

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: McGRAW-EDISON

Report Number: P450383

Luminaire Tested: **GALN-SA1A-830-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450383
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2944 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G0

Input Watts (W): 33
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

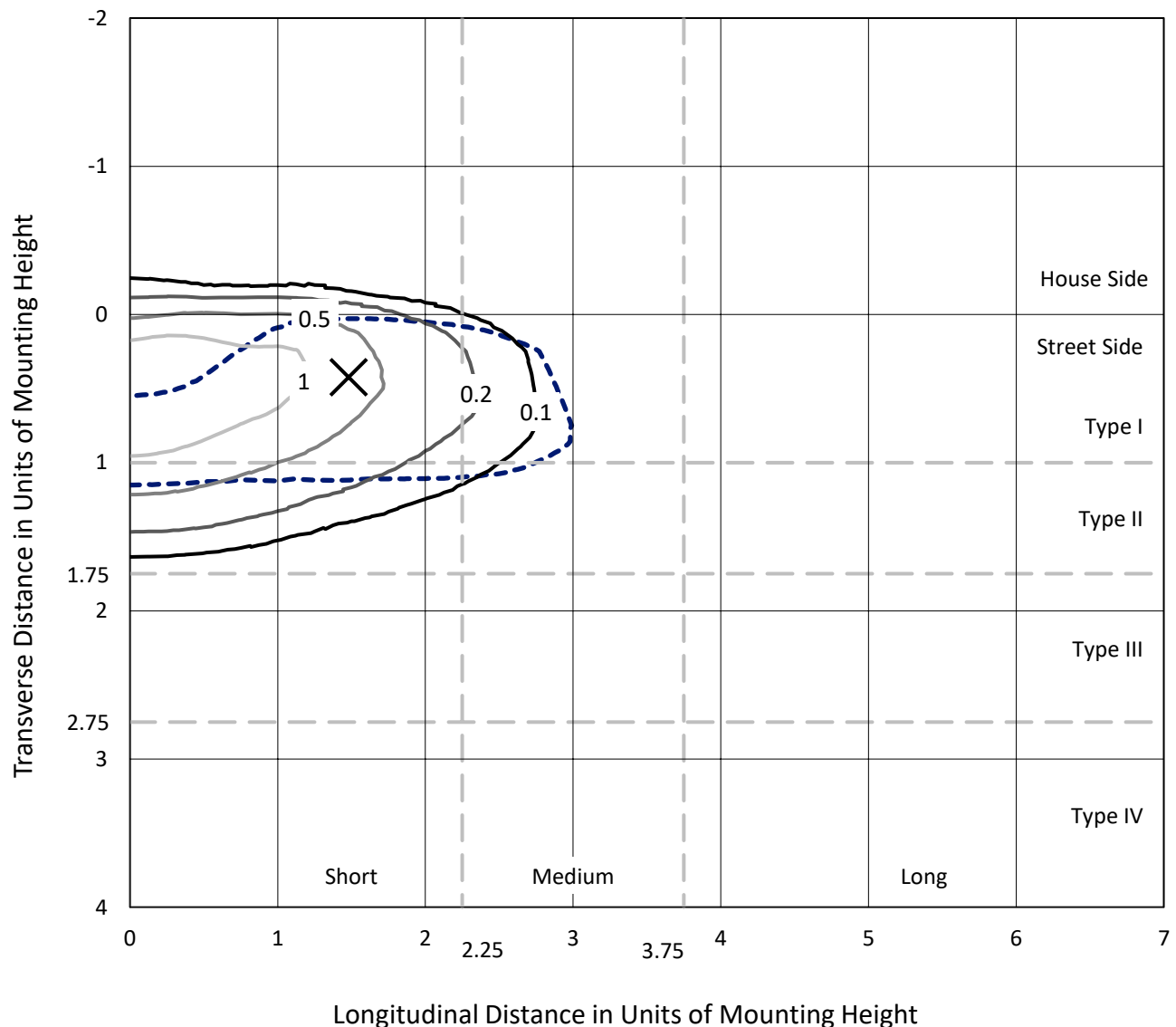


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Iso-Footcandle Lines of Horizontal Illumination

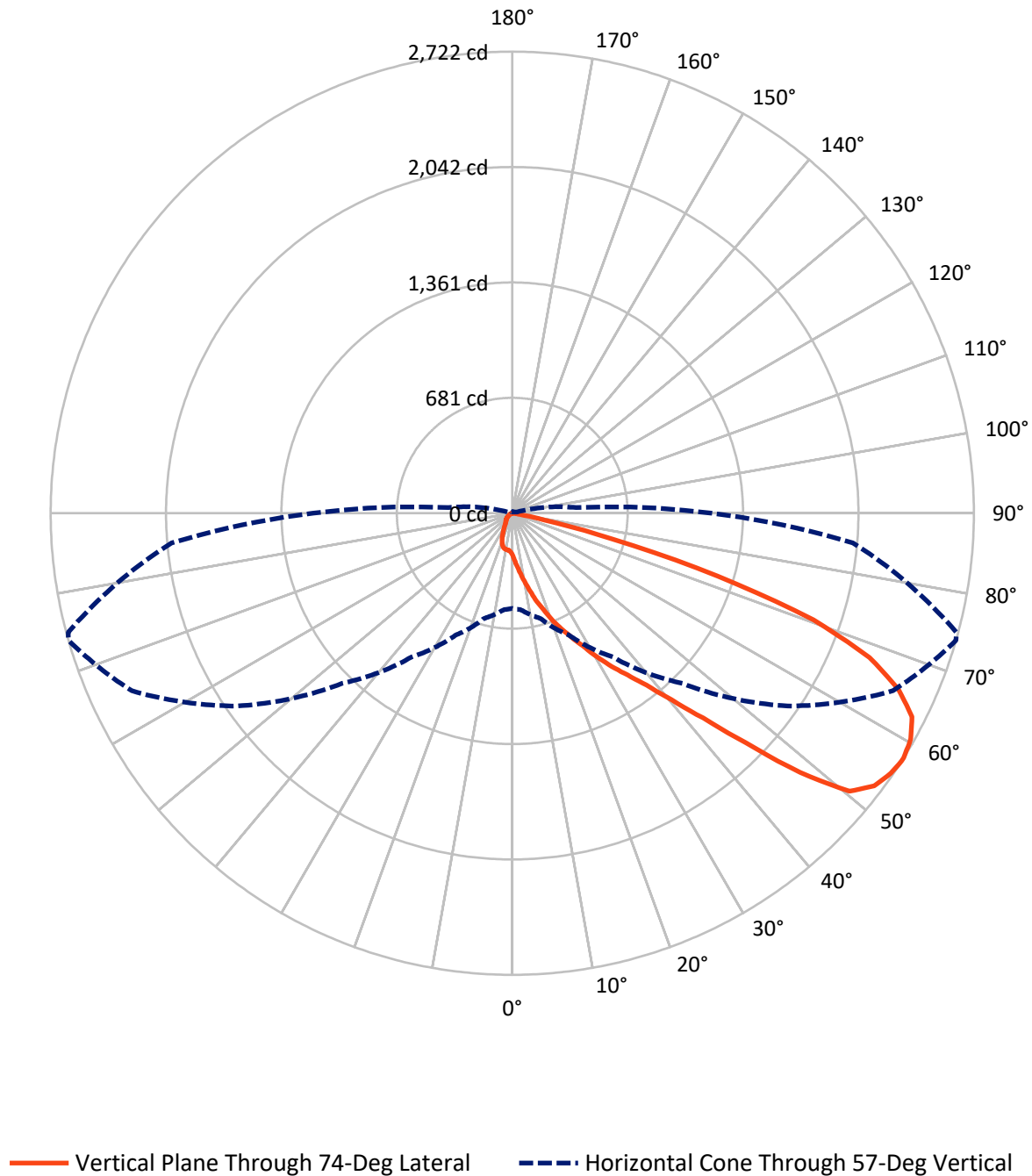
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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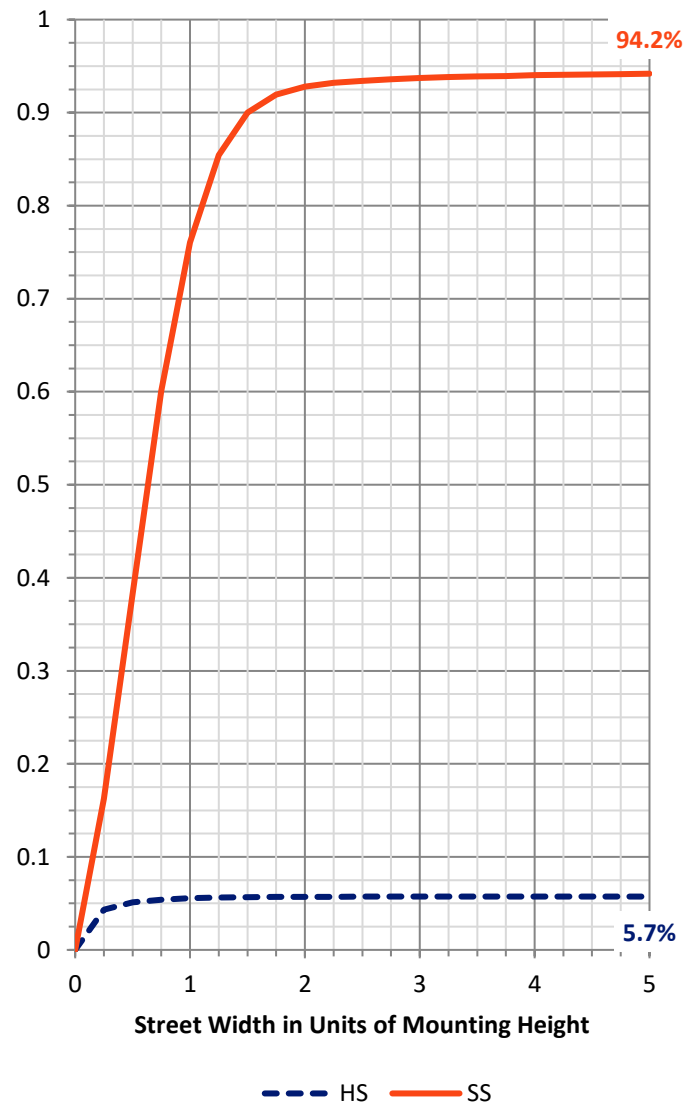
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	169.8	0.0	169.8
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	2774.2	0.0	2774.2
	% Fixture	94.2	0.0	94.2
Total	Lumens	2944.0	0.0	2944.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.8	1.0
10°-20°	117.3	4.0
20°-30°	251.0	8.5
30°-40°	461.3	15.7
40°-50°	707.2	24.0
50°-60°	748.1	25.4
60°-70°	488.6	16.6
70°-80°	133.5	4.5
80°-90°	7.2	0.2
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°	2944.0	100.0
0°-180°	2944.0	100.0

Coefficient of Utilization



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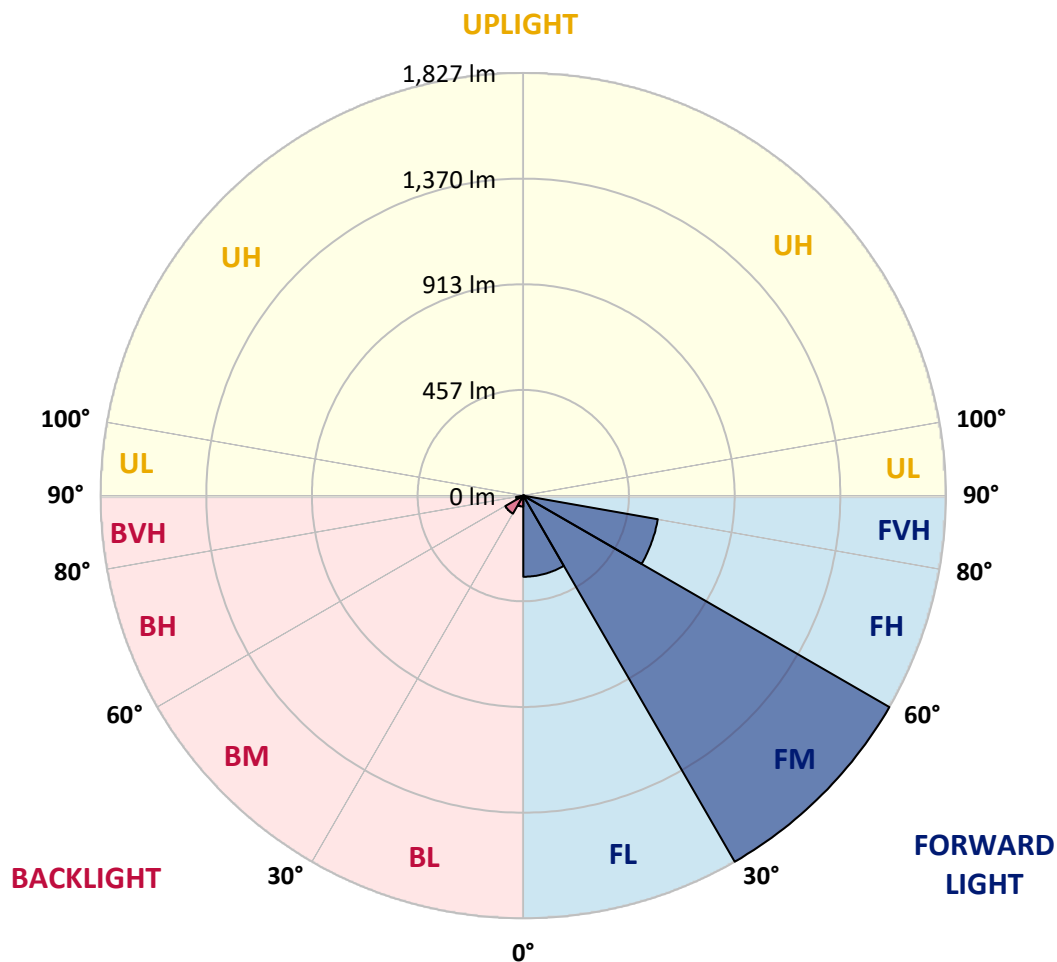
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	350.6	11.9			
FM	(30°-60°)	1826.8	62.1			
FH	(60°-80°)	590.2	20.0			G0/660
FVH	(80°-90°)	6.6	0.2			G0/10
BL	(0°-30°)	47.4	1.6	B0/110		
BM	(30°-60°)	89.9	3.1	B0/220		
BH	(60°-80°)	31.9	1.1	B0/110		G0/110
BVH	(80°-90°)	0.6	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-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	246.6	246.6	246.6	246.6	246.6	246.6	246.6	246.6	246.6	246.6	246.6
2.5°	360.8	357.5	351.0	348.8	339.2	324.4	311.4	293.9	280.1	278.7	262.0
5°	483.2	475.8	472.8	458.2	435.2	413.6	376.6	348.6	316.3	313.8	280.3
7.5°	601.0	590.9	587.8	574.0	547.2	513.2	465.3	414.2	363.0	358.3	304.9
10°	686.4	687.8	682.3	673.2	651.5	616.9	557.7	488.0	415.1	409.2	332.5
12.5°	747.6	747.4	748.4	748.2	736.6	710.4	648.2	567.9	472.4	460.8	364.2
15°	787.4	788.0	791.1	801.7	802.9	786.6	734.8	644.3	538.8	524.4	398.6
17.5°	827.7	831.9	836.8	846.8	855.7	849.2	812.6	724.0	599.0	588.2	435.4
20°	894.1	900.0	897.2	903.3	908.0	908.6	880.3	797.6	672.0	653.9	477.5
22.5°	1000.5	1000.2	992.9	982.0	972.8	972.4	946.8	873.2	738.2	720.8	519.7
25°	1134.8	1135.4	1121.2	1089.9	1067.1	1039.3	1009.8	939.5	809.2	787.6	564.3
27.5°	1288.9	1285.0	1263.5	1220.4	1175.3	1127.7	1085.2	1016.5	884.4	866.5	615.3
30°	1427.3	1425.9	1400.7	1348.0	1288.7	1240.9	1179.3	1113.1	981.8	959.8	672.4
32.5°	1556.2	1558.2	1523.2	1468.8	1411.4	1356.4	1291.3	1205.3	1077.3	1046.2	734.6
35°	1656.8	1658.8	1622.6	1577.3	1518.4	1472.6	1410.6	1303.7	1171.6	1145.4	806.1
37.5°	1710.4	1713.1	1692.2	1658.0	1621.2	1598.2	1540.5	1430.4	1286.2	1270.4	890.7
40°	1720.6	1723.7	1714.5	1705.4	1703.3	1719.8	1702.9	1579.5	1445.2	1420.4	1016.7
42.5°	1690.1	1694.2	1698.2	1718.6	1760.0	1820.4	1879.2	1782.0	1649.9	1616.5	1170.8
45°	1610.0	1609.6	1625.7	1678.3	1771.2	1900.1	2063.3	2035.5	1928.7	1889.1	1388.5
47.5°	1473.0	1471.0	1505.8	1580.8	1725.5	1914.7	2213.5	2343.2	2284.7	2248.1	1622.4
50°	1264.3	1274.2	1328.9	1433.6	1611.9	1870.4	2259.9	2545.0	2576.7	2537.9	1811.5
52.5°	1019.8	1019.4	1105.1	1247.2	1443.6	1772.8	2227.5	2581.6	2671.7	2642.0	1904.6
55°	754.7	760.0	849.2	992.5	1225.1	1594.8	2122.0	2544.0	2707.8	2686.9	1965.9
57°	561.4	570.8	642.3	793.9	1034.8	1418.6	1981.6	2476.7	2722.1	2710.7	2017.0
57.5°	524.0	524.4	594.1	731.9	979.1	1350.9	1941.4	2448.7	2721.7	2715.4	2025.3
60°	322.6	332.7	380.9	494.7	716.7	1054.3	1671.6	2287.5	2700.5	2709.7	2060.9
62.5°	193.1	197.4	228.7	298.2	462.0	769.5	1367.9	2081.2	2645.4	2673.3	2058.4
65°	124.2	125.2	139.4	180.5	288.8	520.1	1054.1	1808.6	2503.0	2554.2	1977.9
67.5°	95.9	97.6	103.3	118.5	167.5	324.0	745.6	1517.8	2272.5	2338.5	1782.8
70°	85.2	86.0	88.0	92.9	110.8	182.9	463.8	1185.6	1884.4	1903.1	1395.2
72.5°	69.5	71.8	78.1	79.7	87.8	114.2	258.1	795.8	1266.1	1270.8	780.5
75°	53.9	54.3	63.6	68.3	74.0	78.7	115.2	401.2	608.2	575.6	300.8
77.5°	40.2	42.1	46.3	52.2	60.4	56.3	51.6	151.2	188.8	185.4	87.4
80°	25.8	26.8	32.3	39.2	47.0	36.8	29.1	44.3	41.5	42.7	20.9
82.5°	13.0	13.2	20.7	31.9	29.9	18.5	18.3	18.1	15.4	15.2	9.8
85°	1.4	3.0	13.4	18.3	13.4	6.1	8.5	8.3	8.1	8.3	5.7
87.5°	0.2	0.2	2.2	2.6	1.8	2.0	2.4	2.6	3.3	3.0	2.4
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°	246.6	246.6	246.6	246.6	246.6	246.6	246.6	246.6	246.6	246.6	246.6
2.5°	253.9	245.7	230.7	216.3	205.5	198.6	189.6	186.4	181.7	181.1	178.9
5°	264.8	249.4	223.2	202.4	185.8	173.2	162.2	153.1	145.7	144.1	144.9
7.5°	280.5	257.5	220.9	192.7	169.5	148.0	130.5	119.7	112.0	109.2	109.6
10°	298.2	268.3	220.5	182.3	147.0	120.5	101.4	91.9	87.4	85.8	83.9
12.5°	319.1	280.7	219.5	166.3	122.2	96.1	82.5	76.8	72.6	71.3	71.3
15°	342.7	293.9	214.6	146.3	99.2	79.5	70.3	65.9	64.4	63.2	63.2
17.5°	367.3	306.9	204.5	121.8	82.3	68.1	62.4	59.8	57.7	56.3	56.3
20°	395.3	319.7	188.2	100.0	69.5	60.8	56.3	53.3	51.6	50.4	50.0
22.5°	422.0	330.1	167.5	82.1	60.6	54.7	50.6	47.4	45.7	45.1	45.1
25°	449.6	336.4	142.5	67.9	55.3	49.6	45.1	42.5	41.1	40.7	40.4
27.5°	476.4	340.1	120.5	59.4	50.4	44.9	40.7	38.6	37.2	36.8	37.0
30°	509.0	340.7	99.2	53.3	46.1	40.4	36.6	34.8	33.9	33.5	33.3
32.5°	541.9	339.9	83.3	49.6	42.1	36.6	33.3	31.9	31.3	30.7	30.7
35°	578.9	335.6	70.9	45.9	38.2	33.3	30.5	29.3	28.5	27.8	27.6
37.5°	624.8	333.3	63.8	41.9	34.8	30.3	27.6	26.4	25.8	25.0	24.8
40°	697.2	343.3	61.6	38.2	31.3	27.4	25.0	23.6	22.8	22.0	21.7
42.5°	787.4	360.8	57.9	34.6	28.3	24.8	22.4	20.7	19.3	18.3	17.9
45°	904.3	383.8	52.2	30.7	25.6	22.0	19.7	17.7	15.9	15.0	14.8
47.5°	1026.9	405.9	47.2	27.6	22.8	19.5	17.1	14.8	13.2	12.6	12.4
50°	1102.1	410.4	43.9	24.2	19.9	16.9	14.4	12.4	11.4	10.8	10.8
52.5°	1136.4	403.3	39.4	21.1	17.3	14.8	12.4	10.8	10.2	9.8	9.6
55°	1160.4	392.3	33.5	18.3	14.8	12.6	11.0	9.8	8.9	8.5	8.3
57°	1174.4	377.5	29.1	16.1	12.8	11.0	9.8	8.7	7.9	7.1	7.1
57.5°	1175.1	371.8	27.8	15.9	12.2	10.6	9.6	8.5	7.5	6.7	6.5
60°	1157.0	332.7	22.4	13.4	9.8	8.9	7.9	6.7	5.3	4.5	4.3
62.5°	1098.8	283.1	18.5	11.4	7.9	6.9	5.7	5.1	3.7	2.6	2.6
65°	1010.8	229.7	15.9	9.1	6.5	5.1	3.9	3.7	2.2	1.2	1.0
67.5°	883.6	178.9	13.4	7.5	5.5	3.7	2.6	2.4	1.2	0.4	0.0
70°	673.2	122.0	11.2	6.1	4.1	2.6	1.8	1.4	0.8	0.2	0.0
72.5°	388.0	67.1	9.4	4.7	3.0	2.0	1.4	0.8	0.8	0.0	0.0
75°	138.6	28.9	7.1	3.5	2.4	1.6	1.0	0.4	0.6	0.2	0.0
77.5°	44.1	15.4	4.7	2.6	2.0	1.2	0.8	0.4	0.4	0.2	0.0
80°	13.0	8.1	2.8	2.2	1.4	1.0	0.6	0.2	0.4	0.2	0.0
82.5°	7.1	4.1	2.2	1.6	1.4	0.8	0.6	0.2	0.2	0.2	0.0
85°	3.7	2.4	1.8	1.6	1.4	0.8	0.6	0.2	0.0	0.2	0.2
87.5°	2.0	1.8	1.8	1.6	1.4	1.0	0.6	0.2	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)