

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: P319936

Luminaire Tested: **GAN-SA2D-727-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319936
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2D-727-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12616 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - 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

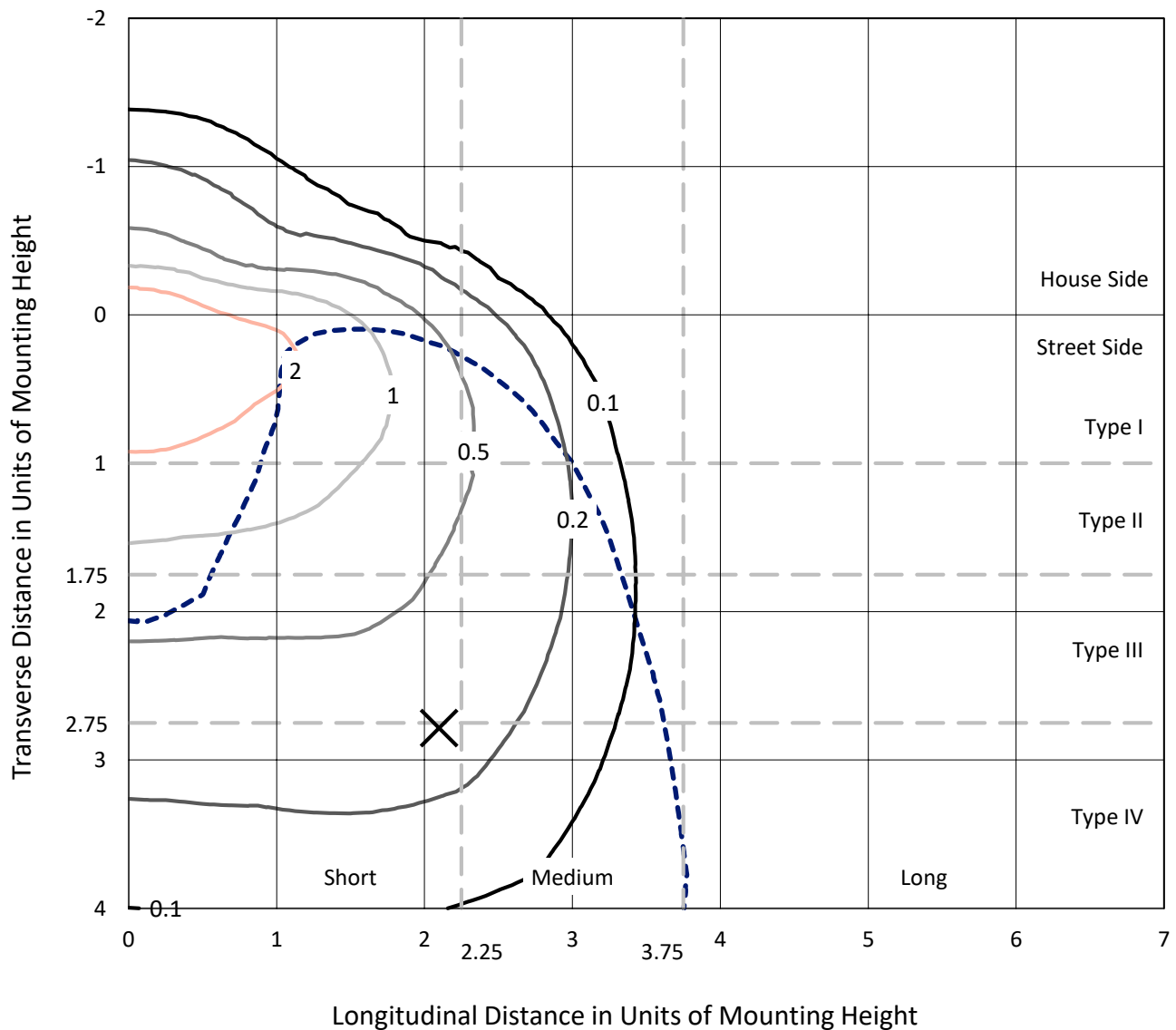


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Iso-Footcandle Lines of Horizontal Illumination

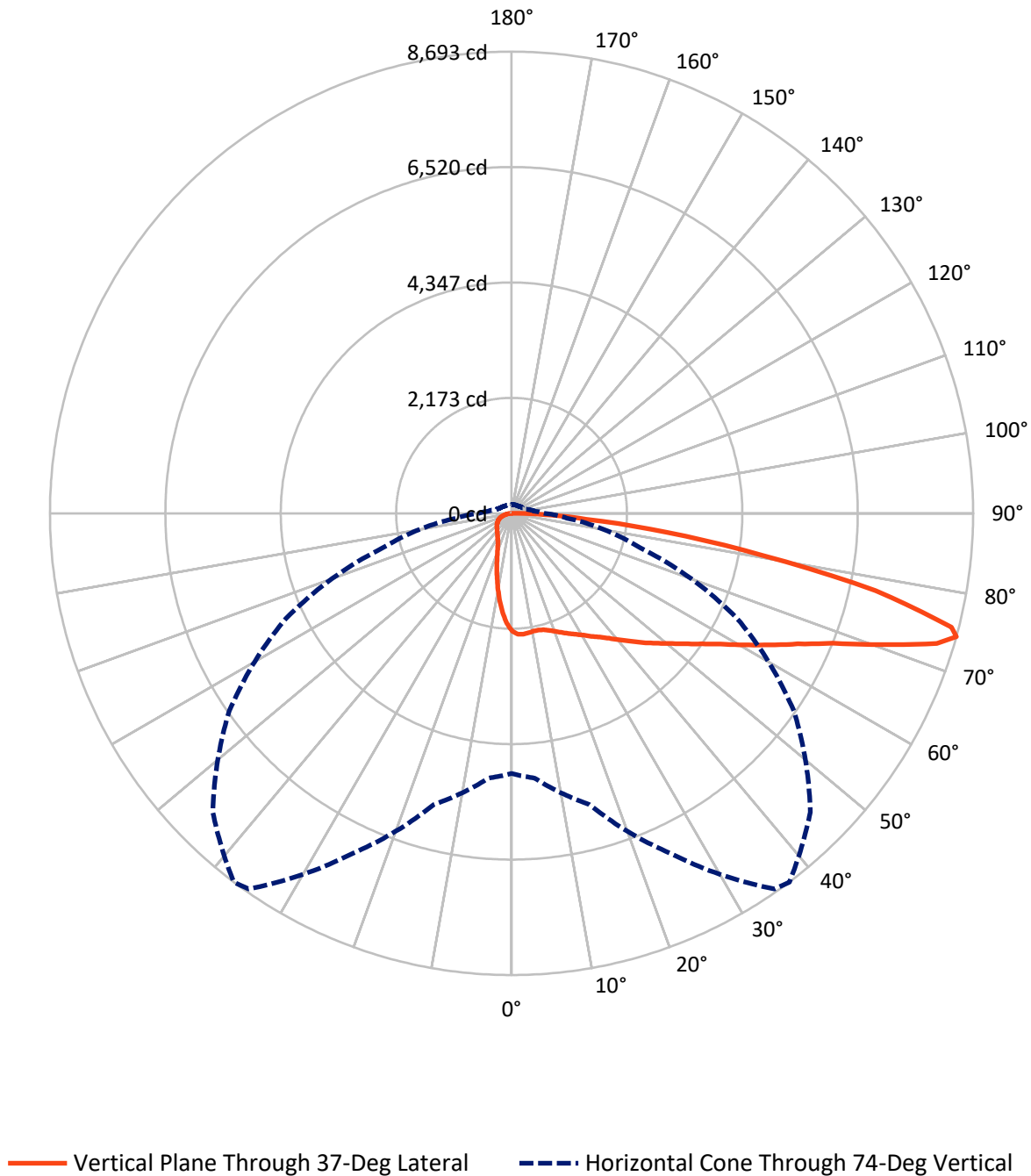
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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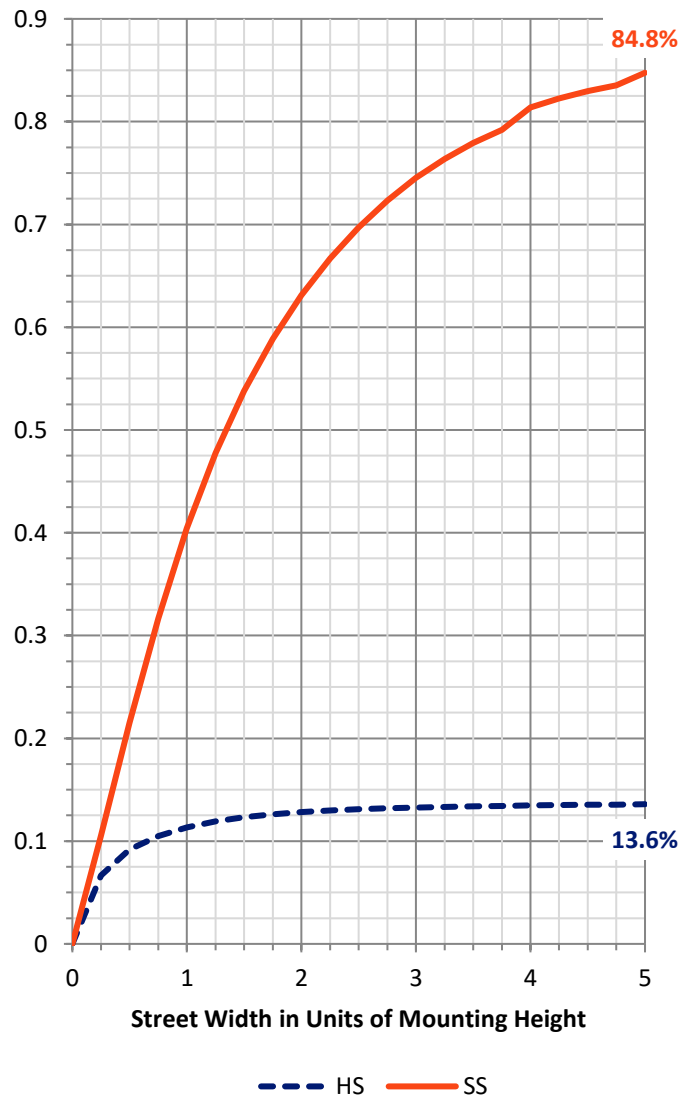
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1735.9	0.0	1735.9
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	10880.1	0.0	10880.1
	% Fixture	86.2	0.0	86.2
Total	Lumens	12616.0	0.0	12616.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.8	1.6
10°-20°	501.8	4.0
20°-30°	773.1	6.1
30°-40°	1124.2	8.9
40°-50°	1654.7	13.1
50°-60°	2323.7	18.4
60°-70°	2941.1	23.3
70°-80°	2589.7	20.5
80°-90°	512.0	4.1
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°	12616.0	100.0
0°-180°	12616.0	100.0

Coefficient of Utilization



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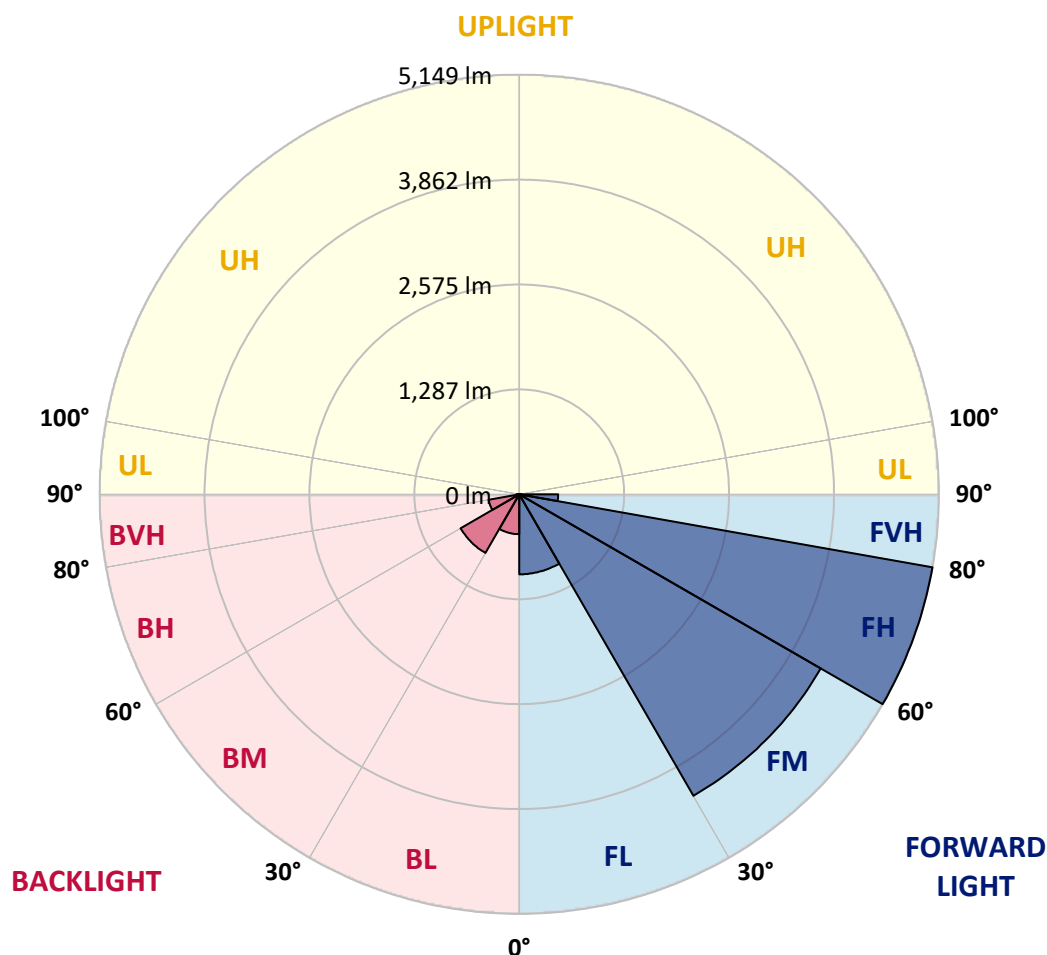
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	981.7	7.8			
FM	(30°-60°)	4271.9	33.9			
FH	(60°-80°)	5149.2	40.8			G3/7500
FVH	(80°-90°)	477.4	3.8			G3/500
BL	(0°-30°)	489.0	3.9	B1/500		
BM	(30°-60°)	830.7	6.6	B1/1000		
BH	(60°-80°)	381.6	3.0	B1/500		G1/500
BVH	(80°-90°)	34.7	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	2222.9	2222.9	2222.9	2222.9	2222.9	2222.9	2222.9	2222.9	2222.9	2222.9	2222.9
2.5°	2298.9	2299.3	2298.9	2295.3	2286.9	2279.8	2274.0	2265.6	2246.9	2232.7	2211.3
5°	2320.7	2318.0	2316.2	2309.5	2296.2	2288.2	2277.1	2261.1	2230.4	2202.0	2167.3
7.5°	2310.4	2307.3	2303.3	2295.3	2280.2	2273.6	2258.0	2237.1	2200.2	2162.9	2113.1
10°	2278.9	2278.0	2276.2	2274.4	2261.6	2256.2	2242.0	2219.8	2183.3	2138.0	2079.8
12.5°	2243.8	2246.0	2253.1	2262.4	2256.7	2254.0	2245.1	2230.0	2192.7	2143.8	2073.6
15°	2221.6	2227.8	2246.9	2271.3	2276.2	2275.3	2273.1	2263.3	2223.8	2169.6	2087.8
17.5°	2214.0	2224.2	2260.7	2301.1	2315.3	2318.4	2319.3	2302.4	2258.4	2201.1	2102.5
20°	2227.8	2240.7	2294.0	2349.5	2372.2	2374.0	2370.0	2340.7	2291.3	2228.2	2110.5
22.5°	2269.6	2281.1	2347.8	2410.4	2436.2	2438.9	2426.9	2382.4	2326.0	2260.2	2121.6
25°	2350.0	2364.2	2430.9	2493.5	2506.9	2507.3	2490.0	2434.9	2371.3	2305.1	2145.6
27.5°	2454.9	2469.1	2529.1	2590.4	2583.3	2579.3	2555.7	2500.6	2430.4	2366.9	2188.2
30°	2571.7	2587.3	2644.2	2687.7	2670.8	2662.8	2643.7	2572.6	2512.6	2451.3	2253.6
32.5°	2692.6	2706.8	2756.6	2786.4	2765.1	2761.5	2732.6	2667.7	2619.7	2580.2	2359.3
35°	2816.6	2826.8	2875.7	2892.6	2864.2	2863.3	2855.3	2795.7	2765.5	2784.2	2513.1
37.5°	2943.3	2945.9	2987.7	2988.6	2980.1	2983.7	2992.1	2954.8	2963.3	3021.5	2713.1
40°	3056.1	3063.3	3093.5	3102.8	3117.5	3129.9	3172.1	3147.7	3213.0	3316.1	2961.9
42.5°	3139.7	3153.5	3201.9	3225.9	3273.5	3293.0	3352.6	3375.2	3506.8	3661.4	3257.9
45°	3210.3	3231.7	3309.4	3358.8	3439.2	3473.4	3558.8	3634.8	3838.7	4036.0	3569.4
47.5°	3286.8	3313.9	3411.2	3505.4	3614.8	3653.4	3808.5	3922.3	4192.9	4412.9	3863.2
50°	3399.2	3420.1	3515.2	3663.2	3799.6	3849.4	4064.0	4227.1	4552.9	4772.0	4117.8
52.5°	3556.1	3548.1	3628.5	3836.1	4019.2	4080.5	4336.9	4551.5	4917.7	5096.8	4332.9
55°	3713.9	3700.5	3757.0	4016.9	4275.1	4339.6	4637.3	4877.3	5264.8	5389.2	4497.8
57.5°	3889.4	3864.1	3911.6	4220.9	4566.7	4643.5	4973.7	5223.5	5606.1	5625.7	4602.7
60°	4070.3	4036.0	4089.4	4473.8	4936.8	5027.5	5367.5	5561.2	5927.9	5815.0	4636.4
62.5°	4228.5	4204.5	4286.7	4756.0	5354.1	5453.7	5754.1	5920.3	6245.2	5893.6	4514.7
65°	4366.7	4370.7	4512.9	5073.3	5819.4	5925.6	6197.6	6362.9	6494.9	5847.0	4229.8
67.5°	4531.5	4554.2	4796.9	5491.0	6405.1	6521.6	6842.9	6845.5	6634.5	5573.2	3669.0
70°	4772.0	4818.6	5187.5	6070.5	7237.9	7397.9	7645.9	7129.1	6438.5	4831.1	2886.8
72.5°	4985.3	5072.4	5603.0	6733.6	8253.0	8374.3	8115.6	6965.5	5619.4	3620.5	1798.5
74°	4898.6	5006.6	5678.5	7060.2	8635.1	8693.4	7957.0	6488.2	4685.3	2507.3	1045.2
75°	4712.0	4829.3	5568.3	7057.1	8586.7	8554.3	7573.9	5943.0	3858.7	1710.1	695.5
77.5°	3802.7	3926.7	4692.0	6048.3	7040.6	7010.0	5818.1	3986.7	1690.1	560.8	353.3
80°	2210.9	2305.5	2912.6	3841.0	4747.5	4803.1	3826.3	1972.7	664.8	315.1	239.5
82.5°	982.1	1047.5	1407.0	1960.7	2865.0	2936.6	2003.8	1033.7	410.6	191.5	144.0
85°	644.4	692.8	854.1	933.7	1364.3	1413.2	980.8	804.8	271.1	105.3	105.8
87.5°	463.5	510.2	634.6	554.2	626.2	592.8	533.7	744.8	108.9	60.0	35.6
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°	2222.9	2222.9	2222.9	2222.9	2222.9	2222.9	2222.9	2222.9	2222.9	2222.9	2222.9
2.5°	2202.0	2194.9	2178.9	2148.7	2131.8	2117.6	2094.0	2080.2	2074.0	2073.6	2076.2
5°	2147.3	2130.9	2089.6	2038.9	1998.5	1961.6	1915.8	1888.3	1868.7	1857.1	1860.3
7.5°	2083.8	2058.0	1993.1	1912.3	1847.4	1775.8	1705.2	1662.9	1630.1	1605.6	1610.1
10°	2040.2	2004.7	1910.0	1793.6	1685.6	1581.6	1484.3	1426.1	1379.9	1344.3	1347.0
12.5°	2025.6	1977.6	1846.5	1690.9	1539.4	1397.2	1270.1	1180.8	1133.2	1092.8	1095.9
15°	2027.8	1963.4	1793.2	1598.5	1407.9	1228.8	1074.6	970.1	905.7	877.7	878.1
17.5°	2029.6	1946.9	1737.2	1499.4	1277.7	1071.4	903.9	798.1	737.3	711.5	711.9
20°	2023.8	1920.3	1667.8	1385.6	1141.7	927.0	764.8	675.0	628.8	608.8	608.8
22.5°	2016.2	1888.7	1589.6	1271.4	1007.5	801.7	665.3	596.8	570.2	556.8	556.4
25°	2019.8	1865.1	1509.6	1154.1	883.9	701.7	599.1	553.7	535.9	527.5	527.1
27.5°	2038.9	1854.0	1435.9	1037.2	775.9	626.6	554.6	522.6	511.1	505.7	505.7
30°	2073.6	1854.0	1359.0	937.7	686.2	571.1	520.4	498.6	490.6	487.1	487.1
32.5°	2134.0	1864.3	1284.8	839.0	614.6	527.5	492.0	477.3	471.1	469.3	469.3
35°	2238.0	1898.9	1212.3	745.7	556.8	492.0	464.8	456.4	452.0	451.5	452.8
37.5°	2384.2	1969.6	1144.3	676.8	515.9	463.1	442.2	435.5	432.8	435.1	436.8
40°	2568.2	2065.6	1082.6	614.6	484.8	440.0	421.3	416.8	415.5	418.6	421.3
42.5°	2790.4	2195.3	1031.9	569.7	460.8	420.4	403.5	398.2	396.8	400.4	404.0
45°	3030.8	2334.9	996.3	536.4	442.2	405.7	388.0	382.2	379.5	381.3	385.3
47.5°	3249.5	2466.9	982.1	512.8	424.4	393.3	374.2	367.1	362.6	361.7	364.9
50°	3433.9	2565.1	988.8	498.6	410.2	379.5	360.9	352.9	346.2	342.2	344.4
52.5°	3568.1	2626.9	995.0	492.4	399.1	364.4	346.2	338.6	329.7	323.1	323.1
55°	3665.4	2641.1	981.2	487.5	390.6	348.0	329.7	322.6	313.7	306.2	305.3
57.5°	3703.6	2601.1	930.1	480.4	384.9	332.4	312.4	307.1	299.5	290.6	290.2
60°	3652.1	2477.5	831.5	465.3	377.3	319.5	295.1	291.5	288.0	279.5	279.1
62.5°	3445.0	2206.4	703.9	434.6	362.2	305.7	279.1	280.9	281.3	275.5	274.6
65°	3069.5	1834.0	579.5	394.6	339.5	289.3	262.6	271.1	276.0	275.1	273.8
67.5°	2523.7	1427.4	491.1	352.4	309.7	266.6	244.9	254.6	258.6	261.8	260.9
70°	1873.1	1006.6	406.2	308.0	273.8	240.0	221.8	226.6	224.0	227.5	228.9
72.5°	1044.3	603.9	331.1	263.5	236.4	208.9	196.0	195.1	189.3	189.3	189.3
74°	626.6	443.1	291.1	236.0	213.8	188.4	177.3	173.3	168.0	168.4	168.0
75°	503.9	380.9	267.1	217.8	197.8	176.4	165.3	160.0	156.0	156.0	155.5
77.5°	318.2	289.3	215.1	173.3	158.2	145.3	137.8	130.7	130.7	130.2	129.8
80°	240.4	230.2	167.5	131.1	121.3	111.5	106.7	103.5	103.5	104.9	104.4
82.5°	164.9	173.3	117.8	91.5	86.7	79.5	78.7	79.1	77.8	76.0	75.5
85°	120.4	130.2	79.5	57.8	52.9	48.4	52.0	53.8	51.6	47.6	45.8
87.5°	46.2	85.3	42.7	24.0	22.2	19.1	22.2	23.1	24.9	19.6	20.0
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)