

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: P451541

Luminaire Tested: **GALN-SA2B-830-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451541
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-SA2B-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6798 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - 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

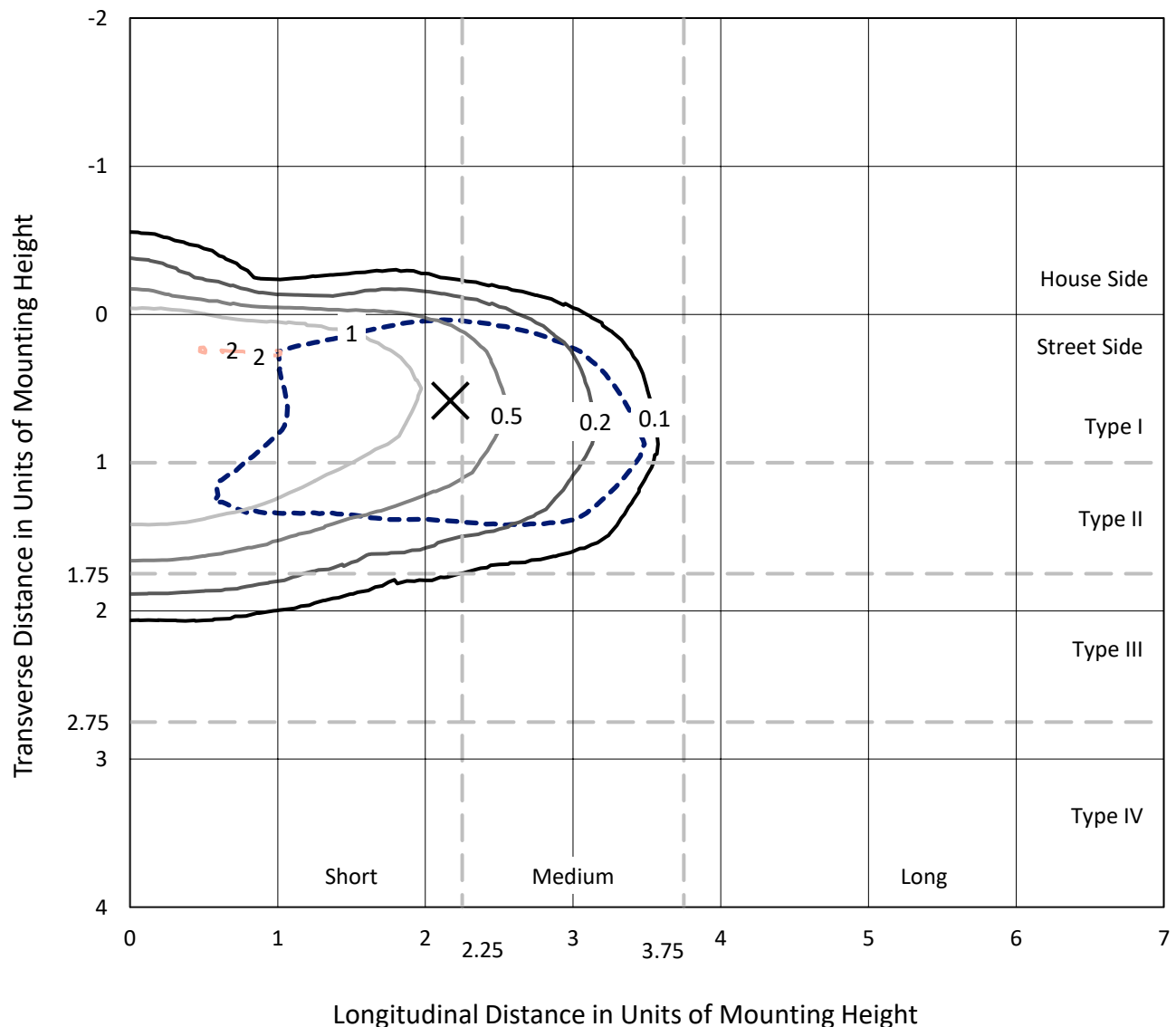


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

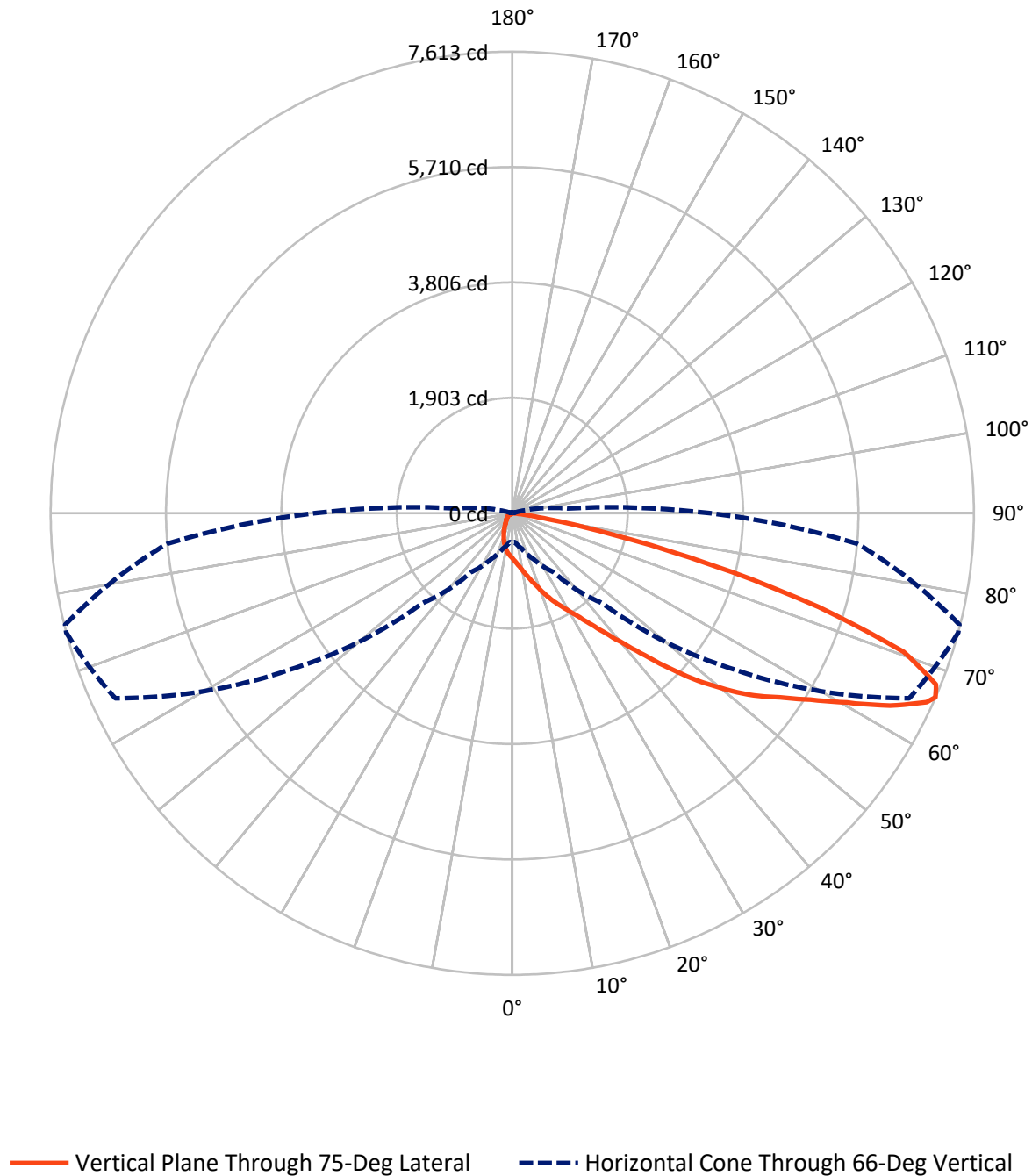


Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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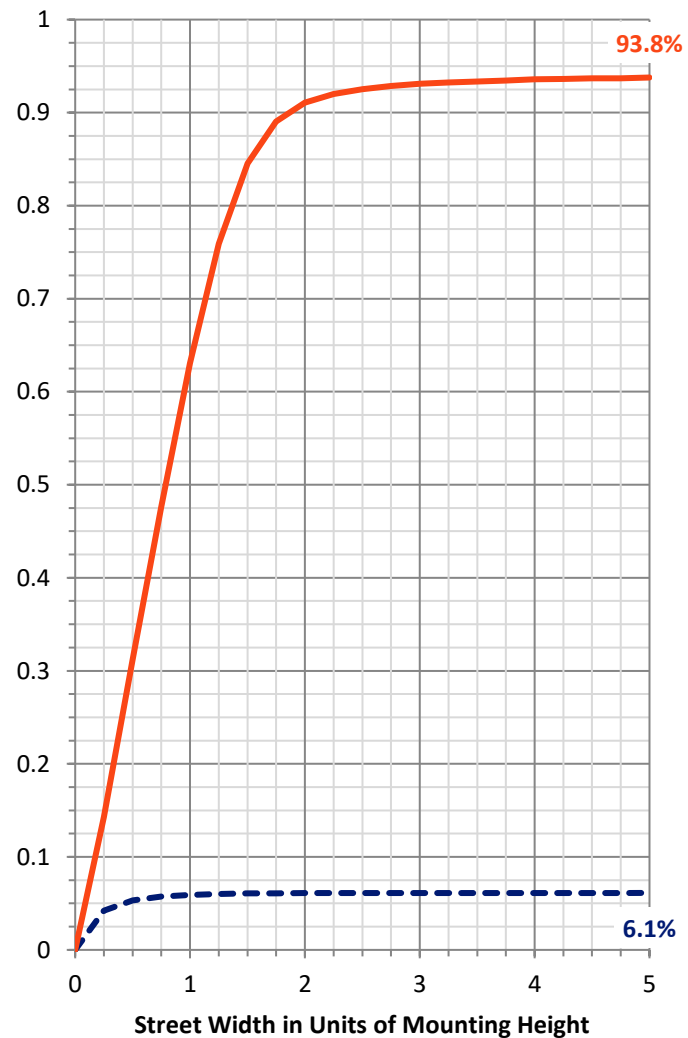
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	419.7	0.0	419.7
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	6378.3	0.0	6378.3
	% Fixture	93.8	0.0	93.8
Total	Lumens	6798.0	0.0	6798.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.7	1.1
10°-20°	211.0	3.1
20°-30°	364.4	5.4
30°-40°	657.3	9.7
40°-50°	1187.4	17.5
50°-60°	1851.2	27.2
60°-70°	1758.6	25.9
70°-80°	659.1	9.7
80°-90°	37.2	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°	6798.0	100.0
0°-180°	6798.0	100.0

Coefficient of Utilization



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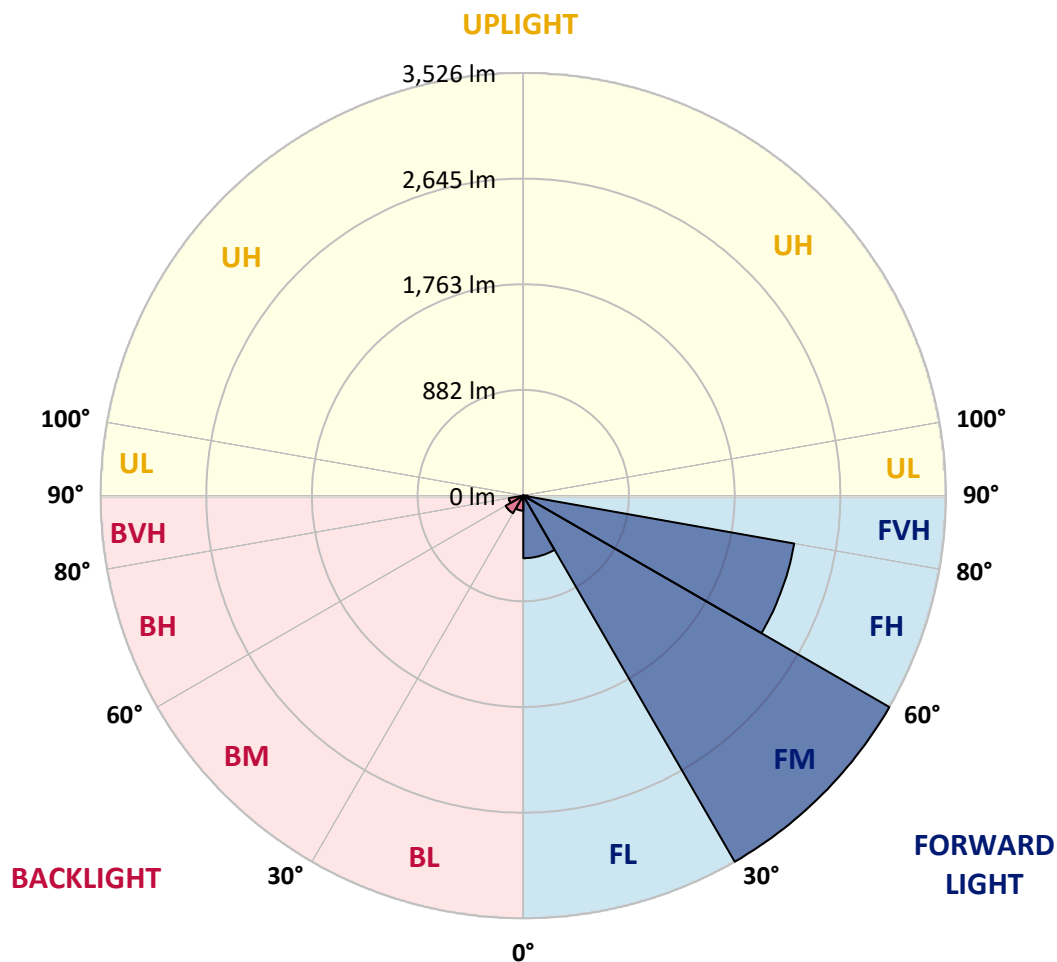
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	521.8	7.7			
FM	(30°-60°)	3526.1	51.9			
FH	(60°-80°)	2295.1	33.8			G2/5000
FVH	(80°-90°)	35.3	0.5			G1/100
BL	(0°-30°)	125.3	1.8	B1/500		
BM	(30°-60°)	169.9	2.5	B0/220		
BH	(60°-80°)	122.5	1.8	B1/500		G1/500
BVH	(80°-90°)	1.9	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	743.4	743.4	743.4	743.4	743.4	743.4	743.4	743.4	743.4	743.4	743.4
2.5°	888.2	877.1	880.7	875.6	864.1	847.0	831.9	810.3	788.7	785.1	761.0
5°	1005.3	1002.3	998.3	983.7	975.7	949.5	918.4	881.2	836.4	828.4	784.6
7.5°	1085.2	1083.7	1085.7	1078.2	1071.2	1047.5	1014.4	963.6	894.2	889.7	816.8
10°	1111.4	1115.4	1122.9	1135.0	1146.1	1138.5	1113.4	1050.0	969.1	956.1	853.5
12.5°	1096.3	1100.8	1118.9	1151.1	1186.8	1207.4	1197.3	1151.1	1048.5	1038.0	894.7
15°	1057.6	1063.1	1088.8	1138.5	1202.4	1260.7	1285.8	1252.6	1141.0	1123.9	944.5
17.5°	1000.3	1008.3	1045.0	1110.9	1198.3	1298.9	1369.7	1358.7	1239.6	1223.5	998.8
20°	957.1	963.1	994.3	1069.7	1181.2	1320.0	1449.7	1480.8	1361.2	1333.5	1062.6
22.5°	985.7	987.7	998.3	1043.5	1150.6	1325.5	1520.0	1608.0	1490.4	1465.7	1129.0
25°	1125.9	1105.8	1095.3	1085.2	1144.0	1320.5	1583.9	1740.7	1619.1	1592.9	1194.8
27.5°	1347.1	1338.1	1284.8	1213.4	1199.8	1327.0	1626.1	1866.4	1740.2	1712.0	1259.2
30°	1587.9	1572.3	1539.6	1435.1	1330.0	1373.3	1656.8	1988.5	1883.5	1846.3	1318.0
32.5°	1809.1	1819.1	1770.4	1662.8	1541.1	1471.8	1696.5	2121.7	2047.8	2001.6	1386.3
35°	2066.9	2087.0	2012.1	1909.1	1766.8	1649.7	1773.9	2272.0	2256.4	2198.1	1491.9
37.5°	2328.8	2340.9	2295.1	2150.4	2022.2	1875.9	1919.6	2457.5	2513.3	2463.5	1618.1
40°	2549.0	2565.6	2531.9	2403.2	2266.5	2137.8	2131.3	2659.6	2818.9	2767.6	1806.0
42.5°	2717.4	2729.9	2730.9	2640.0	2516.8	2458.5	2401.2	2917.4	3201.9	3142.6	2024.2
45°	2930.0	2948.1	2937.5	2875.7	2783.7	2773.2	2743.5	3229.1	3660.3	3585.4	2307.2
47.5°	3258.7	3270.8	3244.6	3171.8	3078.3	3094.9	3077.3	3578.4	4127.8	4063.5	2600.2
50°	3486.9	3507.0	3544.2	3573.4	3505.5	3444.2	3391.9	3904.6	4571.7	4513.9	2899.8
52.5°	3484.4	3517.6	3635.2	3782.0	3930.3	3911.7	3761.4	4265.0	4995.4	4924.0	3181.3
55°	3249.7	3314.0	3486.9	3747.3	4158.0	4362.6	4294.2	4682.2	5361.3	5313.1	3507.5
57.5°	2765.1	2804.3	3044.6	3408.5	4030.8	4574.7	4911.5	5247.7	5800.1	5777.5	4014.2
60°	1859.8	1877.4	2186.6	2636.4	3431.6	4363.1	5363.8	5931.8	6340.5	6329.4	4605.8
62.5°	1065.6	1073.2	1297.4	1676.9	2441.9	3697.5	5402.0	6775.8	6988.4	6994.5	5290.5
65°	573.5	577.6	758.5	984.2	1485.9	2635.4	4857.7	7238.2	7512.2	7523.8	5714.7
66°	495.1	476.0	603.7	838.9	1182.2	2097.6	4513.3	7221.7	7612.7	7600.2	5699.6
67.5°	376.5	393.6	482.0	644.9	876.1	1491.4	3726.2	6900.5	7536.3	7497.1	5467.9
70°	269.4	276.5	343.3	459.9	596.7	818.3	2381.1	5731.3	6849.7	6796.9	4763.7
72.5°	173.9	181.5	243.3	332.8	431.3	446.9	1333.0	4140.9	5280.9	5273.4	3587.5
75°	124.2	131.2	160.8	238.3	324.2	276.5	641.9	2790.7	3357.2	3334.6	2219.2
77.5°	90.0	93.5	107.6	155.8	231.7	198.0	297.6	1490.4	1671.3	1750.2	980.7
80°	51.8	54.8	74.9	95.0	156.8	135.2	142.3	598.2	616.8	587.1	306.6
82.5°	25.6	29.2	44.7	64.8	98.0	91.0	65.3	180.0	190.0	185.0	77.4
85°	6.0	7.5	25.1	42.7	47.8	40.7	31.7	52.8	65.3	63.8	29.7
87.5°	0.5	1.0	9.0	7.5	8.0	13.6	11.1	13.6	21.1	19.6	10.6
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°	743.4	743.4	743.4	743.4	743.4	743.4	743.4	743.4	743.4	743.4	743.4
2.5°	750.0	740.4	712.8	685.6	663.0	639.4	617.8	605.2	600.2	594.6	597.2
5°	760.5	737.4	681.6	633.3	586.1	545.9	513.7	493.1	483.1	481.5	479.0
7.5°	774.6	734.9	648.4	573.0	511.2	466.5	429.8	400.1	391.1	383.0	376.5
10°	791.7	730.4	607.2	509.7	443.8	387.5	339.3	304.1	286.0	281.0	284.5
12.5°	809.8	721.8	564.0	451.4	375.5	303.6	258.9	241.3	236.2	234.2	234.7
15°	827.9	711.3	518.7	395.1	299.1	242.3	221.7	217.1	215.1	214.1	213.1
17.5°	844.5	694.2	468.0	340.3	242.3	207.1	199.6	195.5	191.5	190.0	187.5
20°	864.1	674.6	422.2	279.0	205.1	187.5	178.4	170.9	164.9	160.8	160.3
22.5°	882.7	649.4	374.5	231.2	187.0	168.4	153.8	145.8	138.7	133.7	135.2
25°	892.7	618.8	331.8	201.6	170.4	149.3	133.2	123.2	115.6	113.1	112.6
27.5°	892.7	581.1	290.0	184.5	155.3	132.2	115.6	106.1	101.0	97.5	98.0
30°	885.7	539.4	251.3	171.4	142.3	117.1	101.5	93.0	89.0	86.5	86.0
32.5°	880.2	499.6	218.2	158.8	128.7	104.0	90.5	83.9	79.9	77.4	77.4
35°	888.7	465.5	192.5	146.3	116.1	94.0	81.9	75.9	71.9	69.9	69.4
37.5°	911.3	434.3	172.9	132.7	104.6	85.5	75.9	68.9	64.8	62.3	61.3
40°	967.1	416.7	158.3	120.1	93.5	78.4	68.9	62.3	57.3	54.8	54.3
42.5°	1056.6	417.2	144.3	108.6	84.9	72.4	62.8	55.3	49.8	47.2	46.7
45°	1191.3	436.3	133.2	97.5	77.4	65.8	56.3	48.3	43.2	40.7	40.7
47.5°	1352.6	473.5	123.7	88.0	70.4	59.8	49.8	41.7	36.7	34.7	34.7
50°	1527.6	521.8	114.1	77.9	64.3	53.3	42.7	36.2	32.2	30.7	30.7
52.5°	1706.0	580.1	104.6	69.9	57.8	46.2	36.7	32.2	28.7	27.6	27.1
55°	1940.3	654.5	94.5	61.3	50.8	39.7	32.7	28.1	24.1	22.6	22.1
57.5°	2300.7	766.6	83.4	53.8	41.7	33.2	28.1	23.6	19.1	16.6	16.1
60°	2735.5	903.3	71.9	47.2	33.7	27.1	22.6	18.1	14.1	11.1	10.6
62.5°	3142.6	990.2	60.8	39.7	26.6	20.6	16.1	13.6	10.1	7.0	6.5
65°	3322.6	961.1	50.3	32.2	21.1	14.6	10.6	9.6	6.0	3.0	2.5
66°	3262.7	917.9	46.2	29.2	19.1	12.6	9.0	8.0	4.5	1.5	1.5
67.5°	3086.3	815.8	40.2	25.1	16.6	10.1	7.0	6.0	2.5	0.5	0.0
70°	2644.5	660.0	31.7	18.6	12.1	7.0	4.0	3.0	1.5	0.0	0.0
72.5°	2031.2	491.6	25.1	14.1	8.5	4.0	2.0	1.0	1.5	0.0	0.0
75°	1244.6	281.0	19.6	10.6	5.5	2.5	1.5	0.0	1.5	0.5	0.0
77.5°	552.4	126.2	13.1	7.0	4.0	2.0	1.0	0.0	1.0	0.5	0.0
80°	139.7	41.2	7.5	5.0	3.0	1.5	0.5	0.0	1.0	1.0	0.5
82.5°	38.2	15.1	5.5	4.0	2.5	1.5	0.5	0.0	1.0	1.0	1.0
85°	15.1	7.0	5.0	4.0	3.0	1.5	0.5	0.0	1.0	1.0	1.0
87.5°	7.0	5.0	5.0	4.5	3.5	1.5	0.5	0.0	1.0	0.5	1.0
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)