

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: P450388

Luminaire Tested: **GALN-SA1A-830-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450388
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
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-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3763 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 33
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

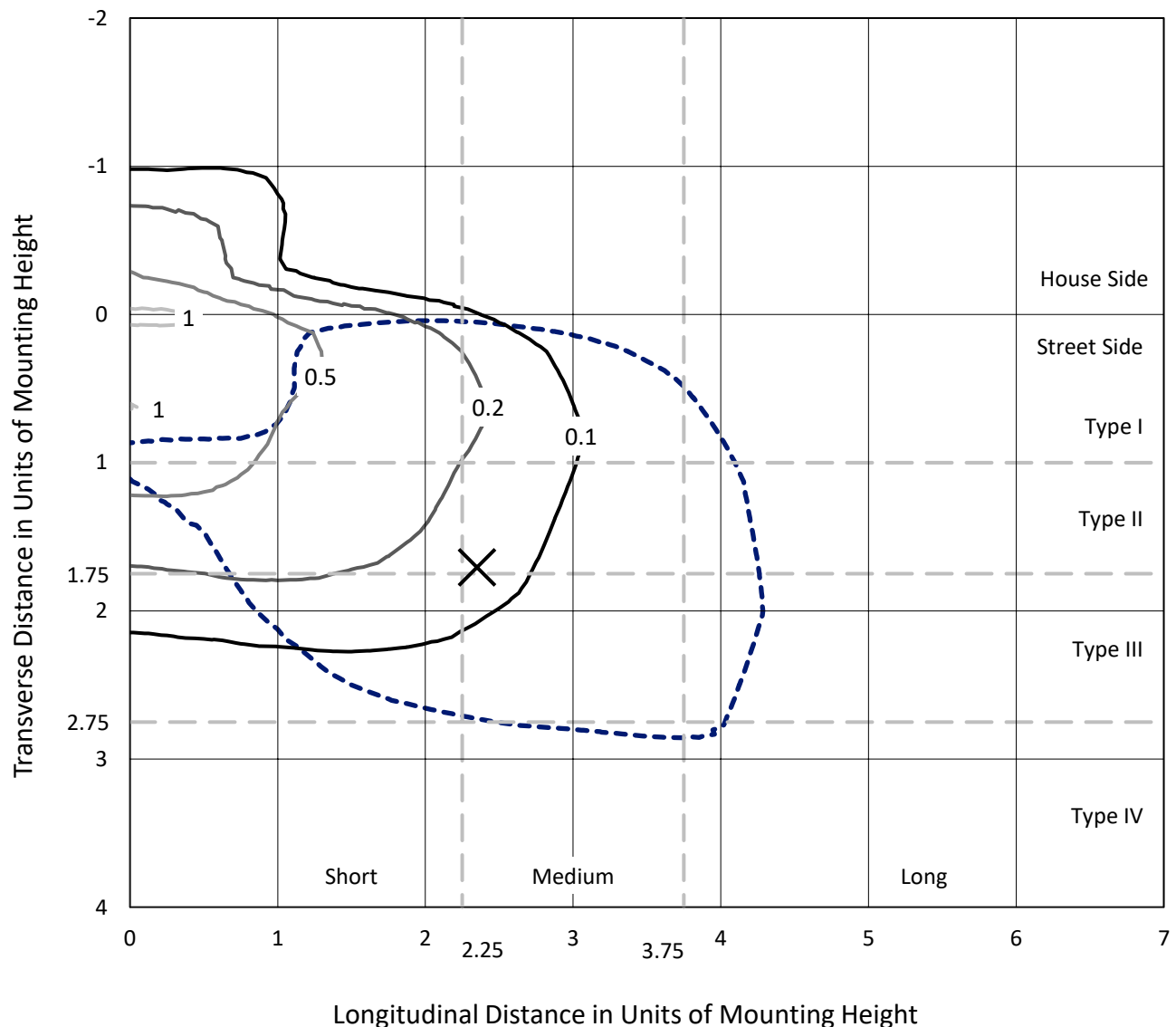


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

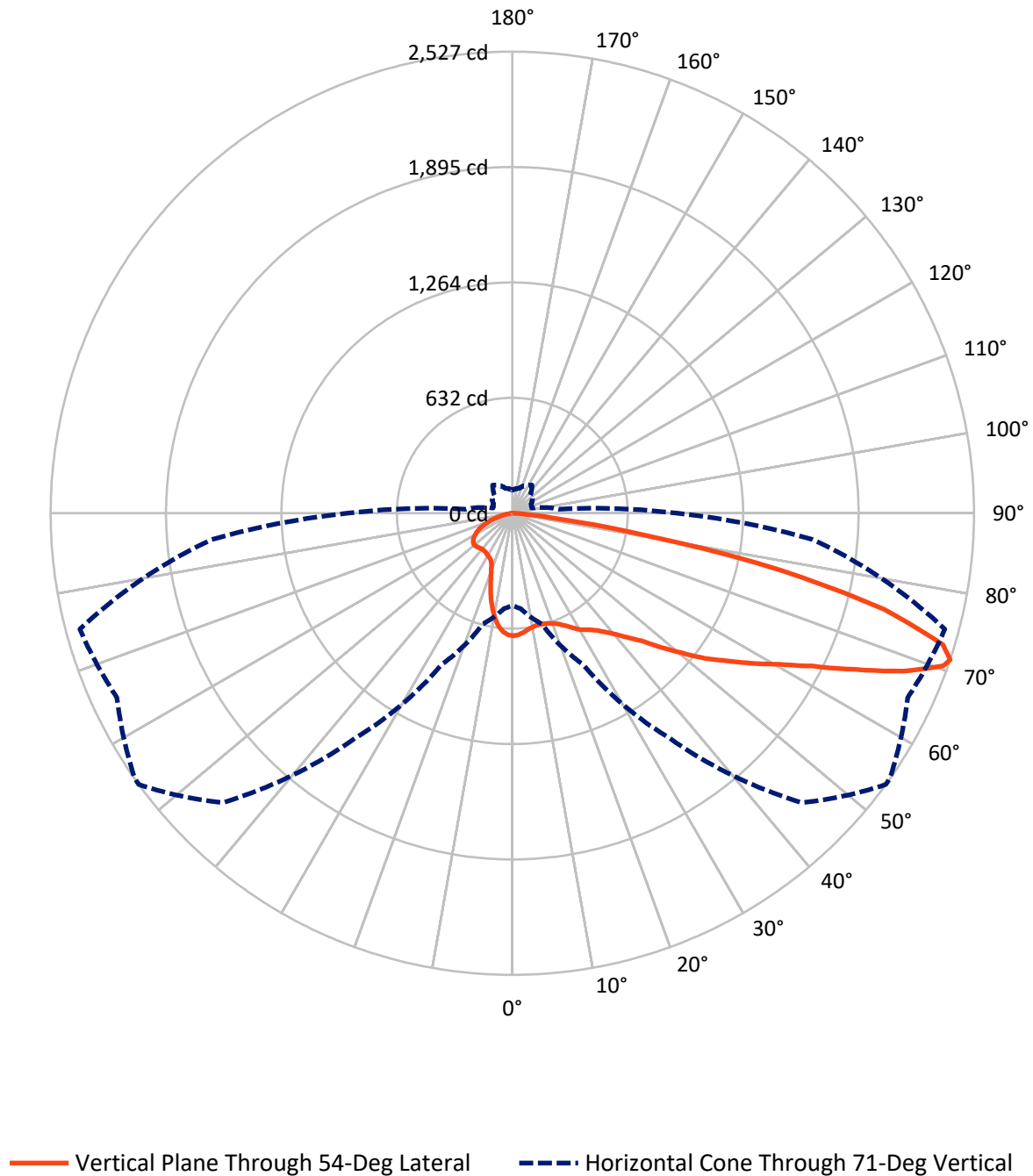


Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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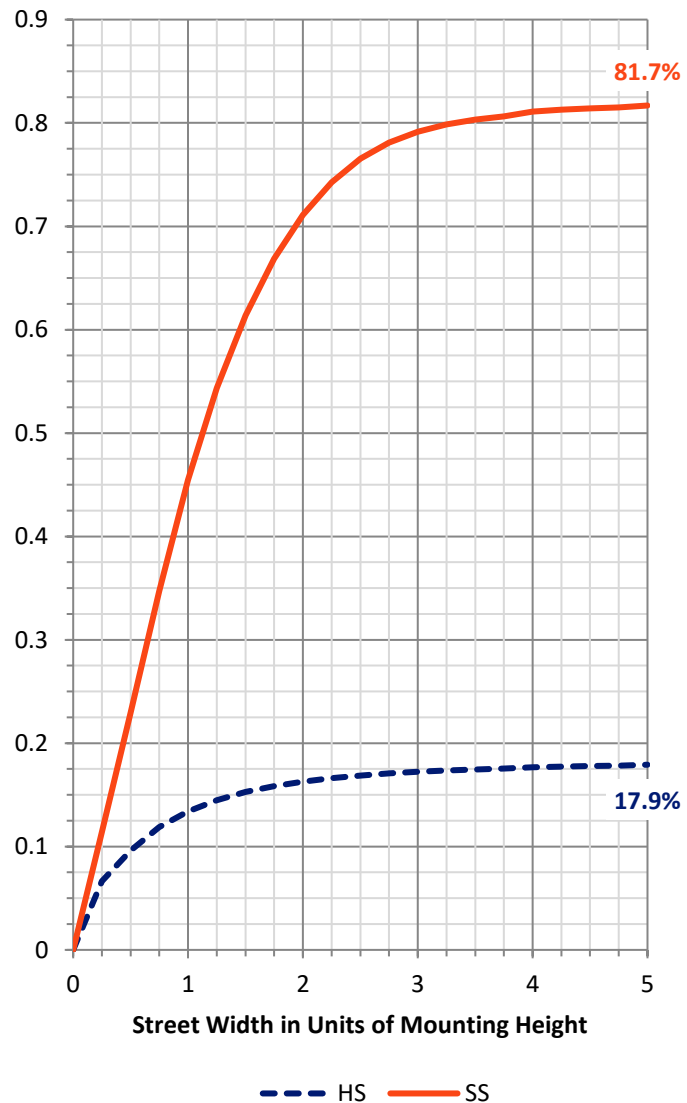
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	679.4	0.0	679.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	3083.6	0.0	3083.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	3763.0	0.0	3763.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.8	1.6
10°-20°	158.0	4.2
20°-30°	263.0	7.0
30°-40°	389.0	10.3
40°-50°	547.9	14.6
50°-60°	733.6	19.5
60°-70°	924.7	24.6
70°-80°	631.5	16.8
80°-90°	55.5	1.5
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°	3763.0	100.0
0°-180°	3763.0	100.0

Coefficient of Utilization



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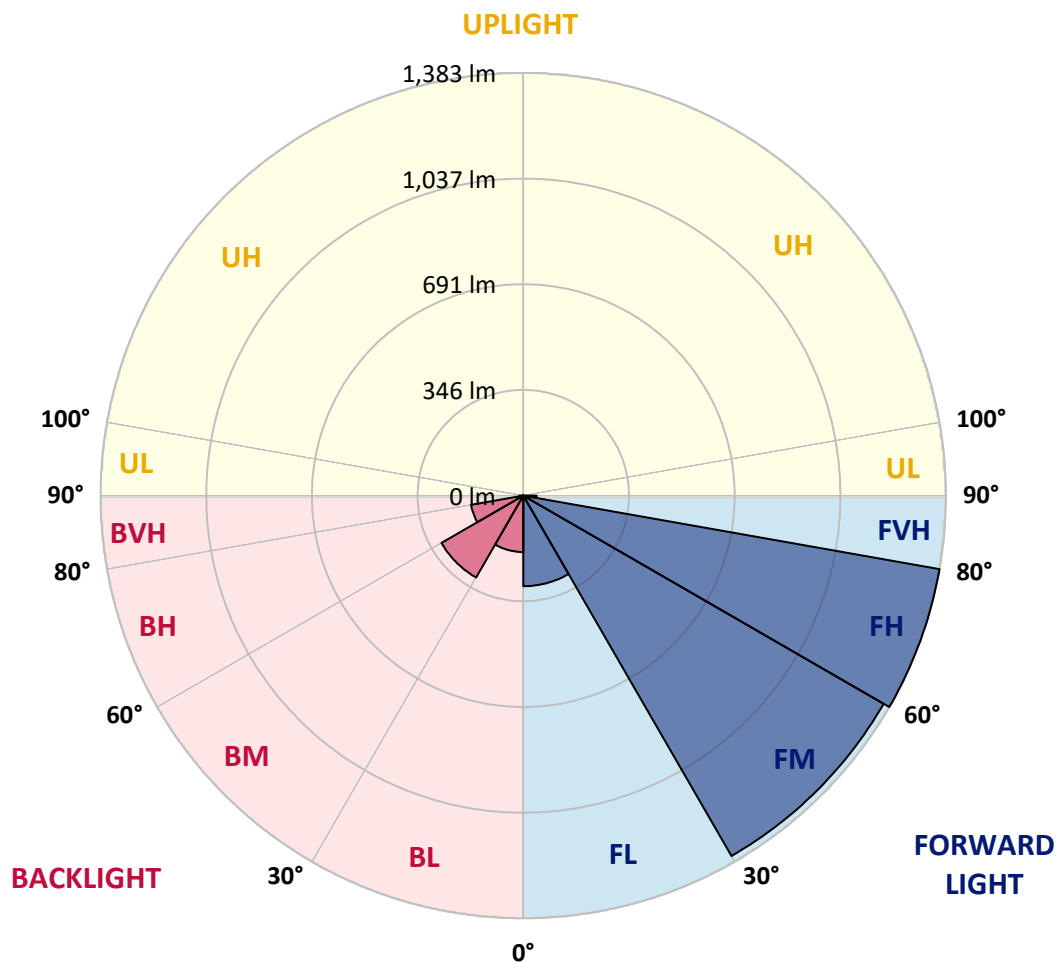
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	296.2	7.9			
FM	(30°-60°)	1361.3	36.2			
FH	(60°-80°)	1382.7	36.7			G1/1800
FVH	(80°-90°)	43.4	1.2			G1/100
BL	(0°-30°)	184.6	4.9	B1/500		
BM	(30°-60°)	309.1	8.2	B1/1000		
BH	(60°-80°)	173.5	4.6	B1/500		G1/500
BVH	(80°-90°)	12.1	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	671.4	671.4	671.4	671.4	671.4	671.4	671.4	671.4	671.4	671.4	671.4
2.5°	648.6	651.7	652.5	654.5	658.8	662.2	665.7	665.3	670.2	672.2	674.0
5°	619.7	620.6	623.6	627.7	635.2	644.7	654.1	654.3	666.3	675.8	680.5
7.5°	598.6	601.2	603.3	607.6	615.5	625.8	640.7	641.9	663.2	682.1	692.1
10°	584.8	587.8	590.1	595.4	603.3	614.9	630.9	633.2	661.0	692.1	709.6
12.5°	572.2	575.2	577.3	584.2	594.5	608.8	626.9	629.5	661.8	703.7	728.7
15°	579.9	582.3	581.5	583.6	590.5	606.7	628.5	631.1	664.9	714.9	747.6
17.5°	614.3	616.3	609.6	601.9	598.6	610.6	633.6	636.4	671.0	726.5	766.9
20°	664.9	670.4	655.7	638.4	622.8	624.4	644.1	647.2	679.5	738.0	786.6
22.5°	730.7	734.8	716.9	688.4	659.6	644.7	660.0	661.8	692.3	753.1	808.2
25°	808.2	810.6	785.8	749.2	707.6	679.5	681.7	685.0	713.5	770.2	827.3
27.5°	883.4	891.1	862.4	817.7	762.8	716.1	711.6	713.7	736.4	779.7	840.5
30°	972.6	972.0	941.7	889.9	819.6	755.9	739.9	739.5	748.8	784.4	850.0
32.5°	1043.8	1052.1	1022.4	965.9	884.4	797.2	759.4	758.6	758.4	792.5	864.3
35°	1124.6	1125.9	1098.6	1041.7	954.5	849.0	786.6	782.6	777.9	810.0	883.6
37.5°	1197.0	1202.7	1177.7	1113.9	1023.4	902.9	824.0	821.4	807.2	840.3	914.5
40°	1253.5	1257.8	1242.7	1182.0	1091.3	961.0	871.6	866.7	849.4	889.9	955.7
42.5°	1272.0	1280.8	1286.6	1256.8	1169.4	1029.9	930.1	924.0	910.8	965.1	1003.3
45°	1273.4	1287.3	1318.4	1319.8	1247.8	1112.5	998.4	994.2	993.1	1061.4	1070.2
47.5°	1262.7	1276.7	1328.9	1357.2	1317.7	1195.8	1097.0	1090.3	1090.9	1180.5	1145.2
50°	1236.6	1253.3	1316.7	1381.2	1372.4	1282.4	1201.1	1198.8	1211.4	1316.5	1223.0
52.5°	1187.7	1207.8	1304.1	1396.2	1413.1	1357.0	1319.4	1313.1	1345.0	1464.1	1308.2
55°	1052.1	1082.4	1258.0	1404.5	1451.7	1428.3	1425.9	1437.3	1479.5	1625.1	1401.9
57.5°	981.3	1004.1	1157.8	1406.0	1500.5	1511.3	1550.3	1553.1	1627.1	1796.0	1507.8
60°	942.7	962.9	1102.9	1396.6	1568.6	1613.9	1677.5	1687.7	1771.2	1981.2	1617.6
62.5°	909.0	926.3	1070.0	1364.3	1645.4	1766.1	1842.4	1847.2	1934.9	2185.7	1725.9
65°	829.5	849.2	1003.7	1332.0	1711.7	1956.4	2061.1	2055.4	2109.0	2362.1	1793.8
67.5°	722.4	747.4	879.9	1220.4	1744.4	2164.3	2307.4	2300.3	2281.0	2477.8	1813.3
70°	585.6	599.0	721.6	1027.5	1613.7	2273.5	2502.0	2494.4	2387.5	2493.0	1721.0
71°	503.9	524.8	628.3	912.6	1505.0	2240.2	2527.0	2524.9	2387.7	2450.9	1651.5
72.5°	393.3	406.1	497.6	707.1	1279.1	2050.7	2465.2	2472.9	2335.9	2334.1	1508.2
75°	248.8	254.5	312.2	416.3	701.9	1452.3	2104.4	2125.3	2074.1	1910.5	1121.6
77.5°	144.5	151.8	187.0	245.3	303.3	788.3	1505.8	1528.5	1441.1	1051.9	459.2
80°	84.2	92.3	123.2	142.5	139.2	292.5	766.7	805.5	624.0	265.7	128.9
82.5°	46.8	52.2	86.6	86.8	74.2	95.5	241.3	252.5	178.1	107.1	52.6
85°	33.9	38.4	55.9	50.6	35.6	41.1	83.9	88.0	72.0	45.1	17.1
87.5°	12.0	17.1	30.7	24.4	9.8	8.5	24.2	19.7	18.3	12.6	3.9
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°	671.4	671.4	671.4	671.4	671.4	671.4	671.4	671.4	671.4	671.4	671.4
2.5°	675.0	675.4	673.4	669.7	666.1	661.4	656.1	652.1	650.2	650.0	649.8
5°	682.4	683.4	675.6	664.3	651.7	636.2	623.0	608.0	604.1	598.0	599.8
7.5°	694.1	693.5	678.3	654.1	624.6	591.9	564.3	548.2	531.5	526.9	527.1
10°	711.0	707.1	678.3	633.4	584.2	535.6	497.0	472.6	459.4	448.4	444.3
12.5°	728.9	719.1	671.8	604.3	532.1	472.6	431.1	398.2	389.7	380.7	380.9
15°	746.0	729.7	659.0	563.4	476.0	405.3	365.1	345.3	342.7	343.7	343.5
17.5°	761.4	737.2	639.5	517.9	410.6	347.6	326.2	327.7	334.8	339.9	340.5
20°	777.1	741.7	610.4	456.9	348.8	312.6	313.4	324.6	335.4	342.3	343.3
22.5°	791.9	743.7	576.2	398.0	304.1	297.8	309.8	321.8	332.3	339.0	340.1
25°	801.7	739.1	527.9	336.4	282.1	292.5	305.1	315.3	324.2	331.1	332.7
27.5°	804.3	724.0	467.9	286.6	272.0	287.4	299.0	306.5	313.4	319.9	321.2
30°	802.9	701.9	402.1	257.3	266.1	281.5	290.5	295.9	304.3	309.4	310.4
32.5°	800.6	676.0	333.3	241.7	261.2	276.0	281.3	286.2	286.0	284.0	285.4
35°	801.5	645.2	277.7	232.3	256.9	272.0	276.4	270.3	252.9	252.0	251.2
37.5°	805.7	614.7	237.2	225.8	254.7	271.4	273.8	245.7	230.3	223.2	221.4
40°	816.7	579.1	210.6	220.9	254.5	276.0	261.8	233.3	203.7	189.8	188.8
42.5°	831.3	544.1	194.3	217.9	256.9	283.1	256.9	215.9	183.5	175.4	174.2
45°	853.1	504.1	185.4	216.5	260.6	285.8	255.3	203.1	175.4	168.9	168.9
47.5°	877.7	465.9	180.5	215.5	265.3	284.0	240.9	199.0	171.6	172.4	176.2
50°	902.1	432.7	176.8	213.2	269.3	282.9	235.0	198.8	172.6	182.9	189.8
52.5°	930.3	409.4	172.4	209.6	269.3	276.4	233.1	202.9	175.4	178.5	181.5
55°	964.5	402.1	166.7	201.6	264.4	260.2	232.1	208.8	177.4	170.3	171.6
57.5°	1009.6	413.8	161.2	191.7	253.3	243.3	231.7	210.4	172.8	166.9	165.7
60°	1062.0	437.2	159.6	181.5	238.0	228.9	229.3	205.7	166.3	160.2	161.2
62.5°	1098.8	451.2	158.5	173.8	221.4	213.0	223.4	200.0	163.4	158.1	159.2
65°	1098.8	434.2	149.2	162.0	199.8	193.9	216.3	192.9	159.8	153.7	152.6
67.5°	1057.2	384.4	135.0	144.3	176.0	172.2	206.3	184.4	154.3	149.6	147.2
70°	948.6	291.5	117.1	123.6	145.9	149.4	193.5	172.8	145.1	139.4	135.8
71°	900.9	253.9	109.6	113.0	134.4	139.4	187.4	167.9	141.1	132.9	126.4
72.5°	808.8	213.8	98.2	99.6	114.8	124.0	174.6	158.5	133.3	121.8	114.4
75°	614.5	156.1	79.1	78.3	85.0	98.4	147.8	141.3	116.9	101.2	97.0
77.5°	265.5	85.0	59.1	59.8	57.7	74.6	116.3	121.3	100.2	82.3	78.5
80°	80.5	49.0	40.4	41.3	38.6	50.0	81.9	95.1	80.5	64.0	58.7
82.5°	41.3	29.3	27.6	27.2	24.6	28.3	49.6	65.0	57.5	40.0	35.4
85°	17.9	15.7	13.6	13.2	11.6	10.2	17.7	32.5	30.5	22.4	21.3
87.5°	4.5	4.1	2.6	2.4	1.4	0.2	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)