

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: P322637

Luminaire Tested: **GAN-SA3B-760-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322637
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-SA3B-760-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 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: 12389 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

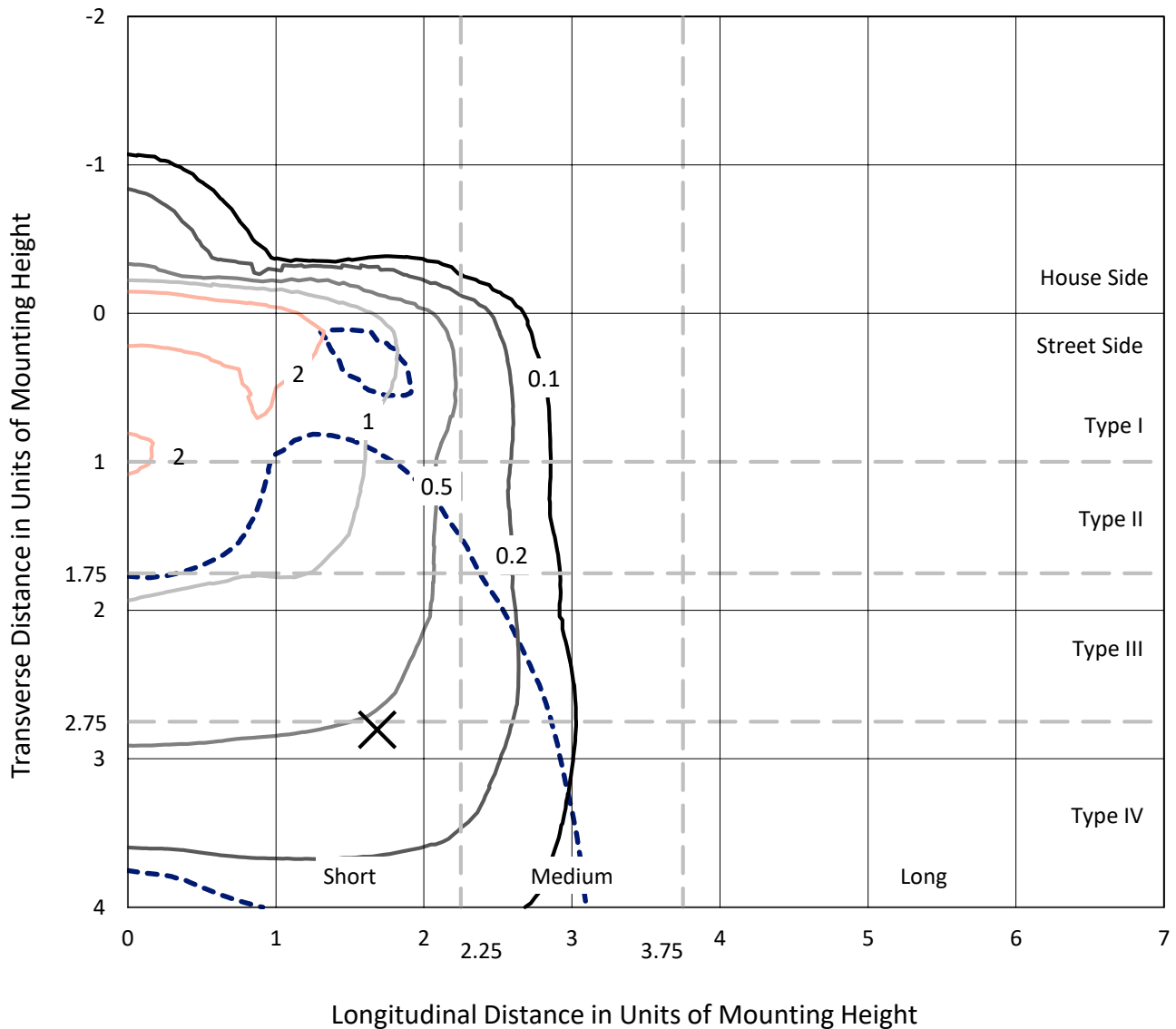
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

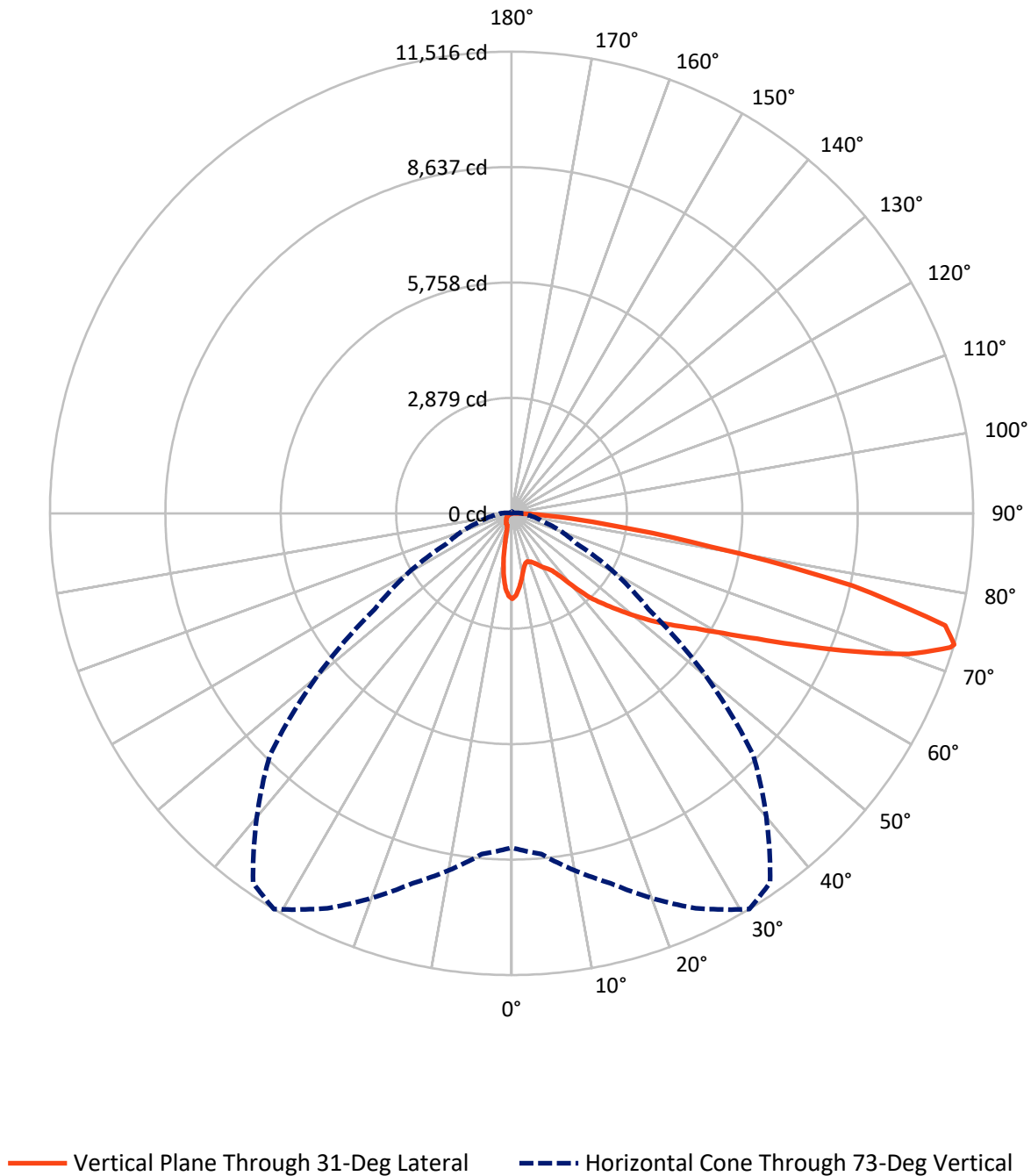
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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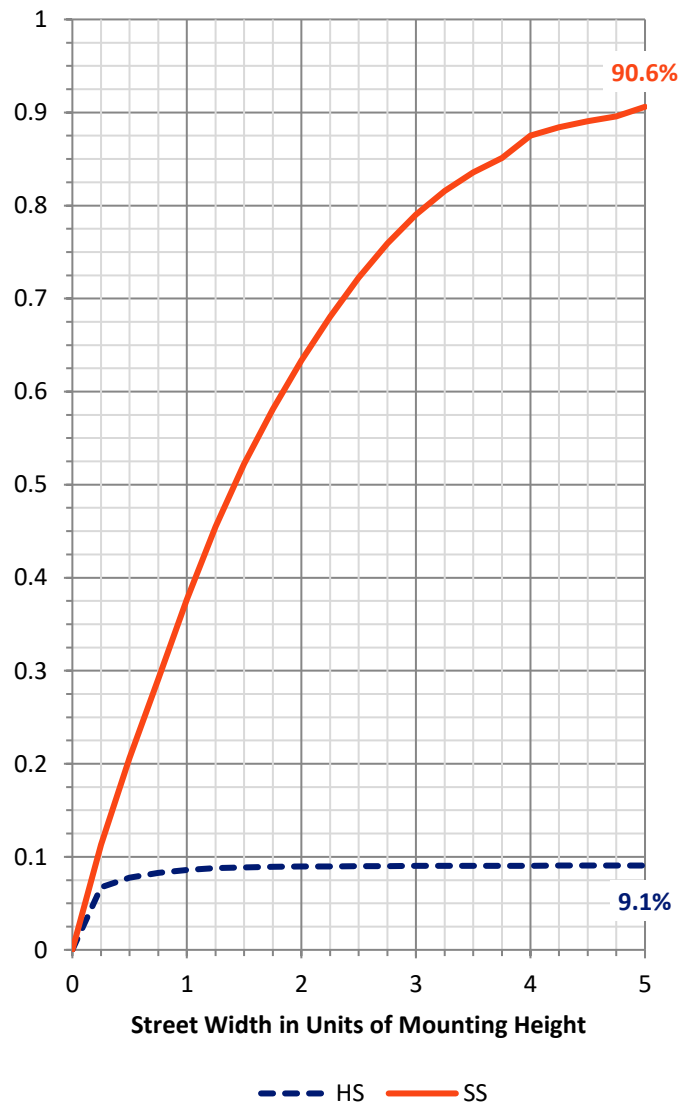
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1129.3	0.0	1129.3
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	11259.7	0.0	11259.7
	% Fixture	90.9	0.0	90.9
Total	Lumens	12389.0	0.0	12389.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.7	1.4
10°-20°	383.7	3.1
20°-30°	575.0	4.6
30°-40°	914.8	7.4
40°-50°	1633.5	13.2
50°-60°	2534.7	20.5
60°-70°	3369.6	27.2
70°-80°	2534.6	20.5
80°-90°	266.3	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°	12389.0	100.0
0°-180°	12389.0	100.0

Coefficient of Utilization



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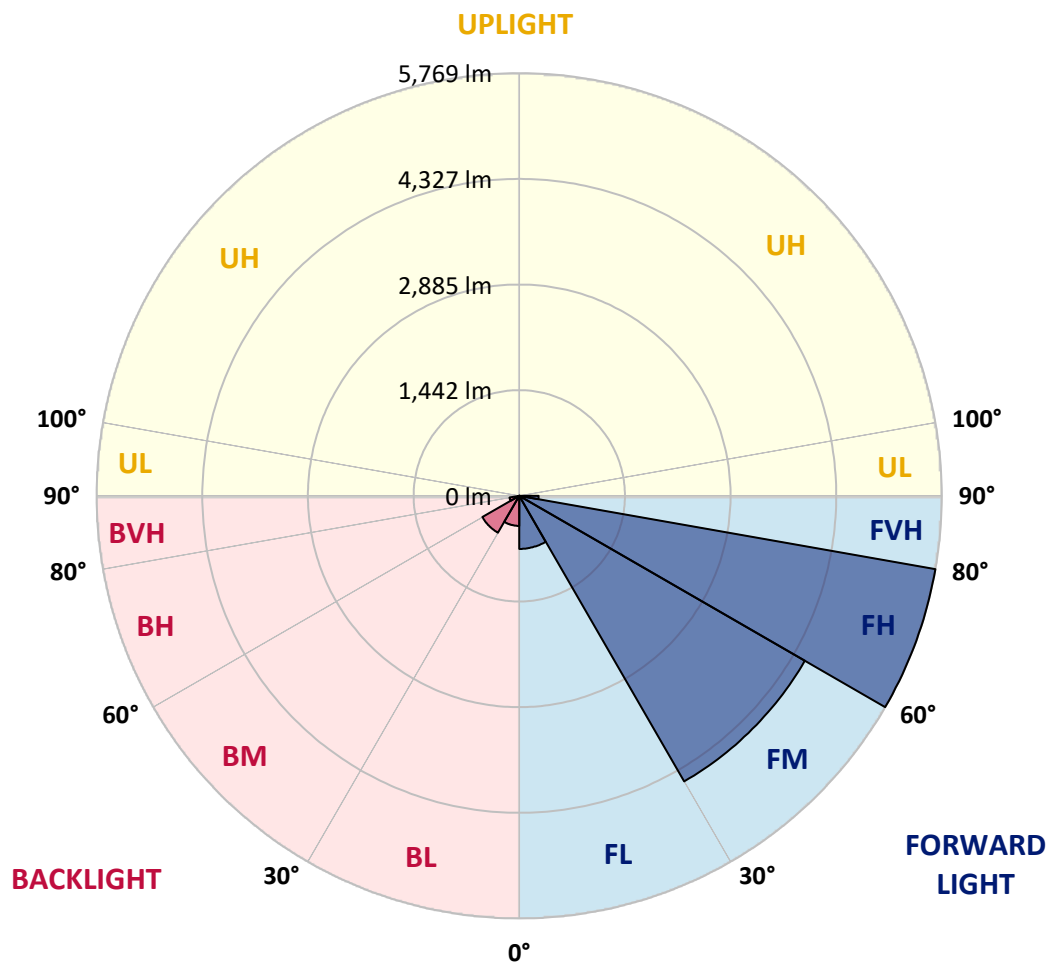
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	724.8	5.9			
FM	(30°-60°)	4501.7	36.3			
FH	(60°-80°)	5769.1	46.6			G3/7500
FVH	(80°-90°)	264.1	2.1			G3/500
BL	(0°-30°)	410.7	3.3	B1/500		
BM	(30°-60°)	581.3	4.7	B1/1000		
BH	(60°-80°)	135.1	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°	2131.6	2131.6	2131.6	2131.6	2131.6	2131.6	2131.6	2131.6	2131.6	2131.6	2131.6
2.5°	2020.0	2028.5	2037.6	2039.4	2054.6	2055.2	2077.0	2093.4	2109.7	2125.5	2130.9
5°	1812.7	1826.6	1843.0	1859.3	1891.5	1904.2	1957.6	2012.1	2064.3	2114.0	2138.2
7.5°	1591.4	1607.2	1630.2	1670.8	1706.6	1731.4	1815.7	1912.7	2009.7	2101.2	2154.0
10°	1389.5	1404.1	1428.3	1471.4	1526.5	1560.5	1673.8	1808.4	1950.9	2089.7	2177.6
12.5°	1261.0	1268.9	1282.2	1328.3	1378.0	1416.2	1549.6	1716.3	1902.4	2089.1	2215.8
15°	1237.3	1239.8	1228.9	1249.5	1288.3	1325.2	1460.4	1641.7	1865.4	2098.8	2265.5
17.5°	1274.9	1273.7	1237.3	1234.9	1265.8	1296.1	1416.8	1590.2	1839.3	2121.2	2329.8
20°	1331.9	1327.7	1264.6	1253.1	1285.8	1314.3	1413.8	1570.8	1829.6	2158.8	2408.0
22.5°	1407.7	1400.4	1301.6	1289.5	1324.6	1354.3	1451.3	1589.6	1838.1	2209.2	2498.9
25°	1501.7	1490.8	1365.3	1351.9	1387.7	1417.4	1518.6	1643.5	1863.6	2270.4	2614.1
27.5°	1607.8	1592.0	1467.1	1432.6	1473.2	1504.1	1608.4	1726.0	1903.6	2335.3	2755.4
30°	1707.8	1687.2	1574.4	1517.4	1567.1	1601.7	1705.4	1824.2	1967.9	2435.3	2948.8
32.5°	1808.4	1785.4	1670.2	1602.3	1647.2	1684.8	1805.4	1959.4	2088.5	2588.1	3205.8
35°	2040.0	2015.8	1874.5	1762.4	1761.7	1783.0	1945.4	2144.3	2248.0	2800.8	3512.6
37.5°	2429.8	2415.9	2281.3	2068.5	2011.5	1987.9	2136.4	2365.0	2477.1	3093.7	3858.7
40°	2856.6	2844.5	2693.5	2500.8	2414.1	2355.9	2410.4	2672.3	2800.8	3451.3	4212.2
42.5°	3338.6	3281.0	3011.8	2954.2	2876.6	2832.4	2783.3	3051.2	3198.5	3840.6	4562.6
45°	3776.3	3679.3	3330.1	3242.8	3225.2	3236.1	3263.4	3560.5	3645.9	4303.1	4911.8
47.5°	4037.0	3960.6	3692.6	3609.0	3604.1	3676.3	3882.4	4135.8	4091.5	4706.3	5219.2
50°	4284.9	4215.8	3993.3	4013.9	4036.4	4134.6	4585.0	4727.5	4498.3	5071.8	5501.1
52.5°	4485.6	4380.1	4263.7	4379.5	4489.8	4648.1	5310.1	5258.6	4786.9	5362.8	5742.3
55°	4601.4	4553.5	4609.9	4726.3	4933.6	5190.7	5994.5	5700.5	4997.9	5628.4	5903.0
57.5°	5025.8	4931.8	5043.9	5144.6	5415.0	5774.5	6580.8	6029.7	5150.0	5792.7	5940.0
60°	5539.2	5463.5	5529.5	5696.9	6061.8	6484.4	7128.8	6298.3	5229.5	5898.1	5844.2
62.5°	6356.5	6256.4	6215.2	6402.5	6886.3	7347.7	7544.7	6484.4	5211.9	5851.5	5515.6
65°	7451.3	7347.7	7163.4	7333.1	7948.5	8274.0	8009.7	6523.8	5090.6	5473.8	4685.1
67.5°	8572.9	8497.7	8340.1	8626.2	9181.6	9286.4	8501.4	6428.0	4700.2	4438.3	3310.1
70°	9313.7	9281.6	9384.0	10017.0	10512.3	10482.0	8952.4	5913.3	3663.5	2729.3	1637.5
72.5°	8779.6	8933.6	9690.2	10837.8	11442.8	11195.5	8720.8	4540.8	2094.0	1050.0	473.5
73°	8337.1	8534.1	9552.6	10868.7	11516.2	11245.2	8526.2	4167.9	1784.8	828.7	358.9
75°	5799.9	6041.8	7908.4	10122.5	11173.1	10714.1	7107.0	2551.1	826.9	367.4	144.9
77.5°	2816.0	2994.8	4354.6	7313.7	8689.3	8371.0	4424.4	950.6	373.4	229.8	66.7
80°	1051.2	1168.8	1890.3	3722.3	5021.5	5153.1	1946.0	359.5	248.6	184.9	33.9
82.5°	275.2	306.8	697.2	1659.9	2573.5	2693.5	613.5	181.3	181.9	152.2	20.6
85°	87.9	100.6	217.6	745.1	1212.5	1064.6	160.0	87.9	132.2	113.4	11.5
87.5°	10.9	13.9	69.1	175.2	267.4	148.5	24.9	26.1	56.4	63.0	6.7
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°	2131.6	2131.6	2131.6	2131.6	2131.6	2131.6	2131.6	2131.6	2131.6	2131.6	2131.6
2.5°	2136.4	2133.4	2134.0	2118.2	2107.9	2087.3	2066.1	2056.4	2046.1	2041.8	2046.1
5°	2147.3	2141.9	2126.1	2077.6	2026.1	1959.4	1896.9	1849.6	1790.2	1773.9	1790.8
7.5°	2164.3	2153.4	2107.3	2008.5	1893.9	1766.6	1623.5	1519.2	1433.8	1378.6	1398.6
10°	2189.1	2168.5	2075.8	1907.8	1702.9	1477.4	1274.3	1116.1	1003.9	957.9	956.0
12.5°	2231.0	2192.2	2037.0	1776.9	1469.5	1168.8	902.7	731.1	640.2	581.4	580.2
15°	2277.1	2220.1	1987.9	1619.9	1197.9	837.2	581.4	451.0	392.2	373.4	371.0
17.5°	2333.4	2252.2	1924.2	1426.5	913.6	554.7	379.5	341.9	339.5	337.7	337.7
20°	2404.4	2290.4	1842.4	1205.2	648.1	370.4	322.5	324.9	326.2	323.7	324.3
22.5°	2486.8	2329.2	1744.8	967.6	438.3	309.8	308.6	311.6	312.8	311.6	312.2
25°	2582.6	2374.1	1625.9	718.4	316.5	294.0	297.1	301.3	304.3	304.3	304.3
27.5°	2701.4	2428.6	1482.9	501.4	273.4	277.7	286.1	294.0	298.3	299.5	299.5
30°	2856.0	2496.5	1311.3	343.7	248.6	255.8	271.6	286.8	294.6	295.8	296.5
32.5°	3051.2	2572.9	1112.5	254.0	227.3	232.8	249.8	275.2	290.4	292.8	292.8
35°	3274.9	2661.4	898.5	221.3	212.2	214.0	227.3	256.4	283.1	289.8	290.4
37.5°	3519.9	2748.7	683.2	206.7	199.5	199.5	209.2	234.0	265.5	286.1	288.6
40°	3748.4	2801.5	478.9	195.2	187.9	187.9	196.4	214.6	244.3	275.2	281.9
42.5°	3959.4	2819.6	333.4	184.3	177.0	178.8	186.1	200.7	223.1	254.0	260.1
45°	4176.4	2816.6	243.1	171.6	166.1	171.6	177.0	187.9	204.3	221.9	223.1
47.5°	4340.1	2791.1	192.8	159.4	155.8	163.1	167.9	175.2	184.3	183.1	183.1
50°	4493.5	2729.3	155.2	143.1	145.5	154.0	156.4	158.8	159.4	147.9	146.7
52.5°	4609.9	2632.9	124.3	125.5	135.2	143.7	141.3	137.6	131.6	117.6	115.2
55°	4648.7	2447.4	97.6	103.7	120.0	130.9	121.9	114.0	102.5	90.9	88.5
57.5°	4578.4	2207.9	79.4	80.6	101.2	110.3	100.0	90.9	78.2	68.5	66.7
60°	4429.2	1941.8	65.5	60.6	78.2	86.1	79.4	70.3	58.8	51.5	50.9
62.5°	4133.4	1658.1	54.0	47.3	59.4	66.1	61.8	55.2	45.5	40.6	40.0
65°	3511.4	1326.5	43.6	38.2	46.1	51.5	47.9	43.0	35.8	32.1	31.5
67.5°	2451.0	896.6	35.8	31.5	36.4	40.6	37.6	35.2	28.5	27.9	28.5
70°	1182.2	432.3	29.7	25.5	28.5	31.5	30.3	28.5	27.3	31.5	36.4
72.5°	338.9	144.9	23.6	21.2	23.0	24.9	26.1	25.5	29.7	38.2	44.3
73°	260.7	117.0	22.4	20.0	21.8	24.2	25.5	24.9	30.3	38.8	44.3
75°	111.5	56.4	17.0	16.4	18.2	21.2	22.4	22.4	30.3	39.4	42.4
77.5°	50.3	30.3	10.9	12.7	15.8	17.0	18.8	18.8	24.2	30.3	30.3
80°	28.5	16.4	8.5	9.7	11.5	11.5	11.5	10.3	10.9	12.1	13.3
82.5°	18.2	10.9	6.7	7.9	7.3	6.1	4.8	4.8	4.2	4.8	6.1
85°	10.3	6.1	6.1	4.8	3.0	2.4	3.0	2.4	0.6	0.0	0.6
87.5°	6.1	3.6	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)