°	4719.0	4641.5	4446.1	4446.7	4579.2	4663.3	5050.6	5002.2	4530.2	4860.0	5603.7
50°	4896.3	4818.8	4643.3	4709.3	4824.9	4914.4	5495.4	5470.6	4897.5	5308.4	6057.0
52.5°	5089.9	4958.6	4847.3	4965.3	5127.5	5231.5	5940.8	5873.0	5234.6	5759.8	6578.0
55°	5092.4	5056.7	5141.4	5227.9	5470.6	5598.3	6407.4	6228.2	5509.3	6203.4	7002.2
57.5°	5382.2	5324.1	5503.9	5543.8	5860.9	6004.9	6871.5	6537.5	5788.9	6543.5	7231.0
60°	5765.9	5716.3	5863.3	5968.6	6343.8	6536.3	7367.1	6855.2	6008.6	6800.1	7220.1
62.5°	6428.5	6372.3	6370.4	6518.1	7023.4	7247.3	7923.3	7166.8	6095.7	6850.9	6912.1
65°	7398.6	7309.0	7140.2	7210.4	7962.0	8185.3	8544.8	7392.6	5980.7	6578.6	6118.7
67.5°	8342.6	8339.6	8132.0	8276.1	9201.4	9380.5	9252.8	7414.9	5621.9	5630.3	4711.1
70°	9283.7	9295.8	9260.7	9761.7	10875.8	11062.2	10006.8	7114.2	4815.2	4066.0	2822.4
72.5°	10029.2	10026.2	10202.9	11494.9	13048.9	13007.2	10642.2	6202.8	3457.2	2194.9	1348.9
75°	9546.3	9441.0	9967.5	12353.0	14315.5	14111.6	10101.8	4326.8	1794.3	999.1	726.2
77.5°	6226.4	6326.3	7099.1	10204.7	12521.8	12273.7	7411.3	2018.8	845.4	655.4	526.5
80°	2254.8	2360.1	3324.1	5780.4	8627.1	8586.5	3649.7	829.7	571.9	495.0	383.7
82.5°	775.8	814.5	1311.4	2567.1	4870.9	5052.4	1373.1	471.4	415.7	351.0	262.6
85°	304.4	348.6	599.7	1235.1	2456.9	2475.1	556.1	282.0	289.3	230.0	144.0
87.5°	115.6	140.4	286.8	573.7	1122.0	1030.6	199.1	134.3	164.6	136.8	68.4
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°	2738.3	2738.3	2738.3	2738.3	2738.3	2738.3	2738.3	2738.3	2738.3	2738.3	2738.3
2.5°	2742.6	2755.3	2781.9	2800.0	2819.4	2824.9	2827.3	2832.1	2837.0	2835.1	2835.7
5°	2759.5	2784.3	2827.3	2845.4	2853.9	2844.2	2825.5	2810.3	2799.4	2793.4	2791.6
7.5°	2787.3	2822.4	2868.4	2865.4	2846.0	2803.1	2754.7	2718.3	2688.1	2677.2	2671.1
10°	2824.2	2865.4	2897.5	2863.0	2806.7	2732.3	2659.6	2603.4	2558.0	2540.4	2537.4
12.5°	2871.5	2913.2	2919.3	2846.0	2752.8	2651.2	2552.5	2478.1	2410.3	2388.5	2383.7
15°	2932.6	2971.9	2934.4	2816.4	2686.3	2549.5	2421.8	2320.8	2249.4	2222.7	2213.0
17.5°	2996.7	3034.2	2937.4	2767.4	2599.1	2429.1	2268.7	2165.2	2083.5	2052.7	2049.0
20°	3073.6	3090.5	2924.7	2697.2	2479.3	2273.0	2104.1	2006.7	1963.1	1941.3	1938.9
22.5°	3168.6	3150.4	2895.7	2602.2	2327.4	2092.6	1955.2	1909.9	1899.0	1894.1	1895.9
25°	3269.0	3213.4	2852.7	2478.1	2135.6	1912.3	1846.3	1859.0	1873.6	1871.7	1871.7
27.5°	3379.8	3277.5	2786.7	2313.5	1923.2	1764.6	1772.5	1819.1	1840.9	1840.3	1839.7
30°	3522.0	3350.1	2702.6	2115.6	1724.7	1660.5	1708.3	1765.2	1794.9	1793.7	1794.3
32.5°	3696.9	3430.0	2588.2	1894.7	1581.3	1583.7	1638.8	1695.0	1729.5	1726.5	1727.1
35°	3901.4	3519.6	2433.3	1676.9	1486.3	1522.6	1566.1	1605.5	1638.1	1633.9	1629.7
37.5°	4124.1	3607.3	2227.6	1482.0	1408.8	1465.7	1502.0	1508.6	1523.8	1512.9	1505.0
40°	4335.9	3674.5	1962.5	1322.3	1330.7	1417.3	1440.9	1414.2	1387.0	1383.4	1372.5
42.5°	4520.5	3696.9	1694.4	1194.6	1248.4	1366.4	1381.0	1325.3	1276.3	1253.3	1243.6
45°	4715.4	3704.7	1444.5	1087.5	1169.2	1321.0	1336.8	1262.3	1193.4	1143.7	1127.4
47.5°	4970.1	3761.6	1250.2	1008.2	1108.6	1290.8	1313.2	1212.1	1122.6	1051.8	1036.6
50°	5303.6	3874.2	1092.3	947.7	1069.3	1270.8	1296.2	1163.1	1064.5	979.1	964.0
52.5°	5673.9	3977.7	964.6	898.7	1031.2	1235.7	1274.5	1128.0	1010.0	912.0	895.6
55°	5932.9	3898.4	861.7	847.8	981.6	1185.5	1244.2	1098.4	931.9	846.6	832.1
57.5°	5982.5	3627.3	783.7	795.2	921.6	1122.6	1197.6	1032.4	889.6	818.2	803.0
60°	5847.0	3249.7	725.6	746.8	857.5	1043.3	1110.5	985.8	849.0	787.9	775.2
62.5°	5506.3	2863.0	682.6	703.2	797.6	962.8	1056.0	936.8	807.9	753.4	740.7
65°	4818.2	2403.7	641.5	664.5	741.9	893.2	1007.0	891.4	767.3	725.6	713.5
67.5°	3637.0	1800.3	602.7	623.3	692.3	832.7	953.7	846.6	728.0	701.4	686.8
70°	2141.6	1127.4	558.6	580.3	640.3	769.8	896.8	797.6	679.0	666.9	648.1
72.5°	996.7	678.4	508.3	529.5	574.9	685.6	823.6	733.4	620.9	594.3	568.8
75°	594.9	496.2	449.0	467.8	499.9	596.1	731.6	668.1	565.8	530.7	504.1
77.5°	444.8	379.4	383.7	403.6	429.7	521.6	648.1	616.7	523.5	496.2	478.1
80°	320.1	288.1	312.9	334.6	361.9	474.4	620.9	570.1	473.2	436.9	420.0
82.5°	213.6	207.0	235.4	257.8	284.4	415.1	583.4	499.3	404.2	358.3	320.7
85°	118.0	124.7	158.6	168.2	191.2	292.3	478.1	401.2	304.4	245.1	234.2
87.5°	49.0	57.5	85.3	82.3	101.7	174.3	314.7	242.1	193.6	144.6	112.6
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)