

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: P192800

Luminaire Tested: **GAN-AF-02-LED-U-SL2-7030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192800
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-02-LED-U-SL2-7030-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10703 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

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: 28.75 FT



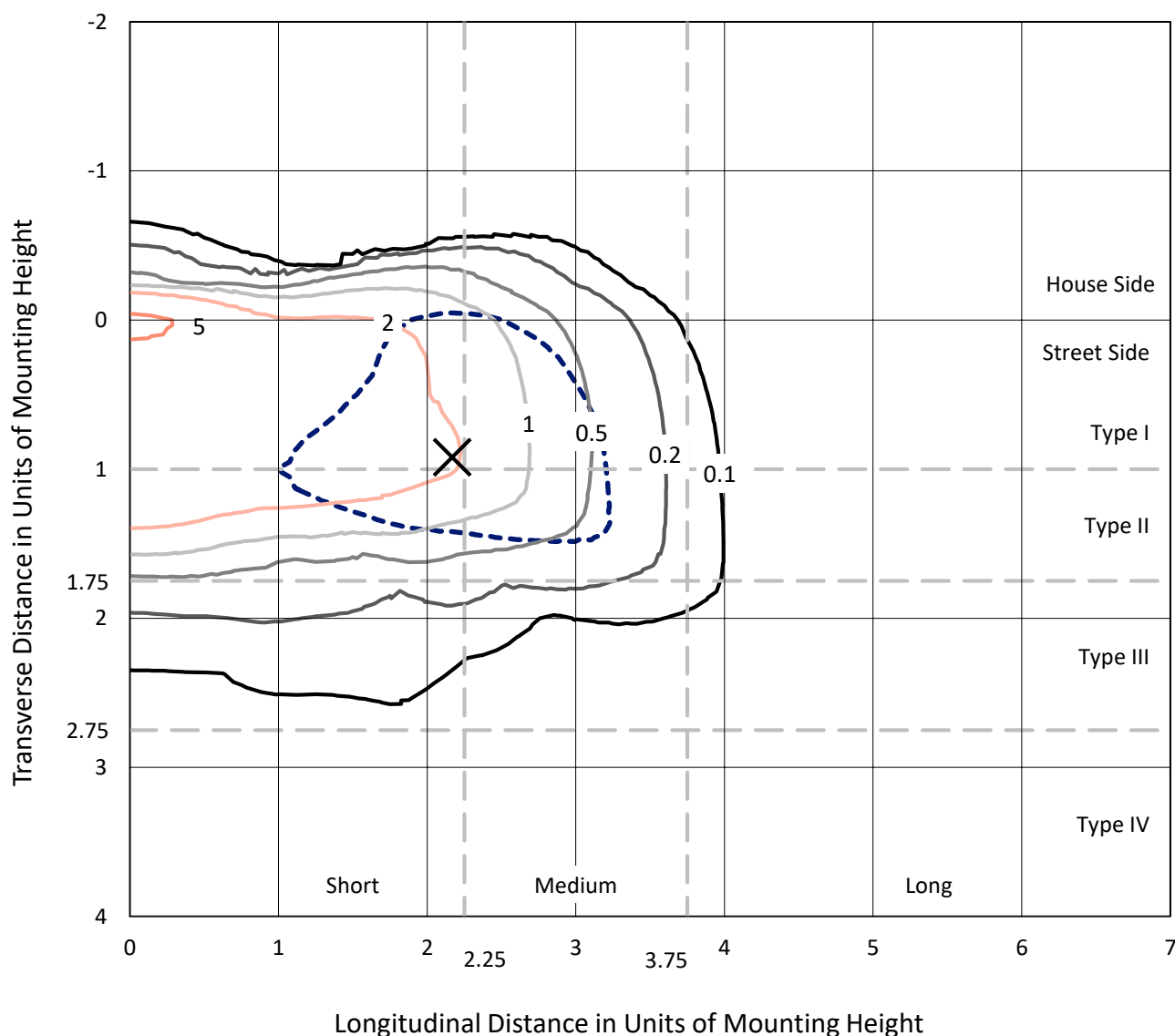
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

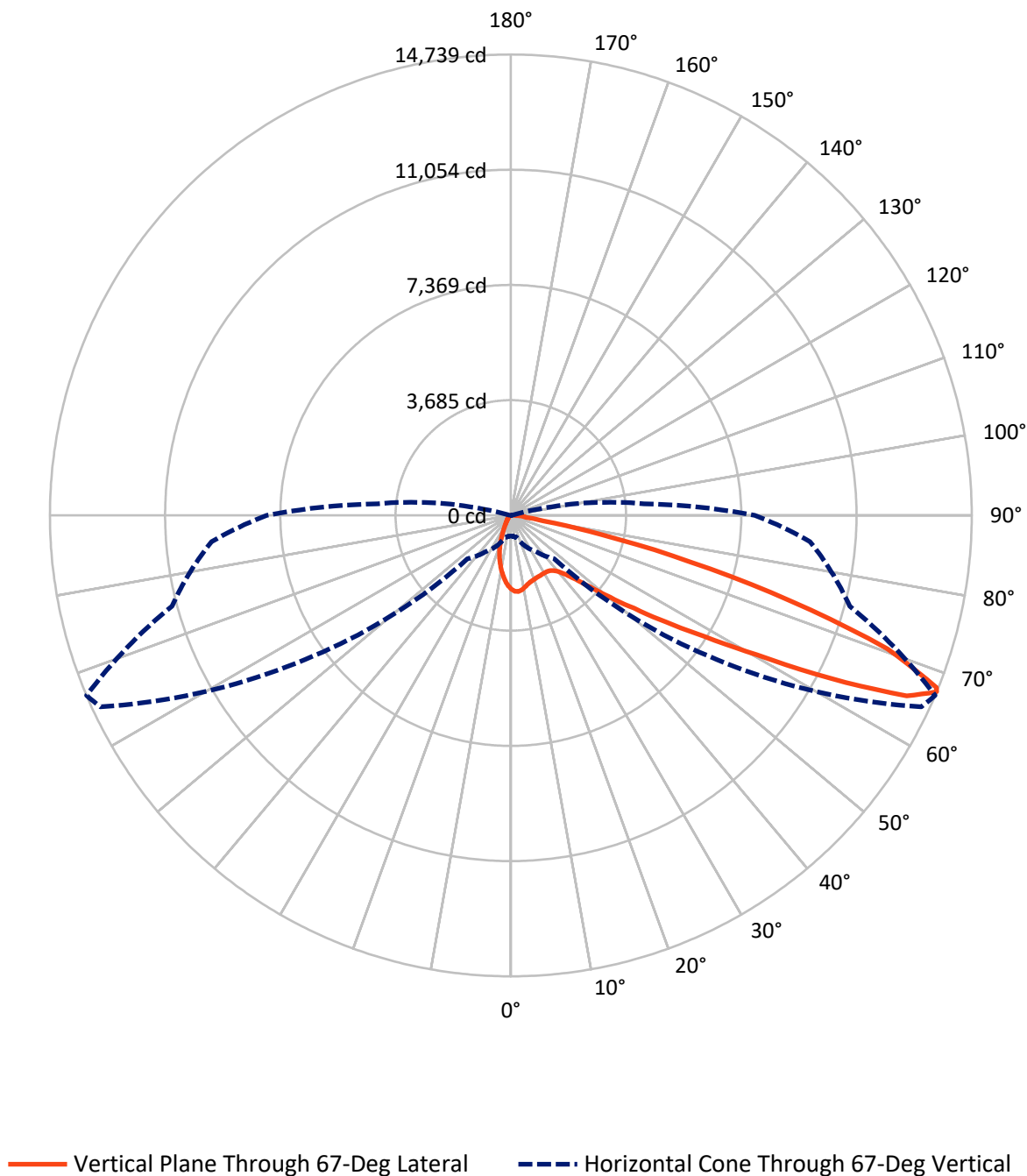


Based on 20 foot mounting height. Maximum calculated value = 5.9 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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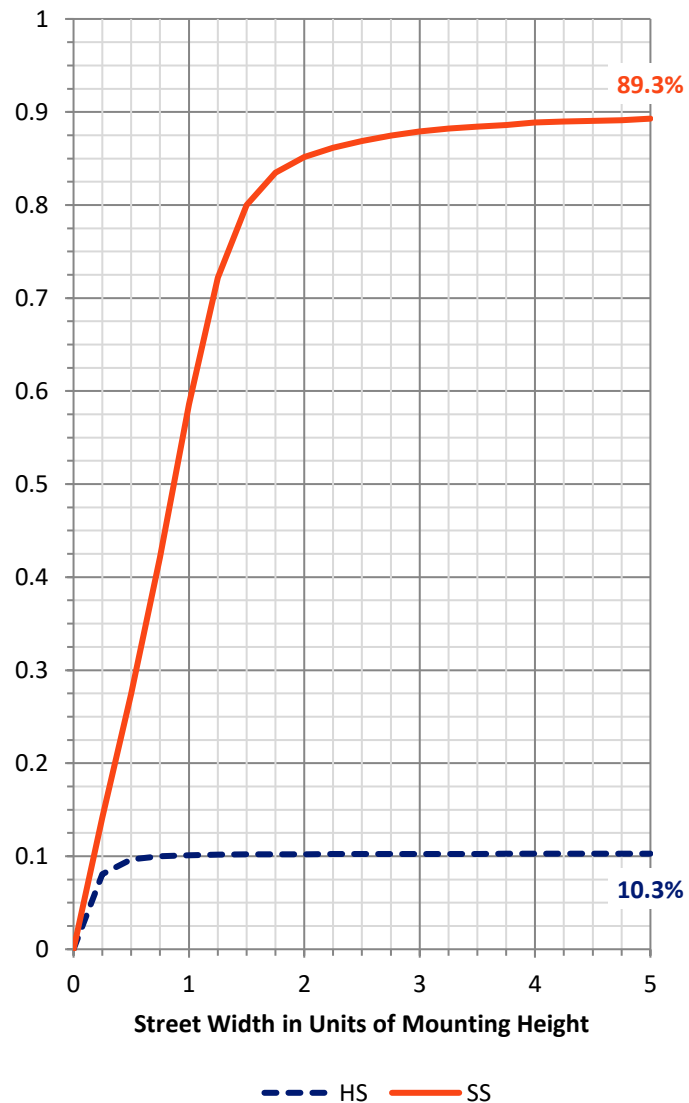
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1111.3	0.0	1111.3
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	9591.7	0.0	9591.7
	% Fixture	89.6	0.0	89.6
Total	Lumens	10703.0	0.0	10703.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.1	1.8
10°-20°	408.8	3.8
20°-30°	594.3	5.6
30°-40°	927.2	8.7
40°-50°	1642.5	15.3
50°-60°	2599.0	24.3
60°-70°	2976.8	27.8
70°-80°	1234.8	11.5
80°-90°	127.5	1.2
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°	10703.0	100.0
0°-180°	10703.0	100.0

Coefficient of Utilization



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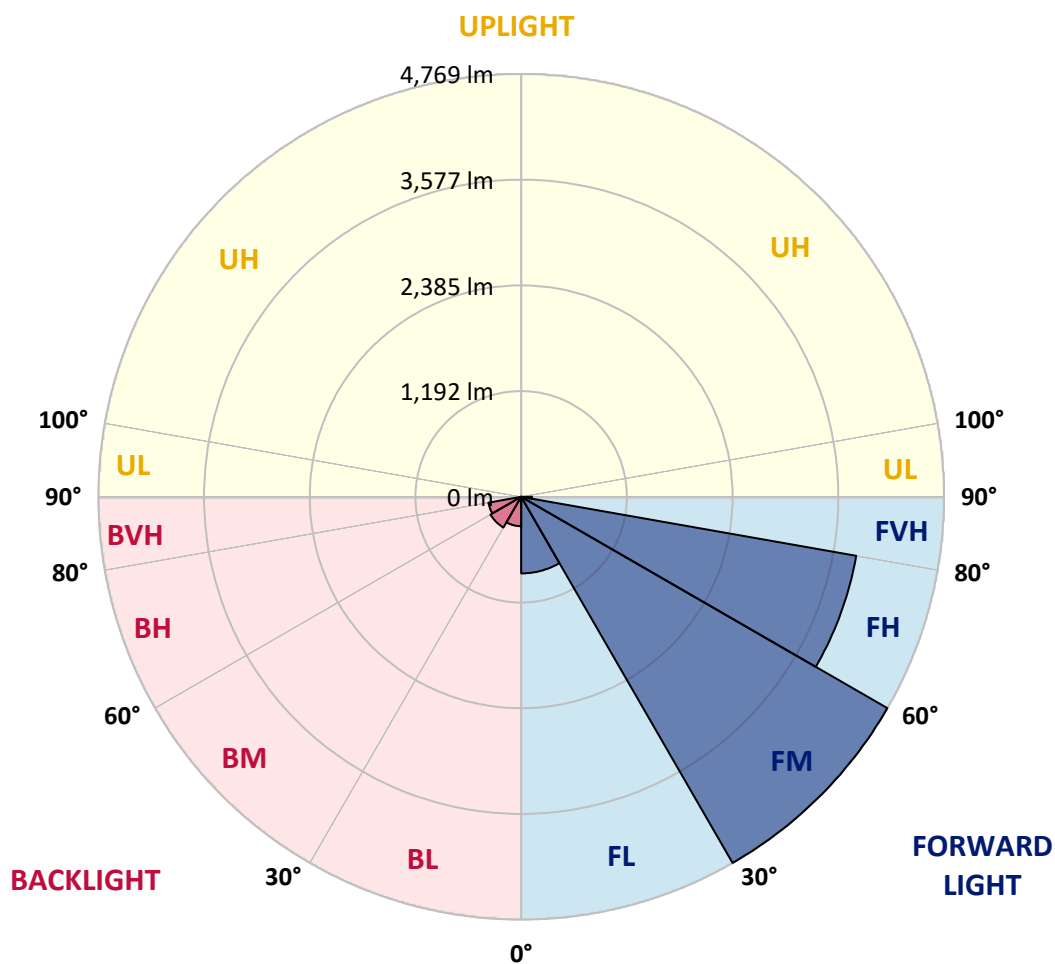
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	863.6	8.1			
FM	(30°-60°)	4769.3	44.6			
FH	(60°-80°)	3837.1	35.9			G2/5000
FVH	(80°-90°)	121.8	1.1			G2/225
BL	(0°-30°)	331.6	3.1	B1/500		
BM	(30°-60°)	399.4	3.7	B1/1000		
BH	(60°-80°)	374.5	3.5	B1/500		G1/500
BVH	(80°-90°)	5.7	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2360.4	2360.4	2360.4	2360.4	2360.4	2360.4	2360.4	2360.4	2360.4	2360.4	2360.4
2.5°	2440.3	2445.3	2444.6	2448.4	2457.1	2457.8	2449.0	2432.2	2428.5	2406.7	2368.5
5°	2250.5	2265.0	2273.6	2309.2	2349.2	2397.2	2433.4	2446.6	2444.6	2429.1	2371.7
7.5°	2033.9	2048.3	2058.2	2100.1	2153.2	2235.6	2329.9	2407.2	2414.1	2430.9	2369.2
10°	1889.7	1892.2	1905.9	1945.9	2001.4	2085.8	2198.1	2333.6	2354.2	2415.9	2363.0
12.5°	1771.1	1773.0	1791.1	1834.1	1893.5	1978.3	2096.3	2253.0	2284.8	2397.2	2361.6
15°	1686.9	1693.6	1709.9	1754.8	1818.0	1902.2	2023.3	2193.7	2231.8	2390.4	2372.9
17.5°	1658.8	1666.2	1671.2	1703.7	1761.2	1843.5	1967.8	2155.0	2198.1	2394.1	2394.8
20°	1688.0	1693.6	1682.5	1690.6	1726.2	1799.8	1920.9	2122.0	2173.1	2398.5	2422.9
22.5°	1797.4	1799.8	1769.2	1733.6	1727.4	1768.0	1884.0	2095.7	2150.7	2410.4	2455.9
25°	1984.5	1980.3	1930.3	1853.5	1781.0	1762.4	1862.3	2079.5	2139.4	2422.9	2490.2
27.5°	2210.6	2216.9	2148.1	2036.4	1898.5	1799.8	1859.1	2072.6	2134.4	2431.6	2520.3
30°	2485.3	2494.1	2415.4	2274.9	2077.0	1892.2	1887.8	2071.3	2131.3	2426.0	2522.7
32.5°	2765.6	2776.2	2714.4	2569.6	2315.4	2047.0	1952.8	2085.1	2137.5	2406.7	2508.4
35°	3059.0	3074.0	3032.8	2908.5	2638.8	2270.5	2066.9	2127.0	2166.9	2404.7	2494.1
37.5°	3464.2	3477.8	3400.4	3268.7	3030.3	2570.3	2250.5	2205.6	2236.2	2434.8	2497.7
40°	4069.1	4067.1	3867.4	3665.7	3460.3	2951.0	2508.4	2348.0	2363.5	2525.2	2544.0
42.5°	4728.3	4725.3	4429.9	4123.5	3938.0	3419.9	2847.4	2594.0	2583.3	2691.9	2663.8
45°	5236.5	5235.8	4994.9	4649.6	4513.0	3957.9	3285.7	2936.1	2919.7	2962.9	2884.8
47.5°	5453.1	5456.9	5335.7	5092.9	5150.4	4685.9	3838.1	3431.8	3407.4	3389.9	3271.2
50°	5284.6	5292.1	5302.1	5254.6	5617.9	5664.1	4579.2	4130.2	4118.4	4040.4	3855.0
52.5°	4733.9	4772.0	4889.4	5039.8	5780.3	6603.1	5740.9	4998.1	4934.3	4851.3	4647.2
55°	3806.3	3848.1	4071.0	4436.2	5538.7	7219.9	7369.0	6116.8	6010.6	5762.8	5468.1
57.5°	2519.0	2583.9	2907.3	3371.7	4836.9	7319.1	8993.4	7669.4	7299.7	6621.1	6289.1
60°	1387.8	1450.2	1801.0	2221.8	3493.4	6828.3	10085.9	9690.8	9037.7	7580.6	7286.1
62.5°	854.6	888.4	1147.4	1538.8	2095.0	5389.4	10311.9	12230.9	11475.0	8816.1	8490.2
65°	680.4	694.8	821.5	1257.9	1502.0	3205.6	9582.1	14167.4	13915.3	10311.9	9568.4
67°	660.5	666.2	726.0	1080.0	1415.9	1965.2	8027.6	14482.8	14738.7	11217.1	9602.1
67.5°	664.9	671.1	727.8	1030.7	1413.4	1806.0	7492.0	14358.6	14681.9	11288.8	9452.9
70°	641.2	660.5	833.4	1030.1	1344.1	1500.7	4486.7	12440.7	12777.3	10489.2	8020.8
72.5°	227.3	228.5	360.2	833.4	1461.5	1516.9	2253.0	9120.2	9369.2	8023.9	5782.8
75°	134.8	114.8	119.8	237.2	1396.6	1473.4	1299.7	5827.7	5920.6	4597.8	2928.4
77.5°	93.0	81.2	83.7	104.9	531.9	1452.7	1032.6	3039.0	2939.7	1612.5	623.7
80°	53.1	46.9	49.9	91.8	193.5	1355.4	973.8	1232.3	1050.6	273.4	172.3
82.5°	28.1	23.7	28.7	75.5	134.8	844.7	975.8	595.6	472.0	92.5	117.4
85°	10.0	8.0	13.7	51.8	89.9	259.1	904.5	500.6	393.4	44.9	89.3
87.5°	1.8	1.8	5.6	21.2	36.2	79.3	535.1	297.1	199.2	26.9	61.1
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°	2360.4	2360.4	2360.4	2360.4	2360.4	2360.4	2360.4	2360.4	2360.4	2360.4	2360.4
2.5°	2352.9	2326.1	2289.8	2245.5	2193.2	2147.0	2112.5	2077.0	2069.5	2057.1	2055.1
5°	2337.3	2291.1	2201.2	2098.3	1988.3	1889.1	1808.6	1736.7	1704.9	1677.4	1674.3
7.5°	2314.2	2245.0	2092.0	1925.9	1754.2	1598.1	1465.8	1372.2	1286.0	1244.8	1238.6
10°	2287.4	2188.1	1969.0	1738.7	1501.4	1281.1	1084.4	919.5	819.7	760.3	752.9
12.5°	2262.4	2132.5	1843.5	1544.5	1229.1	934.6	681.7	524.5	419.5	377.1	372.0
15°	2250.5	2087.6	1726.2	1346.0	944.5	594.9	372.7	288.5	254.1	244.0	243.4
17.5°	2249.3	2049.4	1611.2	1140.5	661.8	345.8	242.9	221.6	214.8	212.3	212.3
20°	2248.7	2013.3	1496.5	927.7	420.1	230.3	202.2	197.3	192.3	189.1	189.1
22.5°	2255.5	1980.9	1376.5	710.4	264.7	186.7	177.9	172.9	166.7	162.4	161.7
25°	2262.4	1955.8	1254.2	505.7	191.6	162.4	153.6	146.7	138.0	132.3	131.7
27.5°	2263.7	1924.7	1123.0	338.3	160.4	141.7	130.4	119.8	110.0	104.3	103.6
30°	2245.0	1872.2	977.7	228.5	141.7	123.0	107.9	96.8	87.4	83.0	83.0
32.5°	2208.1	1807.2	817.8	172.3	126.0	105.6	89.3	78.6	72.4	70.6	69.9
35°	2175.1	1737.3	653.6	146.1	113.0	89.3	73.1	66.2	62.4	61.8	61.1
37.5°	2155.6	1681.2	499.5	132.3	100.5	75.0	61.8	56.9	54.9	53.6	54.3
40°	2170.7	1634.4	369.0	121.1	88.1	62.4	52.5	49.9	48.1	47.4	47.4
42.5°	2236.2	1626.3	274.0	111.1	76.2	51.8	45.6	43.7	42.5	41.8	42.5
45°	2408.5	1676.1	212.8	101.7	64.4	43.7	38.7	38.1	37.4	37.4	37.4
47.5°	2667.6	1779.2	177.3	91.1	53.6	37.4	33.8	33.1	32.4	33.1	33.1
50°	3106.5	1967.8	158.5	80.6	44.4	31.8	28.7	28.7	28.7	28.7	29.4
52.5°	3773.9	2338.5	146.1	69.9	36.2	26.9	24.4	24.4	25.0	25.0	25.5
55°	4517.4	2830.5	134.8	59.3	30.6	22.5	20.0	20.6	21.2	21.9	21.9
57.5°	5323.8	3375.4	125.4	48.7	26.2	18.1	16.8	17.5	18.1	19.3	19.3
60°	6297.1	3965.4	111.8	38.1	21.9	14.3	13.1	14.3	16.3	17.5	18.1
62.5°	7365.9	4536.0	94.3	29.9	18.1	11.3	10.6	13.1	15.7	16.8	17.5
65°	8096.3	4715.2	72.4	24.4	13.7	8.0	8.7	11.9	15.0	16.8	16.8
67°	7800.4	4275.1	59.3	20.6	11.3	6.2	8.0	11.9	15.0	16.3	16.8
67.5°	7595.0	4102.8	56.9	20.0	10.6	6.2	8.0	11.9	15.0	16.8	16.8
70°	6179.8	3082.1	47.4	15.0	8.7	5.6	6.9	11.3	14.3	16.3	16.3
72.5°	4293.8	1900.3	42.5	10.6	7.5	5.0	6.2	10.6	13.7	15.7	16.3
75°	2041.4	688.0	36.2	8.0	6.9	4.4	5.6	10.6	13.7	15.7	15.7
77.5°	416.4	159.8	29.4	6.9	5.6	4.4	5.0	10.0	13.1	15.0	15.0
80°	136.7	61.8	21.9	6.2	5.6	4.4	5.0	9.4	13.1	14.3	15.0
82.5°	98.7	31.2	14.3	6.2	5.6	4.4	4.4	9.4	12.4	14.3	14.3
85°	75.5	21.9	9.4	6.2	5.6	4.4	4.4	8.7	11.9	13.7	13.7
87.5°	49.9	8.7	7.5	6.2	5.6	4.4	4.4	8.7	11.3	13.1	13.7
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)