

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: P322165

Luminaire Tested: **GAN-SA1C-727-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322165
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1C-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4512 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 59
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



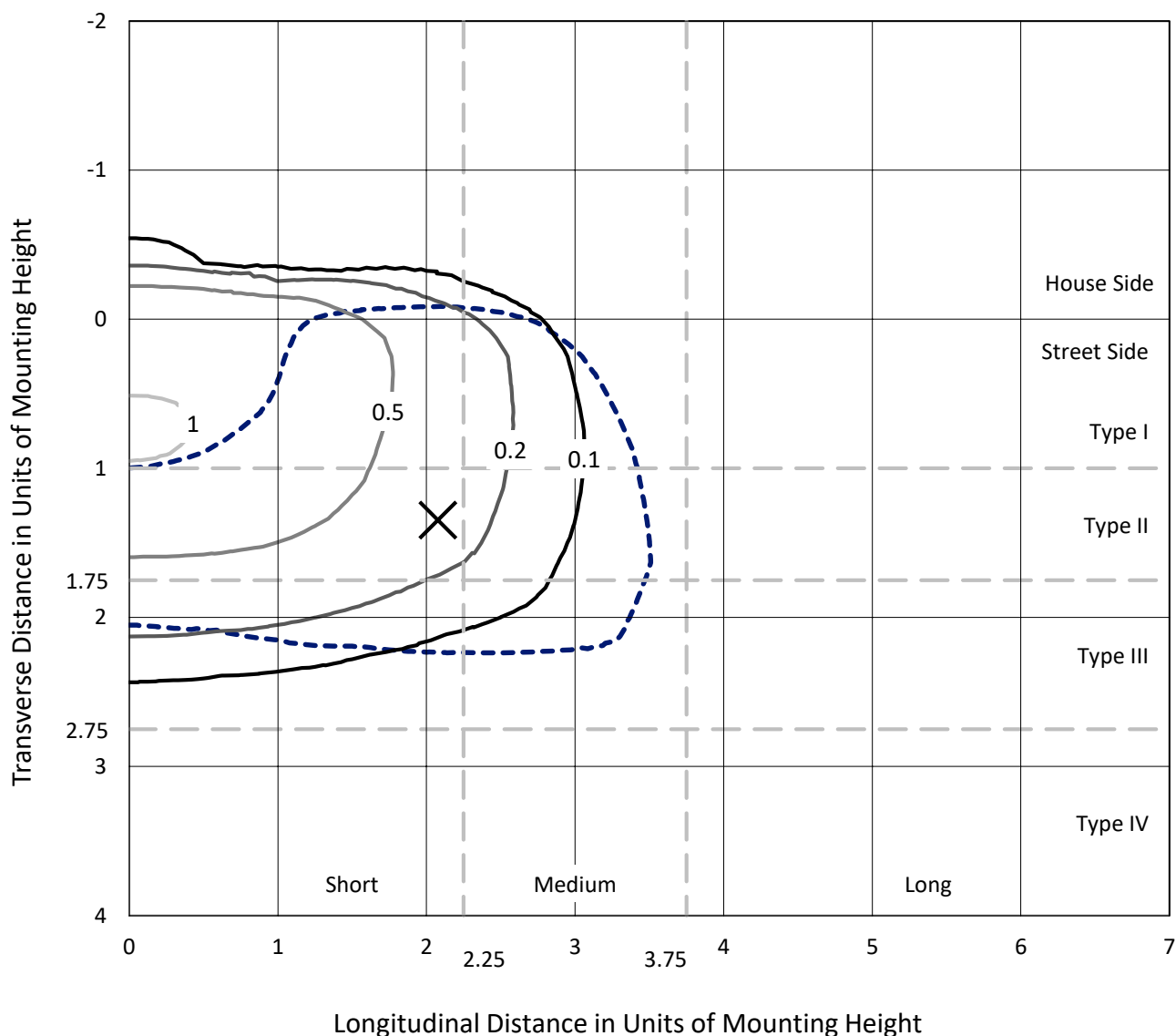
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

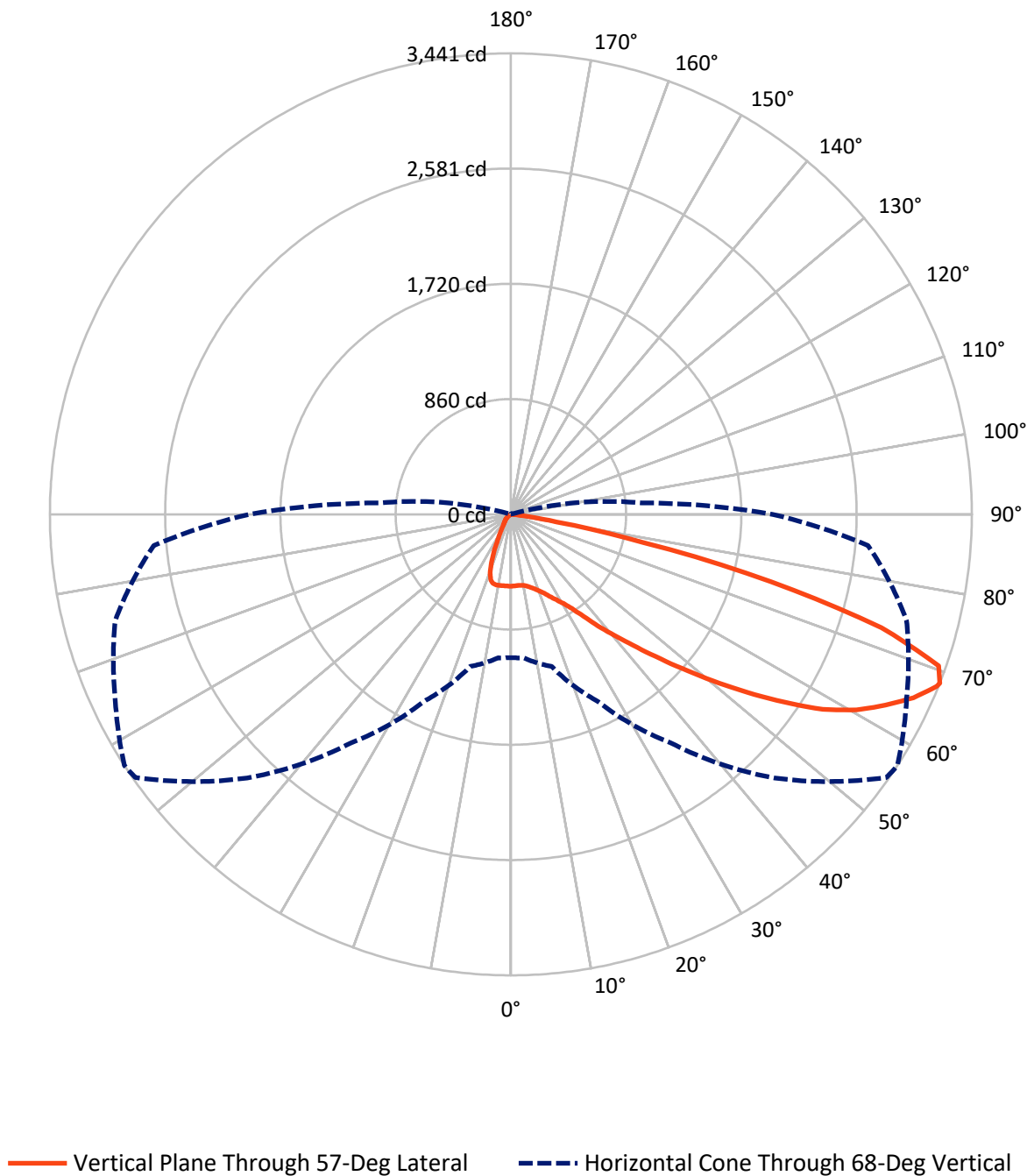


Based on 25 foot mounting height. Maximum calculated value = 1.1 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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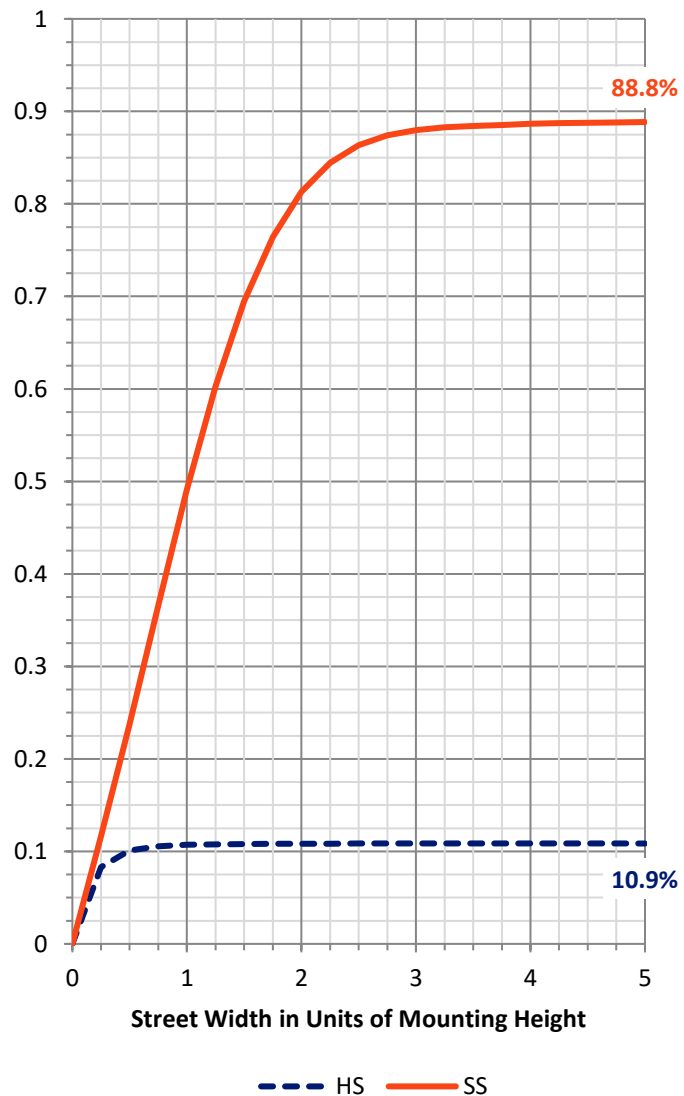
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	494.8	0.0	494.8
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	4017.2	0.0	4017.2
	% Fixture	89.0	0.0	89.0
Total	Lumens	4512.0	0.0	4512.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.2	1.1
10°-20°	139.0	3.1
20°-30°	239.9	5.3
30°-40°	414.0	9.2
40°-50°	708.1	15.7
50°-60°	1132.9	25.1
60°-70°	1309.0	29.0
70°-80°	500.2	11.1
80°-90°	18.7	0.4
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°	4512.0	100.0
0°-180°	4512.0	100.0

Coefficient of Utilization



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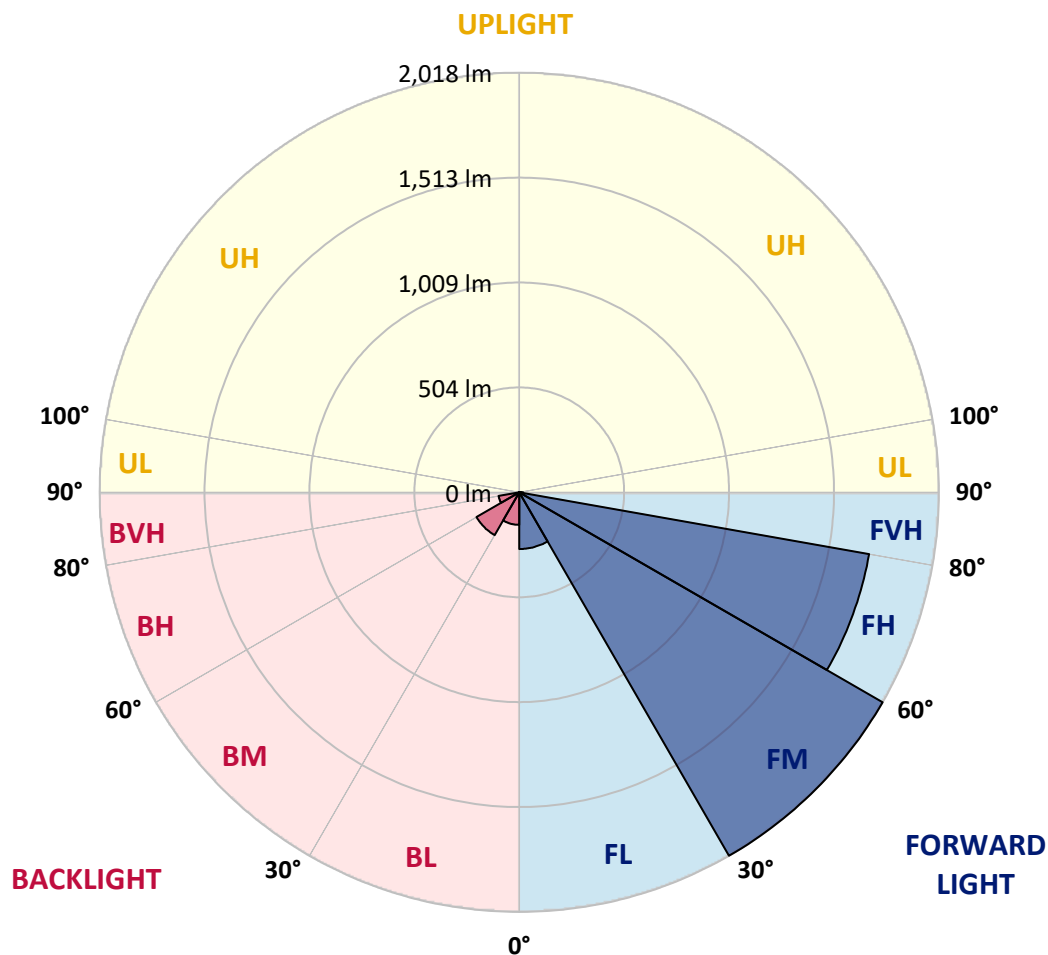
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	272.7	6.0			
FM	(30°-60°)	2017.7	44.7			
FH	(60°-80°)	1708.4	37.9			G1/1800
FVH	(80°-90°)	18.4	0.4			G1/100
BL	(0°-30°)	156.4	3.5	B1/500		
BM	(30°-60°)	237.3	5.3	B1/1000		
BH	(60°-80°)	100.8	2.2	B0/110		G0/110
BVH	(80°-90°)	0.3	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-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	536.1	536.1	536.1	536.1	536.1	536.1	536.1	536.1	536.1	536.1	536.1
2.5°	523.6	525.9	527.6	528.7	530.0	532.7	533.6	534.9	535.5	535.5	537.0
5°	502.9	505.4	509.0	512.0	518.0	525.7	531.2	533.4	537.2	540.6	542.5
7.5°	483.7	486.6	490.9	498.0	508.2	520.6	532.1	535.1	542.5	549.8	553.4
10°	471.3	473.6	479.2	489.2	502.6	519.9	536.1	539.8	552.6	564.7	571.6
12.5°	467.0	469.2	474.9	486.2	502.9	523.1	545.5	550.9	569.6	587.3	596.9
15°	473.2	473.6	479.8	490.5	506.9	531.0	561.1	567.5	591.2	614.2	626.2
17.5°	497.1	495.2	498.4	503.1	516.1	541.5	577.5	587.1	618.7	645.8	657.1
20°	556.8	556.8	549.6	536.8	537.0	557.7	599.7	610.6	649.2	680.6	690.8
22.5°	659.0	657.1	642.6	611.2	582.4	585.6	626.8	640.9	685.9	719.4	722.8
25°	781.9	779.6	757.2	713.0	663.1	630.9	663.5	679.7	729.7	759.3	752.3
27.5°	912.1	910.1	888.0	833.1	762.1	703.0	707.2	722.6	774.2	803.5	781.1
30°	1038.2	1038.8	1016.8	960.5	880.1	794.9	762.7	771.7	817.6	847.2	815.2
32.5°	1158.1	1158.9	1139.9	1077.0	1001.9	901.8	839.5	837.2	867.9	897.1	860.4
35°	1264.9	1267.1	1254.1	1205.2	1125.6	1020.9	939.2	933.6	939.4	972.4	929.8
37.5°	1368.0	1369.3	1359.5	1318.3	1251.7	1151.7	1065.0	1057.1	1044.8	1070.2	1021.3
40°	1480.9	1477.7	1466.3	1429.0	1371.8	1296.1	1200.3	1186.6	1165.1	1187.7	1141.6
42.5°	1585.8	1582.2	1584.1	1541.9	1493.7	1444.6	1358.0	1334.5	1321.9	1347.9	1289.3
45°	1717.0	1715.1	1721.5	1684.8	1645.8	1610.1	1538.7	1513.1	1507.5	1538.0	1467.8
47.5°	1846.5	1851.2	1871.1	1855.5	1839.7	1808.3	1730.0	1718.5	1721.9	1758.8	1656.2
50°	1954.5	1960.0	2014.4	2032.4	2055.2	2036.8	1958.3	1951.3	1964.7	1998.0	1858.9
52.5°	2032.6	2043.9	2111.5	2194.1	2277.3	2289.7	2211.4	2205.0	2223.1	2228.2	2015.5
55°	2086.8	2096.8	2173.4	2324.4	2493.8	2547.2	2498.5	2473.8	2470.4	2419.8	2180.2
57.5°	2096.4	2095.3	2205.4	2408.7	2663.7	2801.3	2770.5	2746.2	2676.2	2596.9	2369.0
60°	2042.2	2048.4	2176.2	2437.9	2770.3	2993.5	2995.8	2964.3	2855.2	2769.0	2552.1
62.5°	1875.3	1900.5	2029.6	2361.3	2769.0	3070.9	3161.0	3136.9	3006.5	2910.1	2737.7
65°	1604.8	1613.8	1736.9	2098.9	2581.9	3038.5	3309.7	3300.7	3142.8	3047.0	2833.1
67.5°	1171.9	1152.5	1281.8	1652.8	2186.0	2849.5	3416.3	3427.7	3248.0	3075.2	2731.5
68°	1069.5	1075.3	1176.0	1542.5	2082.3	2782.7	3423.4	3440.7	3258.5	3056.9	2676.0
70°	637.5	648.6	738.4	1062.0	1584.1	2404.9	3347.4	3386.9	3196.2	2867.6	2314.6
72.5°	162.8	176.0	260.9	475.3	904.8	1694.4	2825.8	2892.6	2775.0	2326.4	1562.6
75°	67.0	70.4	93.2	156.6	337.1	763.4	1862.5	2005.5	1923.8	1392.7	706.2
77.5°	46.3	48.6	60.0	86.8	145.9	258.8	913.1	1016.4	915.7	475.3	154.0
80°	33.3	35.2	42.9	57.8	83.8	92.4	297.6	344.1	273.3	104.3	38.2
82.5°	19.8	21.3	32.0	41.2	51.0	44.2	74.0	84.1	79.2	51.8	17.1
85°	9.8	11.5	21.5	29.4	27.5	18.6	22.6	25.2	31.1	31.6	9.2
87.5°	0.6	1.3	12.6	17.7	7.7	4.3	6.6	8.1	11.1	15.6	3.8
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°	536.1	536.1	536.1	536.1	536.1	536.1	536.1	536.1	536.1	536.1	536.1
2.5°	537.6	537.9	536.4	535.7	536.1	533.6	532.5	532.9	532.9	533.6	532.5
5°	543.0	543.0	540.4	537.0	535.1	530.2	527.0	526.1	525.5	525.1	524.2
7.5°	554.5	553.2	548.7	541.3	534.9	524.2	516.1	511.8	509.7	508.8	508.2
10°	573.1	570.7	563.2	549.4	534.7	515.7	498.0	485.4	474.9	470.6	468.1
12.5°	598.0	594.6	582.0	559.0	533.2	498.2	459.8	422.9	388.5	374.4	367.4
15°	626.8	621.9	602.1	567.1	524.4	458.7	375.3	310.6	263.1	245.1	237.5
17.5°	656.0	649.6	619.6	572.2	498.2	377.0	263.3	198.8	167.1	158.5	155.5
20°	685.5	676.1	634.7	568.4	438.9	271.8	173.7	145.3	136.1	133.6	132.7
22.5°	713.4	698.9	648.4	553.4	347.5	182.4	137.4	128.4	125.4	124.0	123.5
25°	737.8	717.5	660.3	507.3	246.0	137.8	123.7	120.8	116.9	114.1	114.4
27.5°	760.6	736.1	667.6	431.4	164.1	117.8	114.6	110.5	103.5	99.4	99.4
30°	788.1	760.8	672.9	332.0	120.8	104.1	101.6	95.4	85.8	80.4	80.4
32.5°	829.5	798.3	669.5	233.0	100.1	91.5	85.6	77.0	66.6	61.4	61.2
35°	892.9	856.4	645.2	152.8	88.3	79.6	70.0	59.5	50.4	46.1	45.9
37.5°	978.2	934.0	590.5	109.2	79.2	68.5	57.0	45.4	38.6	35.8	35.6
40°	1088.9	1024.3	512.5	88.5	70.6	57.8	43.9	35.2	30.5	28.4	28.6
42.5°	1221.8	1120.9	418.8	76.4	62.3	47.6	34.3	27.7	24.7	23.3	22.8
45°	1369.5	1216.3	320.7	68.1	54.0	38.4	26.9	22.0	19.6	18.8	18.8
47.5°	1531.8	1309.1	234.7	60.8	45.0	29.7	21.5	17.9	16.0	15.4	15.1
50°	1679.3	1373.5	169.2	53.1	36.9	23.5	17.5	14.9	13.7	12.8	12.8
52.5°	1802.2	1393.8	124.6	44.8	29.9	18.8	14.5	12.8	11.5	10.9	10.9
55°	1910.3	1385.5	92.6	36.9	24.1	15.4	12.4	10.9	9.8	9.2	9.2
57.5°	2014.0	1358.6	69.1	30.1	19.4	12.4	10.5	9.2	8.1	7.7	7.7
60°	2098.7	1313.8	51.4	24.3	15.6	10.0	8.7	7.5	6.6	6.0	6.0
62.5°	2167.4	1264.3	37.8	20.1	12.4	7.9	6.8	6.2	4.9	4.3	4.3
65°	2167.8	1182.2	28.4	16.6	9.6	6.2	5.1	4.9	3.2	2.6	2.3
67.5°	2011.0	1019.2	21.8	14.3	7.5	4.7	3.8	4.1	1.7	1.1	0.9
68°	1954.1	977.8	20.5	14.1	7.0	4.5	3.6	4.1	1.5	0.9	0.6
70°	1647.5	777.9	16.4	13.7	6.2	3.4	3.0	4.1	1.3	0.6	0.4
72.5°	1053.7	451.4	12.2	10.9	4.7	2.6	1.9	3.6	1.3	0.4	0.2
75°	448.5	140.0	8.3	7.7	2.8	1.9	1.3	2.3	0.9	0.2	0.0
77.5°	94.5	31.6	4.9	4.7	1.9	1.3	0.9	0.6	0.2	0.0	0.0
80°	24.3	9.2	2.6	2.3	1.1	0.6	0.4	0.0	0.0	0.0	0.0
82.5°	7.7	3.6	1.5	1.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.8	2.1	0.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	0.6	0.2	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)