

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: P319836

Luminaire Tested: **GAN-SA2B-830-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319836
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2B-830-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9293 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G3

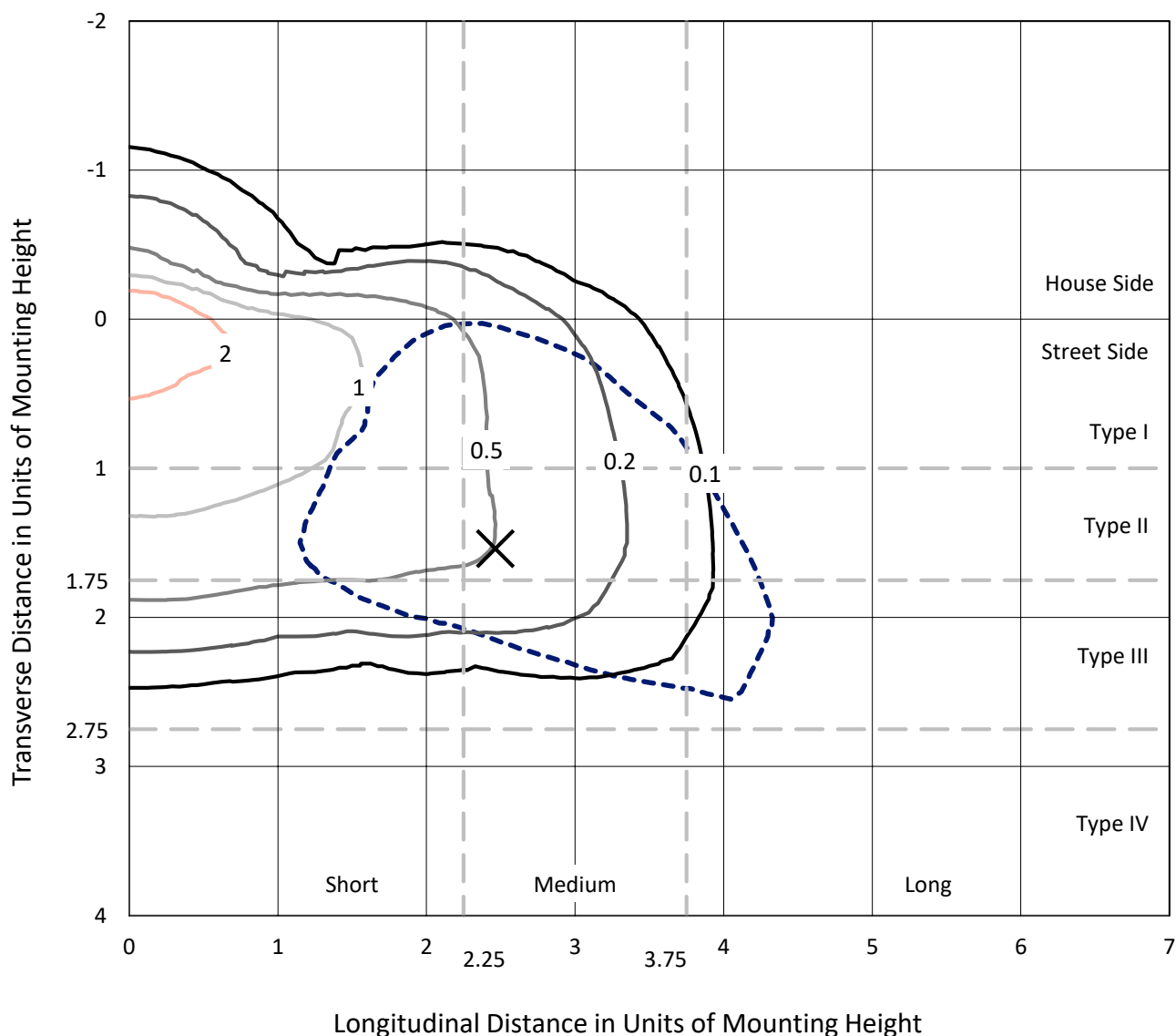
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

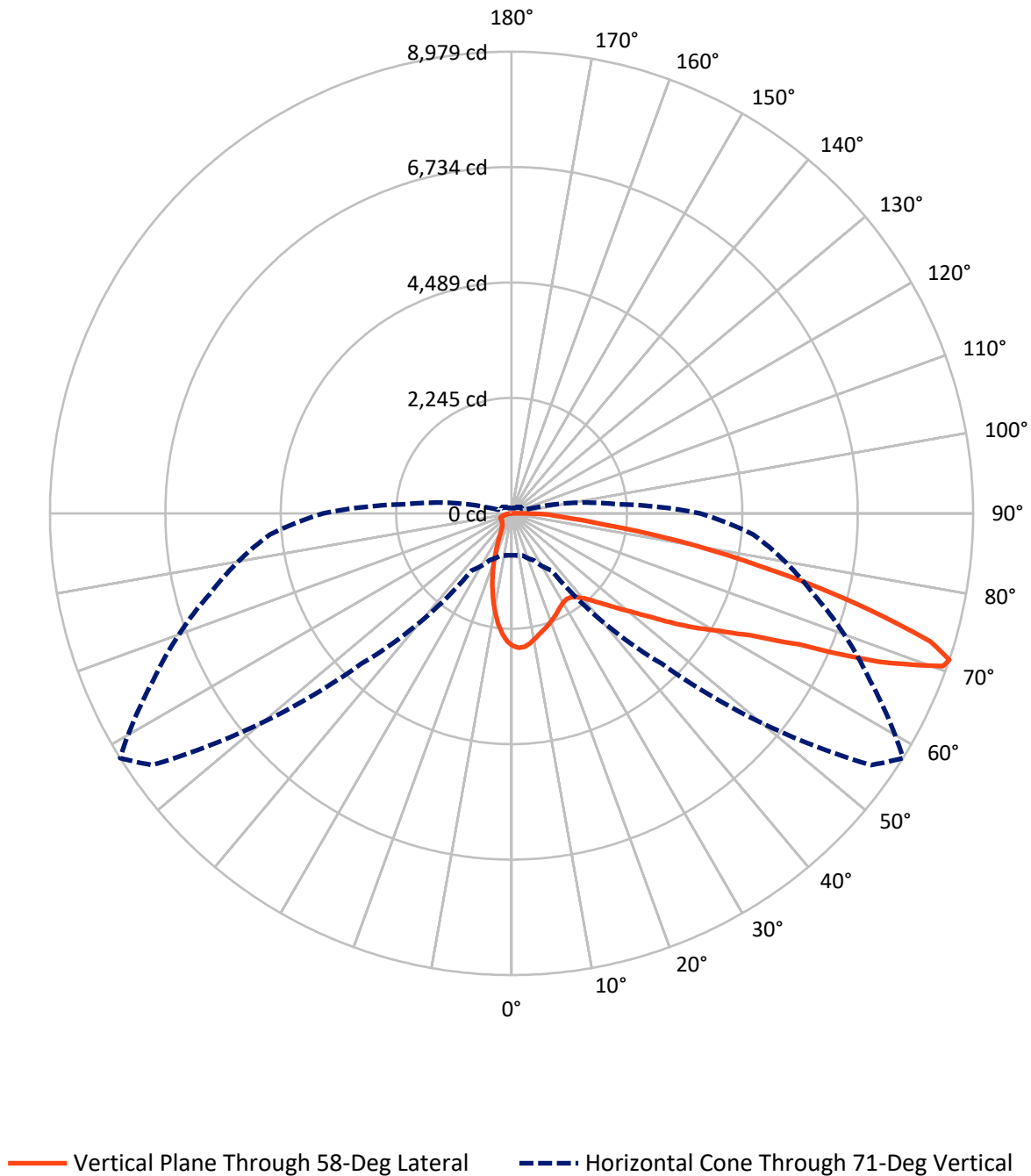
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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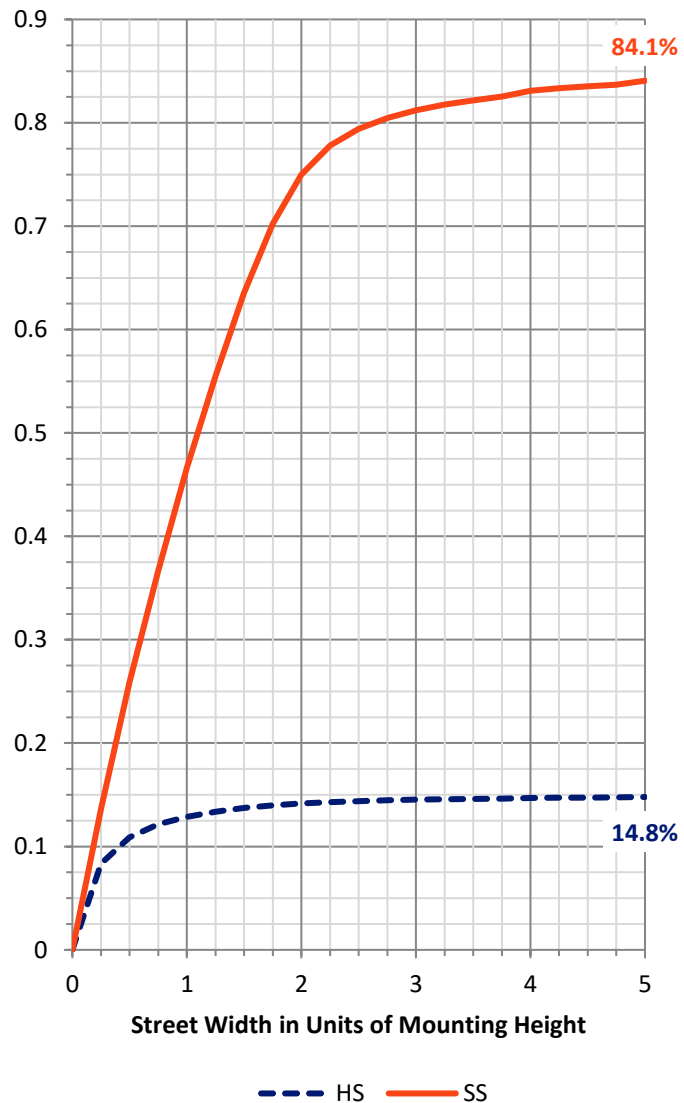
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1389.4	0.0	1389.4
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	7903.6	0.0	7903.6
	% Fixture	85.0	0.0	85.0
Total	Lumens	9293.0	0.0	9293.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.1	2.4
10°-20°	493.9	5.3
20°-30°	627.7	6.8
30°-40°	799.6	8.6
40°-50°	1133.9	12.2
50°-60°	1754.7	18.9
60°-70°	2388.8	25.7
70°-80°	1593.6	17.1
80°-90°	278.6	3.0
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°	9293.0	100.0
0°-180°	9293.0	100.0

Coefficient of Utilization



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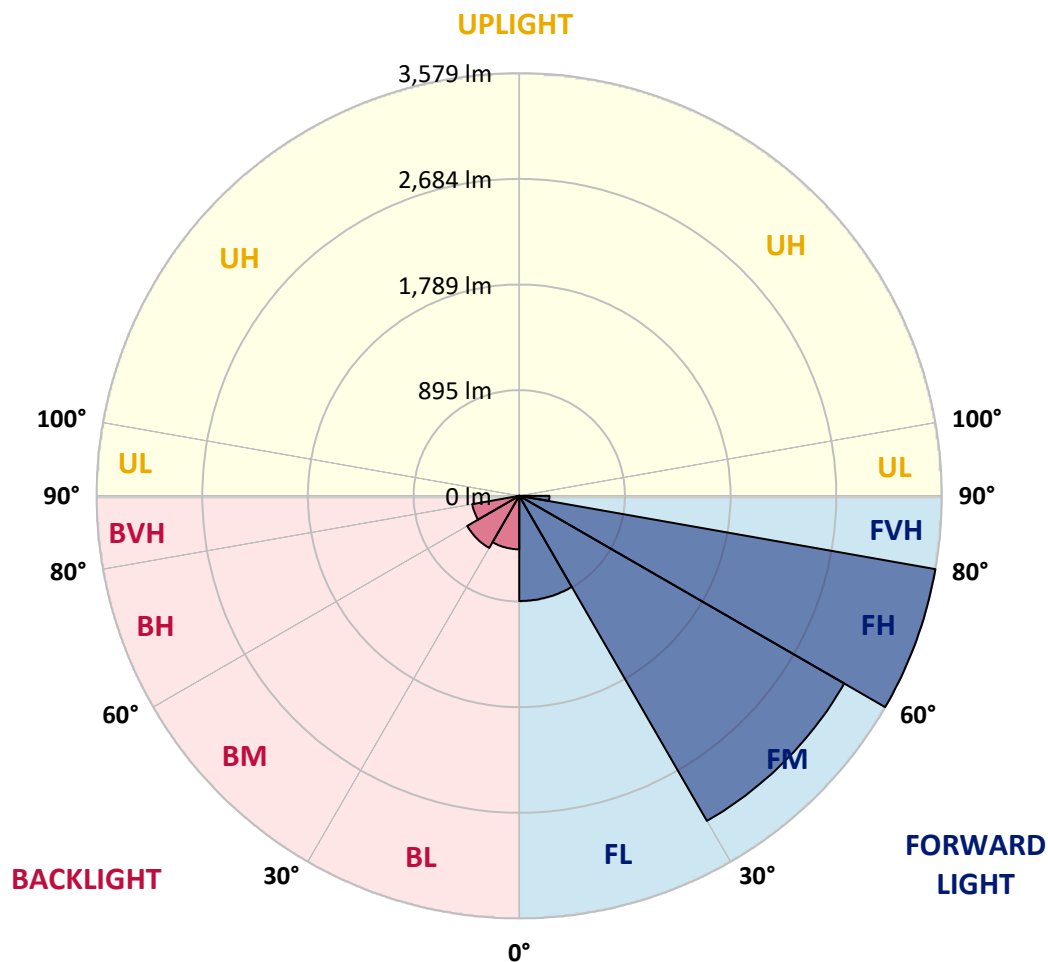
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	890.9	9.6			
FM	(30°-60°)	3178.7	34.2			
FH	(60°-80°)	3578.6	38.5			G2/5000
FVH	(80°-90°)	255.5	2.7			G3/500
BL	(0°-30°)	452.9	4.9	B1/500		
BM	(30°-60°)	509.5	5.5	B1/1000		
BH	(60°-80°)	403.8	4.3	B1/500		G1/500
BVH	(80°-90°)	23.2	0.2			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2574.8	2574.8	2574.8	2574.8	2574.8	2574.8	2574.8	2574.8	2574.8	2574.8	2574.8
2.5°	2643.1	2639.5	2640.8	2638.2	2632.1	2625.9	2616.9	2618.5	2605.9	2587.1	2563.8
5°	2593.2	2591.9	2601.7	2607.2	2611.7	2608.1	2605.5	2608.8	2590.3	2564.4	2524.0
7.5°	2488.7	2474.4	2486.7	2505.2	2522.7	2535.9	2553.4	2555.7	2544.0	2516.8	2463.8
10°	2340.1	2326.5	2344.6	2373.4	2408.4	2440.1	2475.4	2481.9	2484.1	2459.5	2395.1
12.5°	2186.0	2175.6	2193.8	2234.2	2292.2	2341.1	2397.4	2407.1	2427.2	2410.7	2331.7
15°	2048.1	2044.2	2066.2	2106.1	2172.7	2247.5	2328.8	2346.6	2380.6	2375.1	2282.1
17.5°	1929.0	1928.0	1944.8	1986.6	2060.4	2154.9	2260.5	2290.6	2341.1	2347.5	2241.4
20°	1840.3	1838.3	1850.0	1880.7	1956.8	2064.0	2186.7	2228.1	2300.9	2323.6	2199.3
22.5°	1792.7	1792.4	1792.7	1807.3	1869.4	1969.1	2114.8	2165.3	2261.8	2304.5	2152.7
25°	1784.6	1783.6	1776.5	1774.9	1810.2	1889.8	2043.6	2099.3	2224.5	2291.2	2108.3
27.5°	1805.6	1806.9	1797.6	1782.3	1789.5	1837.7	1981.7	2041.3	2194.7	2288.6	2077.6
30°	1849.4	1848.7	1840.6	1824.7	1810.8	1818.3	1937.7	1997.3	2174.7	2300.0	2056.5
32.5°	1897.6	1901.1	1899.5	1890.8	1870.1	1840.3	1924.5	1982.7	2168.9	2327.1	2047.5
35°	1955.5	1959.4	1971.1	1977.9	1953.6	1905.7	1952.9	2003.4	2185.7	2378.3	2062.0
37.5°	2010.6	2020.6	2053.3	2082.1	2061.4	2008.0	2028.7	2064.6	2237.8	2458.9	2101.2
40°	2074.0	2082.7	2136.2	2197.3	2194.1	2138.7	2150.7	2174.7	2329.7	2574.5	2172.1
42.5°	2136.5	2154.0	2231.3	2318.1	2343.0	2294.1	2313.2	2325.8	2459.2	2727.6	2295.7
45°	2219.7	2238.4	2345.9	2450.5	2508.7	2481.2	2511.7	2516.5	2622.0	2936.0	2475.4
47.5°	2345.6	2367.0	2492.2	2602.0	2691.0	2693.9	2744.1	2742.1	2825.3	3174.6	2701.7
50°	2541.8	2572.5	2675.1	2777.7	2885.9	2946.1	3013.1	3003.7	3069.1	3428.7	2962.3
52.5°	2798.8	2813.0	2889.1	2964.9	3099.2	3234.2	3330.3	3321.9	3345.5	3690.0	3258.1
55°	3065.2	3075.9	3107.3	3148.7	3329.3	3549.5	3752.8	3739.5	3679.6	3961.2	3550.4
57.5°	3304.7	3326.4	3348.1	3365.3	3561.1	3879.0	4184.9	4185.9	4042.2	4253.9	3852.5
60°	3342.0	3361.1	3504.5	3639.8	3957.7	4318.6	4647.5	4637.8	4417.3	4571.4	4189.1
62.5°	2954.2	2997.2	3236.8	3596.7	4339.6	5122.7	5237.6	5225.6	4866.0	4962.8	4581.1
65°	2117.1	2165.9	2455.0	2995.9	4154.5	6008.7	6302.6	6141.4	5477.8	5444.1	5040.2
67.5°	1221.4	1233.0	1358.3	1792.7	3163.3	6055.0	7927.3	7701.7	6427.9	5990.2	5264.8
70°	903.1	902.8	932.6	1103.2	1711.8	4941.7	8700.0	8902.3	7428.2	6169.9	4947.2
71°	816.7	817.7	851.0	1004.1	1355.7	4136.4	8535.9	8978.7	7691.7	6081.2	4717.4
72.5°	698.6	701.8	748.1	900.6	1140.4	2852.5	7828.9	8520.3	7816.6	5862.4	4357.8
75°	529.9	537.4	601.5	759.1	1042.3	1446.7	5745.8	6803.7	6943.9	5172.9	3238.1
77.5°	378.1	386.5	459.0	638.4	990.9	1090.3	3847.9	4962.8	5110.1	3315.1	1460.6
80°	238.9	248.9	303.6	507.9	931.0	1035.2	2418.1	3335.8	2786.5	1060.8	371.6
82.5°	140.2	147.9	188.4	331.8	760.4	997.0	1422.7	1849.0	1084.4	320.5	169.0
85°	81.3	84.8	117.5	211.4	552.2	941.0	1045.3	1033.6	470.7	156.7	80.0
87.5°	37.9	42.1	69.6	110.4	306.6	682.1	826.1	713.8	292.6	73.5	37.6
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°	2574.8	2574.8	2574.8	2574.8	2574.8	2574.8	2574.8	2574.8	2574.8	2574.8	2574.8
2.5°	2552.4	2546.9	2524.0	2503.6	2482.2	2454.4	2423.6	2419.7	2401.0	2404.5	2398.0
5°	2501.9	2488.0	2432.7	2382.5	2323.3	2270.2	2212.6	2186.0	2147.8	2145.2	2135.5
7.5°	2429.8	2403.9	2318.1	2222.9	2127.7	2037.1	1947.4	1888.5	1828.3	1802.7	1800.5
10°	2348.5	2304.5	2178.2	2037.4	1900.2	1767.8	1639.6	1544.7	1459.3	1418.8	1417.2
12.5°	2271.5	2206.4	2033.2	1841.6	1653.8	1482.3	1306.5	1181.9	1074.7	1038.8	1023.6
15°	2206.1	2114.5	1892.1	1647.0	1419.1	1180.9	980.8	849.7	750.7	716.4	709.9
17.5°	2142.6	2024.8	1747.4	1450.5	1175.1	913.2	712.8	615.4	562.6	548.7	548.4
20°	2079.5	1932.5	1596.2	1249.5	939.1	683.0	548.0	504.3	486.5	484.9	482.3
22.5°	2008.0	1834.8	1437.3	1047.8	732.9	537.0	465.8	448.3	446.1	451.9	451.9
25°	1941.0	1737.7	1276.1	850.4	570.1	448.0	416.0	412.4	418.6	428.9	429.9
27.5°	1878.5	1644.1	1118.7	674.9	456.8	394.6	381.3	385.5	396.5	408.5	408.8
30°	1827.0	1555.7	965.9	531.9	385.9	354.8	352.5	360.9	372.9	382.3	384.6
32.5°	1787.2	1480.3	818.3	427.6	339.6	325.0	326.9	334.1	341.5	346.7	350.3
35°	1768.7	1415.6	682.1	360.6	310.1	302.0	304.6	308.5	311.7	315.6	318.5
37.5°	1772.0	1365.4	560.3	318.9	290.4	286.2	286.2	286.2	286.2	288.1	288.4
40°	1802.1	1336.6	461.3	292.3	277.1	272.6	269.0	265.8	263.2	264.5	263.8
42.5°	1879.1	1334.0	388.8	275.5	266.4	259.0	251.8	247.3	244.1	245.4	246.0
45°	2009.9	1366.4	339.9	263.5	256.4	245.0	236.0	231.1	228.9	233.1	233.7
47.5°	2179.2	1436.9	310.1	254.8	247.0	232.1	222.4	217.9	218.5	224.7	226.3
50°	2397.4	1551.5	295.9	249.3	240.5	221.1	211.1	207.2	209.1	217.9	219.8
52.5°	2636.9	1716.6	297.5	247.6	236.3	213.0	202.3	197.8	201.0	209.1	210.7
55°	2913.4	1915.1	324.4	249.9	230.2	207.8	195.2	187.4	190.0	197.5	198.8
57.5°	3220.6	2142.3	378.4	249.3	222.4	203.0	187.8	176.1	178.0	182.6	183.9
60°	3540.4	2416.8	462.3	251.2	218.8	197.1	177.7	163.1	162.5	166.4	167.0
62.5°	3924.3	2734.4	558.1	252.5	221.1	189.7	164.4	150.2	148.3	149.2	149.9
65°	4319.9	2964.2	522.1	247.3	228.2	183.5	152.8	137.6	134.0	133.4	133.7
67.5°	4332.2	2717.9	366.1	237.0	231.1	180.3	144.1	126.9	121.1	118.8	118.5
70°	3885.2	2208.0	285.2	225.9	219.5	175.1	136.0	118.2	109.4	105.9	105.5
71°	3667.0	2032.6	270.3	220.4	210.7	169.9	132.4	114.3	105.2	101.3	100.7
72.5°	3324.8	1822.2	252.2	211.7	193.9	156.7	125.6	108.8	99.4	94.8	93.9
75°	2386.1	1191.6	216.6	188.7	160.6	125.0	110.1	97.8	89.7	84.2	83.5
77.5°	919.3	474.2	163.8	157.0	123.0	97.8	90.6	84.5	78.7	73.2	72.8
80°	284.2	212.0	119.4	118.2	89.0	72.8	70.6	69.0	66.7	60.9	59.6
82.5°	151.8	121.7	82.2	76.4	58.3	48.6	51.1	51.8	52.1	46.0	45.3
85°	72.5	64.4	46.3	43.4	34.0	27.2	31.4	34.0	34.3	28.2	26.2
87.5°	34.6	33.7	21.7	16.5	12.6	9.1	11.0	13.6	14.9	10.7	9.4
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)