

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: P450606

Luminaire Tested: **GALN-SA1B-830-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450606
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-830-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3763 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 44
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

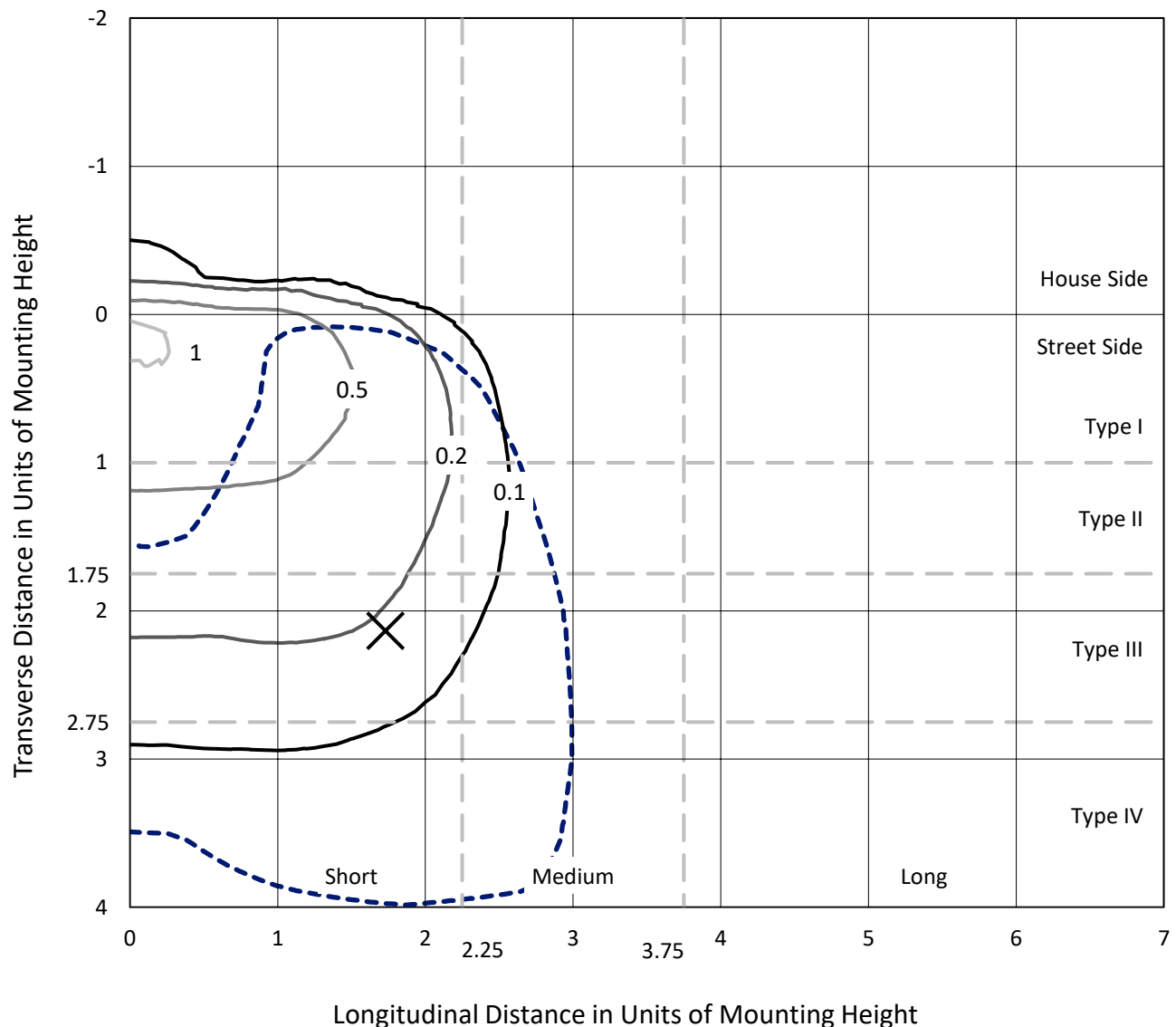


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Iso-Footcandle Lines of Horizontal Illumination

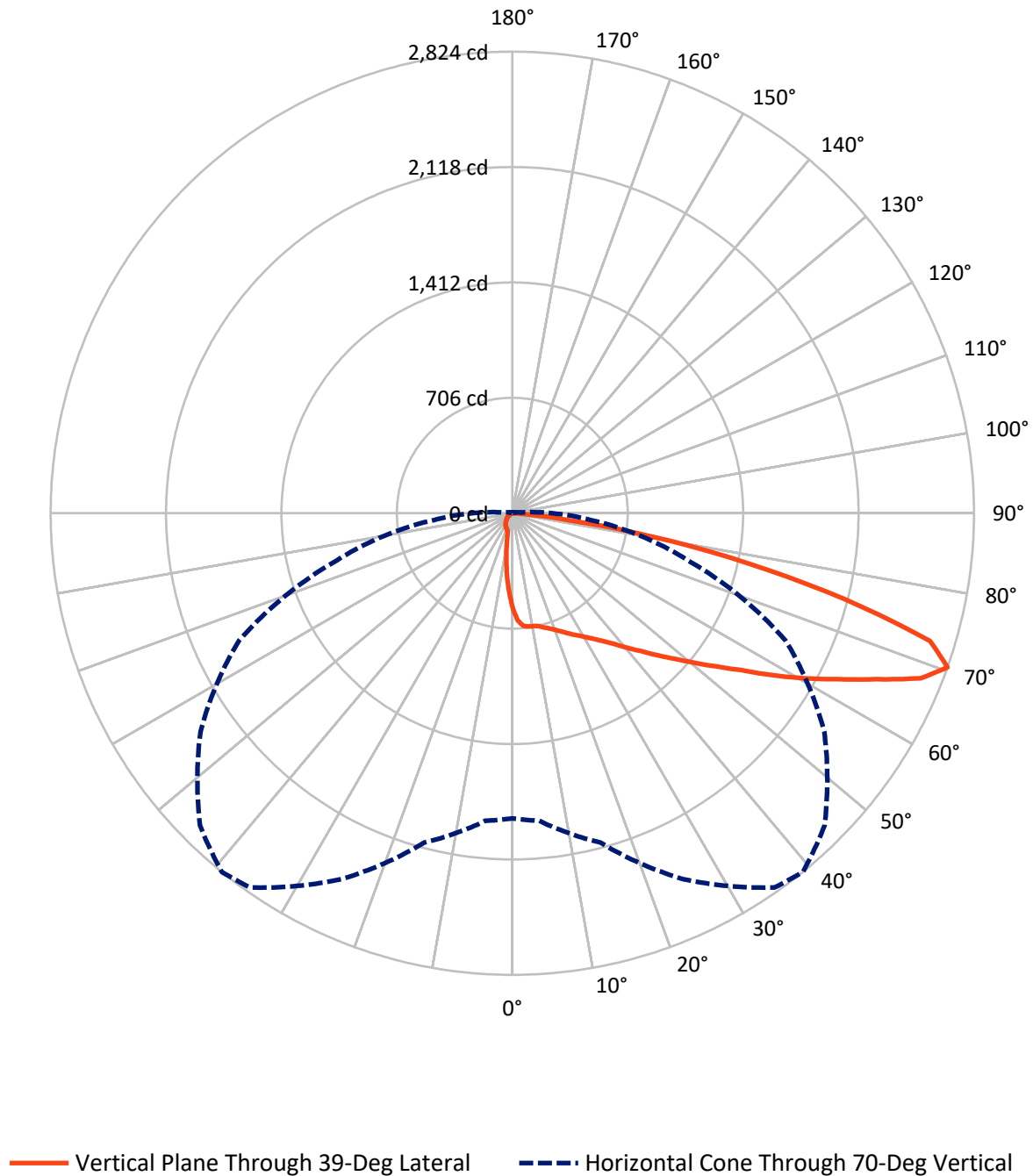
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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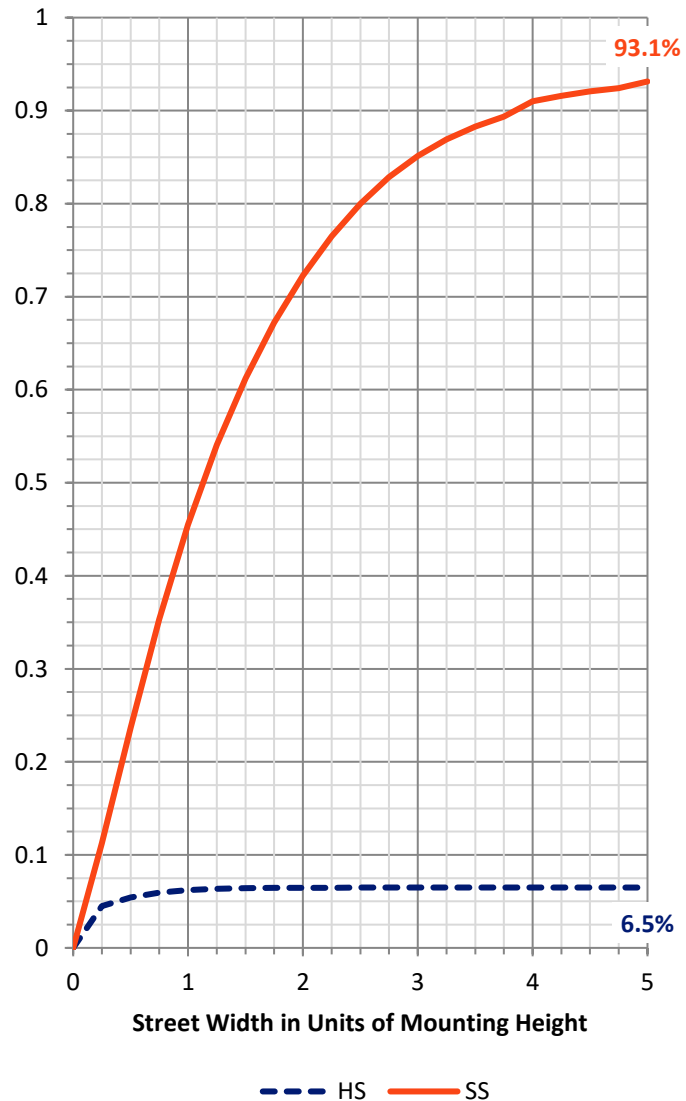
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	245.4	0.0	245.4
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	3517.6	0.0	3517.6
	% Fixture	93.5	0.0	93.5
Total	Lumens	3763.0	0.0	3763.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.1	1.3
10°-20°	130.1	3.5
20°-30°	218.0	5.8
30°-40°	338.1	9.0
40°-50°	535.8	14.2
50°-60°	785.5	20.9
60°-70°	1006.8	26.8
70°-80°	632.6	16.8
80°-90°	65.9	1.8
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°	3763.0	100.0
0°-180°	3763.0	100.0

Coefficient of Utilization



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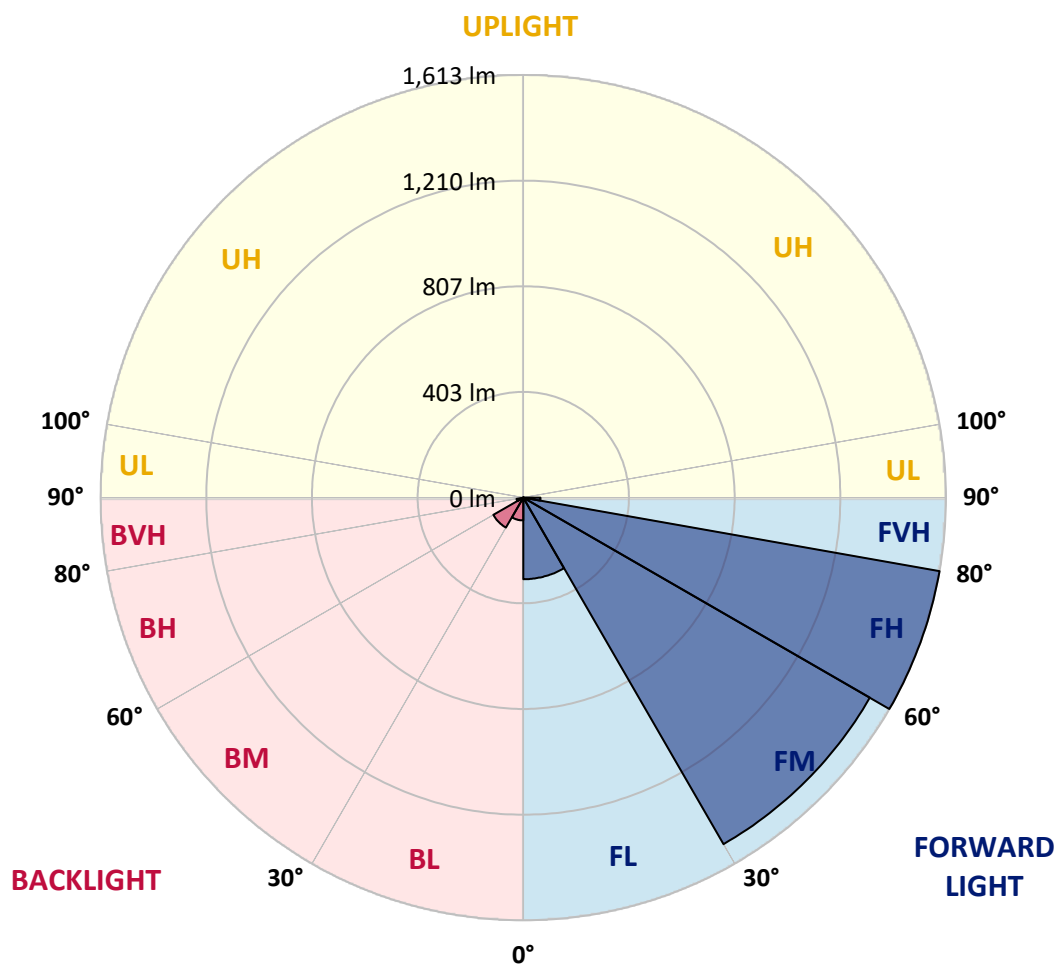
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	311.4	8.3			
FM	(30°-60°)	1527.4	40.6			
FH	(60°-80°)	1613.5	42.9			G1/1800
FVH	(80°-90°)	65.4	1.7			G1/100
BL	(0°-30°)	86.9	2.3	B0/110		
BM	(30°-60°)	132.0	3.5	B0/220		
BH	(60°-80°)	26.0	0.7	B0/110		G0/110
BVH	(80°-90°)	0.5	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	587.2	587.2	587.2	587.2	587.2	587.2	587.2	587.2	587.2	587.2	587.2
2.5°	678.4	676.2	673.1	669.6	659.5	657.7	651.6	638.7	623.3	610.7	593.2
5°	710.6	711.8	709.5	703.2	695.9	691.6	684.0	664.0	644.1	618.5	589.9
7.5°	717.9	720.4	717.6	711.6	704.5	699.9	693.9	676.7	653.4	624.3	585.1
10°	717.1	720.2	718.4	712.8	707.0	702.7	696.1	682.5	663.8	633.2	586.7
12.5°	715.9	719.9	719.7	716.9	712.1	708.8	704.7	692.6	675.2	646.1	595.0
15°	712.3	717.4	721.9	724.2	724.5	724.5	719.4	706.5	689.8	663.0	605.9
17.5°	713.8	719.7	731.0	737.6	742.2	741.7	736.3	722.4	704.0	680.5	617.2
20°	723.2	731.0	747.0	760.1	764.7	763.2	756.1	739.9	718.9	695.4	628.4
22.5°	746.2	753.3	773.3	788.7	792.0	787.9	777.8	755.8	736.9	711.6	641.8
25°	780.6	788.9	807.4	819.0	819.0	816.8	802.6	776.8	757.1	734.1	659.2
27.5°	822.3	829.4	847.6	858.0	851.9	845.3	831.2	800.1	781.1	762.4	680.2
30°	864.6	869.1	888.3	892.9	886.6	878.2	863.0	831.9	815.2	800.8	710.6
32.5°	904.5	914.4	930.3	929.3	920.7	916.6	902.7	869.6	860.3	858.7	753.0
35°	944.5	952.0	966.2	969.7	962.2	961.4	951.3	926.8	927.0	936.9	819.3
37.5°	978.8	985.7	1002.4	1010.2	1011.7	1015.5	1011.5	995.3	1018.3	1045.4	907.0
40°	1007.7	1017.3	1038.5	1052.2	1067.9	1081.8	1082.5	1086.1	1132.3	1178.9	1021.6
42.5°	1030.2	1043.6	1074.4	1099.7	1135.6	1153.3	1167.5	1187.0	1264.8	1334.4	1156.6
45°	1059.5	1074.9	1113.4	1153.1	1209.2	1238.3	1258.0	1310.1	1420.6	1515.4	1295.2
47.5°	1108.1	1116.2	1155.3	1213.3	1287.1	1328.6	1367.0	1445.9	1587.8	1672.7	1410.5
50°	1170.5	1175.8	1205.4	1285.8	1381.4	1436.0	1506.1	1598.9	1761.2	1803.2	1475.7
52.5°	1239.6	1241.3	1263.6	1365.7	1487.1	1555.9	1634.3	1748.8	1902.6	1896.2	1519.0
55°	1319.7	1317.2	1336.1	1452.5	1612.3	1690.9	1782.2	1902.3	2025.2	1962.2	1543.8
57.5°	1411.5	1404.7	1423.1	1567.5	1772.6	1866.7	1959.5	2034.8	2120.3	2017.6	1555.6
60°	1507.6	1493.9	1515.9	1696.7	1961.5	2050.8	2127.9	2148.1	2220.4	2061.6	1535.2
62.5°	1584.2	1584.5	1625.4	1834.3	2155.7	2233.8	2274.8	2293.0	2306.7	2052.0	1427.4
65°	1703.8	1707.9	1773.4	2025.2	2380.5	2448.3	2476.3	2417.2	2310.4	1932.7	1265.6
67.5°	1827.2	1840.1	1960.0	2288.2	2640.2	2694.8	2658.6	2441.2	2207.3	1660.3	959.6
70°	1867.4	1888.7	2086.2	2469.2	2795.9	2824.3	2701.9	2329.2	1845.2	1110.1	483.0
72.5°	1711.2	1745.5	2013.6	2403.2	2696.6	2672.0	2417.4	1953.4	1173.0	421.5	147.4
75°	1206.7	1221.9	1673.5	1993.6	2168.8	2099.3	1838.8	1259.3	482.5	118.3	50.6
77.5°	623.1	615.7	995.3	1322.7	1546.8	1474.7	1204.2	651.9	182.8	49.3	31.4
80°	322.2	327.5	430.6	693.1	944.2	868.9	642.0	302.2	97.4	27.3	24.0
82.5°	180.5	169.4	247.6	302.7	441.5	346.2	246.3	213.9	42.5	16.4	22.8
85°	32.9	34.4	135.8	163.6	153.2	97.4	79.4	142.9	12.4	9.1	15.9
87.5°	0.5	0.5	26.3	47.0	29.8	13.7	25.0	20.5	2.5	3.5	2.8
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°	587.2	587.2	587.2	587.2	587.2	587.2	587.2	587.2	587.2	587.2	587.2
2.5°	584.4	574.8	556.8	539.1	516.6	498.1	485.8	472.9	459.7	460.7	463.8
5°	574.3	557.6	522.2	484.7	448.8	416.5	384.6	356.0	344.4	333.8	334.3
7.5°	564.1	540.6	488.8	430.1	375.8	320.6	280.7	247.8	230.4	217.2	213.4
10°	559.6	528.5	458.2	377.5	300.4	240.2	188.9	162.1	141.4	134.8	136.5
12.5°	561.6	522.4	430.6	330.0	238.2	167.4	131.5	117.8	113.3	112.5	112.0
15°	565.4	518.1	403.6	277.4	175.0	124.4	110.5	108.0	107.5	107.0	107.2
17.5°	570.5	514.3	374.7	228.1	134.3	108.7	104.7	103.4	103.2	103.2	103.2
20°	575.5	510.0	342.6	184.1	112.0	102.7	100.1	99.4	99.1	99.1	98.9
22.5°	581.3	506.2	310.0	144.6	103.2	98.4	96.1	95.6	95.3	95.1	95.1
25°	589.7	501.4	275.4	118.3	97.6	94.3	92.0	91.5	91.3	90.3	90.5
27.5°	600.8	497.9	239.7	102.2	92.5	89.3	87.7	87.0	86.5	85.7	86.0
30°	616.0	494.9	201.8	93.3	86.7	84.0	82.4	81.9	81.4	80.7	80.7
32.5°	642.3	496.1	161.8	86.2	81.4	78.1	76.6	76.1	75.6	74.8	74.8
35°	681.7	503.5	129.5	80.2	75.1	71.8	70.3	70.3	69.5	68.5	68.3
37.5°	746.2	522.2	103.9	74.3	69.0	66.0	64.2	63.7	63.0	61.4	61.2
40°	822.3	551.2	87.5	68.5	63.5	60.4	58.9	57.4	55.4	53.9	53.6
42.5°	917.9	581.1	75.9	62.7	58.2	55.4	53.6	51.1	48.0	46.0	45.8
45°	1017.5	608.4	68.0	57.4	53.1	50.8	48.8	44.8	41.0	38.4	38.2
47.5°	1091.9	613.5	61.7	52.3	48.8	46.5	43.7	38.7	33.6	31.4	30.6
50°	1127.0	588.9	55.1	47.3	44.5	42.0	38.4	32.6	27.1	24.3	23.8
52.5°	1139.4	546.4	49.8	42.7	40.2	37.2	32.9	26.3	21.2	18.5	18.2
55°	1134.4	492.8	45.0	38.4	35.1	31.6	27.3	21.0	15.7	13.4	12.9
57.5°	1107.8	424.6	40.2	34.1	30.1	26.6	21.7	15.7	10.6	8.6	8.3
60°	1036.2	331.5	35.4	29.3	25.5	21.7	17.2	11.1	6.6	4.8	4.8
62.5°	915.4	246.0	30.8	24.5	21.5	17.4	12.1	7.1	3.5	2.5	2.3
65°	764.9	181.6	25.8	20.7	18.0	13.7	8.6	4.3	1.8	0.8	0.5
67.5°	533.8	112.0	21.5	16.9	14.7	9.9	5.3	1.8	0.8	0.0	0.0
70°	242.5	53.4	16.4	12.9	11.1	7.1	2.8	1.0	0.5	0.0	0.0
72.5°	75.4	28.1	11.6	9.4	7.6	4.6	1.5	0.8	0.5	0.0	0.0
75°	34.9	18.0	7.3	5.1	4.3	2.3	1.0	0.5	0.3	0.0	0.0
77.5°	26.0	13.9	4.3	2.8	2.3	1.5	0.8	0.5	0.3	0.0	0.0
80°	22.8	7.1	2.5	1.8	1.3	1.0	0.5	0.3	0.0	0.0	0.0
82.5°	20.5	3.5	1.5	1.0	0.8	0.5	0.3	0.3	0.0	0.0	0.0
85°	11.1	2.0	1.0	0.8	0.5	0.3	0.3	0.0	0.0	0.0	0.0
87.5°	2.0	1.0	0.8	0.5	0.5	0.3	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)