

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: P322066

Luminaire Tested: **GAN-SA2A-830-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322066
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2A-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5390 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G2

Input Watts (W): 66
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

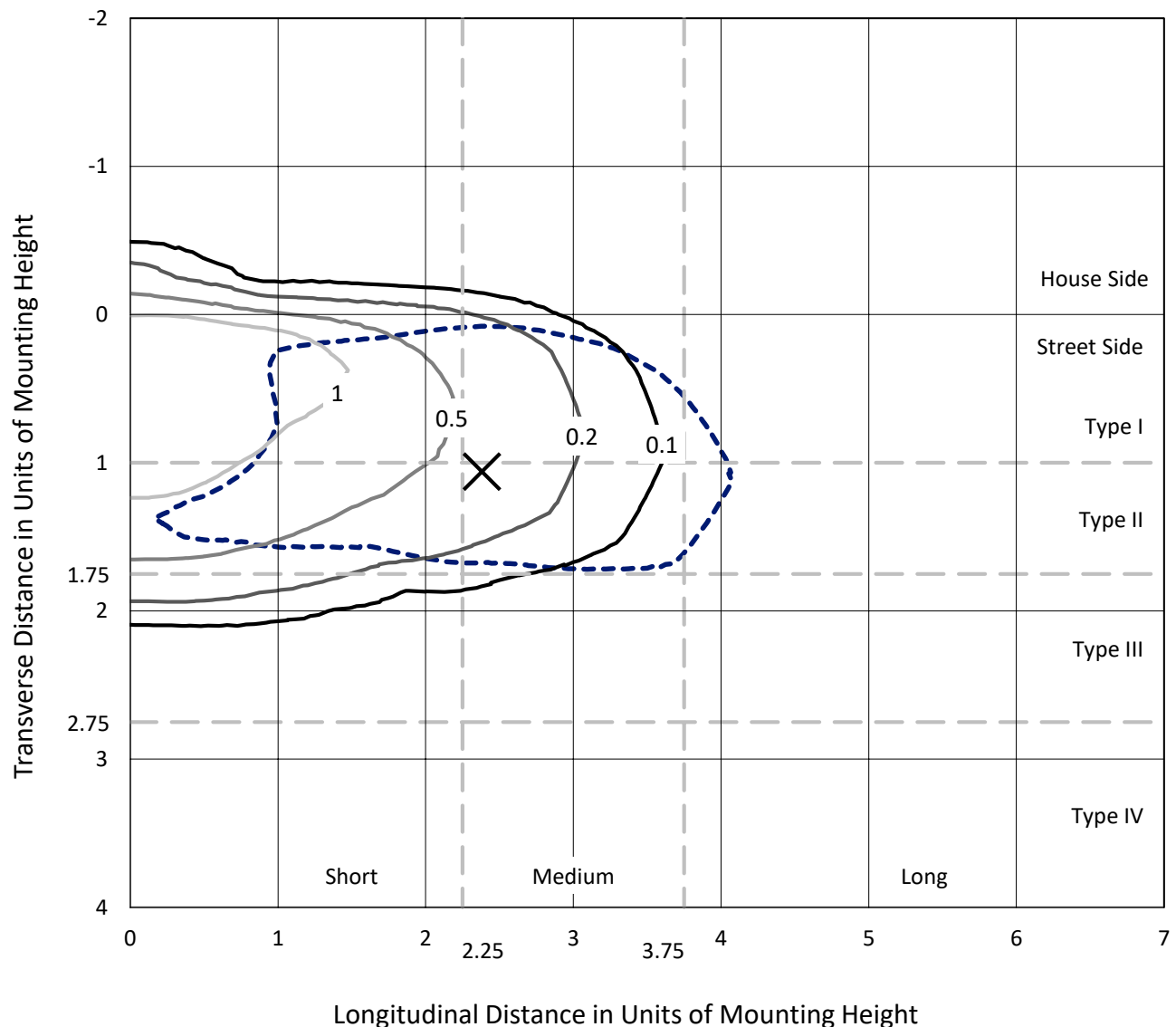


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Iso-Footcandle Lines of Horizontal Illumination

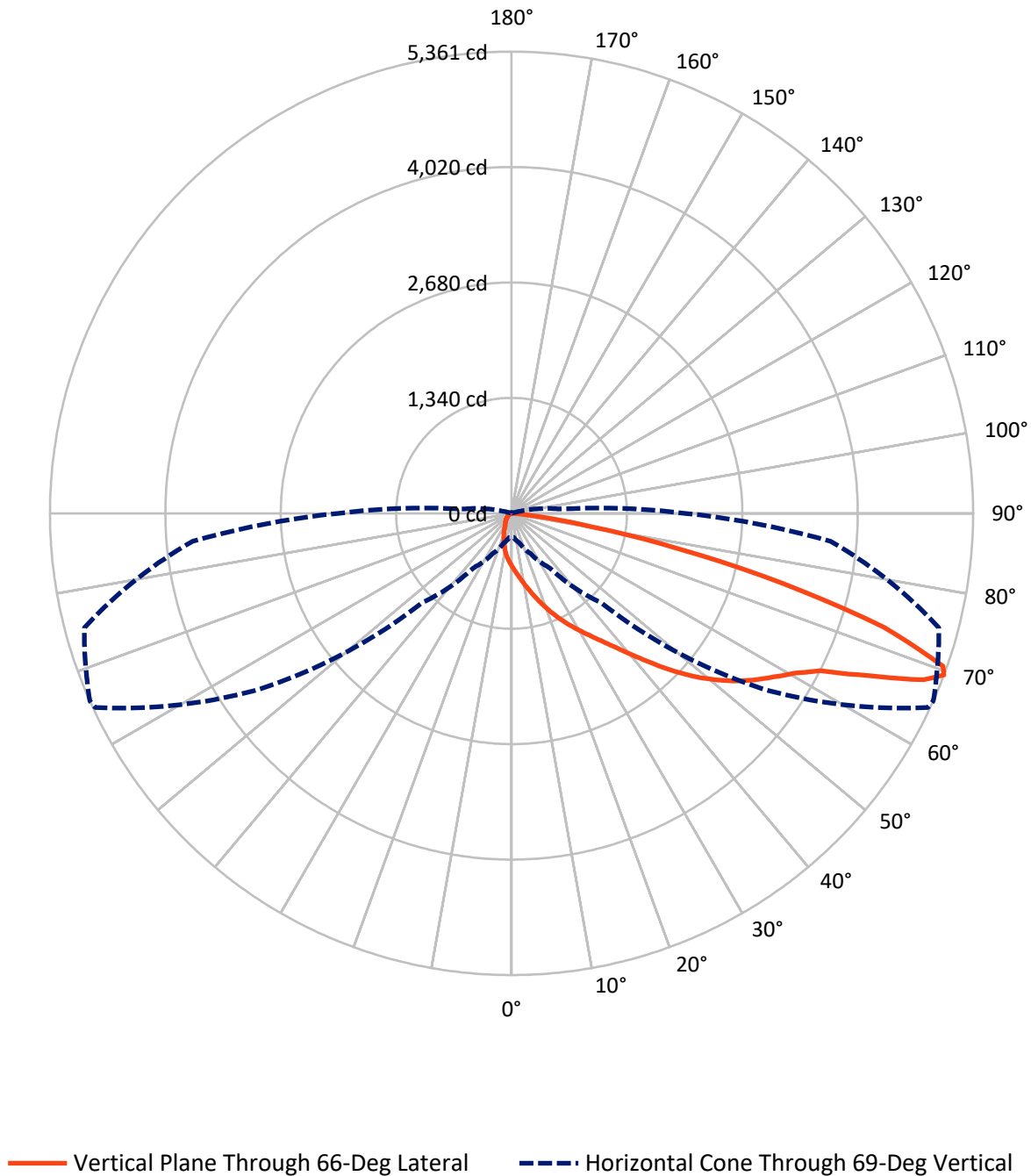
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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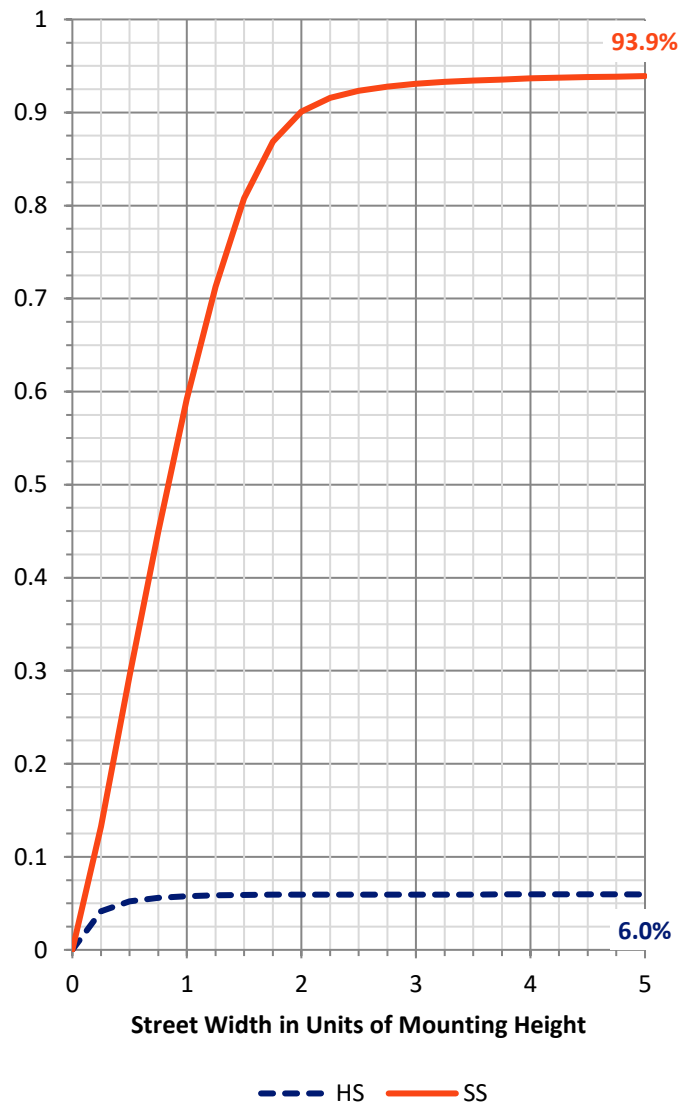
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	323.3	0.0	323.3
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	5066.7	0.0	5066.7
	% Fixture	94.0	0.0	94.0
Total	Lumens	5390.0	0.0	5390.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.3	1.1
10°-20°	176.5	3.3
20°-30°	307.3	5.7
30°-40°	539.1	10.0
40°-50°	902.5	16.7
50°-60°	1326.5	24.6
60°-70°	1362.0	25.3
70°-80°	672.4	12.5
80°-90°	44.5	0.8
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°	5390.0	100.0
0°-180°	5390.0	100.0

Coefficient of Utilization



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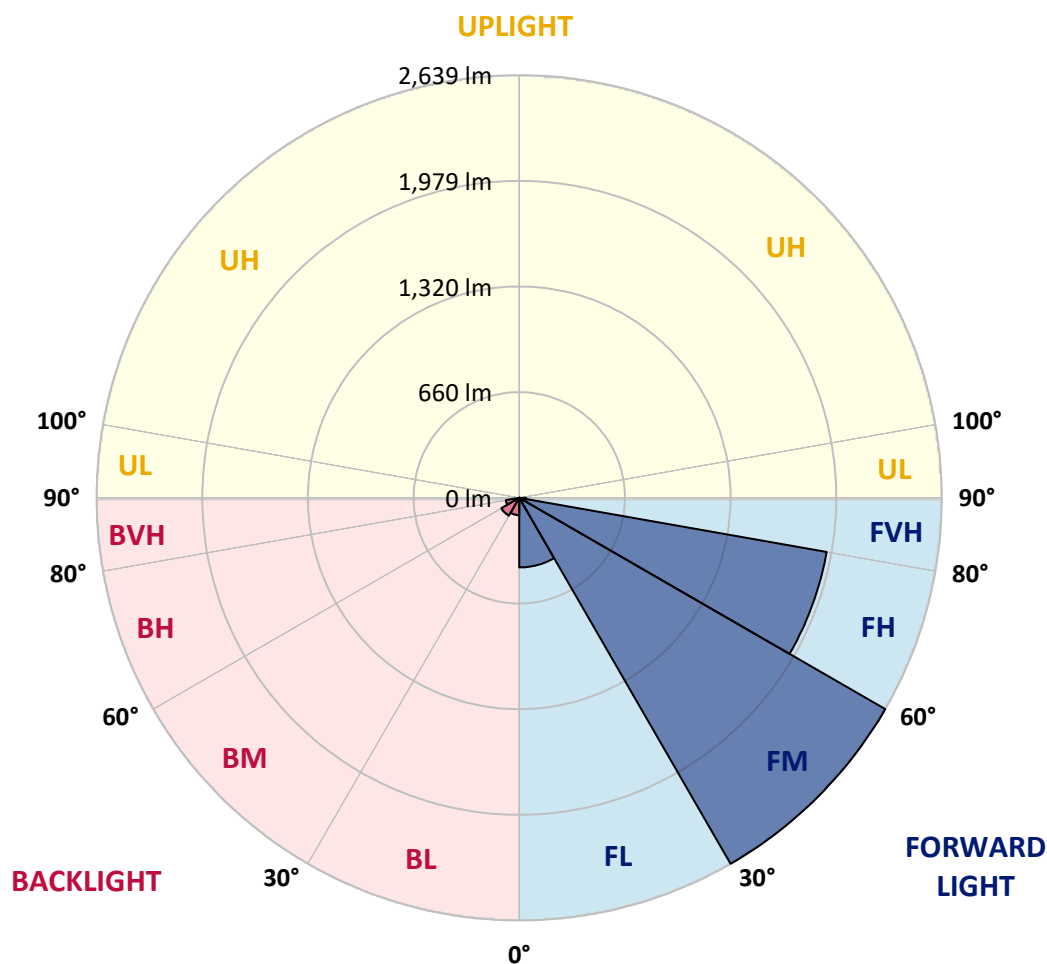
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	434.9	8.1			
FM	(30°-60°)	2639.2	49.0			
FH	(60°-80°)	1949.2	36.2			G2/5000
FVH	(80°-90°)	43.4	0.8			G1/100
BL	(0°-30°)	108.1	2.0	B0/110		
BM	(30°-60°)	128.9	2.4	B0/220		
BH	(60°-80°)	85.2	1.6	B0/110		G0/110
BVH	(80°-90°)	1.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	613.4	613.4	613.4	613.4	613.4	613.4	613.4	613.4	613.4	613.4	613.4
2.5°	721.9	718.9	717.6	712.0	702.2	694.8	680.5	663.8	660.8	644.6	624.9
5°	815.6	813.1	811.3	803.4	793.4	774.7	748.6	717.6	711.7	681.0	641.6
7.5°	880.9	885.5	885.5	880.4	867.9	853.8	821.8	779.5	772.1	725.0	663.8
10°	919.1	924.7	929.1	933.4	931.6	926.0	895.8	848.2	839.2	776.7	689.7
12.5°	922.7	928.3	940.6	958.8	976.4	989.2	970.3	924.2	914.0	836.6	720.4
15°	902.7	908.6	927.5	962.9	1005.6	1043.0	1049.1	1008.4	997.9	908.1	758.8
17.5°	867.9	871.7	898.9	947.7	1014.8	1083.4	1120.6	1098.8	1089.1	989.7	801.6
20°	842.0	844.8	868.6	921.1	1009.2	1108.8	1188.1	1194.8	1184.6	1077.3	847.9
22.5°	886.3	891.4	892.2	917.0	993.8	1121.3	1247.5	1289.3	1281.6	1170.2	893.5
25°	1007.4	1013.3	993.8	978.5	1006.9	1127.0	1298.5	1386.0	1379.9	1270.3	939.3
27.5°	1167.4	1173.5	1148.5	1102.6	1075.2	1148.2	1343.8	1484.3	1484.1	1376.3	988.7
30°	1324.6	1330.7	1305.1	1259.3	1196.3	1208.4	1383.0	1587.3	1588.8	1485.6	1041.2
32.5°	1489.5	1497.1	1470.8	1411.9	1346.1	1312.3	1438.0	1690.7	1699.4	1612.3	1100.3
35°	1676.9	1677.9	1640.8	1579.1	1503.3	1451.3	1526.3	1806.7	1827.4	1769.3	1175.3
37.5°	1860.7	1868.1	1837.6	1740.4	1670.7	1611.8	1657.7	1951.6	1981.0	1961.0	1273.4
40°	1996.9	2012.5	2008.1	1903.2	1837.1	1795.1	1820.7	2123.9	2161.2	2184.3	1397.0
42.5°	2082.4	2094.2	2114.1	2050.9	1991.0	1997.9	2013.3	2324.6	2370.7	2438.7	1539.1
45°	2180.4	2186.1	2202.7	2174.8	2134.4	2204.0	2217.6	2550.6	2599.0	2712.4	1696.8
47.5°	2300.2	2313.6	2318.2	2292.6	2274.1	2386.3	2414.4	2756.2	2824.0	3005.6	1863.8
50°	2452.8	2456.4	2464.3	2447.7	2429.3	2542.9	2591.1	2972.0	3033.7	3299.7	2028.4
52.5°	2602.1	2614.9	2642.5	2632.0	2624.6	2676.3	2748.5	3166.6	3235.5	3545.0	2192.7
55°	2645.1	2656.1	2751.6	2816.9	2877.3	2840.7	2899.1	3340.9	3415.4	3764.1	2350.9
57.5°	2473.3	2495.6	2661.0	2831.0	3081.6	3096.2	3105.9	3519.9	3586.7	3932.1	2515.6
60°	2039.1	2043.5	2314.8	2606.4	3047.8	3319.2	3408.0	3712.1	3768.2	4088.5	2712.7
62.5°	1296.9	1341.2	1639.0	2050.6	2690.4	3286.9	3773.3	4003.0	4023.4	4276.1	2995.3
65°	617.8	646.4	861.0	1267.0	1948.7	2874.0	4025.5	4529.1	4538.3	4648.1	3372.9
67.5°	342.0	355.9	458.0	682.0	1139.2	2032.5	3923.6	5152.2	5160.9	5028.0	3704.2
69°	267.5	279.3	359.7	514.1	772.4	1460.8	3550.6	5334.7	5360.6	5136.8	3716.0
70°	227.1	238.6	309.8	434.2	621.1	1128.7	3160.4	5289.4	5316.8	5126.6	3628.2
72.5°	139.0	145.7	206.3	305.7	416.3	567.8	1949.0	4473.3	4519.6	4702.6	3118.2
75°	93.7	97.3	129.0	211.0	297.7	292.4	1012.5	3153.0	3253.4	3658.1	2303.1
77.5°	67.1	70.4	86.5	136.5	208.6	193.0	458.5	1959.5	1981.0	2194.0	1256.0
80°	38.1	41.2	61.2	81.2	141.6	128.8	182.3	936.0	946.7	940.8	419.3
82.5°	20.0	22.5	33.5	53.5	90.9	84.2	75.8	313.4	314.9	261.9	91.9
85°	3.8	4.6	16.6	36.6	46.8	36.6	31.0	73.5	75.0	66.3	22.8
87.5°	0.0	0.3	6.7	8.2	9.2	9.5	10.0	14.3	15.4	20.7	6.1
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°	613.4	613.4	613.4	613.4	613.4	613.4	613.4	613.4	613.4	613.4	613.4
2.5°	616.2	607.0	589.3	568.9	553.0	537.4	525.1	512.3	507.7	505.4	505.1
5°	622.4	602.9	565.5	527.1	495.6	465.9	444.7	424.5	415.0	410.6	408.8
7.5°	632.6	601.4	541.2	482.6	437.3	400.1	370.7	348.7	337.7	333.1	331.3
10°	644.6	599.3	512.8	435.5	377.6	339.2	310.0	288.3	276.2	271.1	268.6
12.5°	658.7	595.7	480.0	387.9	326.7	288.3	252.9	226.1	212.2	206.3	203.5
15°	676.1	592.2	445.7	343.1	281.9	235.0	196.4	178.2	175.4	174.3	174.6
17.5°	693.3	586.5	408.3	298.8	234.8	183.6	163.8	162.8	163.3	163.3	163.3
20°	708.6	573.7	367.6	260.9	190.0	154.9	150.8	149.0	147.7	146.7	145.4
22.5°	720.7	556.6	328.5	223.2	155.1	141.8	135.4	129.8	125.2	122.1	120.6
25°	728.9	533.8	292.6	187.1	139.5	129.0	117.5	108.0	100.9	96.5	94.7
27.5°	735.0	509.2	260.6	156.7	128.8	114.2	99.1	87.8	80.4	76.5	75.0
30°	739.4	481.3	232.5	137.7	116.7	98.6	82.4	71.4	66.1	64.0	63.0
32.5°	743.5	450.3	205.8	128.8	105.5	84.2	69.1	60.7	57.3	54.8	54.0
35°	753.7	421.6	180.5	119.3	94.0	71.9	59.4	53.3	49.9	48.4	47.9
37.5°	778.0	400.4	156.2	109.6	82.4	62.2	52.0	47.6	44.5	43.0	42.5
40°	817.2	389.6	135.7	99.1	71.2	54.8	47.1	43.0	39.7	37.4	36.9
42.5°	874.8	391.2	121.3	88.6	62.2	48.9	42.5	37.6	34.0	32.0	31.5
45°	944.7	402.4	111.4	78.3	54.8	44.3	37.4	32.3	28.9	27.1	26.6
47.5°	1020.5	420.6	103.2	69.1	48.9	39.9	32.3	26.9	24.1	22.5	22.3
50°	1100.3	438.3	94.7	60.2	43.8	35.6	27.1	22.3	20.0	18.7	18.2
52.5°	1181.2	458.8	87.0	52.0	39.4	30.5	22.5	18.2	16.4	15.4	14.8
55°	1268.3	474.1	79.6	45.6	35.1	25.9	18.7	15.1	13.6	12.3	12.0
57.5°	1370.7	497.9	71.9	39.4	30.0	21.5	15.4	12.0	10.8	9.5	9.2
60°	1508.9	525.8	63.7	34.8	24.6	17.7	12.5	9.7	8.2	7.2	6.9
62.5°	1691.2	556.8	53.5	30.5	20.0	14.3	10.0	7.7	5.9	4.6	4.6
65°	1922.4	607.3	43.8	25.6	16.4	11.8	7.7	5.6	3.3	2.0	2.0
67.5°	2057.3	616.0	35.3	21.0	13.3	10.0	6.4	3.8	1.0	0.3	0.0
69°	2014.0	565.5	30.0	17.9	11.5	9.5	5.9	2.8	0.5	0.0	0.0
70°	1932.6	517.1	26.4	15.9	10.5	9.0	5.6	2.0	0.5	0.0	0.0
72.5°	1597.0	368.1	20.0	11.8	7.7	7.9	5.1	1.3	0.5	0.0	0.0
75°	1163.3	223.8	14.3	8.2	4.9	5.9	3.6	0.5	0.3	0.0	0.0
77.5°	647.2	105.5	9.0	4.6	3.1	3.6	1.8	0.0	0.0	0.0	0.0
80°	210.2	28.7	4.1	2.6	1.8	2.0	0.8	0.0	0.0	0.0	0.0
82.5°	38.9	8.2	2.3	1.3	0.5	0.5	0.0	0.0	0.0	0.0	0.0
85°	8.4	3.3	1.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.8	1.0	0.3	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)