

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: P321676

Luminaire Tested: **GAN-SA2B-760-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321676
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2B-760-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8993 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

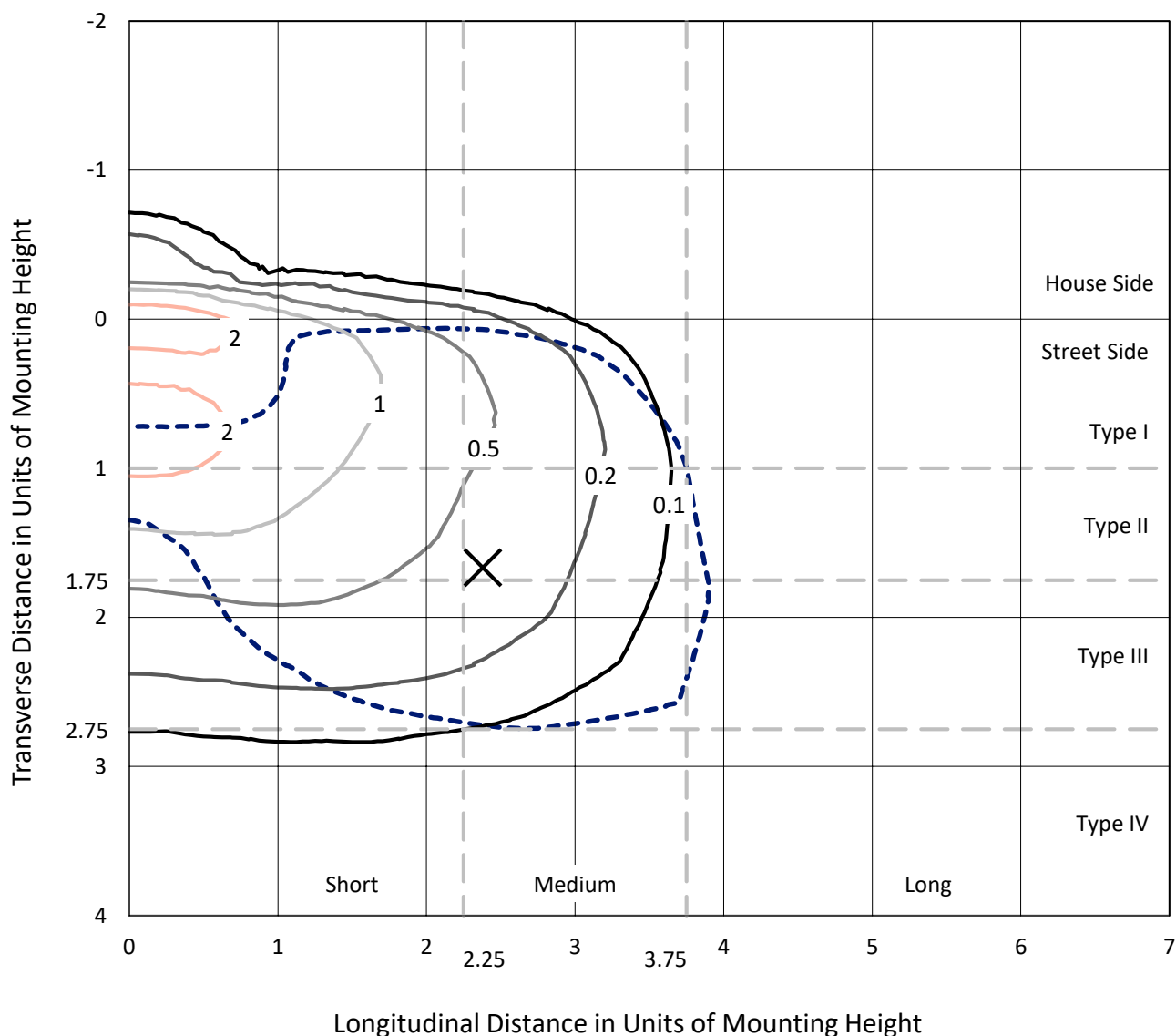
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

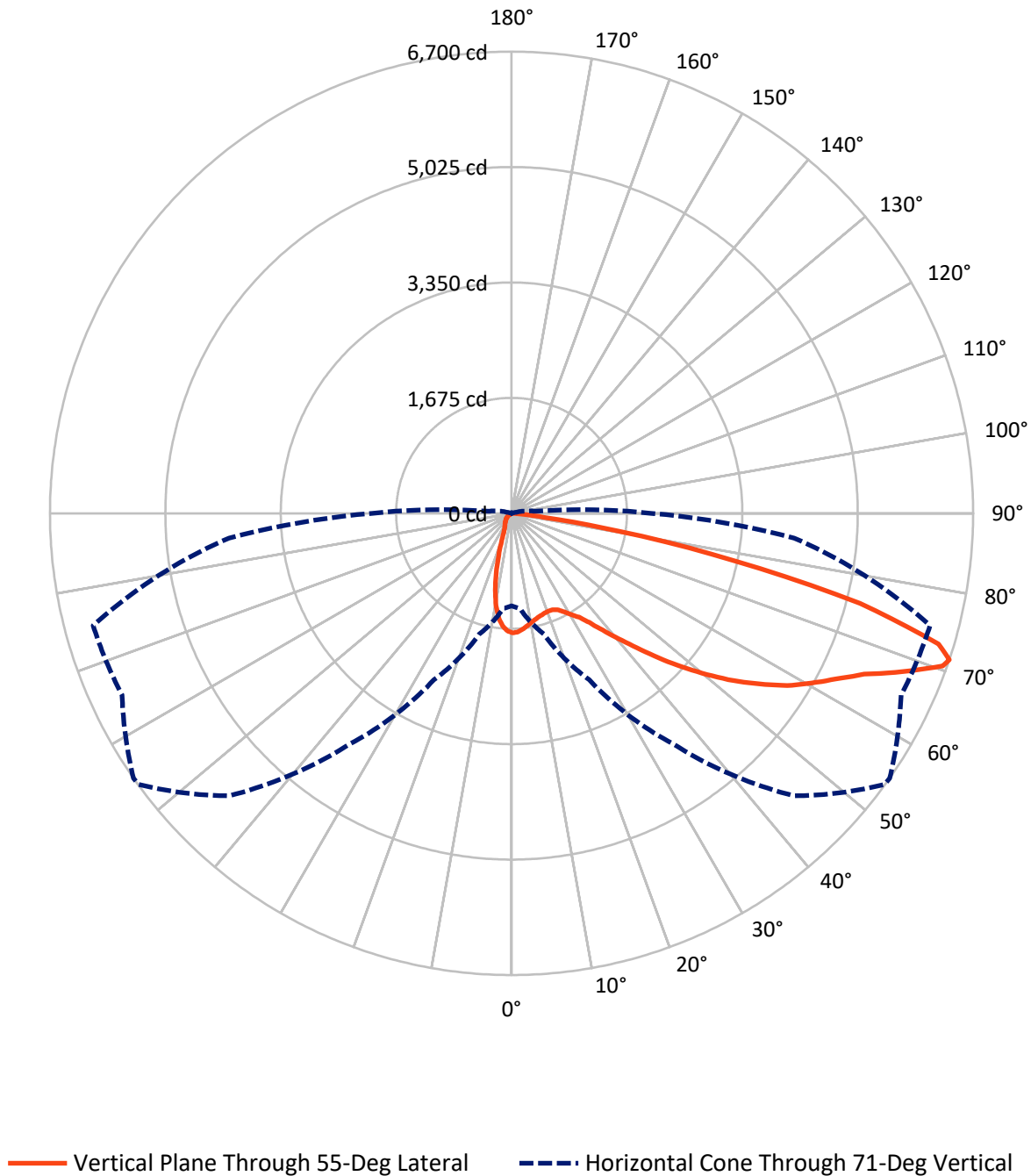
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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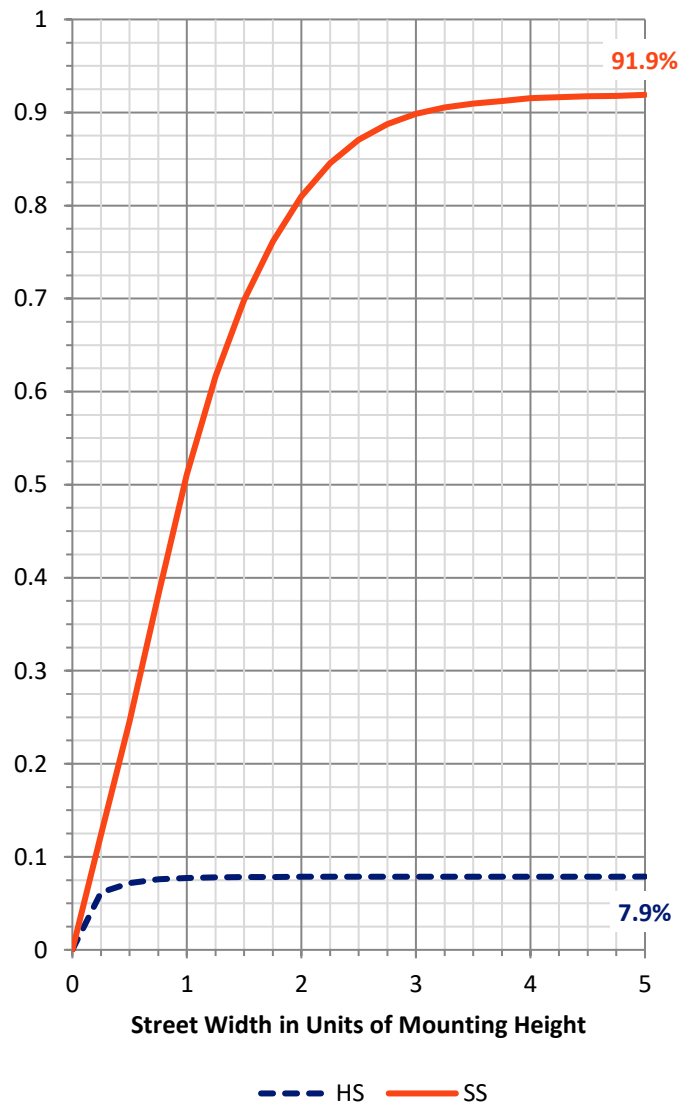
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	712.0	0.0	712.0
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	8281.0	0.0	8281.0
	% Fixture	92.1	0.0	92.1
Total	Lumens	8993.0	0.0	8993.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.9	1.6
10°-20°	333.8	3.7
20°-30°	536.5	6.0
30°-40°	911.5	10.1
40°-50°	1414.8	15.7
50°-60°	1902.2	21.2
60°-70°	2327.0	25.9
70°-80°	1360.5	15.1
80°-90°	58.8	0.7
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°	8993.0	100.0
0°-180°	8993.0	100.0

Coefficient of Utilization



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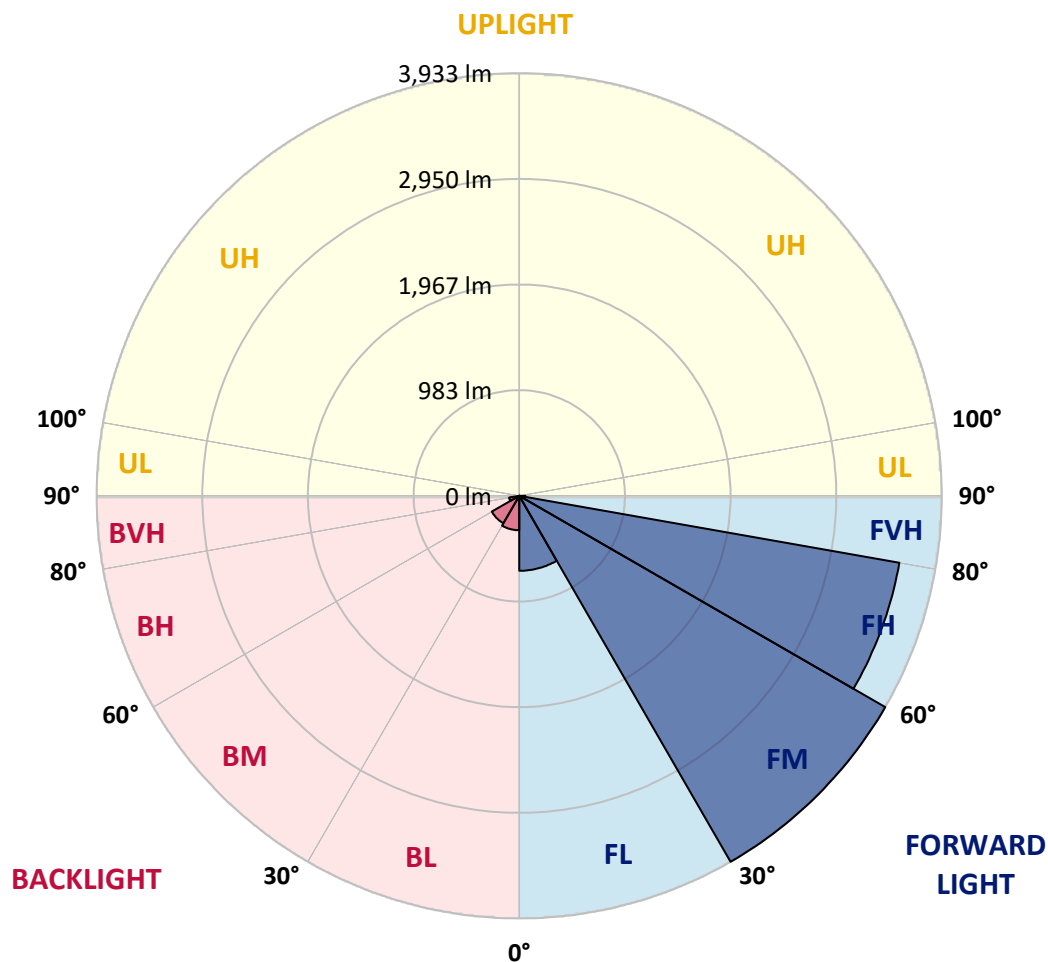
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	697.7	7.8			
FM	(30°-60°)	3933.3	43.7			
FH	(60°-80°)	3592.1	39.9			G2/5000
FVH	(80°-90°)	57.9	0.6			G1/100
BL	(0°-30°)	320.5	3.6	B1/500		
BM	(30°-60°)	295.2	3.3	B1/1000		
BH	(60°-80°)	95.4	1.1	B0/110		G0/110
BVH	(80°-90°)	0.9	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-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1734.3	1734.3	1734.3	1734.3	1734.3	1734.3	1734.3	1734.3	1734.3	1734.3	1734.3
2.5°	1683.5	1685.5	1692.7	1696.0	1703.6	1716.6	1723.0	1723.4	1733.9	1738.0	1741.2
5°	1564.3	1576.4	1588.6	1601.5	1624.9	1656.0	1686.7	1689.5	1723.4	1748.5	1761.8
7.5°	1461.8	1472.7	1487.2	1507.8	1540.9	1589.8	1641.1	1647.1	1711.3	1768.3	1798.1
10°	1356.4	1365.3	1386.3	1416.5	1462.2	1527.6	1596.6	1606.7	1700.4	1794.9	1847.4
12.5°	1243.7	1249.0	1274.4	1318.0	1385.0	1468.2	1559.1	1572.4	1693.5	1825.6	1905.5
15°	1158.1	1160.5	1184.8	1230.0	1306.7	1414.9	1530.0	1546.2	1695.2	1862.3	1968.9
17.5°	1136.3	1137.5	1150.4	1181.5	1249.4	1367.3	1507.0	1526.8	1700.0	1898.3	2032.7
20°	1224.7	1216.3	1202.9	1198.1	1227.2	1338.6	1493.3	1515.5	1706.5	1930.2	2090.1
22.5°	1467.4	1442.4	1387.1	1313.2	1268.3	1340.6	1496.9	1519.1	1727.1	1969.3	2156.3
25°	1827.6	1792.9	1698.8	1553.4	1413.7	1398.8	1527.2	1549.8	1767.0	2016.2	2219.7
27.5°	2237.5	2203.1	2088.1	1880.5	1642.3	1513.9	1596.6	1617.6	1826.4	2057.8	2268.2
30°	2630.0	2620.3	2484.6	2248.8	1929.8	1700.4	1686.3	1704.0	1870.4	2082.8	2306.5
32.5°	2962.7	2947.4	2838.3	2609.0	2258.9	1924.5	1791.7	1796.9	1903.5	2115.1	2356.6
35°	3271.2	3252.2	3156.5	2939.7	2596.5	2198.3	1954.0	1946.3	1975.8	2180.1	2429.3
37.5°	3540.5	3557.9	3451.7	3245.4	2899.3	2483.0	2172.9	2149.8	2088.9	2285.9	2534.7
40°	3765.9	3765.9	3710.5	3538.5	3226.4	2777.4	2420.4	2390.1	2258.9	2449.1	2668.3
42.5°	3847.0	3864.4	3885.0	3787.7	3519.1	3083.4	2696.2	2664.7	2498.3	2680.4	2837.1
45°	3851.9	3879.3	3984.7	3984.3	3783.6	3387.5	3007.1	2992.2	2805.2	2977.6	3046.3
47.5°	3783.6	3818.0	3991.6	4090.1	3993.2	3670.6	3347.1	3328.5	3165.8	3341.9	3265.1
50°	3678.2	3716.2	3918.1	4131.7	4135.7	3916.9	3705.3	3677.4	3562.8	3758.2	3491.3
52.5°	3489.7	3563.2	3852.3	4141.4	4229.4	4129.7	4046.1	4034.0	4006.9	4159.2	3671.4
55°	3086.3	3167.8	3687.1	4144.6	4316.2	4318.3	4365.5	4368.7	4423.3	4533.9	3805.4
57.5°	2895.7	2941.7	3398.8	4160.0	4445.1	4532.3	4691.0	4716.0	4800.4	4889.6	3958.5
60°	2775.7	2830.3	3256.7	4139.0	4647.4	4812.9	4992.6	5001.1	5091.5	5256.7	4165.6
62.5°	2680.0	2733.7	3167.0	4058.2	4874.7	5150.5	5287.4	5288.2	5356.0	5694.0	4401.0
65°	2443.8	2489.0	2985.7	3967.4	5024.9	5484.4	5629.8	5624.6	5679.9	6155.2	4674.4
67.5°	2102.2	2136.9	2615.4	3622.9	4968.4	5788.1	6146.7	6129.3	6062.3	6553.7	4781.8
70°	1625.3	1637.8	2061.4	3019.2	4438.6	5904.8	6646.2	6637.3	6296.9	6482.2	4388.1
71°	1343.5	1384.6	1816.7	2664.7	4083.7	5797.0	6694.6	6699.9	6237.9	6287.6	4117.2
72.5°	780.1	815.3	1316.8	2046.5	3467.0	5347.2	6443.5	6481.4	5962.5	5719.1	3516.7
75°	167.2	178.9	488.2	990.5	1907.2	3747.7	5085.9	5221.2	4859.8	3890.6	2119.6
77.5°	116.3	125.6	209.2	449.4	630.3	1851.8	3159.4	3312.0	2903.3	1462.2	678.4
80°	92.1	102.6	163.1	222.1	170.4	597.2	1479.9	1573.2	968.3	326.3	114.3
82.5°	51.3	61.0	127.2	119.9	65.4	113.5	414.3	468.4	193.8	65.8	27.1
85°	14.9	18.2	82.0	87.2	27.9	21.8	70.7	87.6	36.7	17.4	12.1
87.5°	0.0	0.0	39.6	33.5	8.1	3.2	6.5	7.3	7.3	7.3	8.1
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°	1734.3	1734.3	1734.3	1734.3	1734.3	1734.3	1734.3	1734.3	1734.3	1734.3	1734.3
2.5°	1741.2	1744.0	1733.9	1720.6	1706.5	1689.1	1670.9	1656.8	1656.4	1649.5	1642.7
5°	1762.6	1761.0	1733.1	1690.7	1640.7	1588.6	1538.9	1482.8	1464.2	1441.2	1433.5
7.5°	1802.2	1790.9	1731.9	1639.0	1529.2	1420.2	1307.5	1194.0	1145.6	1102.0	1094.3
10°	1851.8	1830.4	1724.2	1561.5	1360.0	1158.9	988.9	834.7	766.8	714.7	712.3
12.5°	1903.5	1870.8	1702.8	1444.4	1138.3	855.7	659.8	508.0	451.5	415.1	418.3
15°	1957.6	1908.8	1656.8	1286.5	885.9	580.7	405.4	316.2	293.6	284.3	286.7
17.5°	2013.0	1935.0	1592.6	1096.3	636.8	374.7	280.6	255.6	255.6	257.6	258.4
20°	2061.0	1949.2	1498.1	883.1	431.7	273.0	245.5	241.9	243.9	247.1	247.5
22.5°	2108.7	1950.0	1374.9	667.1	302.0	239.1	233.8	232.2	233.4	237.0	237.4
25°	2147.4	1940.3	1220.7	474.5	241.1	225.3	222.9	222.1	222.9	227.3	227.3
27.5°	2163.2	1905.1	1032.5	333.5	216.0	210.0	209.2	210.0	211.2	214.4	214.8
30°	2164.8	1843.8	827.4	241.5	195.8	189.4	191.0	193.8	192.6	191.8	192.6
32.5°	2168.8	1772.7	627.5	198.7	178.9	168.8	166.8	166.8	161.9	159.1	157.5
35°	2182.1	1689.1	455.1	178.5	161.5	149.8	142.1	133.3	124.0	119.1	117.9
37.5°	2203.1	1601.5	325.9	165.2	146.2	132.9	118.3	102.6	89.2	85.6	85.6
40°	2241.5	1511.0	241.1	154.7	134.1	117.5	95.7	75.1	63.0	61.0	61.0
42.5°	2302.1	1415.7	192.2	145.4	123.6	101.8	73.1	54.5	45.6	44.4	44.0
45°	2365.1	1310.7	168.0	136.5	112.3	83.6	54.1	40.4	35.1	33.9	33.9
47.5°	2428.1	1198.9	156.3	128.0	101.4	65.0	40.4	31.9	29.5	29.5	29.9
50°	2481.4	1082.2	147.8	118.7	87.2	49.3	31.9	27.1	26.2	27.9	28.3
52.5°	2494.7	967.5	137.3	107.0	69.9	37.6	26.2	23.8	23.8	23.8	23.8
55°	2486.6	878.7	123.6	92.5	51.7	29.9	22.6	21.0	20.6	20.6	20.6
57.5°	2514.1	826.2	98.9	71.9	37.1	24.2	19.8	18.6	17.8	17.4	17.4
60°	2569.4	791.9	70.7	51.7	27.9	20.2	17.0	15.7	14.5	13.7	13.7
62.5°	2642.9	762.0	52.5	38.4	21.4	16.2	14.1	12.9	11.3	10.5	10.5
65°	2699.4	708.7	40.0	28.7	16.2	12.9	10.9	10.5	8.1	7.3	6.9
67.5°	2613.0	591.6	32.3	21.0	12.1	10.1	8.5	8.1	4.8	4.0	4.0
70°	2241.1	411.9	25.8	15.3	8.9	8.1	6.9	5.2	3.6	3.2	3.2
71°	2032.3	344.0	23.4	12.9	7.7	7.7	6.5	4.4	3.2	2.8	2.8
72.5°	1688.3	244.3	19.8	10.1	6.9	8.1	6.9	4.0	3.2	2.8	2.4
75°	980.0	102.2	13.7	6.9	5.2	9.7	8.9	3.6	2.4	2.0	2.0
77.5°	294.8	37.6	7.7	4.4	4.0	8.5	10.1	3.2	1.2	0.4	0.4
80°	53.7	16.2	4.8	2.8	2.8	5.2	7.7	1.6	0.0	0.0	0.0
82.5°	19.0	8.1	2.8	1.6	1.2	2.4	3.6	0.0	0.0	0.0	0.0
85°	10.9	5.7	1.6	0.8	0.0	0.4	0.8	0.0	0.0	0.0	0.0
87.5°	7.3	1.6	0.0	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)