

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: P450613

Luminaire Tested: **GALN-SA1B-830-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450613
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-SA1B-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 800mA 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: 3420 lumens
Efficiency: N/A
Efficacy: 77.7 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): 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

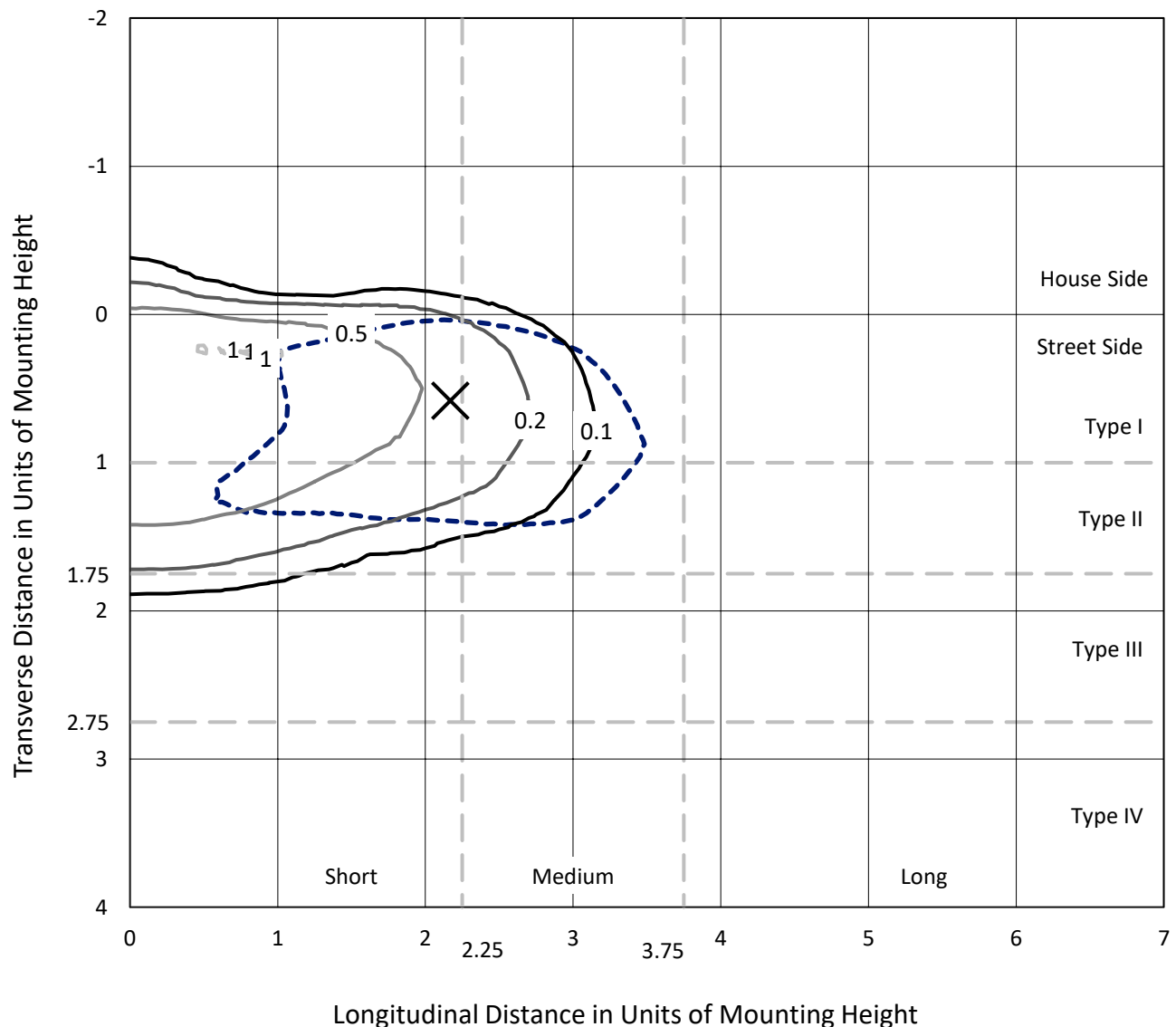


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

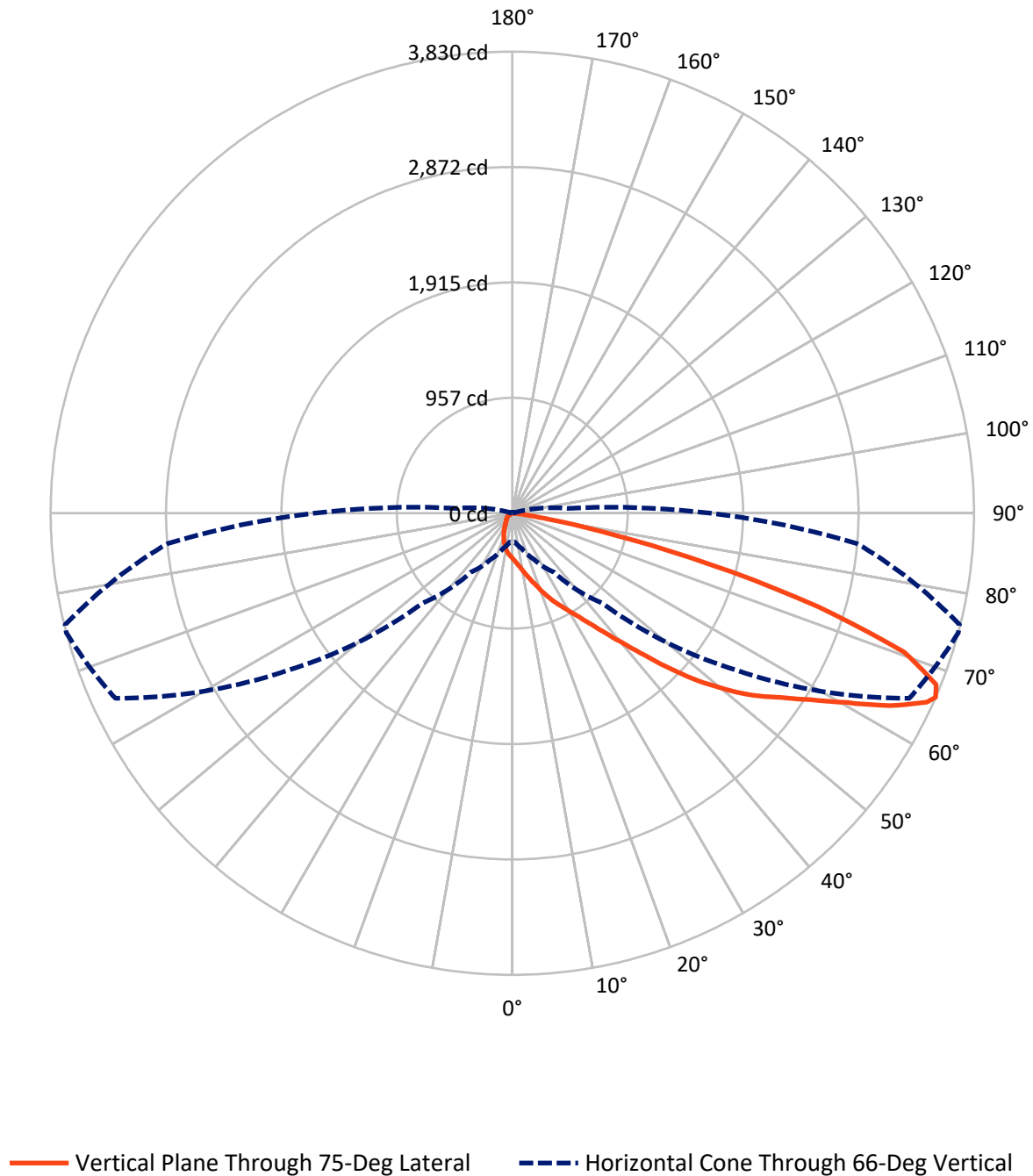


Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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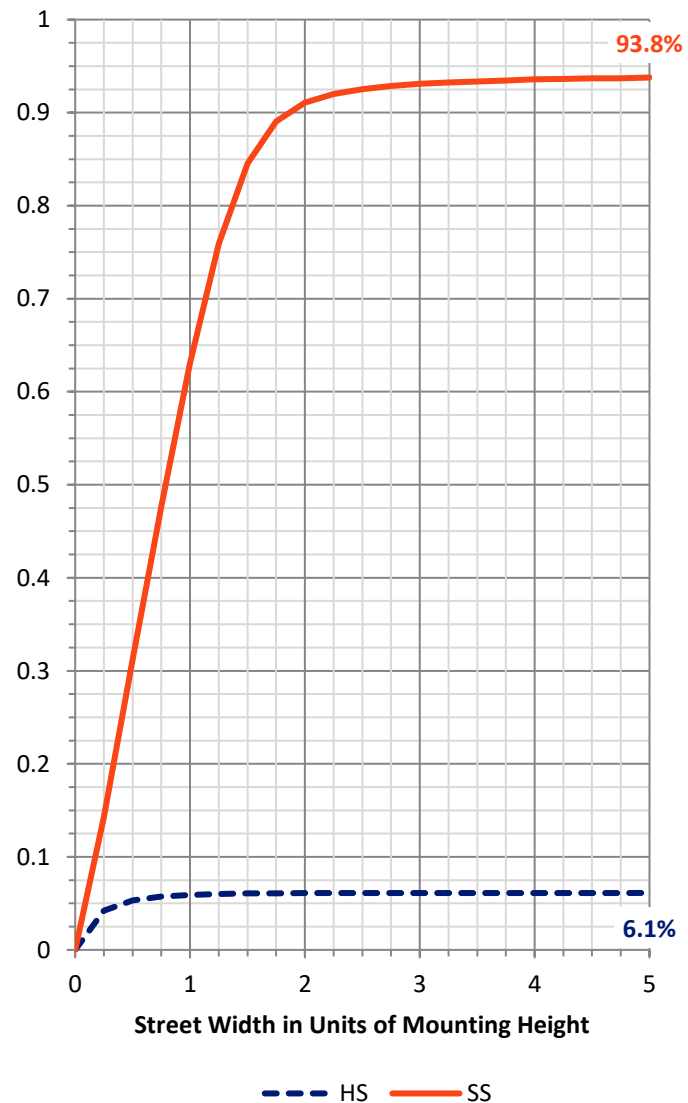
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	211.1	0.0	211.1
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	3208.9	0.0	3208.9
	% Fixture	93.8	0.0	93.8
Total	Lumens	3420.0	0.0	3420.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.1	1.1
10°-20°	106.2	3.1
20°-30°	183.3	5.4
30°-40°	330.7	9.7
40°-50°	597.4	17.5
50°-60°	931.3	27.2
60°-70°	884.7	25.9
70°-80°	331.6	9.7
80°-90°	18.7	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°	3420.0	100.0
0°-180°	3420.0	100.0



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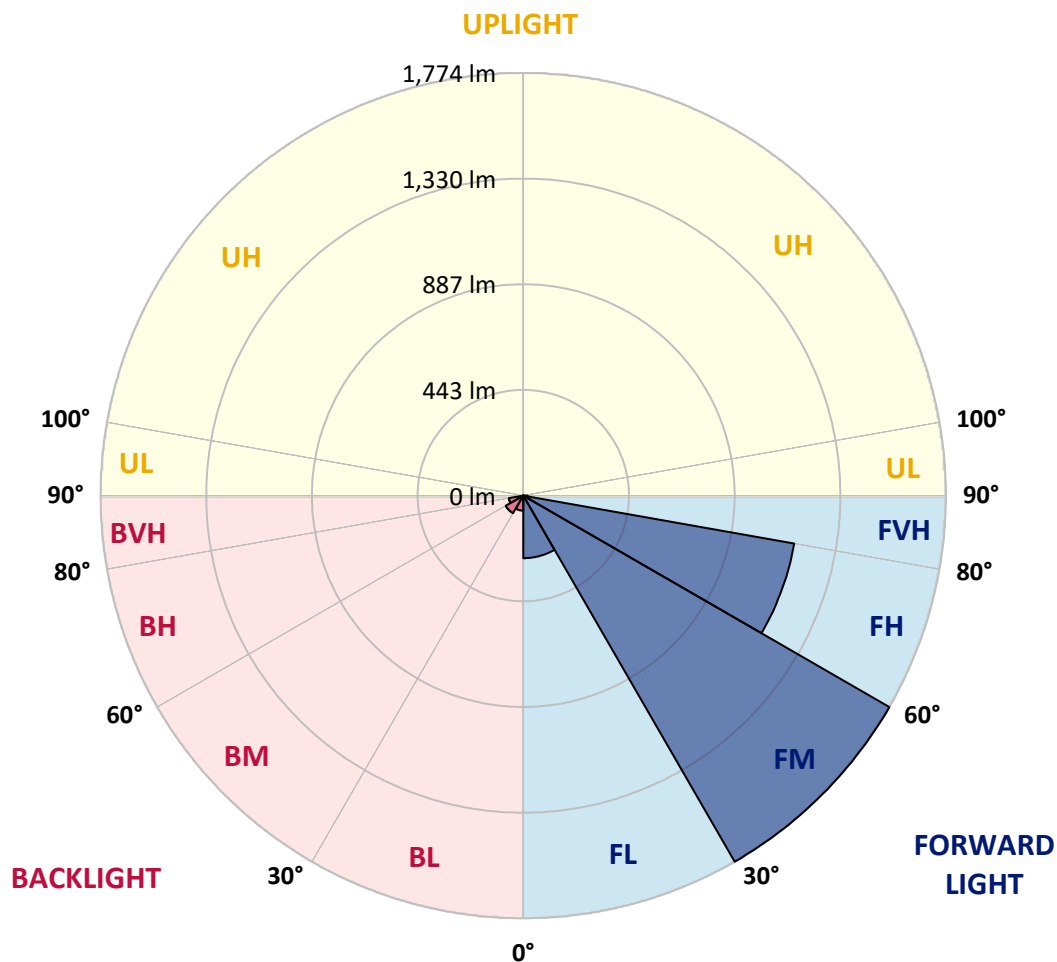
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	262.5	7.7			
FM	(30°-60°)	1774.0	51.9			
FH	(60°-80°)	1154.7	33.8			G1/1800
FVH	(80°-90°)	17.7	0.5			G1/100
BL	(0°-30°)	63.1	1.8	B0/110		
BM	(30°-60°)	85.5	2.5	B0/220		
BH	(60°-80°)	61.7	1.8	B0/110		G0/110
BVH	(80°-90°)	1.0	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°	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0
2.5°	446.8	441.3	443.0	440.5	434.7	426.1	418.5	407.6	396.8	395.0	382.9
5°	505.8	504.2	502.2	494.9	490.8	477.7	462.0	443.3	420.8	416.7	394.7
7.5°	546.0	545.2	546.2	542.4	538.9	527.0	510.3	484.8	449.9	447.6	410.9
10°	559.1	561.1	564.9	571.0	576.6	572.8	560.1	528.3	487.6	481.0	429.4
12.5°	551.5	553.8	562.9	579.1	597.1	607.4	602.4	579.1	527.5	522.2	450.1
15°	532.1	534.8	547.7	572.8	604.9	634.2	646.9	630.2	574.0	565.4	475.2
17.5°	503.2	507.3	525.7	558.9	602.9	653.4	689.1	683.5	623.6	615.5	502.5
20°	481.5	484.5	500.2	538.1	594.3	664.1	729.3	745.0	684.8	670.9	534.6
22.5°	495.9	496.9	502.2	525.0	578.8	666.8	764.7	809.0	749.8	737.4	568.0
25°	566.5	556.3	551.0	546.0	575.6	664.3	796.8	875.7	814.5	801.4	601.1
27.5°	677.7	673.2	646.4	610.5	603.6	667.6	818.1	938.9	875.5	861.3	633.5
30°	798.9	791.0	774.6	722.0	669.1	690.9	833.5	1000.4	947.5	928.8	663.1
32.5°	910.1	915.2	890.6	836.5	775.3	740.4	853.5	1067.4	1030.2	1007.0	697.4
35°	1039.8	1050.0	1012.3	960.4	888.9	830.0	892.4	1143.0	1135.2	1105.8	750.6
37.5°	1171.6	1177.7	1154.7	1081.8	1017.3	943.8	965.8	1236.3	1264.4	1239.4	814.0
40°	1282.4	1290.7	1273.8	1209.0	1140.2	1075.5	1072.2	1338.0	1418.2	1392.4	908.6
42.5°	1367.1	1373.4	1373.9	1328.1	1266.2	1236.8	1208.0	1467.7	1610.9	1581.0	1018.4
45°	1474.0	1483.1	1477.8	1446.7	1400.5	1395.1	1380.2	1624.5	1841.5	1803.8	1160.7
47.5°	1639.4	1645.5	1632.3	1595.7	1548.6	1557.0	1548.1	1800.3	2076.7	2044.3	1308.2
50°	1754.2	1764.3	1783.1	1797.7	1763.6	1732.7	1706.4	1964.4	2300.0	2270.9	1458.9
52.5°	1753.0	1769.7	1828.8	1902.7	1977.3	1967.9	1892.3	2145.7	2513.1	2477.2	1600.5
55°	1634.9	1667.2	1754.2	1885.2	2091.8	2194.8	2160.4	2355.6	2697.2	2673.0	1764.6
57.5°	1391.1	1410.8	1531.7	1714.8	2027.9	2301.5	2470.9	2640.1	2918.0	2906.6	2019.5
60°	935.7	944.5	1100.0	1326.4	1726.4	2195.0	2698.5	2984.2	3189.8	3184.3	2317.1
62.5°	536.1	539.9	652.7	843.6	1228.5	1860.2	2717.7	3408.8	3515.8	3518.8	2661.6
65°	288.5	290.6	381.6	495.1	747.5	1325.9	2443.8	3641.5	3779.3	3785.1	2875.0
66°	249.1	239.5	303.7	422.1	594.8	1055.3	2270.6	3633.1	3829.9	3823.6	2867.4
67.5°	189.4	198.0	242.5	324.4	440.8	750.3	1874.6	3471.5	3791.4	3771.7	2750.8
70°	135.5	139.1	172.7	231.4	300.2	411.7	1197.9	2883.3	3446.0	3419.5	2396.6
72.5°	87.5	91.3	122.4	167.4	217.0	224.8	670.6	2083.2	2656.8	2653.0	1804.8
75°	62.5	66.0	80.9	119.9	163.1	139.1	322.9	1404.0	1689.0	1677.6	1116.5
77.5°	45.3	47.0	54.1	78.4	116.6	99.6	149.7	749.8	840.8	880.5	493.4
80°	26.0	27.6	37.7	47.8	78.9	68.0	71.6	300.9	310.3	295.4	154.3
82.5°	12.9	14.7	22.5	32.6	49.3	45.8	32.9	90.5	95.6	93.1	38.9
85°	3.0	3.8	12.6	21.5	24.0	20.5	15.9	26.6	32.9	32.1	14.9
87.5°	0.3	0.5	4.6	3.8	4.0	6.8	5.6	6.8	10.6	9.9	5.3
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°	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0	374.0
2.5°	377.3	372.5	358.6	344.9	333.5	321.7	310.8	304.5	301.9	299.2	300.4
5°	382.6	371.0	342.9	318.6	294.9	274.6	258.4	248.1	243.0	242.3	241.0
7.5°	389.7	369.7	326.2	288.3	257.2	234.7	216.2	201.3	196.7	192.7	189.4
10°	398.3	367.4	305.5	256.4	223.3	195.0	170.7	153.0	143.9	141.4	143.1
12.5°	407.4	363.1	283.7	227.1	188.9	152.7	130.2	121.4	118.9	117.8	118.1
15°	416.5	357.8	261.0	198.8	150.5	121.9	111.5	109.2	108.2	107.7	107.2
17.5°	424.8	349.2	235.4	171.2	121.9	104.2	100.4	98.4	96.3	95.6	94.3
20°	434.7	339.4	212.4	140.3	103.2	94.3	89.8	86.0	82.9	80.9	80.7
22.5°	444.1	326.7	188.4	116.3	94.1	84.7	77.4	73.3	69.8	67.3	68.0
25°	449.1	311.3	166.9	101.4	85.7	75.1	67.0	62.0	58.2	56.9	56.6
27.5°	449.1	292.3	145.9	92.8	78.1	66.5	58.2	53.4	50.8	49.1	49.3
30°	445.6	271.3	126.4	86.2	71.6	58.9	51.1	46.8	44.8	43.5	43.2
32.5°	442.8	251.4	109.8	79.9	64.7	52.3	45.5	42.2	40.2	38.9	38.9
35°	447.1	234.2	96.9	73.6	58.4	47.3	41.2	38.2	36.2	35.2	34.9
37.5°	458.5	218.5	87.0	66.8	52.6	43.0	38.2	34.6	32.6	31.4	30.9
40°	486.5	209.6	79.7	60.4	47.0	39.4	34.6	31.4	28.8	27.6	27.3
42.5°	531.6	209.9	72.6	54.6	42.7	36.4	31.6	27.8	25.0	23.8	23.5
45°	599.3	219.5	67.0	49.1	38.9	33.1	28.3	24.3	21.7	20.5	20.5
47.5°	680.5	238.2	62.2	44.3	35.4	30.1	25.0	21.0	18.5	17.4	17.4
50°	768.5	262.5	57.4	39.2	32.4	26.8	21.5	18.2	16.2	15.4	15.4
52.5°	858.3	291.8	52.6	35.2	29.1	23.3	18.5	16.2	14.4	13.9	13.7
55°	976.1	329.3	47.5	30.9	25.5	20.0	16.4	14.2	12.1	11.4	11.1
57.5°	1157.4	385.6	42.0	27.1	21.0	16.7	14.2	11.9	9.6	8.3	8.1
60°	1376.2	454.4	36.2	23.8	16.9	13.7	11.4	9.1	7.1	5.6	5.3
62.5°	1581.0	498.2	30.6	20.0	13.4	10.4	8.1	6.8	5.1	3.5	3.3
65°	1671.5	483.5	25.3	16.2	10.6	7.3	5.3	4.8	3.0	1.5	1.3
66°	1641.4	461.8	23.3	14.7	9.6	6.3	4.6	4.0	2.3	0.8	0.8
67.5°	1552.7	410.4	20.2	12.6	8.3	5.1	3.5	3.0	1.3	0.3	0.0
70°	1330.4	332.0	15.9	9.4	6.1	3.5	2.0	1.5	0.8	0.0	0.0
72.5°	1021.9	247.3	12.6	7.1	4.3	2.0	1.0	0.5	0.8	0.0	0.0
75°	626.1	141.4	9.9	5.3	2.8	1.3	0.8	0.0	0.8	0.3	0.0
77.5°	277.9	63.5	6.6	3.5	2.0	1.0	0.5	0.0	0.5	0.3	0.0
80°	70.3	20.7	3.8	2.5	1.5	0.8	0.3	0.0	0.5	0.5	0.3
82.5°	19.2	7.6	2.8	2.0	1.3	0.8	0.3	0.0	0.5	0.5	0.5
85°	7.6	3.5	2.5	2.0	1.5	0.8	0.3	0.0	0.5	0.5	0.5
87.5°	3.5	2.5	2.5	2.3	1.8	0.8	0.3	0.0	0.5	0.3	0.5
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)