

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: P318628

Luminaire Tested: **GAN-SA4A-727-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318628
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-SA4A-727-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 615mA 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: 15815 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

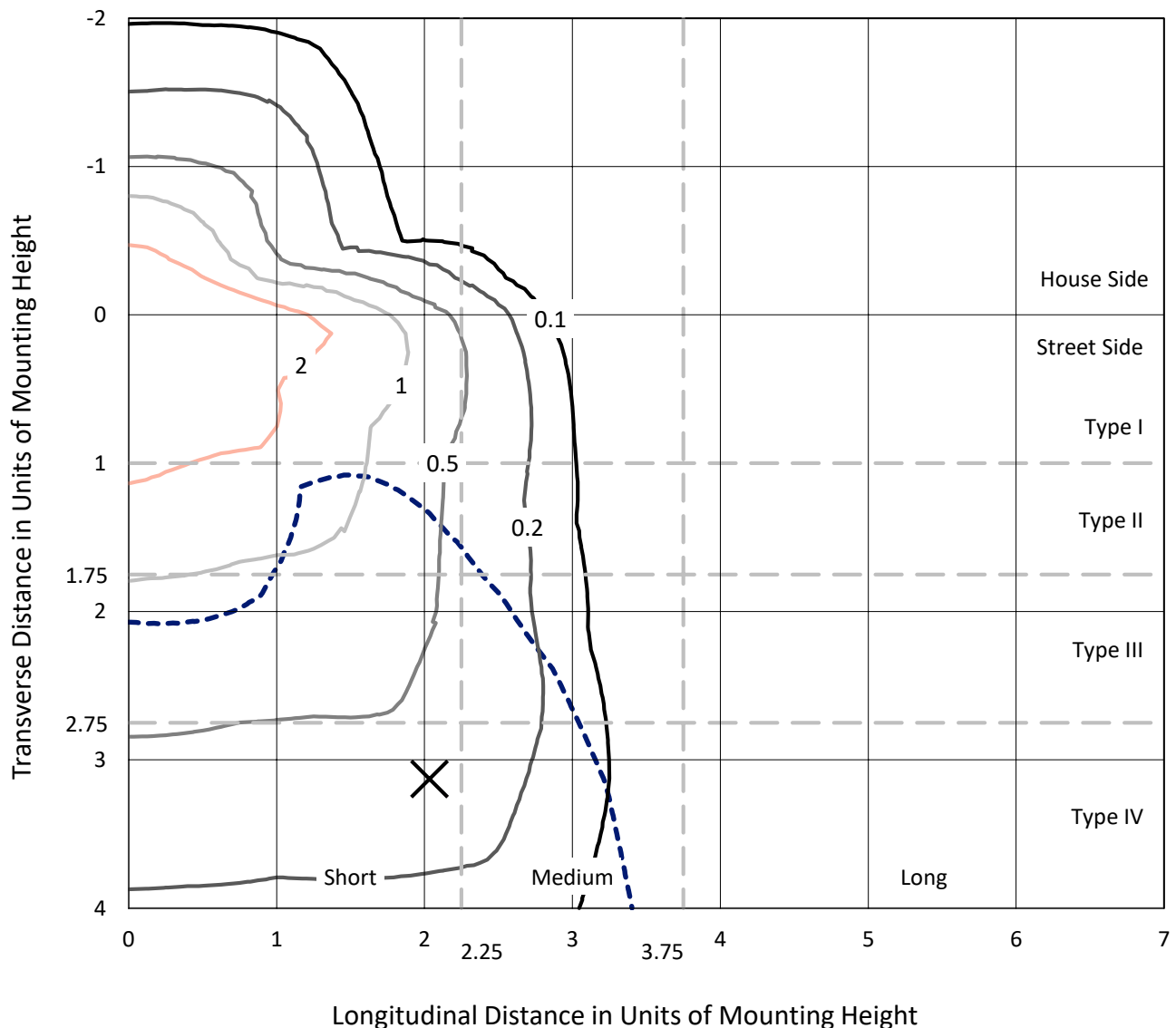
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

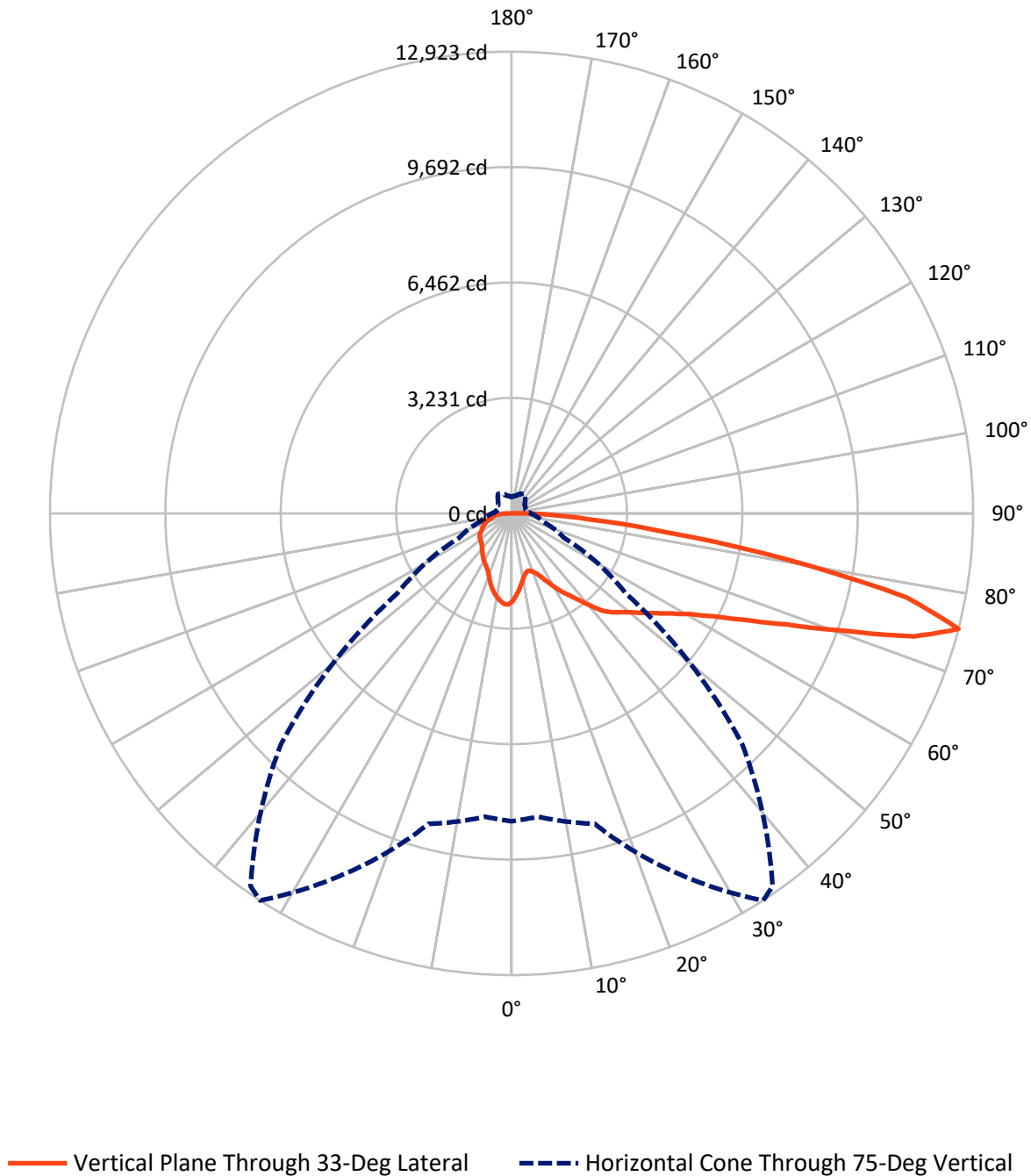
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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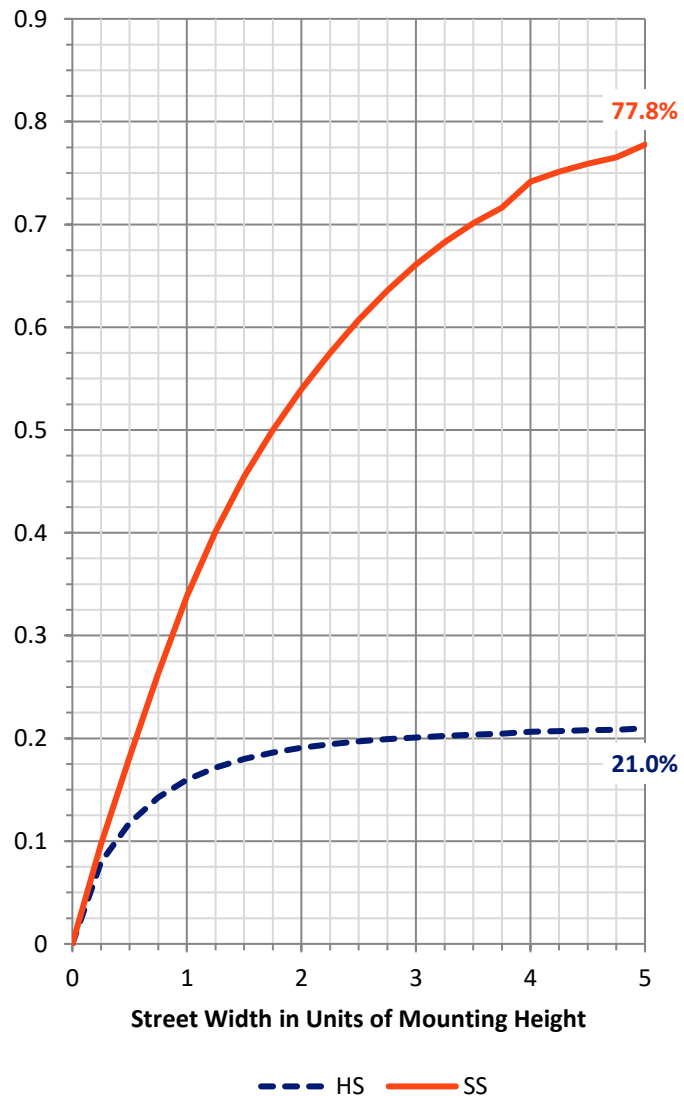
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3395.9	0.0	3395.9
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	12419.1	0.0	12419.1
	% Fixture	78.5	0.0	78.5
Total	Lumens	15815.0	0.0	15815.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.6	1.4
10°-20°	605.5	3.8
20°-30°	988.9	6.3
30°-40°	1472.6	9.3
40°-50°	2112.2	13.4
50°-60°	2899.7	18.3
60°-70°	3630.3	23.0
70°-80°	3284.1	20.8
80°-90°	598.2	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°	15815.0	100.0
0°-180°	15815.0	100.0

Coefficient of Utilization



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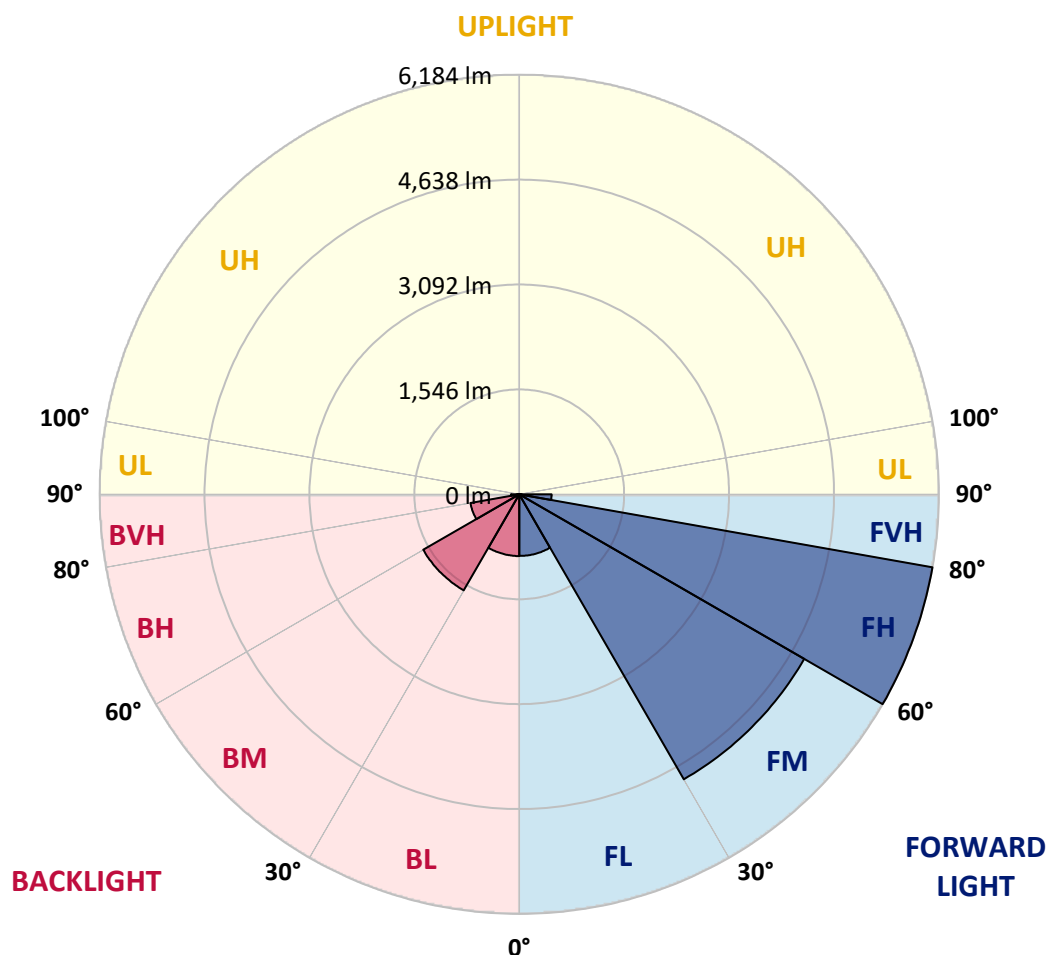
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	908.3	5.7			
FM	(30°-60°)	4850.1	30.7			
FH	(60°-80°)	6184.2	39.1			G3/7500
FVH	(80°-90°)	476.4	3.0			G3/500
BL	(0°-30°)	909.6	5.8	B2/1000		
BM	(30°-60°)	1634.3	10.3	B2/2500		
BH	(60°-80°)	730.2	4.6	B2/1000		G2/1000
BVH	(80°-90°)	121.8	0.8			G2/225
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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	2472.0	2472.0	2472.0	2472.0	2472.0	2472.0	2472.0	2472.0	2472.0	2472.0	2472.0
2.5°	2295.5	2286.8	2303.2	2305.4	2319.6	2325.0	2344.7	2375.3	2400.4	2429.4	2455.6
5°	2087.4	2081.4	2104.3	2120.7	2151.8	2165.0	2211.4	2276.4	2334.3	2399.9	2459.4
7.5°	1889.6	1886.3	1912.0	1949.2	1985.2	2003.3	2083.6	2178.1	2274.8	2380.7	2472.0
10°	1723.0	1721.9	1746.5	1783.1	1836.1	1856.3	1960.1	2084.7	2220.1	2366.0	2493.3
12.5°	1629.6	1633.4	1644.9	1675.5	1724.6	1744.9	1860.1	2006.5	2174.2	2361.1	2524.4
15°	1652.5	1658.5	1638.9	1637.8	1672.7	1688.6	1796.8	1950.8	2141.5	2369.3	2569.8
17.5°	1750.3	1751.4	1699.5	1666.7	1688.0	1696.2	1777.1	1919.1	2122.3	2387.8	2626.6
20°	1888.0	1885.3	1793.5	1738.8	1750.3	1752.5	1805.0	1919.7	2120.7	2420.1	2700.3
22.5°	2070.4	2050.2	1926.8	1852.5	1849.7	1846.5	1876.5	1960.1	2144.7	2472.5	2788.3
25°	2308.6	2289.5	2119.6	2018.0	1996.2	1988.0	1992.3	2046.4	2192.3	2528.8	2886.6
27.5°	2573.6	2540.3	2376.4	2232.7	2187.4	2175.9	2149.7	2168.2	2244.2	2582.9	3003.5
30°	2795.4	2777.4	2634.2	2463.8	2410.2	2393.9	2325.0	2304.8	2319.0	2656.6	3151.0
32.5°	2919.4	2907.4	2820.5	2682.8	2633.1	2610.2	2512.9	2472.5	2439.2	2773.0	3351.0
35°	3069.6	3062.0	3009.5	2909.6	2835.8	2811.8	2736.4	2694.3	2608.5	2933.0	3609.4
37.5°	3260.8	3252.6	3253.7	3172.9	3084.9	3062.5	3012.8	2968.6	2828.2	3143.4	3890.1
40°	3477.2	3461.3	3455.3	3451.5	3395.8	3383.2	3357.0	3296.9	3103.5	3394.7	4167.1
42.5°	3802.7	3746.5	3626.3	3671.6	3726.8	3720.3	3741.6	3655.2	3409.4	3691.8	4437.5
45°	4116.9	4024.5	3816.9	3826.8	3947.5	3984.1	4143.6	4082.4	3741.0	4017.4	4717.2
47.5°	4260.0	4190.1	4013.6	4014.2	4133.8	4209.7	4559.4	4515.7	4089.5	4387.3	5058.7
50°	4420.1	4350.1	4191.7	4251.2	4355.6	4436.4	4960.9	4938.5	4421.1	4792.1	5467.8
52.5°	4594.9	4476.3	4375.8	4482.3	4628.7	4722.7	5363.0	5301.8	4725.4	5199.6	5938.2
55°	4597.1	4564.8	4641.3	4719.4	4938.5	5053.8	5784.1	5622.4	4973.4	5600.0	6321.1
57.5°	4858.7	4806.3	4968.5	5004.6	5290.8	5420.9	6203.2	5901.6	5225.8	5907.1	6527.6
60°	5205.1	5160.3	5293.0	5388.1	5726.8	5900.5	6650.6	6188.4	5424.1	6138.7	6517.8
62.5°	5803.3	5752.5	5750.8	5884.1	6340.3	6542.4	7152.6	6469.7	5502.8	6184.6	6239.8
65°	6679.0	6598.1	6445.7	6509.1	7187.6	7389.2	7713.6	6673.5	5399.0	5938.7	5523.6
67.5°	7531.2	7528.5	7341.1	7471.1	8306.4	8468.1	8352.8	6693.7	5075.1	5082.7	4252.9
70°	8380.7	8391.6	8359.9	8812.2	9818.0	9986.2	9033.5	6422.2	4346.8	3670.5	2547.9
72.5°	9053.7	9051.0	9210.5	10376.8	11779.7	11742.0	9607.1	5599.5	3121.0	1981.4	1217.7
75°	8617.8	8522.7	8998.0	11151.5	12923.1	12739.0	9119.3	3906.0	1619.8	901.9	655.6
77.5°	5620.8	5710.9	6408.6	9212.1	11303.9	11079.9	6690.4	1822.4	763.2	591.6	475.3
80°	2035.5	2130.5	3000.8	5218.2	7787.9	7751.3	3294.7	749.0	516.2	446.9	346.3
82.5°	700.3	735.3	1183.8	2317.4	4397.1	4561.0	1239.5	425.6	375.3	316.8	237.1
85°	274.8	314.7	541.4	1115.0	2217.9	2234.3	502.0	254.6	261.1	207.6	130.0
87.5°	104.3	126.7	258.9	517.9	1012.8	930.3	179.7	121.3	148.6	123.5	61.7
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°	2472.0	2472.0	2472.0	2472.0	2472.0	2472.0	2472.0	2472.0	2472.0	2472.0	2472.0
2.5°	2475.8	2487.3	2511.3	2527.7	2545.2	2550.1	2552.3	2556.6	2561.0	2559.4	2559.9
5°	2491.1	2513.5	2552.3	2568.7	2576.3	2567.6	2550.6	2537.0	2527.1	2521.7	2520.0
7.5°	2516.2	2547.9	2589.4	2586.7	2569.2	2530.4	2486.7	2453.9	2426.6	2416.8	2411.3
10°	2549.5	2586.7	2615.6	2584.5	2533.7	2466.5	2401.0	2350.1	2309.2	2293.3	2290.6
12.5°	2592.2	2629.9	2635.3	2569.2	2485.1	2393.3	2304.3	2237.1	2175.9	2156.2	2151.8
15°	2647.3	2682.8	2649.0	2542.4	2425.0	2301.5	2186.3	2095.0	2030.6	2006.5	1997.8
17.5°	2705.2	2739.1	2651.7	2498.2	2346.3	2192.8	2048.1	1954.6	1880.9	1853.0	1849.7
20°	2774.6	2789.9	2640.2	2434.8	2238.2	2051.9	1899.5	1811.5	1772.2	1752.5	1750.3
22.5°	2860.4	2844.0	2614.0	2349.1	2101.0	1889.1	1765.1	1724.1	1714.3	1709.9	1711.5
25°	2951.1	2900.8	2575.2	2237.1	1927.9	1726.3	1666.7	1678.2	1691.3	1689.7	1689.7
27.5°	3051.0	2958.7	2515.7	2088.5	1736.1	1593.0	1600.1	1642.2	1661.8	1661.3	1660.7
30°	3179.4	3024.3	2439.7	1909.8	1556.9	1499.0	1542.2	1593.5	1620.3	1619.2	1619.8
32.5°	3337.3	3096.4	2336.5	1710.4	1427.5	1429.6	1479.4	1530.2	1561.3	1558.6	1559.1
35°	3521.9	3177.2	2196.6	1513.8	1341.7	1374.5	1413.8	1449.3	1478.8	1475.0	1471.2
37.5°	3723.0	3256.4	2010.9	1337.9	1271.8	1323.1	1355.9	1361.9	1375.6	1365.7	1358.6
40°	3914.2	3317.1	1771.6	1193.6	1201.3	1279.4	1300.7	1276.7	1252.1	1248.8	1239.0
42.5°	4080.8	3337.3	1529.6	1078.4	1127.0	1233.5	1246.6	1196.4	1152.1	1131.4	1122.6
45°	4256.7	3344.4	1304.0	981.7	1055.4	1192.6	1206.8	1139.6	1077.3	1032.5	1017.7
47.5°	4486.7	3395.8	1128.6	910.1	1000.8	1165.2	1185.5	1094.2	1013.4	949.5	935.8
50°	4787.7	3497.4	986.1	855.5	965.3	1147.2	1170.2	1050.0	960.9	883.9	870.2
52.5°	5122.0	3590.8	870.8	811.2	930.9	1115.5	1150.5	1018.3	911.8	823.3	808.5
55°	5355.9	3519.2	777.9	765.4	886.1	1070.2	1123.2	991.5	841.3	764.3	751.2
57.5°	5400.6	3274.5	707.4	717.8	832.0	1013.4	1081.1	932.0	803.0	738.6	724.9
60°	5278.3	2933.6	655.0	674.1	774.1	941.8	1002.4	889.9	766.4	711.3	699.8
62.5°	4970.7	2584.5	616.2	634.8	720.0	869.2	953.3	845.7	729.3	680.1	668.7
65°	4349.6	2169.9	579.1	599.8	669.8	806.3	909.0	804.7	692.7	655.0	644.1
67.5°	3283.2	1625.2	544.1	562.7	625.0	751.7	861.0	764.3	657.2	633.2	620.0
70°	1933.3	1017.7	504.2	523.9	578.0	694.9	809.6	720.0	612.9	602.0	585.1
72.5°	899.7	612.4	458.9	478.0	519.0	618.9	743.5	662.1	560.5	536.5	513.5
75°	537.0	448.0	405.3	422.3	451.2	538.1	660.5	603.1	510.8	479.1	455.1
77.5°	401.5	342.5	346.3	364.4	387.9	470.9	585.1	556.7	472.5	448.0	431.6
80°	289.0	260.0	282.4	302.1	326.7	428.3	560.5	514.6	427.2	394.4	379.1
82.5°	192.8	186.8	212.5	232.7	256.8	374.8	526.6	450.7	364.9	323.4	289.5
85°	106.5	112.5	143.1	151.9	172.6	263.9	431.6	362.2	274.8	221.2	211.4
87.5°	44.2	51.9	77.0	74.3	91.8	157.3	284.1	218.5	174.8	130.6	101.6
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)