

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: P450853

Luminaire Tested: **GALN-SA1C-830-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450853
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1C-830-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4071 lumens
Efficiency: N/A
Efficacy: 71.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

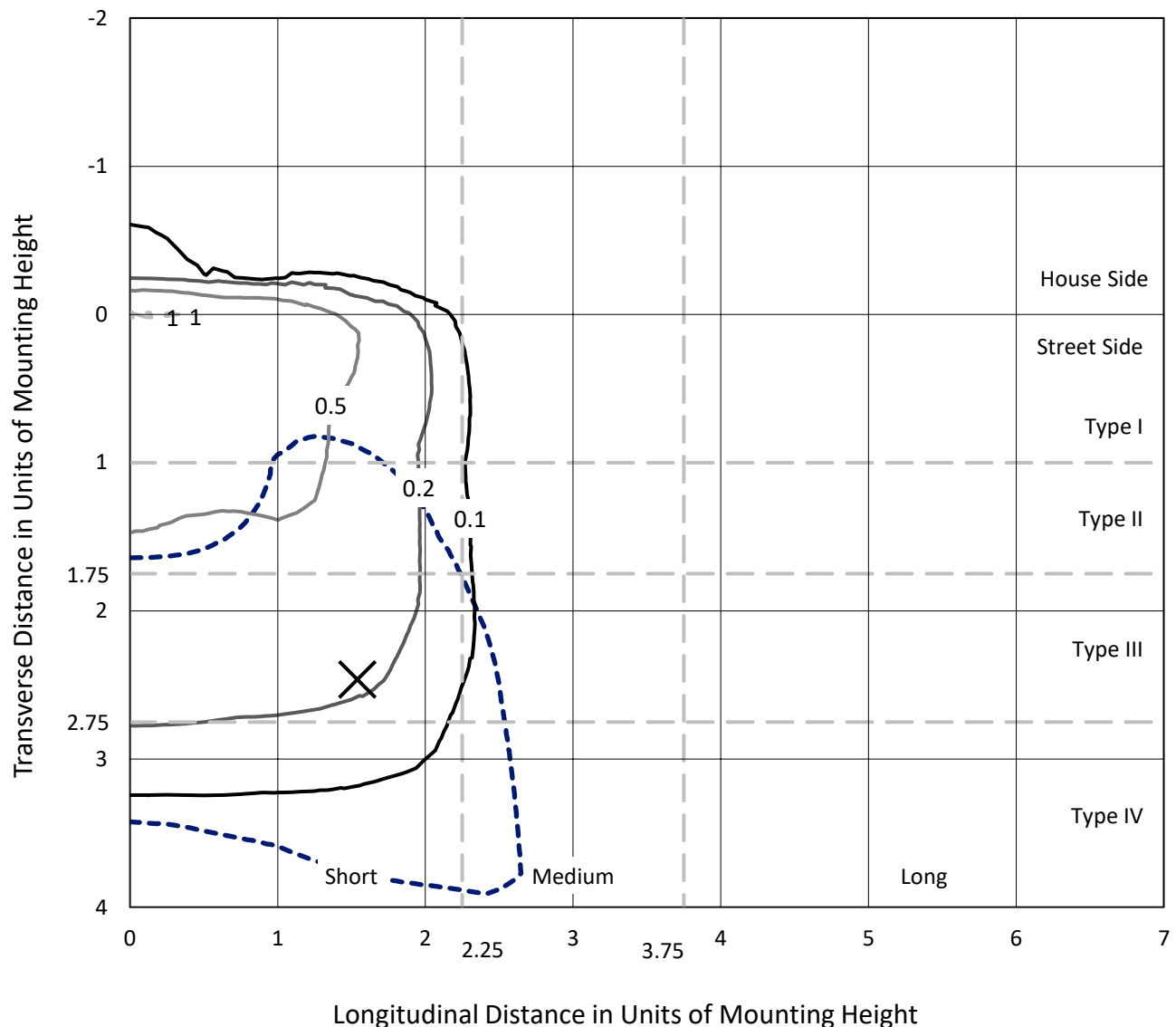
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

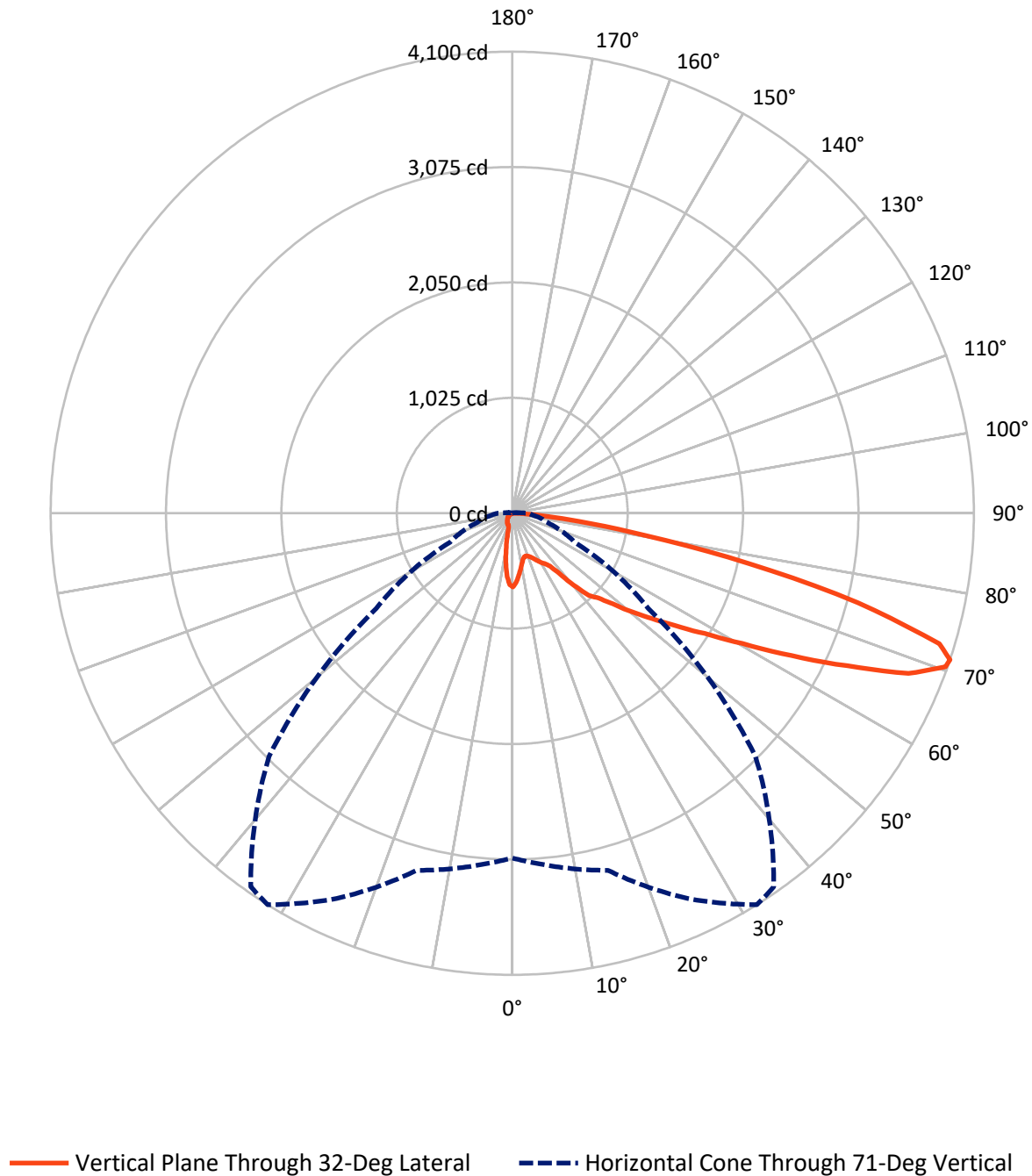
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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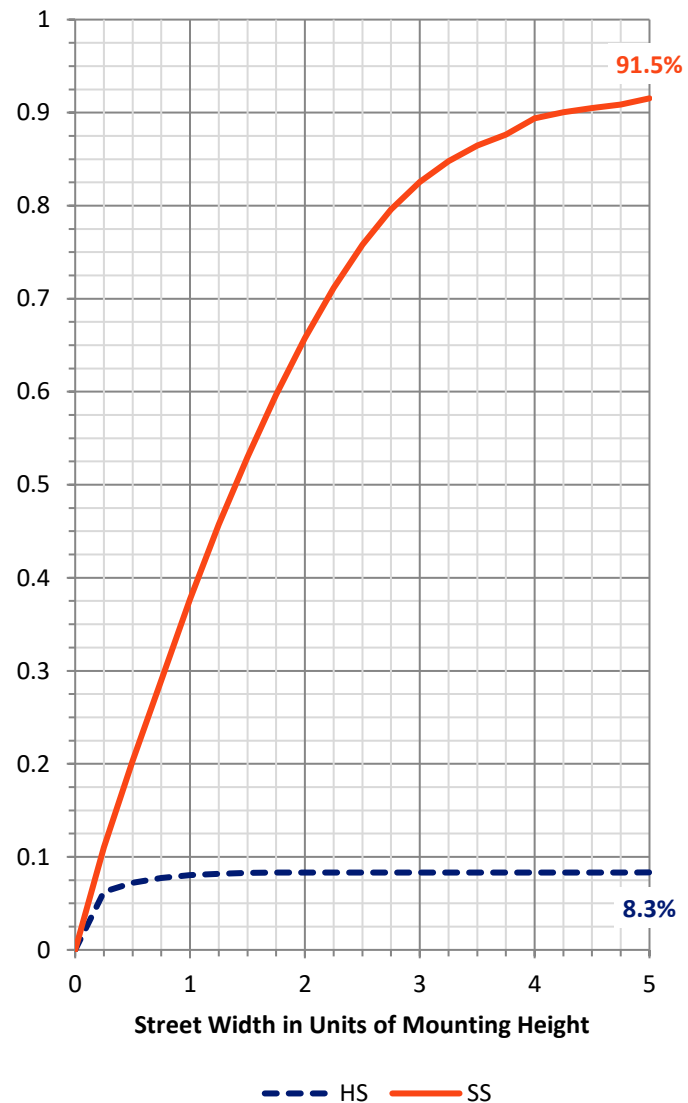
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	341.0	0.0	341.0
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	3730.0	0.0	3730.0
	% Fixture	91.6	0.0	91.6
Total	Lumens	4071.0	0.0	4071.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.2	1.3
10°-20°	115.5	2.8
20°-30°	179.7	4.4
30°-40°	299.4	7.4
40°-50°	557.0	13.7
50°-60°	894.3	22.0
60°-70°	1202.9	29.5
70°-80°	713.7	17.5
80°-90°	55.2	1.4
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°	4071.0	100.0
0°-180°	4071.0	100.0

Coefficient of Utilization



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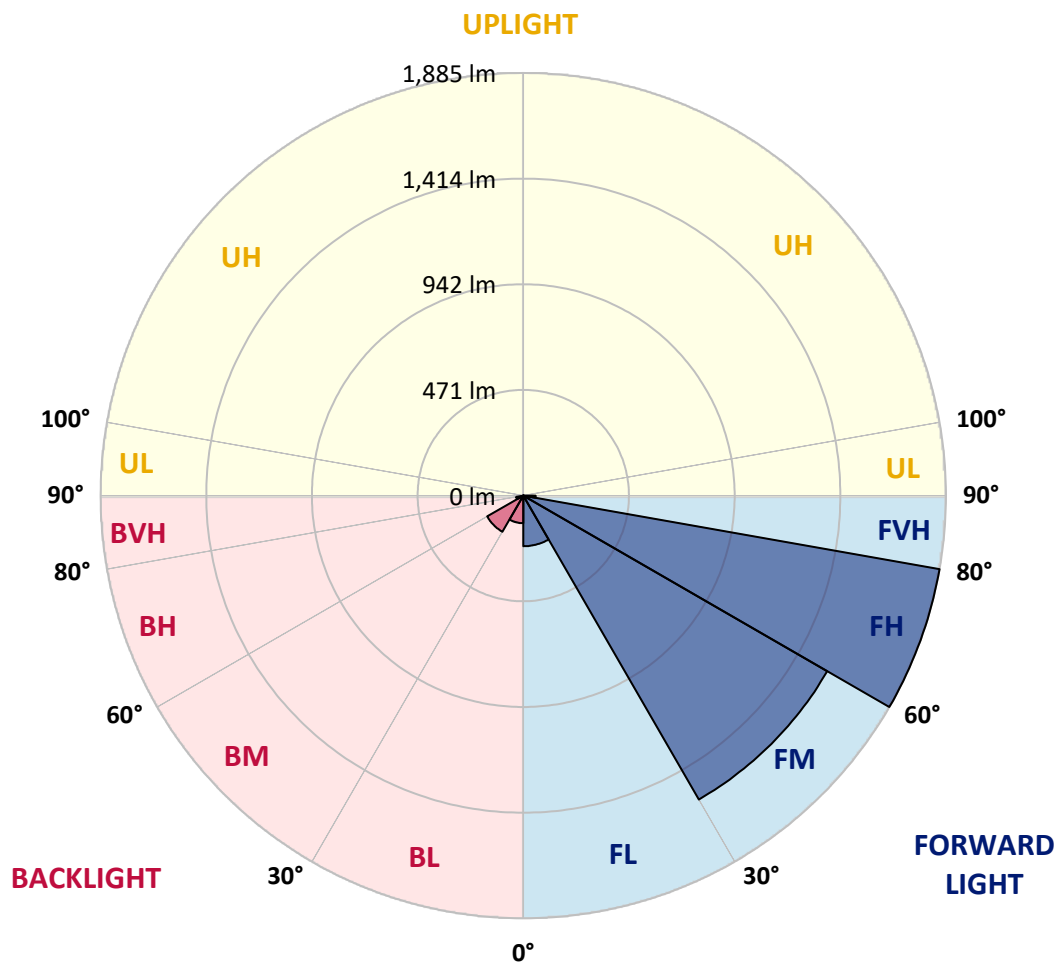
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	225.6	5.5			
FM	(30°-60°)	1564.7	38.4			
FH	(60°-80°)	1884.7	46.3			G2/5000
FVH	(80°-90°)	54.9	1.3			G1/100
BL	(0°-30°)	122.9	3.0	B1/500		
BM	(30°-60°)	186.0	4.6	B0/220		
BH	(60°-80°)	31.9	0.8	B0/110		G0/110
BVH	(80°-90°)	0.2	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	654.7	654.7	654.7	654.7	654.7	654.7	654.7	654.7	654.7	654.7	654.7
2.5°	607.2	613.4	612.5	614.7	620.0	622.2	628.1	634.7	643.7	650.0	654.1
5°	543.7	548.4	549.1	560.0	565.3	571.2	588.7	607.8	629.1	645.9	657.2
7.5°	475.9	478.4	483.4	497.8	511.2	517.2	543.7	576.9	610.3	641.9	662.2
10°	420.0	422.8	431.9	447.2	459.7	467.5	504.4	545.9	592.8	639.7	669.4
12.5°	388.1	389.7	393.1	406.9	422.8	431.2	470.9	518.4	578.7	640.6	681.6
15°	385.9	385.3	381.2	386.9	401.2	410.0	448.7	499.7	566.2	643.7	695.9
17.5°	397.5	395.9	386.2	386.2	398.1	405.3	439.4	489.7	560.0	650.9	716.2
20°	415.3	412.8	396.9	395.6	407.2	414.7	445.0	490.3	561.2	664.4	743.4
22.5°	437.8	435.0	410.9	411.6	424.1	431.6	461.2	501.6	569.1	680.9	772.5
25°	467.2	464.1	435.6	434.4	447.5	454.1	485.3	521.6	580.0	701.6	810.6
27.5°	506.2	499.7	465.6	463.7	477.8	486.2	514.4	548.4	599.4	730.0	861.9
30°	538.4	531.2	498.7	493.7	508.7	515.3	544.4	584.7	637.5	779.7	932.8
32.5°	580.6	570.0	531.9	518.7	534.7	543.1	587.8	652.2	694.1	832.2	1017.2
35°	675.6	669.1	622.5	576.6	575.6	586.2	651.9	720.3	752.2	914.1	1132.2
37.5°	811.6	806.9	757.5	695.9	678.1	673.1	729.7	795.3	845.0	1026.6	1265.9
40°	969.4	958.4	913.1	860.9	837.8	823.1	821.6	906.9	966.2	1179.4	1405.3
42.5°	1082.5	1062.5	1007.5	1003.7	998.7	983.4	939.1	1070.0	1122.8	1343.7	1554.4
45°	1201.2	1170.9	1089.1	1075.0	1073.1	1072.2	1116.6	1263.1	1293.4	1521.9	1707.5
47.5°	1293.4	1269.4	1202.2	1195.9	1203.7	1225.0	1351.2	1468.1	1461.9	1680.6	1835.9
50°	1416.2	1398.1	1323.4	1335.3	1375.6	1410.3	1615.9	1691.5	1600.3	1805.6	1929.4
52.5°	1561.2	1527.8	1458.4	1490.6	1552.5	1610.3	1896.9	1887.2	1697.5	1899.7	1999.0
55°	1686.9	1663.1	1639.4	1672.8	1765.3	1837.5	2150.6	2033.7	1768.1	1975.3	2029.7
57.5°	1899.4	1893.7	1869.4	1903.4	2015.6	2090.6	2377.8	2147.5	1813.4	2014.7	1993.7
60°	2213.7	2204.7	2159.4	2202.8	2349.0	2466.8	2587.2	2249.7	1823.7	1999.4	1890.3
62.5°	2591.8	2560.9	2522.2	2586.2	2786.8	2838.7	2784.3	2310.3	1785.3	1877.5	1640.9
65°	2945.0	2913.1	2914.0	3049.0	3267.5	3302.8	3014.3	2301.2	1672.8	1572.2	1210.3
67.5°	3215.3	3210.0	3248.1	3511.5	3797.1	3772.8	3220.0	2165.6	1339.4	1019.1	643.1
70°	3229.0	3239.3	3348.7	3793.4	4083.4	4044.6	3202.5	1760.3	835.0	468.7	253.4
71°	3062.8	3132.2	3283.4	3784.6	4100.3	4050.0	3055.0	1474.4	612.5	326.9	182.8
72.5°	2610.0	2646.5	2973.4	3561.8	3966.8	3859.3	2680.9	1033.4	392.2	200.0	105.0
75°	1437.5	1527.5	1991.2	2794.3	3172.8	3078.4	1747.2	490.9	195.6	109.4	43.4
77.5°	684.4	666.9	971.6	1661.9	2151.2	2146.2	880.3	218.1	114.1	74.1	21.9
80°	195.6	220.0	371.9	790.0	1194.4	1207.5	338.1	105.3	79.1	57.8	11.2
82.5°	59.1	60.3	136.6	349.4	594.1	560.0	126.9	53.7	56.9	45.9	6.6
85°	10.3	12.8	40.3	123.1	226.6	171.9	31.9	25.6	37.5	30.3	3.7
87.5°	0.6	0.9	13.4	14.1	20.0	11.6	5.6	3.7	8.1	8.1	2.2
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°	654.7	654.7	654.7	654.7	654.7	654.7	654.7	654.7	654.7	654.7	654.7
2.5°	656.9	658.7	657.5	654.7	650.0	644.4	636.9	630.6	625.3	622.5	625.9
5°	660.9	663.4	657.2	643.1	621.9	598.7	572.5	552.2	536.2	531.2	529.4
7.5°	667.2	668.7	651.9	620.6	575.6	520.9	473.1	432.8	401.6	392.2	378.4
10°	675.3	674.4	642.5	584.4	505.3	423.1	349.1	294.1	252.5	237.5	236.2
12.5°	687.8	682.8	630.6	535.0	421.6	314.1	222.5	174.1	147.8	139.1	137.2
15°	703.4	691.6	611.9	477.2	322.8	202.8	137.2	122.5	119.1	118.4	117.8
17.5°	721.9	703.1	587.2	406.2	226.9	131.6	114.7	114.4	114.7	114.1	113.7
20°	746.9	715.3	557.8	322.2	150.0	110.9	109.4	109.4	109.7	109.4	109.4
22.5°	773.4	729.7	521.6	245.9	113.1	105.3	105.0	105.6	106.2	105.9	105.9
25°	806.2	748.4	473.7	168.4	101.2	100.6	100.9	102.2	103.4	103.7	103.4
27.5°	853.7	771.6	422.5	115.9	92.8	93.4	96.6	99.7	101.6	101.9	101.9
30°	907.2	797.2	355.6	94.1	85.9	85.9	89.7	95.6	99.7	100.3	100.6
32.5°	975.9	826.9	281.6	84.7	79.4	78.7	82.2	89.4	96.9	99.1	99.1
35°	1060.9	861.9	209.4	78.7	74.7	73.1	75.0	80.9	90.6	96.9	97.5
37.5°	1160.6	895.0	153.1	73.4	70.3	68.1	69.4	74.1	81.9	91.2	93.7
40°	1252.8	924.4	114.4	69.1	65.9	64.4	65.3	67.5	74.1	82.8	84.4
42.5°	1353.4	947.2	90.9	64.4	61.6	60.9	60.9	61.9	66.2	71.2	71.6
45°	1453.7	955.3	76.2	58.7	56.9	57.5	57.2	56.6	58.4	57.8	57.8
47.5°	1525.3	945.6	63.1	53.4	53.4	54.4	52.8	50.6	49.7	45.9	46.2
50°	1574.4	910.3	51.9	47.2	49.7	50.9	47.8	44.4	40.9	36.9	35.9
52.5°	1594.7	847.5	42.5	39.1	44.1	45.6	41.9	37.8	32.5	29.1	28.1
55°	1581.5	770.0	35.3	31.9	37.2	39.1	35.3	30.6	24.7	20.9	20.3
57.5°	1523.7	677.5	30.0	25.3	29.7	30.9	28.4	23.4	17.5	13.7	13.7
60°	1423.7	581.9	24.4	20.0	22.2	24.1	21.6	16.9	11.9	8.4	7.8
62.5°	1220.9	472.5	19.7	15.6	15.6	17.2	15.0	12.2	7.5	4.4	4.1
65°	881.6	324.1	15.6	11.6	11.2	11.2	9.4	8.1	4.4	1.9	1.2
67.5°	479.1	182.8	12.5	8.7	7.8	7.5	5.9	4.7	1.9	0.3	0.0
70°	188.4	70.3	9.7	5.9	5.0	4.7	3.1	2.2	1.2	0.0	0.0
71°	127.8	48.4	8.4	5.0	4.1	3.4	2.5	1.9	0.9	0.0	0.0
72.5°	73.1	30.0	6.6	3.7	3.1	2.5	1.9	1.2	0.9	0.0	0.0
75°	31.9	15.3	4.1	2.8	2.2	1.6	1.2	0.9	0.3	0.0	0.0
77.5°	16.2	8.4	2.8	2.2	1.2	0.9	0.6	0.3	0.0	0.0	0.0
80°	9.1	4.4	1.9	1.2	0.9	0.6	0.3	0.3	0.0	0.0	0.0
82.5°	5.0	2.5	0.9	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.1	1.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.6	0.6	0.0	0.0	0.0	0.0	0.3	0.3	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)