

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: P322678

Luminaire Tested: **GAN-SA4B-827-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322678
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-SA4B-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 800mA 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: 12033 lumens
Efficiency: N/A
Efficacy: 70.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

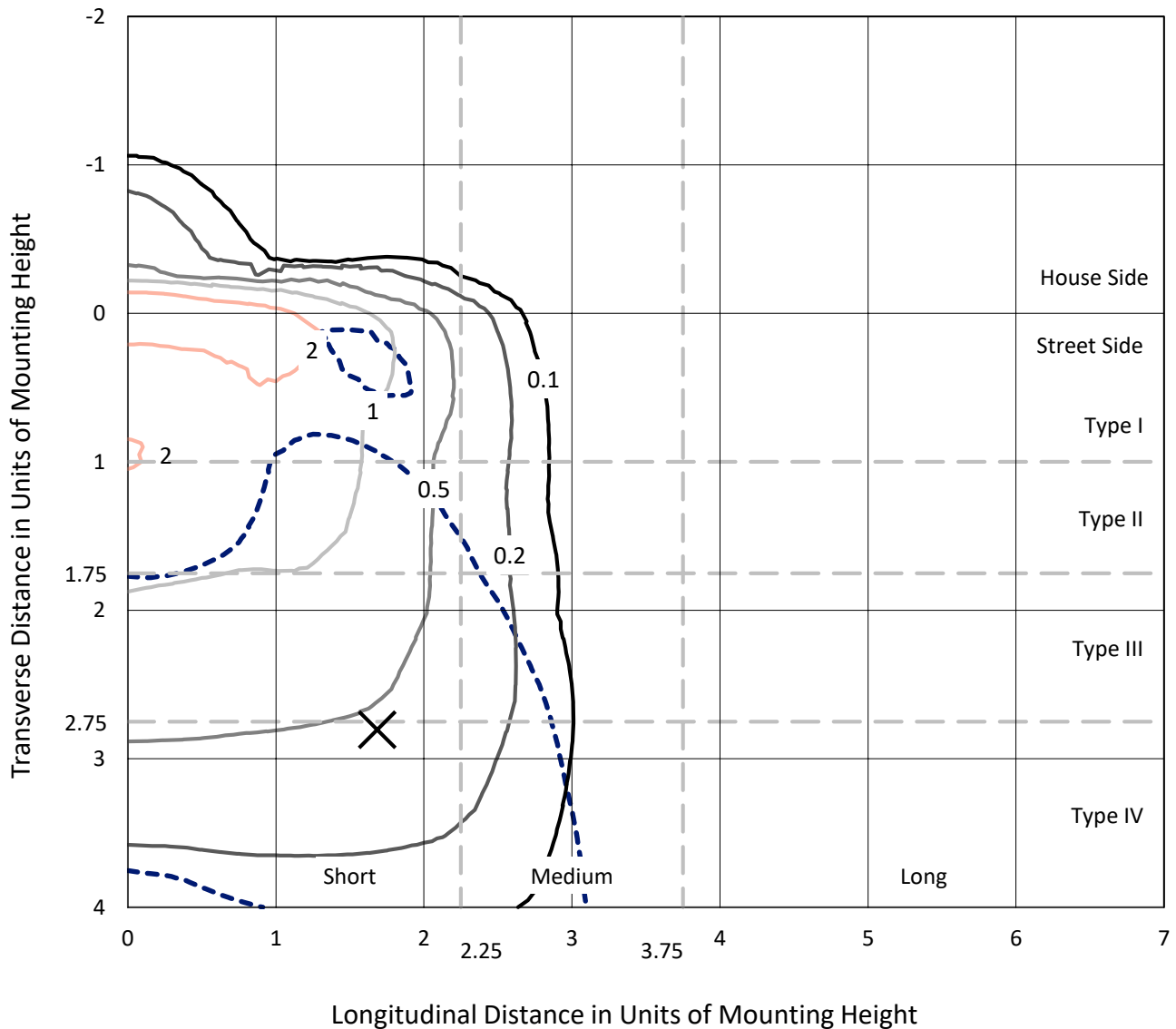
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

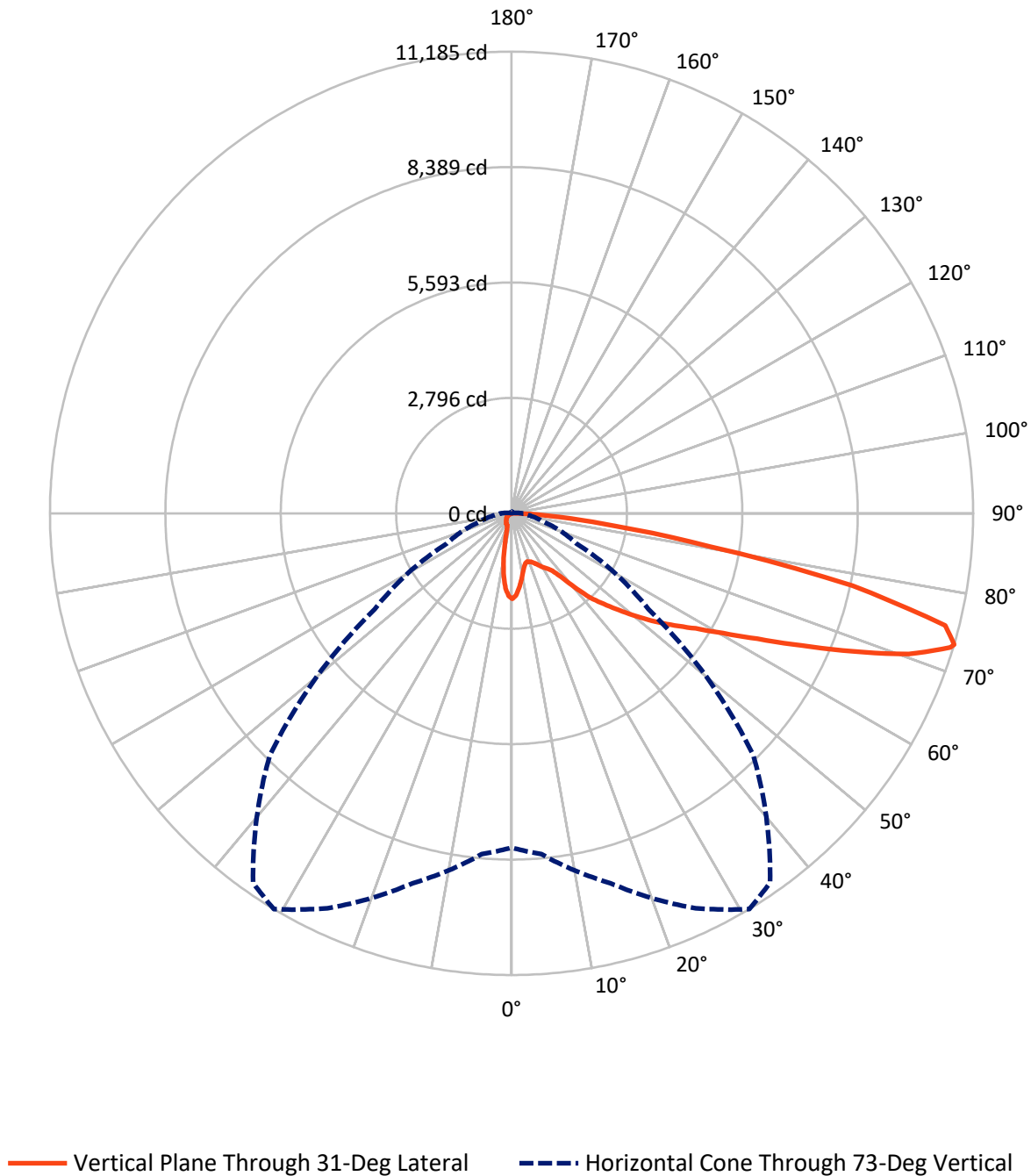
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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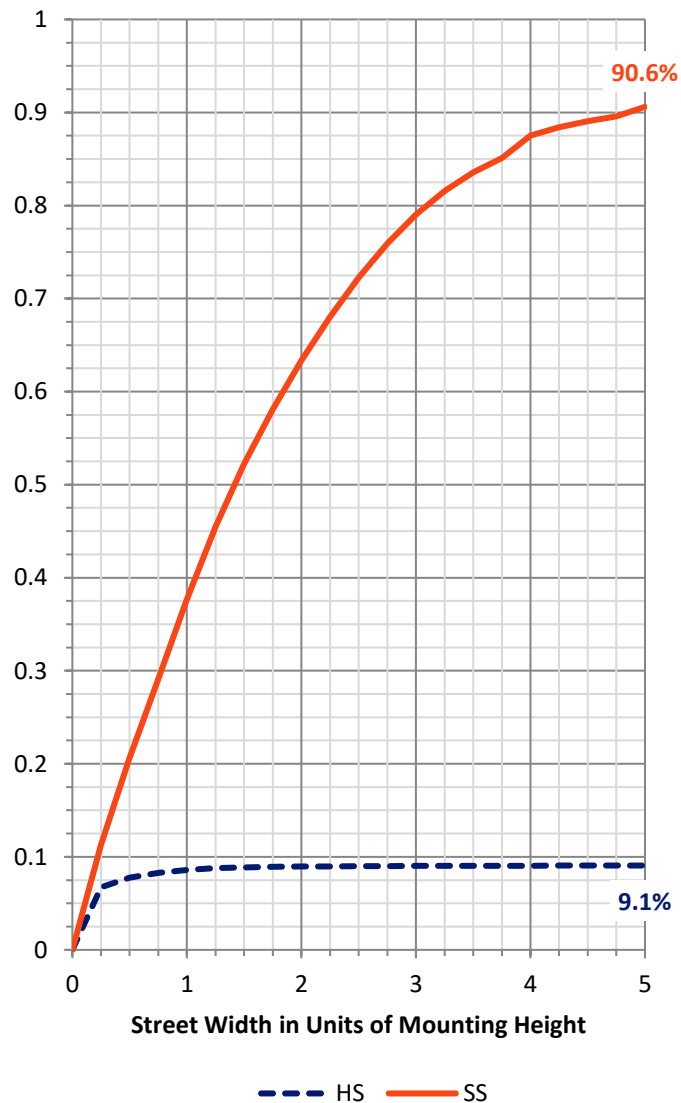
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1096.9	0.0	1096.9
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	10936.2	0.0	10936.2
	% Fixture	90.9	0.0	90.9
Total	Lumens	12033.0	0.0	12033.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.7	1.4
10°-20°	372.7	3.1
20°-30°	558.4	4.6
30°-40°	888.5	7.4
40°-50°	1586.6	13.2
50°-60°	2461.9	20.5
60°-70°	3272.8	27.2
70°-80°	2461.8	20.5
80°-90°	258.7	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°	12033.0	100.0
0°-180°	12033.0	100.0

Coefficient of Utilization



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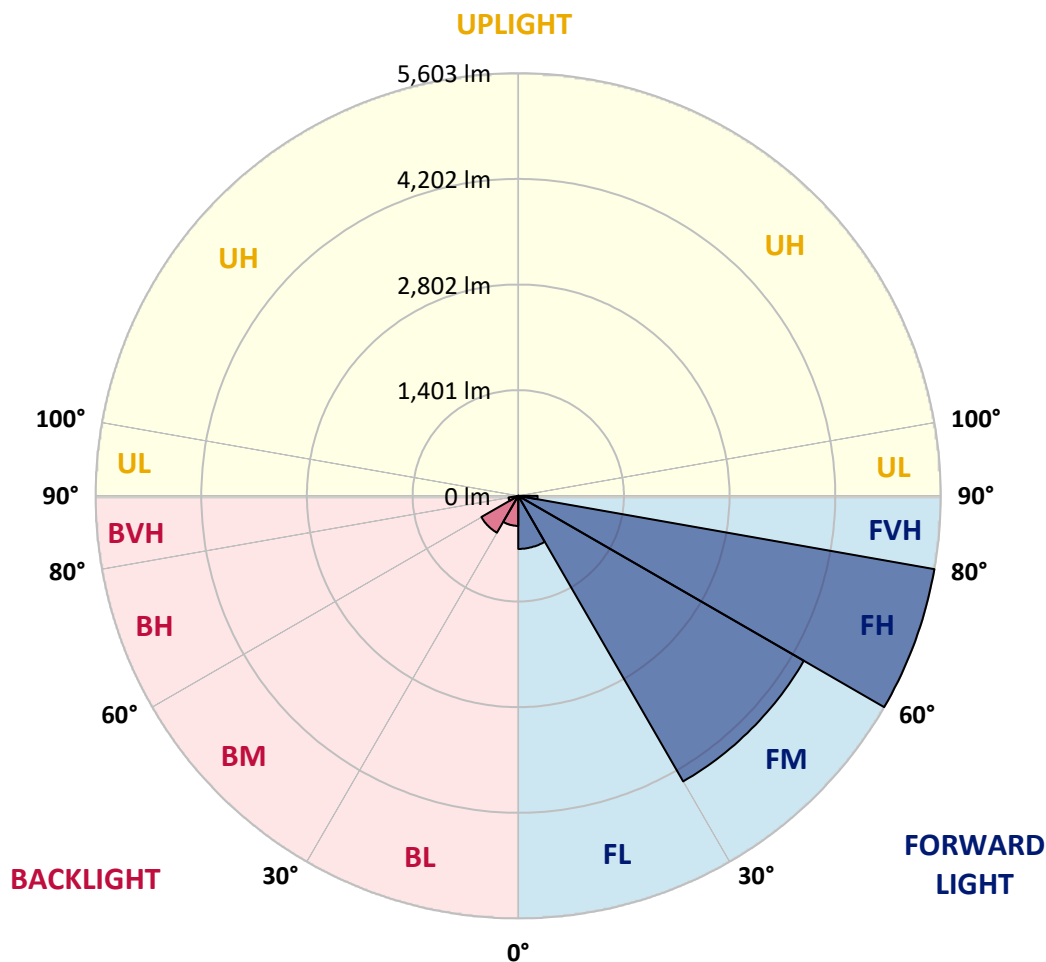
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	703.9	5.9			
FM	(30°-60°)	4372.4	36.3			
FH	(60°-80°)	5603.3	46.6			G3/7500
FVH	(80°-90°)	256.5	2.1			G3/500
BL	(0°-30°)	398.9	3.3	B1/500		
BM	(30°-60°)	564.6	4.7	B1/1000		
BH	(60°-80°)	131.2	1.1	B1/500		G1/500
BVH	(80°-90°)	2.2	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°	2070.3	2070.3	2070.3	2070.3	2070.3	2070.3	2070.3	2070.3	2070.3	2070.3	2070.3
2.5°	1962.0	1970.2	1979.0	1980.8	1995.5	1996.1	2017.3	2033.2	2049.1	2064.4	2069.7
5°	1760.6	1774.1	1790.0	1805.9	1837.1	1849.5	1901.3	1954.3	2004.9	2053.2	2076.8
7.5°	1545.7	1561.0	1583.3	1622.8	1657.5	1681.7	1763.5	1857.7	1951.9	2040.9	2092.1
10°	1349.6	1363.7	1387.3	1429.1	1482.7	1515.6	1625.7	1756.5	1894.8	2029.7	2115.1
12.5°	1224.8	1232.4	1245.4	1290.1	1338.4	1375.5	1505.0	1667.0	1847.7	2029.1	2152.1
15°	1201.8	1204.1	1193.5	1213.6	1251.2	1287.2	1418.5	1594.5	1811.8	2038.5	2200.4
17.5°	1238.3	1237.1	1201.8	1199.4	1229.5	1258.9	1376.1	1544.5	1786.5	2060.3	2262.8
20°	1293.6	1289.5	1228.3	1217.1	1248.9	1276.6	1373.1	1525.6	1777.1	2096.8	2338.8
22.5°	1367.2	1360.2	1264.2	1252.4	1286.6	1315.4	1409.6	1543.9	1785.3	2145.7	2427.1
25°	1458.5	1447.9	1326.0	1313.1	1347.8	1376.7	1475.0	1596.3	1810.0	2205.1	2539.0
27.5°	1561.6	1546.2	1425.0	1391.4	1430.8	1460.9	1562.1	1676.4	1848.9	2268.1	2676.2
30°	1658.7	1638.7	1529.2	1473.8	1522.1	1555.7	1656.4	1771.8	1911.3	2365.3	2864.0
32.5°	1756.5	1734.1	1622.2	1556.3	1599.8	1636.3	1753.5	1903.1	2028.5	2513.7	3113.7
35°	1981.4	1957.8	1820.6	1711.7	1711.1	1731.7	1889.5	2082.7	2183.4	2720.4	3411.6
37.5°	2360.0	2346.5	2215.7	2009.1	1953.7	1930.8	2075.0	2297.0	2405.9	3004.8	3747.9
40°	2774.5	2762.8	2616.1	2428.9	2344.7	2288.2	2341.2	2595.5	2720.4	3352.2	4091.1
42.5°	3242.6	3186.7	2925.3	2869.3	2794.0	2751.0	2703.3	2963.5	3106.6	3730.2	4431.5
45°	3667.8	3573.6	3234.4	3149.6	3132.5	3143.1	3169.6	3458.2	3541.2	4179.5	4770.6
47.5°	3921.0	3846.8	3586.5	3505.3	3500.6	3570.6	3770.8	4017.0	3974.0	4571.0	5069.2
50°	4161.8	4094.7	3878.6	3898.6	3920.4	4015.8	4453.3	4591.6	4369.1	4926.1	5343.0
52.5°	4356.7	4254.2	4141.2	4253.7	4360.8	4514.5	5157.5	5107.5	4649.3	5208.7	5577.3
55°	4469.2	4422.7	4477.4	4590.5	4791.8	5041.5	5822.3	5536.7	4854.3	5466.6	5733.4
57.5°	4881.3	4790.1	4899.0	4996.8	5259.4	5608.5	6391.7	5856.4	5002.1	5626.2	5769.3
60°	5380.1	5306.5	5370.7	5533.2	5887.6	6298.1	6924.0	6117.3	5079.2	5728.7	5676.3
62.5°	6173.8	6076.7	6036.6	6218.6	6688.4	7136.5	7327.9	6298.1	5062.1	5683.3	5357.1
65°	7237.2	7136.5	6957.5	7122.4	7720.1	8036.3	7779.5	6336.3	4944.3	5316.5	4550.4
67.5°	8326.5	8253.5	8100.4	8378.4	8917.7	9019.6	8257.1	6243.3	4565.1	4310.8	3215.0
70°	9046.1	9014.9	9114.4	9729.1	10210.2	10180.8	8695.2	5743.4	3558.3	2650.9	1590.4
72.5°	8527.3	8676.9	9411.7	10526.4	11114.0	10873.8	8470.2	4410.3	2033.8	1019.8	459.9
73°	8097.5	8288.9	9278.1	10556.4	11185.3	10922.1	8281.2	4048.2	1733.5	804.9	348.6
75°	5633.3	5868.2	7681.2	9831.6	10852.0	10406.3	6902.8	2477.8	803.2	356.8	140.7
77.5°	2735.1	2908.8	4229.5	7103.6	8439.6	8130.5	4297.2	923.3	362.7	223.2	64.8
80°	1021.0	1135.3	1836.0	3615.4	4877.2	5005.0	1890.1	349.2	241.4	179.6	33.0
82.5°	267.3	297.9	677.1	1612.2	2499.6	2616.1	595.9	176.1	176.6	147.8	20.0
85°	85.4	97.7	211.4	723.7	1177.6	1034.0	155.4	85.4	128.4	110.1	11.2
87.5°	10.6	13.5	67.1	170.2	259.7	144.3	24.1	25.3	54.8	61.2	6.5
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°	2070.3	2070.3	2070.3	2070.3	2070.3	2070.3	2070.3	2070.3	2070.3	2070.3	2070.3
2.5°	2075.0	2072.1	2072.7	2057.3	2047.3	2027.3	2006.7	1997.3	1987.3	1983.2	1987.3
5°	2085.6	2080.3	2065.0	2017.9	1967.8	1903.1	1842.4	1796.5	1738.8	1722.9	1739.4
7.5°	2102.1	2091.5	2046.7	1950.8	1839.5	1715.8	1576.9	1475.6	1392.6	1339.0	1358.4
10°	2126.2	2106.2	2016.1	1853.0	1654.0	1435.0	1237.7	1084.0	975.1	930.3	928.6
12.5°	2166.9	2129.2	1978.4	1725.8	1427.3	1135.3	876.8	710.1	621.8	564.7	563.5
15°	2211.6	2156.3	1930.8	1573.3	1163.5	813.2	564.7	438.1	381.0	362.7	360.4
17.5°	2266.4	2187.5	1868.9	1385.5	887.4	538.8	368.6	332.1	329.7	328.0	328.0
20°	2335.3	2224.6	1789.4	1170.6	629.5	359.8	313.3	315.6	316.8	314.4	315.0
22.5°	2415.4	2262.3	1694.6	939.8	425.7	300.9	299.7	302.7	303.8	302.7	303.2
25°	2508.4	2305.8	1579.2	697.8	307.4	285.6	288.5	292.6	295.6	295.6	295.6
27.5°	2623.8	2358.8	1440.3	487.0	265.6	269.7	277.9	285.6	289.7	290.9	290.9
30°	2773.9	2424.8	1273.6	333.9	241.4	248.5	263.8	278.5	286.2	287.3	287.9
32.5°	2963.5	2499.0	1080.5	246.7	220.8	226.1	242.6	267.3	282.0	284.4	284.4
35°	3180.8	2584.9	872.6	214.9	206.1	207.9	220.8	249.1	275.0	281.5	282.0
37.5°	3418.7	2669.7	663.6	200.8	193.7	193.7	203.1	227.3	257.9	277.9	280.3
40°	3640.7	2721.0	465.2	189.6	182.5	182.5	190.8	208.4	237.3	267.3	273.8
42.5°	3845.6	2738.6	323.9	179.0	171.9	173.7	180.8	194.9	216.7	246.7	252.6
45°	4056.4	2735.7	236.1	166.6	161.3	166.6	171.9	182.5	198.4	215.5	216.7
47.5°	4215.4	2710.9	187.2	154.9	151.3	158.4	163.1	170.2	179.0	177.8	177.8
50°	4364.4	2650.9	150.7	139.0	141.3	149.6	151.9	154.3	154.9	143.7	142.5
52.5°	4477.4	2557.3	120.7	121.9	131.3	139.6	137.2	133.7	127.8	114.2	111.9
55°	4515.1	2377.1	94.8	100.7	116.6	127.2	118.4	110.7	99.5	88.3	86.0
57.5°	4446.8	2144.5	77.1	78.3	98.3	107.2	97.2	88.3	76.0	66.5	64.8
60°	4301.9	1886.0	63.6	58.9	76.0	83.6	77.1	68.3	57.1	50.0	49.5
62.5°	4014.6	1610.4	52.4	45.9	57.7	64.2	60.1	53.6	44.2	39.5	38.9
65°	3410.5	1288.3	42.4	37.1	44.8	50.0	46.5	41.8	34.7	31.2	30.6
67.5°	2380.6	870.9	34.7	30.6	35.3	39.5	36.5	34.2	27.7	27.1	27.7
70°	1148.2	419.8	28.9	24.7	27.7	30.6	29.4	27.7	26.5	30.6	35.3
72.5°	329.2	140.7	23.0	20.6	22.4	24.1	25.3	24.7	28.9	37.1	43.0
73°	253.2	113.6	21.8	19.4	21.2	23.6	24.7	24.1	29.4	37.7	43.0
75°	108.3	54.8	16.5	15.9	17.7	20.6	21.8	21.8	29.4	38.3	41.2
77.5°	48.9	29.4	10.6	12.4	15.3	16.5	18.3	18.3	23.6	29.4	29.4
80°	27.7	15.9	8.2	9.4	11.2	11.2	11.2	10.0	10.6	11.8	13.0
82.5°	17.7	10.6	6.5	7.7	7.1	5.9	4.7	4.7	4.1	4.7	5.9
85°	10.0	5.9	5.9	4.7	2.9	2.4	2.9	2.4	0.6	0.0	0.6
87.5°	5.9	3.5	1.8	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)