

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: P451551

Luminaire Tested: **GALN-SA2B-830-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451551
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-830-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6578 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 82
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

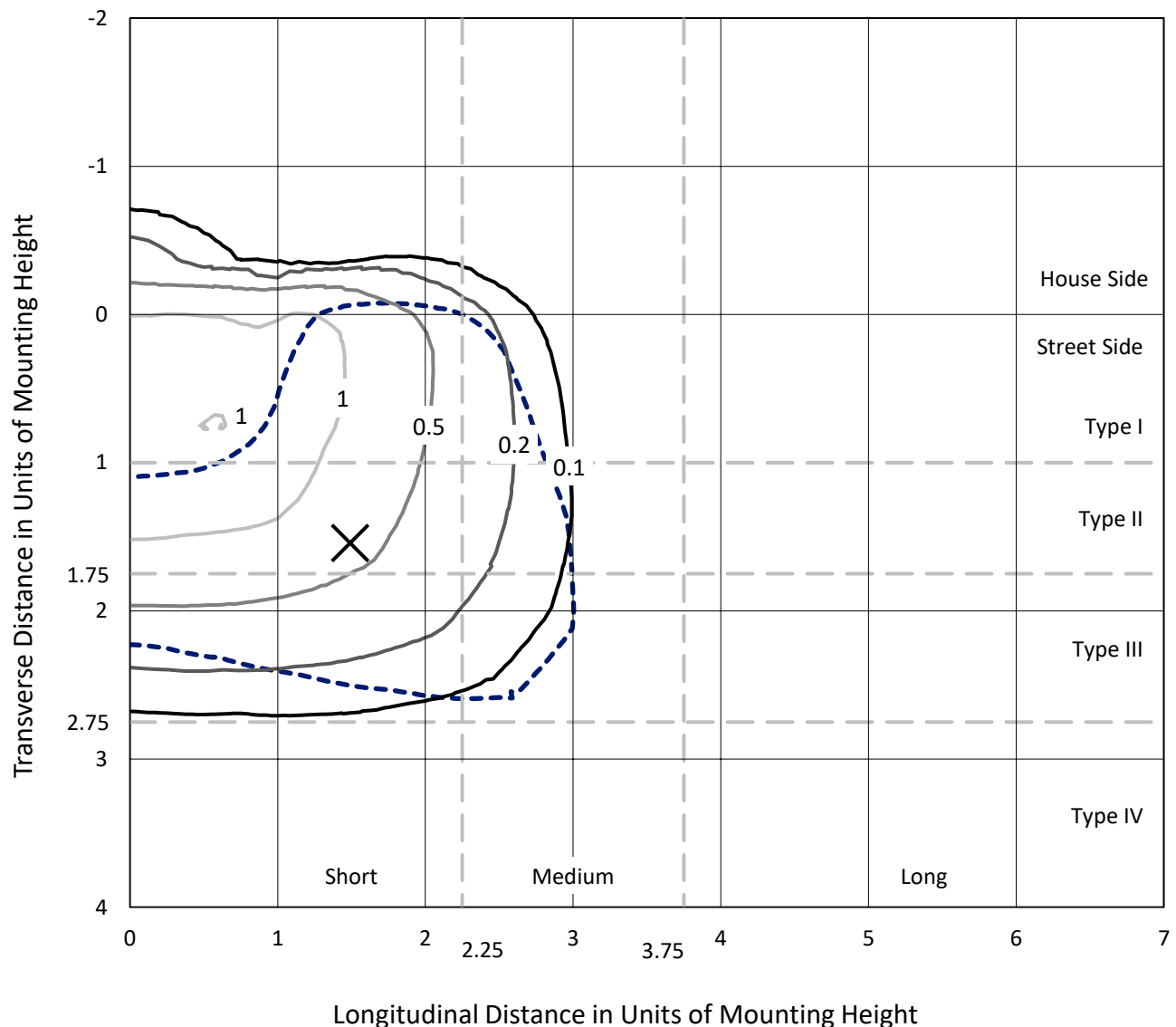


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Iso-Footcandle Lines of Horizontal Illumination

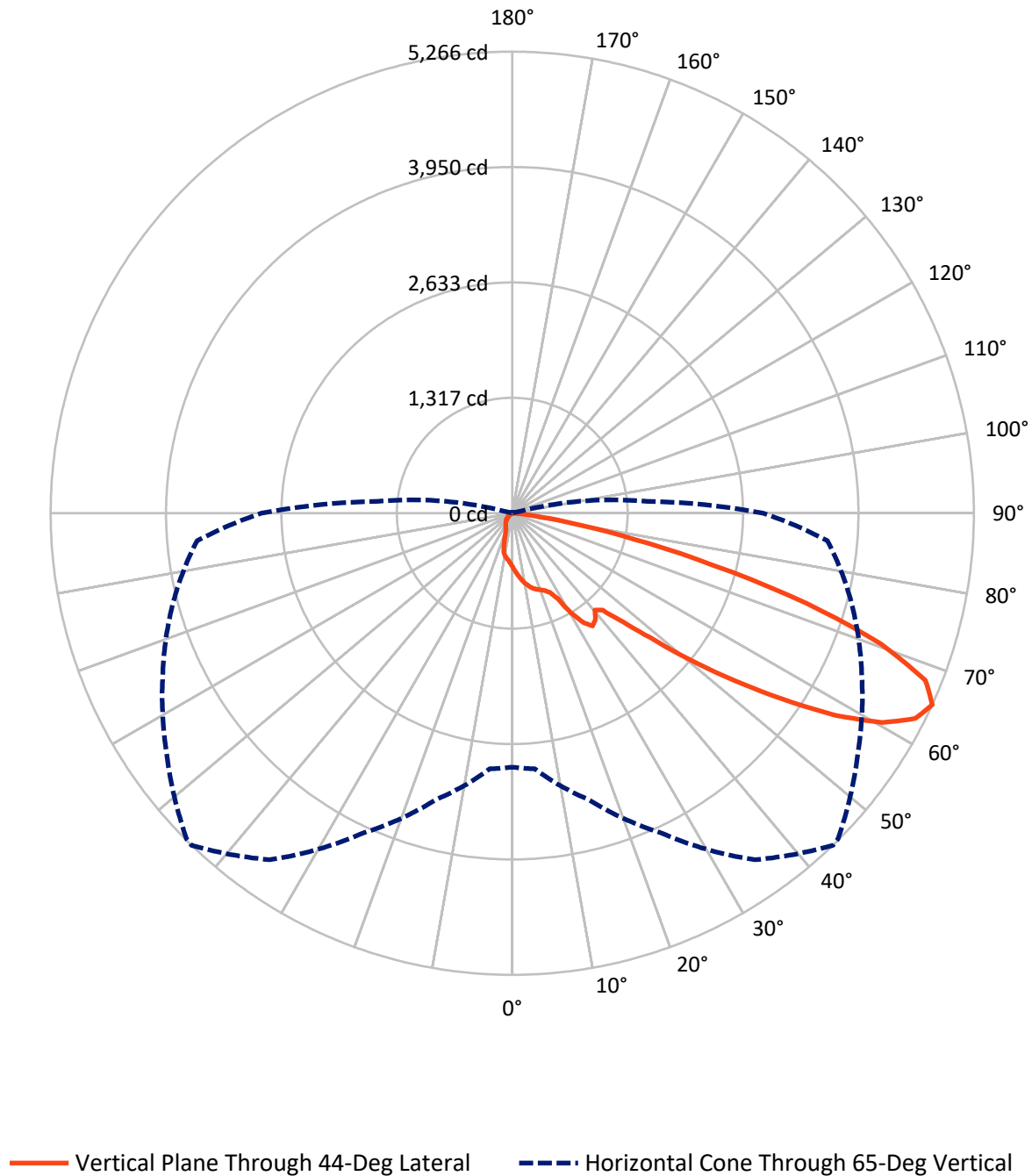
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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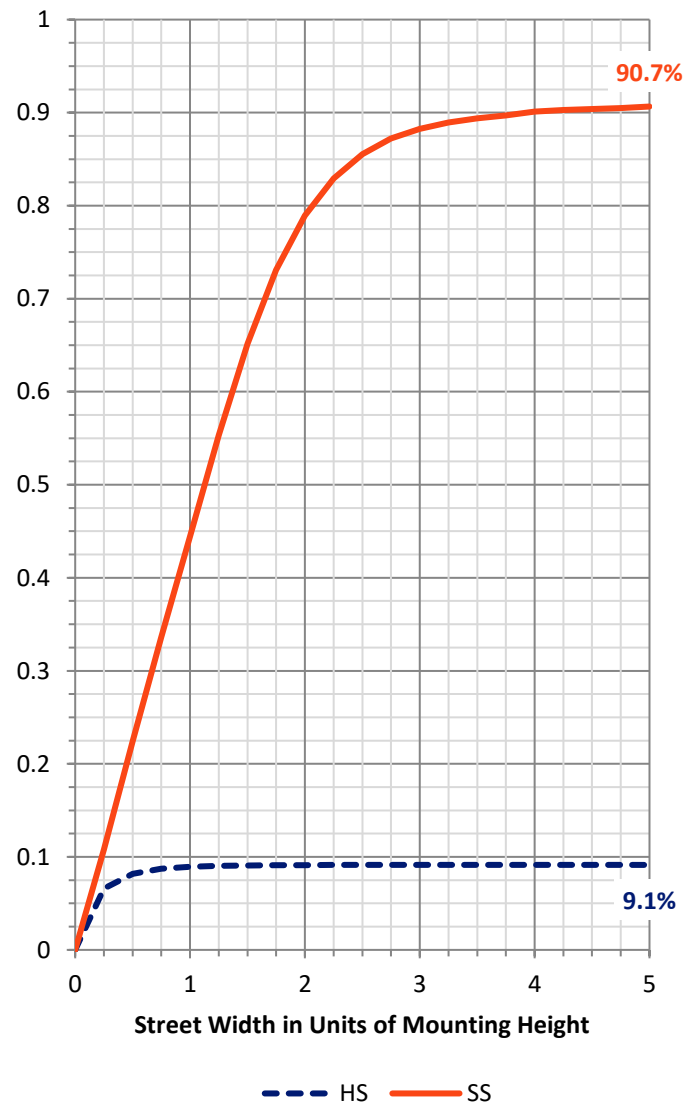
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	606.1	0.0	606.1
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	5971.9	0.0	5971.9
	% Fixture	90.8	0.0	90.8
Total	Lumens	6578.0	0.0	6578.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.9	0.9
10°-20°	183.3	2.8
20°-30°	310.7	4.7
30°-40°	516.7	7.9
40°-50°	902.1	13.7
50°-60°	1762.4	26.8
60°-70°	2044.8	31.1
70°-80°	744.6	11.3
80°-90°	52.5	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°	6578.0	100.0
0°-180°	6578.0	100.0

Coefficient of Utilization



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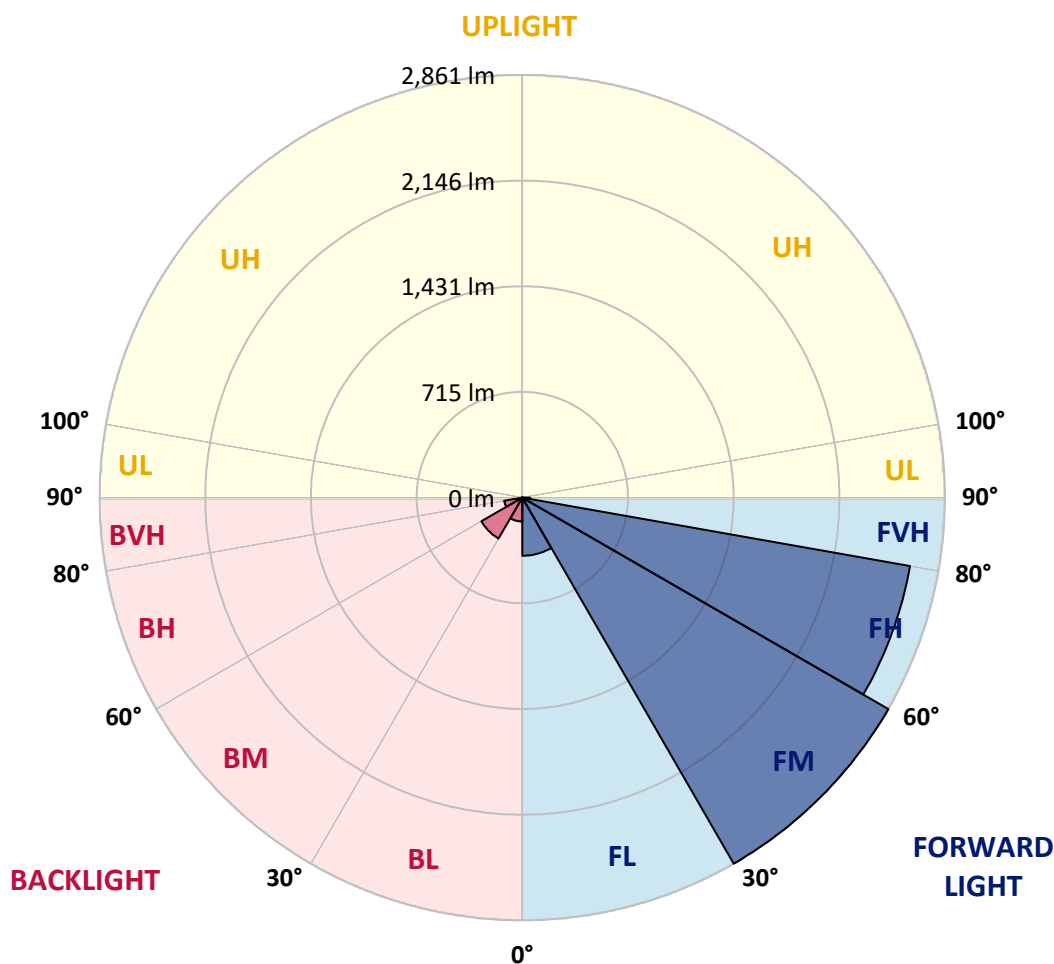
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	393.4	6.0			
FM	(30°-60°)	2861.4	43.5			
FH	(60°-80°)	2665.3	40.5			G2/5000
FVH	(80°-90°)	51.8	0.8			G1/100
BL	(0°-30°)	161.5	2.5	B1/500		
BM	(30°-60°)	319.8	4.9	B1/1000		
BH	(60°-80°)	124.1	1.9	B1/500		G1/500
BVH	(80°-90°)	0.7	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	612.2	612.2	612.2	612.2	612.2	612.2	612.2	612.2	612.2	612.2	612.2
2.5°	689.1	686.1	684.6	676.6	670.5	663.0	663.0	653.4	642.4	630.3	619.3
5°	766.0	761.0	754.5	747.4	733.4	713.2	713.2	693.1	670.0	649.4	626.8
7.5°	839.9	835.4	824.3	810.8	787.6	766.5	765.0	735.9	708.2	677.1	644.9
10°	904.8	901.2	891.7	865.5	841.4	813.8	813.3	780.6	748.4	710.2	670.5
12.5°	950.0	950.5	937.9	912.8	881.6	855.5	853.5	821.3	787.6	746.4	697.7
15°	982.2	982.2	969.1	940.9	912.8	889.7	887.7	859.5	824.8	780.1	727.3
17.5°	991.2	994.2	980.1	955.0	932.4	912.3	911.8	888.2	860.5	817.3	757.5
20°	987.7	990.7	979.6	960.0	944.5	932.9	931.4	921.8	896.2	855.5	789.6
22.5°	980.1	983.2	975.1	963.6	956.0	959.5	957.0	965.1	951.5	902.2	827.8
25°	981.7	984.7	978.6	972.1	978.6	1000.3	1006.8	1041.5	1029.4	961.6	869.1
27.5°	1028.9	1034.9	1026.4	1029.4	1052.5	1102.8	1115.4	1175.2	1121.9	1036.9	933.4
30°	1134.0	1129.9	1113.9	1128.4	1208.8	1315.4	1311.9	1302.3	1218.9	1123.9	1009.8
32.5°	1229.5	1225.9	1224.9	1287.8	1433.5	1485.3	1482.8	1390.3	1305.9	1223.4	1085.2
35°	1268.2	1254.6	1251.6	1403.9	1647.7	1579.3	1563.7	1426.5	1411.4	1332.0	1162.1
37.5°	1384.8	1375.2	1328.5	1423.0	1562.2	1539.6	1527.5	1488.8	1524.0	1428.0	1249.1
40°	1625.0	1598.4	1556.2	1463.7	1441.1	1450.6	1462.7	1568.7	1657.2	1559.2	1365.2
42.5°	1923.6	1917.6	1839.2	1666.8	1497.4	1510.4	1526.0	1735.6	1848.7	1756.7	1554.7
45°	2282.0	2290.5	2177.4	1973.9	1751.7	1762.8	1785.4	1981.9	2108.1	2063.8	1852.7
47.5°	2607.7	2601.2	2563.0	2351.4	2146.3	2121.6	2158.3	2298.1	2467.0	2474.0	2222.7
50°	2935.4	2970.1	2913.3	2830.4	2678.1	2626.3	2612.7	2681.1	2938.4	2904.8	2667.0
52.5°	3406.4	3424.5	3317.9	3296.8	3331.5	3163.6	3150.0	3166.6	3396.8	3281.2	2999.8
55°	3702.4	3691.9	3652.2	3817.0	3954.3	3744.7	3727.6	3660.7	3777.3	3547.1	3319.9
57.5°	3795.9	3811.0	3903.5	4201.6	4526.3	4348.3	4317.2	4127.2	4051.8	3794.9	3614.5
60°	3754.2	3781.9	3981.4	4424.7	4875.1	4848.5	4821.8	4502.6	4248.8	4002.0	3821.1
62.5°	3457.2	3495.9	3815.0	4385.0	4993.2	5159.6	5126.4	4736.9	4380.0	4102.5	3857.3
65°	2897.2	2925.9	3384.3	4024.6	4825.3	5266.2	5254.1	4810.3	4400.6	4010.6	3609.5
67.5°	2065.3	2162.9	2587.6	3391.8	4328.7	5084.2	5104.8	4722.3	4207.1	3613.0	2989.2
70°	1298.3	1364.7	1669.3	2428.3	3470.2	4460.4	4528.3	4319.7	3651.2	2816.3	2001.0
72.5°	619.3	668.5	885.7	1537.1	2449.4	3509.4	3563.2	3546.1	2823.3	1774.3	1032.4
75°	275.9	294.5	422.7	784.6	1581.3	2358.9	2498.1	2521.2	1764.3	868.1	401.6
77.5°	140.7	141.2	198.0	380.0	789.6	1407.4	1435.0	1516.0	956.5	382.5	139.7
80°	74.9	79.9	105.1	179.4	409.7	693.1	689.6	758.0	424.2	187.5	46.7
82.5°	33.7	37.2	59.3	94.0	200.1	262.9	283.5	310.1	182.0	119.6	20.6
85°	10.1	12.1	29.2	47.2	72.4	75.9	84.9	109.6	103.0	84.9	10.6
87.5°	1.5	1.5	12.1	13.1	10.6	13.6	14.1	15.6	33.2	31.2	5.5
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°	612.2	612.2	612.2	612.2	612.2	612.2	612.2	612.2	612.2	612.2	612.2
2.5°	613.2	609.7	597.1	586.6	577.5	572.0	565.5	561.4	559.4	557.9	558.4
5°	615.7	607.2	585.6	568.5	555.4	541.3	531.8	526.3	523.8	519.7	519.7
7.5°	629.8	616.2	586.1	559.9	537.3	518.2	500.1	493.6	489.1	488.1	487.1
10°	649.9	632.8	591.6	555.4	523.2	497.1	471.5	448.9	431.3	420.7	419.2
12.5°	675.0	650.4	600.2	552.4	511.2	464.9	397.1	351.3	320.7	311.1	312.6
15°	698.2	671.5	608.7	549.9	489.1	385.5	308.6	256.3	240.8	239.3	239.8
17.5°	725.8	694.1	618.7	546.4	428.2	294.5	229.2	215.1	218.1	223.2	222.7
20°	754.5	718.3	630.8	525.3	341.8	221.7	202.6	204.1	208.6	213.1	214.1
22.5°	785.1	745.9	644.9	474.5	260.9	193.0	192.0	194.0	198.5	203.6	204.6
25°	827.3	780.6	655.4	408.1	197.5	178.4	180.4	184.0	188.0	193.5	194.5
27.5°	881.6	827.3	661.0	321.7	170.9	165.4	165.9	170.9	175.9	181.0	181.0
30°	952.0	883.1	649.9	243.3	157.8	152.8	150.8	153.8	160.3	165.4	165.9
32.5°	1014.8	935.9	620.8	186.0	148.3	141.2	136.2	136.7	139.2	142.2	142.7
35°	1077.7	987.2	571.0	156.3	138.2	130.2	122.6	118.6	116.6	115.1	116.6
37.5°	1158.1	1051.0	504.7	142.2	129.7	119.6	109.1	100.5	93.5	89.0	90.0
40°	1261.6	1139.5	426.2	133.2	121.6	109.6	95.5	84.4	72.4	68.4	66.3
42.5°	1432.5	1273.7	343.8	125.7	113.6	99.0	81.4	66.3	55.3	51.3	52.3
45°	1702.4	1443.1	264.9	117.6	105.6	87.5	68.4	52.3	43.2	41.2	42.2
47.5°	2060.3	1662.2	204.1	108.6	95.5	74.9	53.8	41.2	35.7	35.2	34.7
50°	2397.1	1866.3	170.4	98.5	83.4	62.3	44.2	34.7	31.2	30.7	30.7
52.5°	2701.7	2012.6	138.7	87.0	70.4	51.3	37.2	30.7	27.6	26.1	26.1
55°	2972.6	2108.1	112.6	72.9	55.3	40.7	32.2	27.6	24.1	22.1	21.6
57.5°	3177.2	2119.6	84.4	58.3	41.2	31.7	27.6	24.1	20.1	17.6	16.6
60°	3264.6	2019.6	62.3	44.2	30.7	25.1	22.1	19.6	15.1	12.6	12.1
62.5°	3176.7	1825.1	46.2	33.7	23.6	18.6	15.6	14.6	10.6	7.5	7.0
65°	2861.5	1544.1	36.7	25.6	17.6	13.6	10.1	9.6	6.5	3.5	3.0
67.5°	2292.5	1209.4	29.2	19.1	12.6	9.0	6.5	6.0	3.5	1.0	1.0
70°	1490.8	773.1	23.6	14.1	8.0	6.0	4.0	3.0	2.0	0.5	0.0
72.5°	737.4	361.4	19.1	11.1	5.5	3.0	1.5	1.0	1.5	0.0	0.0
75°	286.0	128.7	14.1	7.5	3.0	1.5	1.0	0.0	0.5	0.0	0.0
77.5°	95.0	42.7	8.5	4.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
80°	35.2	16.6	4.5	2.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0
82.5°	14.1	6.5	3.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.0	4.0	2.0	1.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.0	3.0	2.0	1.5	1.0	0.5	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)