

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: P450845

Luminaire Tested: **GALN-SA1C-830-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450845
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
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-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4226 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 57
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

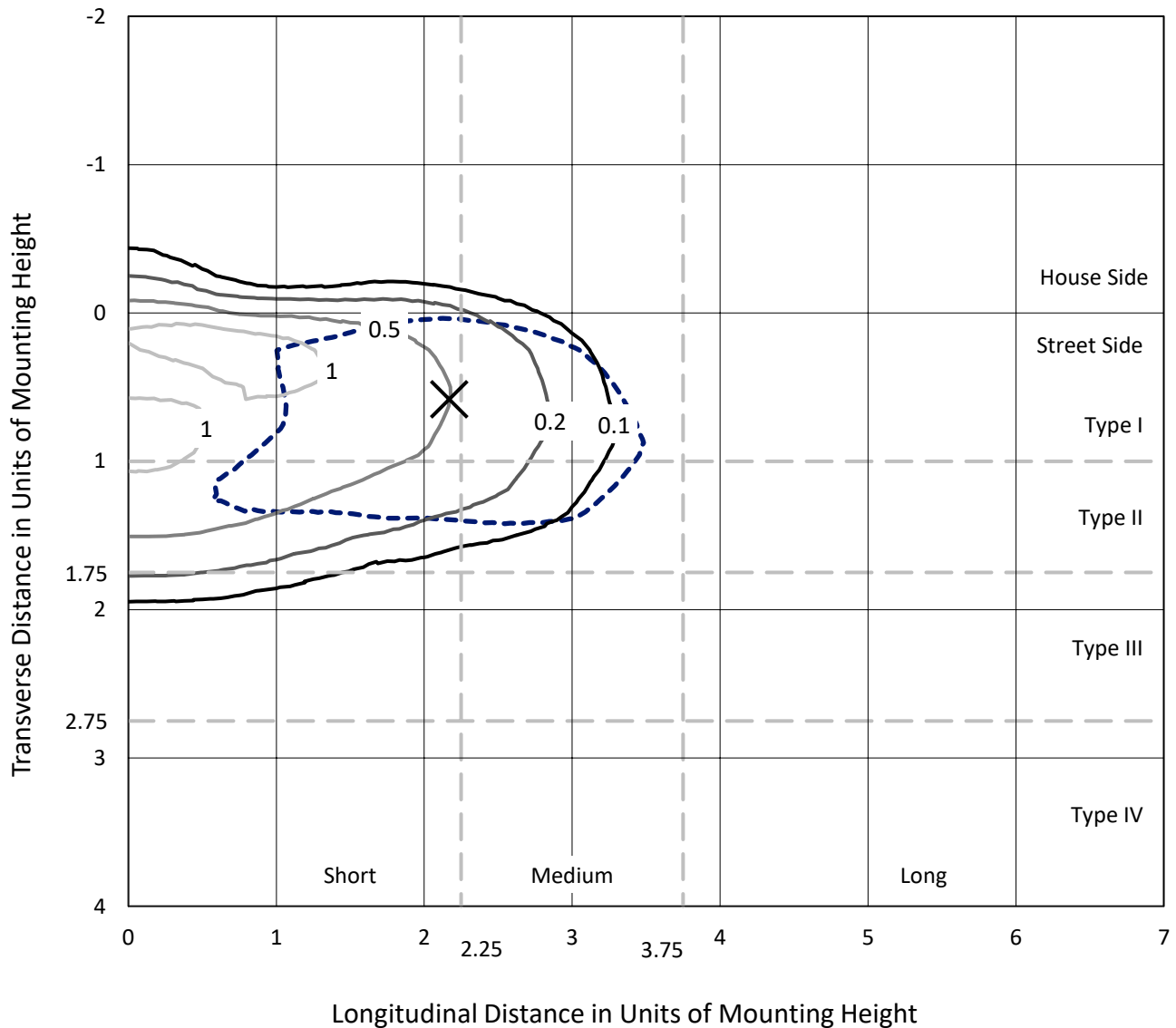


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Iso-Footcandle Lines of Horizontal Illumination

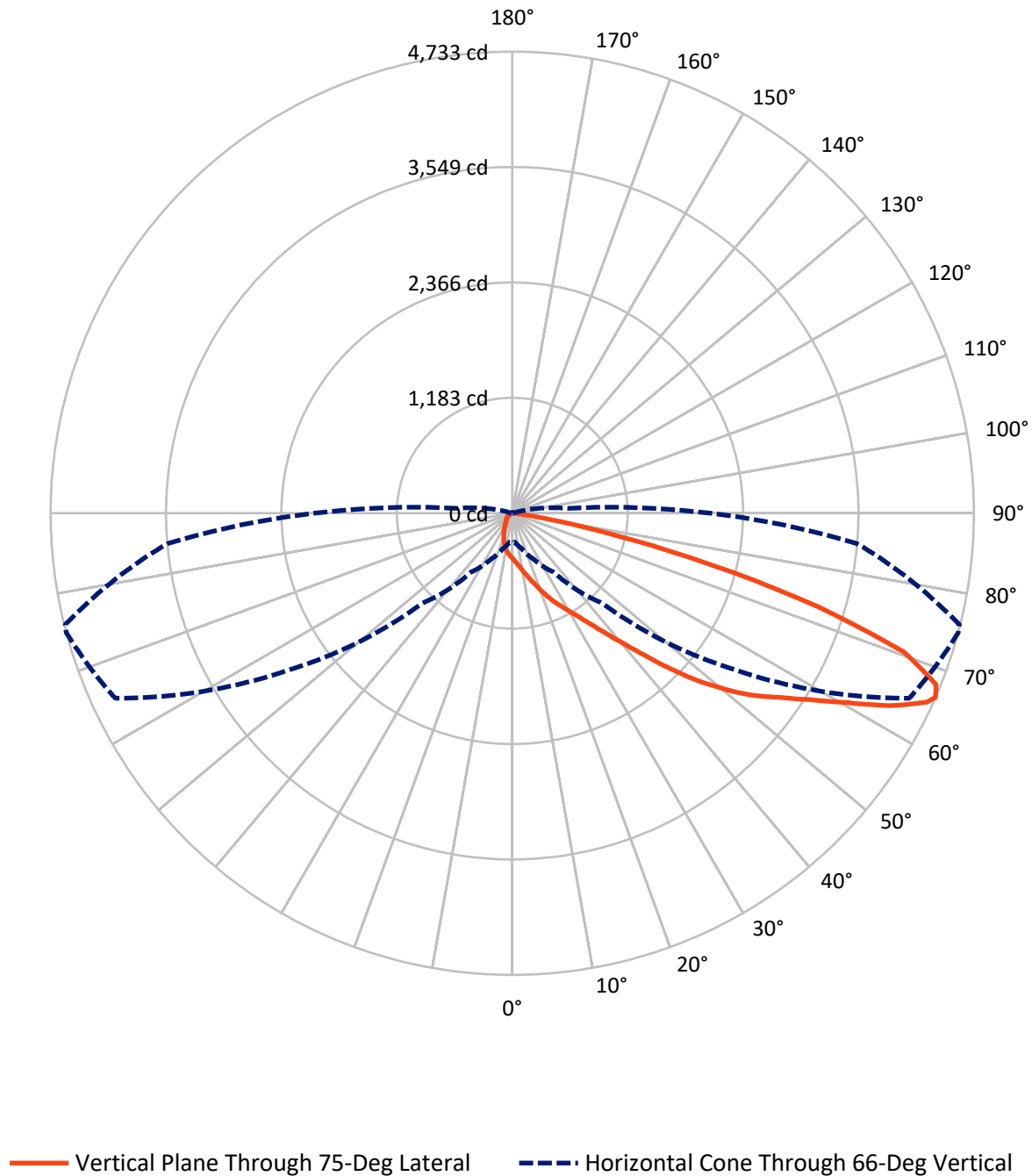
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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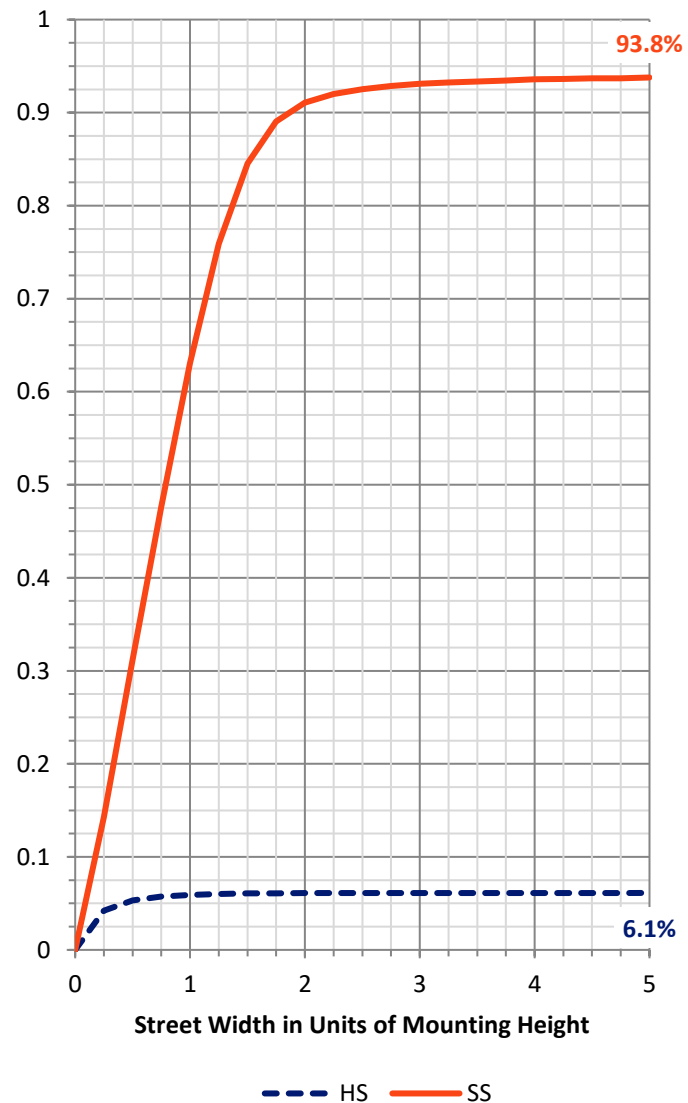
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	260.9	0.0	260.9
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	3965.1	0.0	3965.1
	% Fixture	93.8	0.0	93.8
Total	Lumens	4226.0	0.0	4226.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.6	1.1
10°-20°	131.2	3.1
20°-30°	226.5	5.4
30°-40°	408.6	9.7
40°-50°	738.2	17.5
50°-60°	1150.8	27.2
60°-70°	1093.2	25.9
70°-80°	409.7	9.7
80°-90°	23.1	0.5
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°	4226.0	100.0
0°-180°	4226.0	100.0

Coefficient of Utilization



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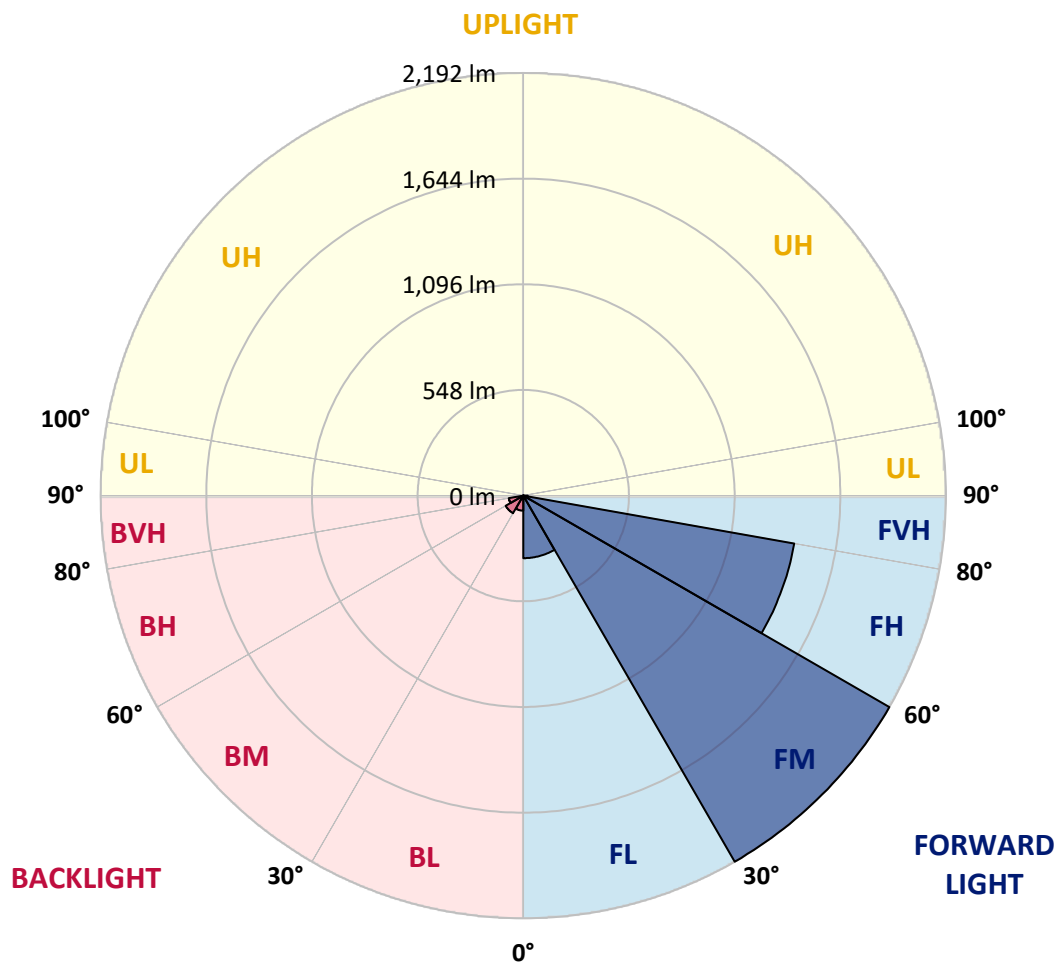
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	324.4	7.7			
FM	(30°-60°)	2192.0	51.9			
FH	(60°-80°)	1426.8	33.8			G1/1800
FVH	(80°-90°)	21.9	0.5			G1/100
BL	(0°-30°)	77.9	1.8	B0/110		
BM	(30°-60°)	105.6	2.5	B0/220		
BH	(60°-80°)	76.2	1.8	B0/110		G0/110
BVH	(80°-90°)	1.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	462.2	462.2	462.2	462.2	462.2	462.2	462.2	462.2	462.2	462.2	462.2
2.5°	552.1	545.3	547.5	544.3	537.1	526.5	517.2	503.7	490.3	488.1	473.1
5°	625.0	623.1	620.6	611.5	606.5	590.3	570.9	547.8	520.0	515.0	487.8
7.5°	674.6	673.7	675.0	670.3	665.9	651.2	630.6	599.0	555.9	553.1	507.8
10°	690.9	693.4	698.1	705.6	712.4	707.8	692.1	652.8	602.5	594.3	530.6
12.5°	681.5	684.3	695.6	715.6	737.8	750.6	744.3	715.6	651.8	645.3	556.2
15°	657.5	660.9	676.8	707.8	747.4	783.7	799.3	778.7	709.3	698.7	587.1
17.5°	621.8	626.8	649.6	690.6	744.9	807.4	851.5	844.6	770.6	760.6	620.9
20°	595.0	598.7	618.1	665.0	734.3	820.6	901.2	920.6	846.2	829.0	660.6
22.5°	612.8	614.0	620.6	648.7	715.3	824.0	944.9	999.6	926.5	911.2	701.8
25°	700.0	687.5	680.9	674.6	711.2	820.9	984.6	1082.1	1006.5	990.2	742.8
27.5°	837.4	831.8	798.7	754.3	745.9	824.9	1010.9	1160.2	1081.8	1064.3	782.8
30°	987.1	977.4	957.1	892.1	826.8	853.7	1029.9	1236.2	1170.9	1147.7	819.3
32.5°	1124.6	1130.9	1100.5	1033.7	958.1	914.9	1054.6	1319.0	1273.0	1244.3	861.8
35°	1284.9	1297.4	1250.8	1186.8	1098.4	1025.6	1102.7	1412.4	1402.7	1366.5	927.4
37.5°	1447.7	1455.2	1426.8	1336.8	1257.1	1166.2	1193.4	1527.7	1562.4	1531.5	1005.9
40°	1584.6	1594.9	1574.0	1494.0	1409.0	1329.0	1324.9	1653.3	1752.4	1720.5	1122.7
42.5°	1689.3	1697.1	1697.7	1641.1	1564.6	1528.3	1492.7	1813.6	1990.5	1953.6	1258.3
45°	1821.4	1832.7	1826.1	1787.7	1730.5	1723.9	1705.5	2007.4	2275.5	2228.9	1434.3
47.5°	2025.8	2033.3	2017.0	1971.7	1913.6	1923.9	1913.0	2224.5	2566.1	2526.1	1616.4
50°	2167.7	2180.2	2203.3	2221.4	2179.2	2141.1	2108.6	2427.3	2842.0	2806.1	1802.7
52.5°	2166.1	2186.7	2259.8	2351.1	2443.3	2431.7	2338.3	2651.4	3105.4	3061.0	1977.7
55°	2020.2	2060.2	2167.7	2329.5	2584.8	2712.0	2669.5	2910.7	3332.9	3302.9	2180.5
57.5°	1718.9	1743.3	1892.7	2118.9	2505.8	2843.9	3053.2	3262.3	3605.7	3591.6	2495.4
60°	1156.2	1167.1	1359.3	1638.9	2133.3	2712.3	3334.5	3687.6	3941.6	3934.7	2863.2
62.5°	662.5	667.1	806.5	1042.4	1518.0	2298.6	3358.2	4212.2	4344.4	4348.1	3288.8
65°	356.5	359.0	471.5	611.8	923.7	1638.3	3019.8	4499.7	4670.0	4677.2	3552.6
66°	307.8	295.9	375.3	521.5	734.9	1304.0	2805.7	4489.4	4732.5	4724.7	3543.2
67.5°	234.0	244.7	299.7	400.9	544.6	927.1	2316.4	4289.7	4685.0	4660.6	3399.1
70°	167.5	171.9	213.4	285.9	370.9	508.7	1480.2	3562.9	4258.1	4225.3	2961.4
72.5°	108.1	112.8	151.2	206.9	268.1	277.8	828.7	2574.2	3282.9	3278.2	2230.2
75°	77.2	81.6	100.0	148.1	201.5	171.9	399.0	1734.9	2087.0	2073.0	1379.6
77.5°	55.9	58.1	66.9	96.9	144.1	123.1	185.0	926.5	1039.0	1088.0	609.6
80°	32.2	34.1	46.6	59.1	97.5	84.1	88.4	371.8	383.4	365.0	190.6
82.5°	15.9	18.1	27.8	40.3	60.9	56.6	40.6	111.9	118.1	115.0	48.1
85°	3.7	4.7	15.6	26.6	29.7	25.3	19.7	32.8	40.6	39.7	18.4
87.5°	0.3	0.6	5.6	4.7	5.0	8.4	6.9	8.4	13.1	12.2	6.6
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°	462.2	462.2	462.2	462.2	462.2	462.2	462.2	462.2	462.2	462.2	462.2
2.5°	466.2	460.3	443.1	426.2	412.2	397.5	384.0	376.2	373.1	369.7	371.2
5°	472.8	458.4	423.7	393.7	364.3	339.4	319.4	306.5	300.3	299.4	297.8
7.5°	481.5	456.8	403.1	356.2	317.8	290.0	267.2	248.7	243.1	238.1	234.0
10°	492.2	454.0	377.5	316.9	275.9	240.9	210.9	189.0	177.8	174.7	176.9
12.5°	503.4	448.7	350.6	280.6	233.4	188.7	160.9	150.0	146.9	145.6	145.9
15°	514.7	442.2	322.5	245.6	185.9	150.6	137.8	135.0	133.7	133.1	132.5
17.5°	525.0	431.5	290.9	211.5	150.6	128.7	124.1	121.6	119.1	118.1	116.6
20°	537.1	419.3	262.5	173.4	127.5	116.6	110.9	106.2	102.5	100.0	99.7
22.5°	548.7	403.7	232.8	143.7	116.2	104.7	95.6	90.6	86.2	83.1	84.1
25°	555.0	384.7	206.2	125.3	105.9	92.8	82.8	76.6	71.9	70.3	70.0
27.5°	555.0	361.2	180.3	114.7	96.6	82.2	71.9	65.9	62.8	60.6	60.9
30°	550.6	335.3	156.2	106.6	88.4	72.8	63.1	57.8	55.3	53.7	53.4
32.5°	547.1	310.6	135.6	98.7	80.0	64.7	56.2	52.2	49.7	48.1	48.1
35°	552.5	289.4	119.7	90.9	72.2	58.4	50.9	47.2	44.7	43.4	43.1
37.5°	566.5	270.0	107.5	82.5	65.0	53.1	47.2	42.8	40.3	38.7	38.1
40°	601.2	259.0	98.4	74.7	58.1	48.7	42.8	38.7	35.6	34.1	33.7
42.5°	656.8	259.4	89.7	67.5	52.8	45.0	39.1	34.4	30.9	29.4	29.1
45°	740.6	271.2	82.8	60.6	48.1	40.9	35.0	30.0	26.9	25.3	25.3
47.5°	840.9	294.4	76.9	54.7	43.7	37.2	30.9	25.9	22.8	21.6	21.6
50°	949.6	324.4	70.9	48.4	40.0	33.1	26.6	22.5	20.0	19.1	19.1
52.5°	1060.6	360.6	65.0	43.4	35.9	28.7	22.8	20.0	17.8	17.2	16.9
55°	1206.2	406.8	58.7	38.1	31.6	24.7	20.3	17.5	15.0	14.1	13.7
57.5°	1430.2	476.5	51.9	33.4	25.9	20.6	17.5	14.7	11.9	10.3	10.0
60°	1700.5	561.5	44.7	29.4	20.9	16.9	14.1	11.2	8.7	6.9	6.6
62.5°	1953.6	615.6	37.8	24.7	16.6	12.8	10.0	8.4	6.2	4.4	4.1
65°	2065.5	597.5	31.2	20.0	13.1	9.1	6.6	5.9	3.7	1.9	1.6
66°	2028.3	570.6	28.7	18.1	11.9	7.8	5.6	5.0	2.8	0.9	0.9
67.5°	1918.6	507.2	25.0	15.6	10.3	6.2	4.4	3.7	1.6	0.3	0.0
70°	1643.9	410.3	19.7	11.6	7.5	4.4	2.5	1.9	0.9	0.0	0.0
72.5°	1262.7	305.6	15.6	8.7	5.3	2.5	1.2	0.6	0.9	0.0	0.0
75°	773.7	174.7	12.2	6.6	3.4	1.6	0.9	0.0	0.9	0.3	0.0
77.5°	343.4	78.4	8.1	4.4	2.5	1.2	0.6	0.0	0.6	0.3	0.0
80°	86.9	25.6	4.7	3.1	1.9	0.9	0.3	0.0	0.6	0.6	0.3
82.5°	23.7	9.4	3.4	2.5	1.6	0.9	0.3	0.0	0.6	0.6	0.6
85°	9.4	4.4	3.1	2.5	1.9	0.9	0.3	0.0	0.6	0.6	0.6
87.5°	4.4	3.1	3.1	2.8	2.2	0.9	0.3	0.0	0.6	0.3	0.6
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)