

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: P451319

Luminaire Tested: **GALN-SA2A-830-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451319
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-SA2A-830-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 615mA 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: 5287 lumens
Efficiency: N/A
Efficacy: 83.9 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): 63
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

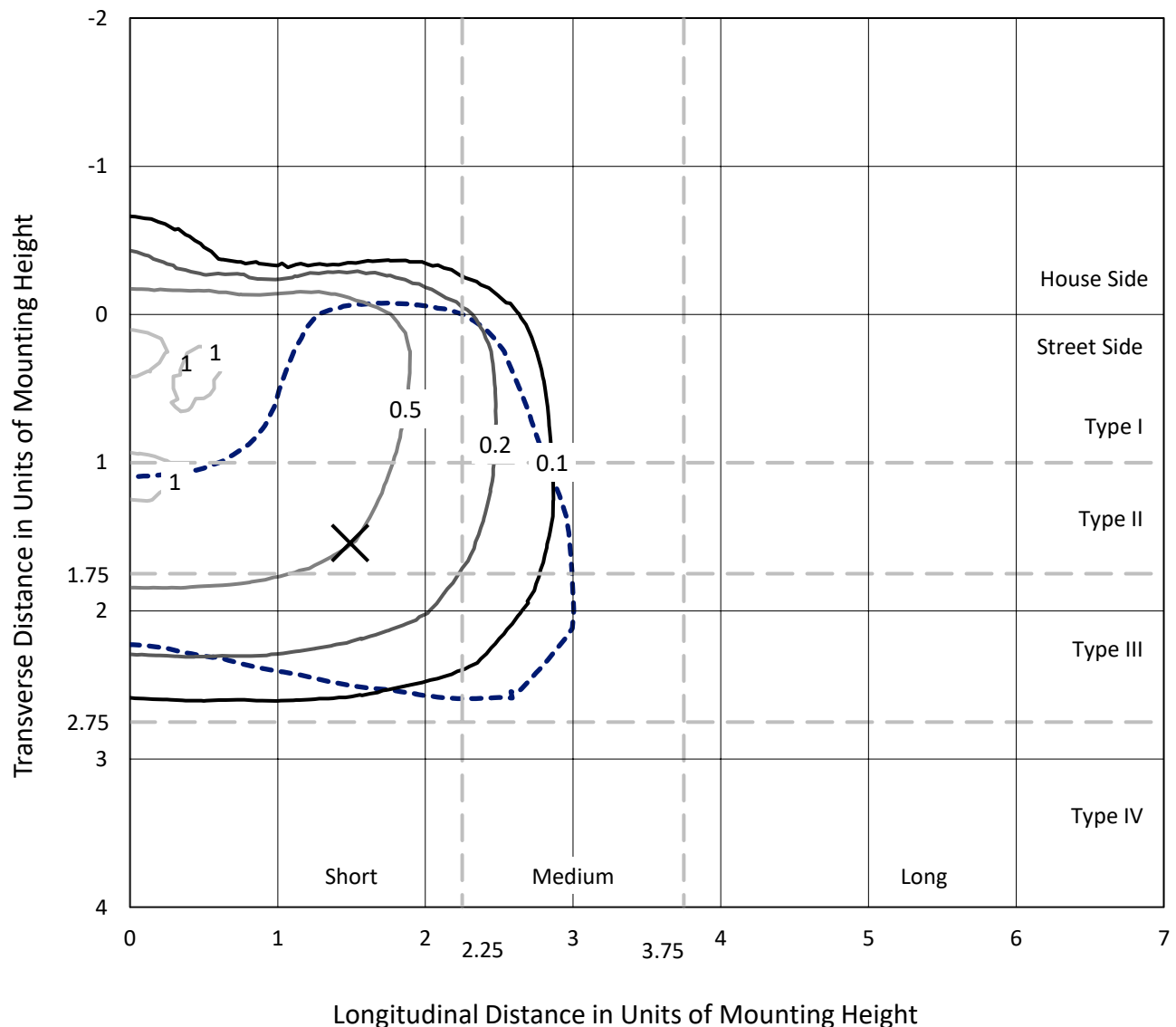


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Iso-Footcandle Lines of Horizontal Illumination

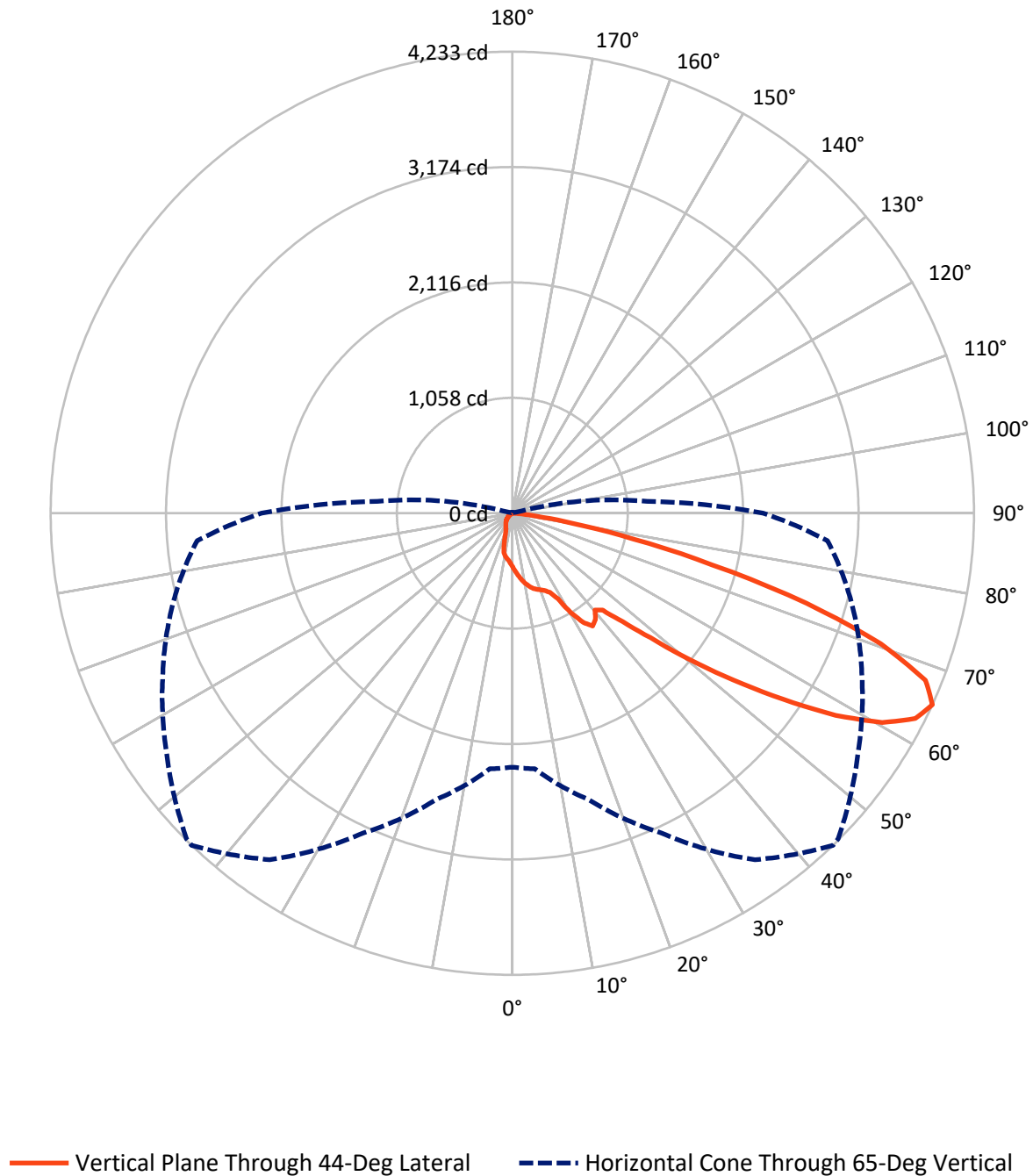
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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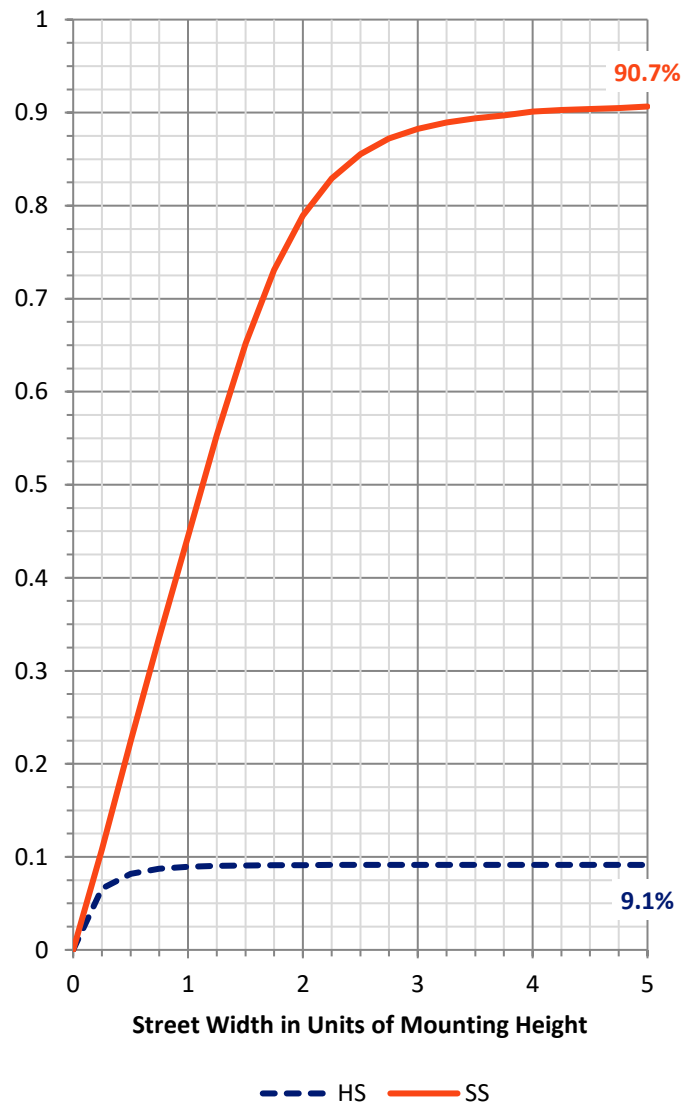
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	487.1	0.0	487.1
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	4799.9	0.0	4799.9
	% Fixture	90.8	0.0	90.8
Total	Lumens	5287.0	0.0	5287.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.9	0.9
10°-20°	147.3	2.8
20°-30°	249.8	4.7
30°-40°	415.3	7.9
40°-50°	725.1	13.7
50°-60°	1416.5	26.8
60°-70°	1643.5	31.1
70°-80°	598.5	11.3
80°-90°	42.2	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°	5287.0	100.0
0°-180°	5287.0	100.0

Coefficient of Utilization



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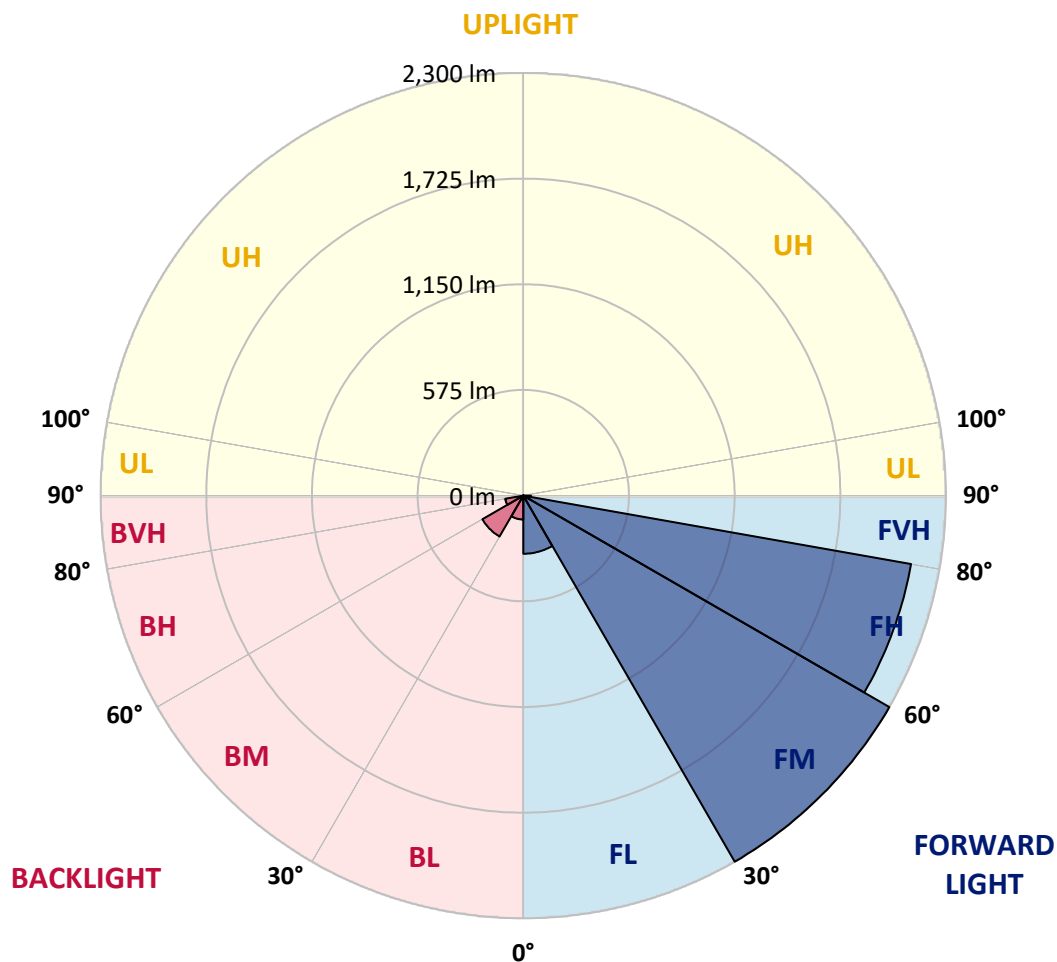
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	316.2	6.0			
FM	(30°-60°)	2299.9	43.5			
FH	(60°-80°)	2142.2	40.5			G2/5000
FVH	(80°-90°)	41.6	0.8			G1/100
BL	(0°-30°)	129.8	2.5	B1/500		
BM	(30°-60°)	257.0	4.9	B1/1000		
BH	(60°-80°)	99.8	1.9	B0/110		G0/110
BVH	(80°-90°)	0.6	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°	492.1	492.1	492.1	492.1	492.1	492.1	492.1	492.1	492.1	492.1	492.1
2.5°	553.9	551.4	550.2	543.8	538.9	532.9	532.9	525.2	516.3	506.6	497.7
5°	615.7	611.6	606.4	600.7	589.4	573.3	573.3	557.1	538.5	522.0	503.8
7.5°	675.1	671.4	662.5	651.6	633.1	616.1	614.9	591.4	569.2	544.2	518.3
10°	727.2	724.4	716.7	695.7	676.3	654.1	653.7	627.4	601.5	570.8	538.9
12.5°	763.5	763.9	753.8	733.6	708.6	687.6	686.0	660.1	633.1	599.9	560.7
15°	789.4	789.4	778.9	756.3	733.6	715.1	713.4	690.8	663.0	627.0	584.6
17.5°	796.7	799.1	787.8	767.6	749.4	733.2	732.8	713.9	691.6	656.9	608.8
20°	793.8	796.3	787.4	771.6	759.1	749.8	748.6	740.9	720.3	687.6	634.7
22.5°	787.8	790.2	783.7	774.5	768.4	771.2	769.2	775.7	764.8	725.2	665.4
25°	789.0	791.4	786.6	781.3	786.6	803.9	809.2	837.1	827.4	772.8	698.5
27.5°	827.0	831.8	825.0	827.4	846.0	886.4	896.5	944.5	901.7	833.4	750.2
30°	911.4	908.2	895.2	907.0	971.6	1057.2	1054.4	1046.7	979.7	903.3	811.6
32.5°	988.2	985.3	984.5	1035.0	1152.2	1193.8	1191.8	1117.4	1049.6	983.3	872.2
35°	1019.3	1008.4	1005.9	1128.3	1324.3	1269.3	1256.8	1146.5	1134.4	1070.6	934.0
37.5°	1113.0	1105.3	1067.8	1143.7	1255.6	1237.4	1227.7	1196.6	1224.9	1147.7	1003.9
40°	1306.1	1284.7	1250.8	1176.4	1158.2	1165.9	1175.6	1260.9	1332.0	1253.2	1097.2
42.5°	1546.1	1541.2	1478.2	1339.6	1203.5	1214.0	1226.5	1395.0	1485.9	1412.0	1249.5
45°	1834.1	1841.0	1750.1	1586.5	1407.9	1416.8	1435.0	1592.9	1694.3	1658.8	1489.1
47.5°	2095.9	2090.7	2060.0	1889.9	1725.0	1705.2	1734.7	1847.1	1982.8	1988.4	1786.5
50°	2359.3	2387.2	2341.5	2274.9	2152.5	2110.9	2099.9	2154.9	2361.7	2334.7	2143.6
52.5°	2737.9	2752.4	2666.7	2649.8	2677.7	2542.7	2531.8	2545.1	2730.2	2637.3	2411.0
55°	2975.8	2967.3	2935.4	3067.9	3178.2	3009.7	2996.0	2942.3	3036.0	2851.0	2668.4
57.5°	3050.9	3063.1	3137.4	3377.0	3637.9	3494.9	3469.9	3317.2	3256.6	3050.1	2905.1
60°	3017.4	3039.6	3200.0	3556.3	3918.3	3896.9	3875.5	3619.0	3414.9	3216.6	3071.1
62.5°	2778.7	2809.8	3066.3	3524.4	4013.3	4147.0	4120.3	3807.2	3520.4	3297.4	3100.2
65°	2328.6	2351.6	2720.1	3234.8	3878.3	4232.6	4222.9	3866.2	3536.9	3223.5	2901.1
67.5°	1660.0	1738.4	2079.7	2726.1	3479.2	4086.4	4102.9	3795.5	3381.4	2903.9	2402.5
70°	1043.5	1096.8	1341.7	1951.7	2789.2	3585.0	3639.6	3471.9	2934.6	2263.6	1608.3
72.5°	497.7	537.3	711.8	1235.4	1968.7	2820.7	2863.9	2850.2	2269.2	1426.1	829.8
75°	221.8	236.7	339.8	630.6	1271.0	1895.9	2007.8	2026.4	1418.0	697.7	322.8
77.5°	113.1	113.5	159.2	305.4	634.7	1131.2	1153.4	1218.4	768.8	307.4	112.3
80°	60.2	64.2	84.4	144.2	329.3	557.1	554.3	609.2	341.0	150.7	37.6
82.5°	27.1	29.9	47.7	75.5	160.8	211.3	227.9	249.3	146.2	96.2	16.6
85°	8.1	9.7	23.4	38.0	58.2	61.0	68.3	88.1	82.8	68.3	8.5
87.5°	1.2	1.2	9.7	10.5	8.5	10.9	11.3	12.5	26.7	25.0	4.4
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°	492.1	492.1	492.1	492.1	492.1	492.1	492.1	492.1	492.1	492.1	492.1
2.5°	492.9	490.0	479.9	471.5	464.2	459.7	454.5	451.3	449.6	448.4	448.8
5°	494.9	488.0	470.7	456.9	446.4	435.1	427.4	423.0	421.0	417.7	417.7
7.5°	506.2	495.3	471.1	450.0	431.9	416.5	402.0	396.7	393.1	392.3	391.5
10°	522.4	508.6	475.5	446.4	420.6	399.5	378.9	360.8	346.6	338.1	336.9
12.5°	542.6	522.8	482.4	444.0	410.9	373.7	319.2	282.4	257.7	250.1	251.3
15°	561.1	539.7	489.2	442.0	393.1	309.9	248.1	206.0	193.5	192.3	192.7
17.5°	583.4	557.9	497.3	439.1	344.2	236.7	184.2	172.9	175.3	179.4	179.0
20°	606.4	577.3	507.0	422.2	274.7	178.2	162.8	164.0	167.7	171.3	172.1
22.5°	631.0	599.5	518.3	381.4	209.7	155.1	154.3	155.9	159.6	163.6	164.4
25°	665.0	627.4	526.8	328.0	158.8	143.4	145.0	147.9	151.1	155.5	156.3
27.5°	708.6	665.0	531.2	258.6	137.4	132.9	133.3	137.4	141.4	145.4	145.4
30°	765.2	709.8	522.4	195.5	126.9	122.8	121.2	123.6	128.9	132.9	133.3
32.5°	815.7	752.2	498.9	149.5	119.2	113.5	109.5	109.9	111.9	114.3	114.7
35°	866.2	793.4	458.9	125.6	111.1	104.6	98.6	95.3	93.7	92.5	93.7
37.5°	930.8	844.7	405.6	114.3	104.2	96.2	87.7	80.8	75.1	71.5	72.3
40°	1014.0	915.8	342.6	107.1	97.8	88.1	76.8	67.9	58.2	54.9	53.3
42.5°	1151.4	1023.7	276.3	101.0	91.3	79.6	65.4	53.3	44.4	41.2	42.0
45°	1368.3	1159.9	212.9	94.5	84.8	70.3	54.9	42.0	34.7	33.1	33.9
47.5°	1656.0	1336.0	164.0	87.3	76.8	60.2	43.2	33.1	28.7	28.3	27.9
50°	1926.6	1500.0	137.0	79.2	67.1	50.1	35.6	27.9	25.0	24.6	24.6
52.5°	2171.5	1617.6	111.5	69.9	56.6	41.2	29.9	24.6	22.2	21.0	21.0
55°	2389.2	1694.3	90.5	58.6	44.4	32.7	25.9	22.2	19.4	17.8	17.4
57.5°	2553.6	1703.6	67.9	46.9	33.1	25.5	22.2	19.4	16.2	14.1	13.3
60°	2623.9	1623.2	50.1	35.6	24.6	20.2	17.8	15.8	12.1	10.1	9.7
62.5°	2553.2	1466.9	37.2	27.1	19.0	14.9	12.5	11.7	8.5	6.1	5.7
65°	2299.9	1241.1	29.5	20.6	14.1	10.9	8.1	7.7	5.3	2.8	2.4
67.5°	1842.6	972.0	23.4	15.4	10.1	7.3	5.3	4.8	2.8	0.8	0.8
70°	1198.2	621.3	19.0	11.3	6.5	4.8	3.2	2.4	1.6	0.4	0.0
72.5°	592.7	290.5	15.4	8.9	4.4	2.4	1.2	0.8	1.2	0.0	0.0
75°	229.9	103.4	11.3	6.1	2.4	1.2	0.8	0.0	0.4	0.0	0.0
77.5°	76.4	34.3	6.9	3.2	1.6	0.8	0.0	0.0	0.0	0.0	0.0
80°	28.3	13.3	3.6	2.0	0.8	0.4	0.0	0.0	0.0	0.0	0.0
82.5°	11.3	5.3	2.4	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.7	3.2	1.6	1.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.0	2.4	1.6	1.2	0.8	0.4	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)