

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: P322670

Luminaire Tested: **GAN-SA6A-827-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322670
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6A-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14550 lumens
Efficiency: N/A
Efficacy: 75.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

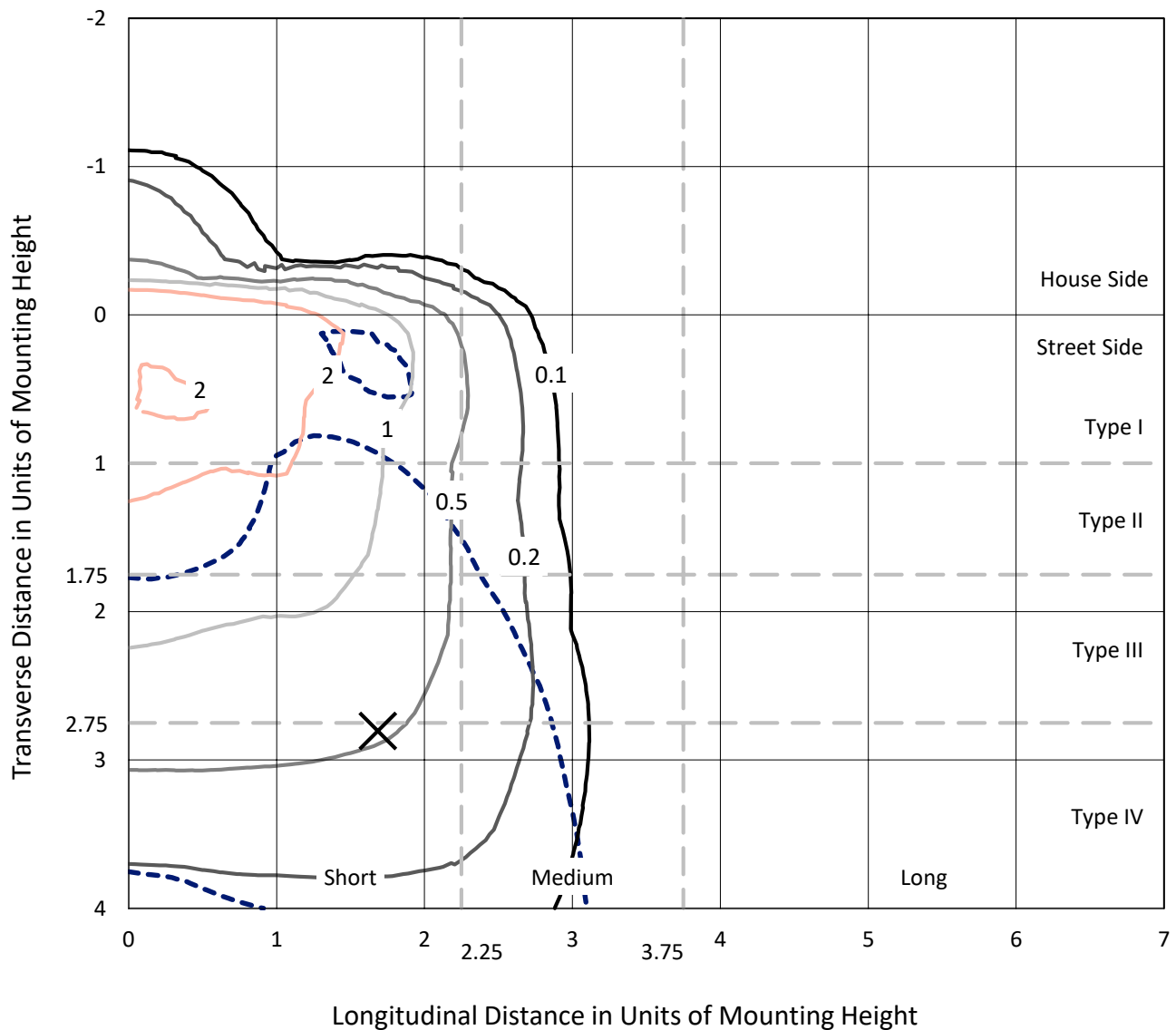
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

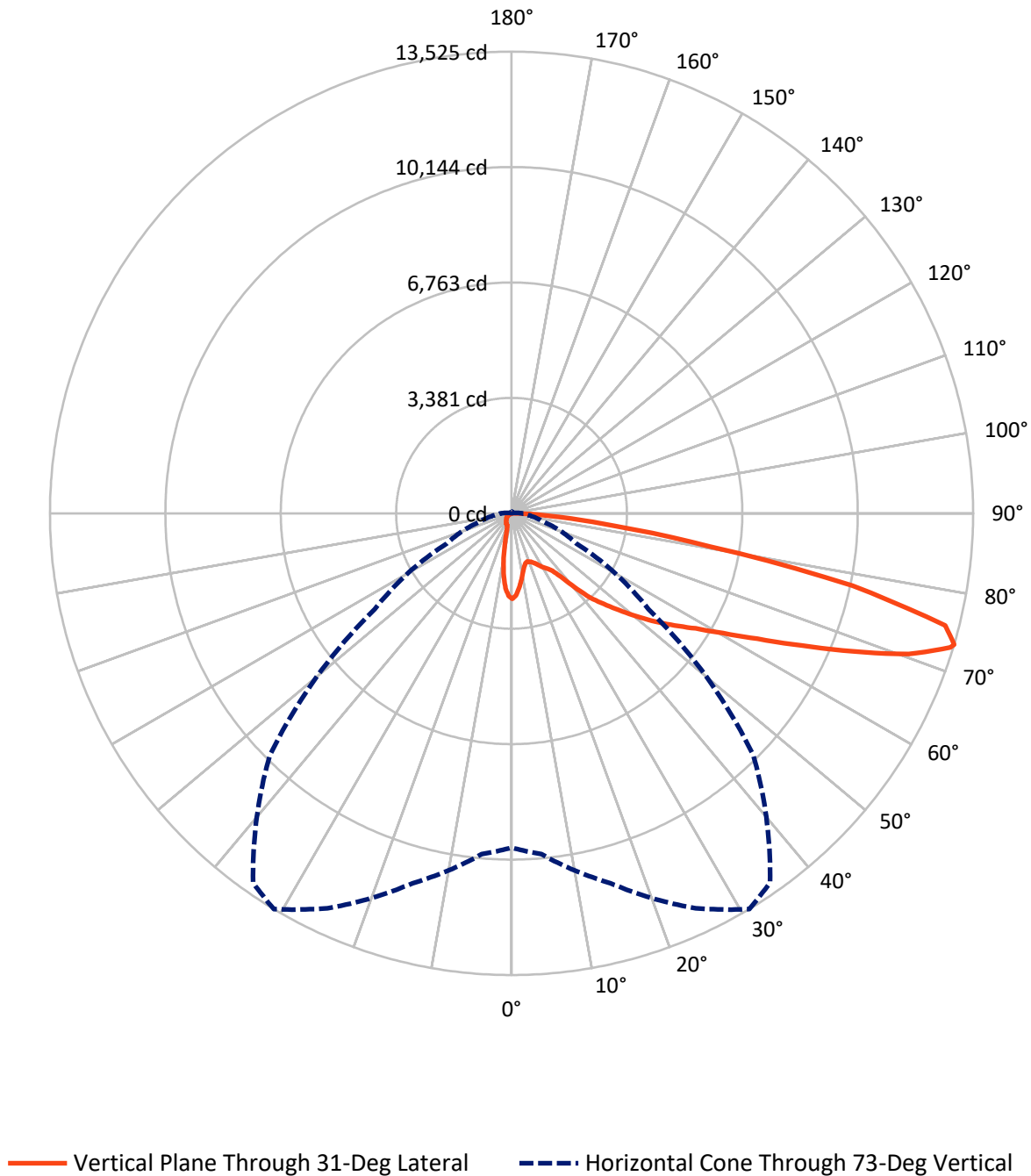
✕ Max cd
 - - - 1/2 Max cd



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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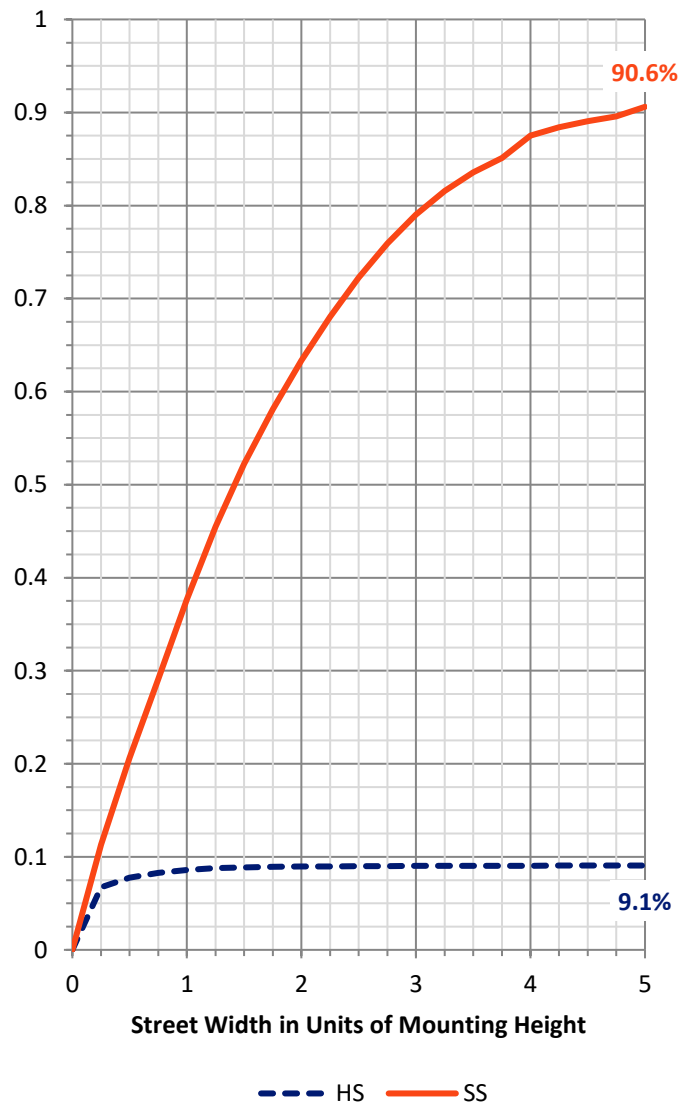
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1326.3	0.0	1326.3
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	13223.7	0.0	13223.7
	% Fixture	90.9	0.0	90.9
Total	Lumens	14550.0	0.0	14550.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.6	1.4
10°-20°	450.7	3.1
20°-30°	675.2	4.6
30°-40°	1074.3	7.4
40°-50°	1918.4	13.2
50°-60°	2976.9	20.5
60°-70°	3957.3	27.2
70°-80°	2976.7	20.5
80°-90°	312.8	2.1
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°	14550.0	100.0
0°-180°	14550.0	100.0

Coefficient of Utilization



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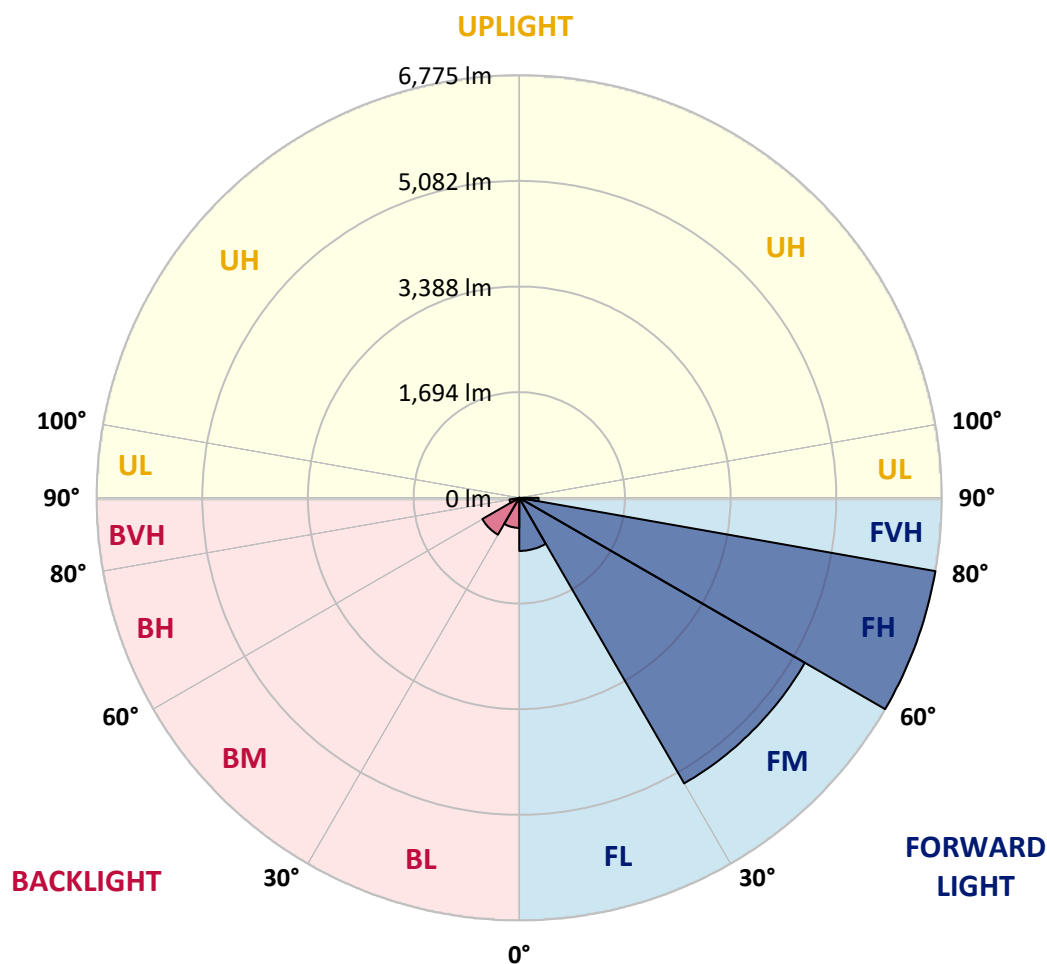
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	851.2	5.9			
FM	(30°-60°)	5287.0	36.3			
FH	(60°-80°)	6775.4	46.6			G3/7500
FVH	(80°-90°)	310.2	2.1			G3/500
BL	(0°-30°)	482.3	3.3	B1/500		
BM	(30°-60°)	682.7	4.7	B1/1000		
BH	(60°-80°)	158.7	1.1	B1/500		G1/500
BVH	(80°-90°)	2.6	0.0			G0/10
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°	31°	35°	45°	55°	65°	75°	85°
0°	2503.4	2503.4	2503.4	2503.4	2503.4	2503.4	2503.4	2503.4	2503.4	2503.4	2503.4
2.5°	2372.4	2382.3	2393.0	2395.1	2412.9	2413.6	2439.3	2458.5	2477.7	2496.2	2502.6
5°	2128.9	2145.2	2164.5	2183.7	2221.4	2236.4	2299.0	2363.1	2424.3	2482.7	2511.2
7.5°	1869.0	1887.5	1914.5	1962.2	2004.3	2033.4	2132.4	2246.3	2360.2	2467.8	2529.7
10°	1631.9	1649.0	1677.4	1728.0	1792.8	1832.7	1965.8	2123.9	2291.2	2454.2	2557.5
12.5°	1480.9	1490.2	1505.9	1560.0	1618.4	1663.2	1819.8	2015.6	2234.2	2453.5	2602.3
15°	1453.2	1456.0	1443.2	1467.4	1513.0	1556.4	1715.2	1928.1	2190.8	2464.9	2660.7
17.5°	1497.3	1495.9	1453.2	1450.3	1486.6	1522.2	1663.9	1867.6	2160.2	2491.3	2736.2
20°	1564.2	1559.3	1485.2	1471.7	1510.1	1543.6	1660.4	1844.8	2148.8	2535.4	2828.0
22.5°	1653.2	1644.7	1528.6	1514.4	1555.7	1590.6	1704.5	1866.8	2158.8	2594.5	2934.8
25°	1763.6	1750.8	1603.4	1587.7	1629.7	1664.6	1783.5	1930.2	2188.7	2666.4	3070.1
27.5°	1888.2	1869.7	1723.0	1682.4	1730.1	1766.4	1888.9	2027.0	2235.6	2742.6	3236.0
30°	2005.7	1981.5	1849.0	1782.1	1840.5	1881.1	2002.8	2142.4	2311.1	2860.1	3463.1
32.5°	2123.9	2096.8	1961.5	1881.8	1934.5	1978.6	2120.3	2301.2	2452.8	3039.5	3765.0
35°	2395.8	2367.4	2201.5	2069.8	2069.0	2094.0	2284.8	2518.3	2640.1	3289.4	4125.3
37.5°	2853.7	2837.3	2679.2	2429.3	2362.4	2334.6	2509.1	2777.5	2909.2	3633.3	4531.8
40°	3354.9	3340.7	3163.4	2937.0	2835.1	2766.8	2830.9	3138.5	3289.4	4053.4	4946.9
42.5°	3920.9	3853.3	3537.2	3469.5	3378.4	3326.4	3268.7	3583.4	3756.5	4510.5	5358.4
45°	4435.0	4321.1	3911.0	3808.4	3787.8	3800.6	3832.6	4181.5	4281.9	5053.7	5768.5
47.5°	4741.1	4651.4	4336.7	4238.5	4232.8	4317.5	4559.6	4857.2	4805.2	5527.2	6129.5
50°	5032.3	4951.2	4689.9	4714.1	4740.4	4855.8	5384.8	5552.1	5283.0	5956.5	6460.6
52.5°	5268.0	5144.1	5007.4	5143.4	5273.0	5458.8	6236.3	6175.8	5621.9	6298.3	6744.0
55°	5404.0	5347.8	5414.0	5550.7	5794.2	6096.1	7040.2	6694.8	5869.6	6610.1	6932.6
57.5°	5902.4	5792.0	5923.8	6041.9	6359.5	6781.7	7728.7	7081.5	6048.4	6803.1	6976.1
60°	6505.5	6416.5	6494.1	6690.6	7119.2	7615.4	8372.3	7396.9	6141.6	6927.0	6863.6
62.5°	7465.2	7347.7	7299.3	7519.3	8087.5	8629.3	8860.7	7615.4	6121.0	6872.1	6477.7
65°	8751.1	8629.3	8412.9	8612.2	9334.9	9717.2	9406.8	7661.7	5978.6	6428.6	5502.3
67.5°	10068.3	9980.0	9794.8	10130.9	10783.1	10906.3	9984.2	7549.2	5520.1	5212.5	3887.5
70°	10938.3	10900.6	11020.9	11764.2	12345.9	12310.3	10514.0	6944.8	4302.6	3205.4	1923.1
72.5°	10311.0	10491.9	11380.5	12728.2	13438.8	13148.3	10242.0	5332.8	2459.2	1233.2	556.1
73°	9791.3	10022.7	11218.8	12764.6	13525.0	13206.7	10013.4	4894.9	2096.1	973.3	421.5
75°	6811.6	7095.7	9287.9	11888.1	13122.0	12583.0	8346.7	2996.1	971.2	431.5	170.2
77.5°	3307.2	3517.2	5114.2	8589.4	10205.0	9831.2	5196.1	1116.4	438.6	269.8	78.3
80°	1234.6	1372.7	2220.0	4371.6	5897.4	6051.9	2285.5	422.2	291.9	217.2	39.9
82.5°	323.2	360.3	818.8	1949.4	3022.4	3163.4	720.5	212.9	213.6	178.7	24.2
85°	103.2	118.2	255.6	875.0	1424.0	1250.3	188.0	103.2	155.2	133.1	13.5
87.5°	12.8	16.4	81.2	205.8	314.0	174.4	29.2	30.6	66.2	74.0	7.8
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°	2503.4	2503.4	2503.4	2503.4	2503.4	2503.4	2503.4	2503.4	2503.4	2503.4	2503.4
2.5°	2509.1	2505.5	2506.2	2487.7	2475.6	2451.4	2426.5	2415.1	2403.0	2398.0	2403.0
5°	2521.9	2515.5	2496.9	2440.0	2379.5	2301.2	2227.8	2172.3	2102.5	2083.3	2103.2
7.5°	2541.8	2529.0	2474.9	2358.8	2224.3	2074.7	1906.7	1784.2	1683.9	1619.1	1642.6
10°	2571.0	2546.8	2437.9	2240.6	2000.0	1735.1	1496.6	1310.8	1179.1	1124.9	1122.8
12.5°	2620.1	2574.6	2392.3	2086.8	1725.9	1372.7	1060.2	858.7	751.9	682.8	681.4
15°	2674.2	2607.3	2334.6	1902.4	1406.9	983.3	682.8	529.7	460.7	438.6	435.7
17.5°	2740.5	2645.0	2259.9	1675.3	1073.0	651.5	445.7	401.6	398.7	396.6	396.6
20°	2823.8	2689.9	2163.7	1415.4	761.1	435.0	378.8	381.6	383.1	380.2	380.9
22.5°	2920.6	2735.5	2049.1	1136.3	514.8	363.8	362.4	366.0	367.4	366.0	366.7
25°	3033.1	2788.2	1909.6	843.7	371.7	345.3	348.9	353.9	357.4	357.4	357.4
27.5°	3172.6	2852.2	1741.5	588.8	321.1	326.1	336.1	345.3	350.3	351.7	351.7
30°	3354.2	2932.0	1540.0	403.7	291.9	300.5	319.0	336.8	346.0	347.5	348.2
32.5°	3583.4	3021.7	1306.5	298.3	267.0	273.4	293.3	323.2	341.0	343.9	343.9
35°	3846.2	3125.6	1055.2	259.9	249.2	251.3	267.0	301.2	332.5	340.3	341.0
37.5°	4133.8	3228.2	802.4	242.8	234.2	234.2	245.6	274.8	311.9	336.1	338.9
40°	4402.2	3290.1	562.5	229.3	220.7	220.7	230.7	252.0	286.9	323.2	331.1
42.5°	4650.0	3311.5	391.6	216.4	207.9	210.0	218.6	235.7	262.0	298.3	305.4
45°	4904.9	3307.9	285.5	201.5	195.1	201.5	207.9	220.7	239.9	260.6	262.0
47.5°	5097.1	3278.0	226.4	187.3	183.0	191.5	197.2	205.8	216.4	215.0	215.0
50°	5277.3	3205.4	182.3	168.0	170.9	180.8	183.7	186.5	187.3	173.7	172.3
52.5°	5414.0	3092.2	146.0	147.4	158.8	168.7	165.9	161.6	154.5	138.1	135.3
55°	5459.5	2874.3	114.6	121.8	141.0	153.8	143.1	133.9	120.3	106.8	104.0
57.5°	5376.9	2593.1	93.3	94.7	118.9	129.6	117.5	106.8	91.8	80.5	78.3
60°	5201.8	2280.5	76.9	71.2	91.8	101.1	93.3	82.6	69.1	60.5	59.8
62.5°	4854.3	1947.3	63.4	55.5	69.8	77.6	72.6	64.8	53.4	47.7	47.0
65°	4123.8	1557.8	51.3	44.9	54.1	60.5	56.2	50.6	42.0	37.7	37.0
67.5°	2878.6	1053.0	42.0	37.0	42.7	47.7	44.1	41.3	33.5	32.8	33.5
70°	1388.4	507.6	34.9	29.9	33.5	37.0	35.6	33.5	32.0	37.0	42.7
72.5°	398.0	170.2	27.8	24.9	27.1	29.2	30.6	29.9	34.9	44.9	52.0
73°	306.2	137.4	26.3	23.5	25.6	28.5	29.9	29.2	35.6	45.6	52.0
75°	131.0	66.2	19.9	19.2	21.4	24.9	26.3	26.3	35.6	46.3	49.8
77.5°	59.1	35.6	12.8	15.0	18.5	19.9	22.1	22.1	28.5	35.6	35.6
80°	33.5	19.2	10.0	11.4	13.5	13.5	13.5	12.1	12.8	14.2	15.7
82.5°	21.4	12.8	7.8	9.3	8.5	7.1	5.7	5.7	5.0	5.7	7.1
85°	12.1	7.1	7.1	5.7	3.6	2.8	3.6	2.8	0.7	0.0	0.7
87.5°	7.1	4.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)