

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: P451313

Luminaire Tested: **GALN-SA2A-830-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451313
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
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-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5365 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 63
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



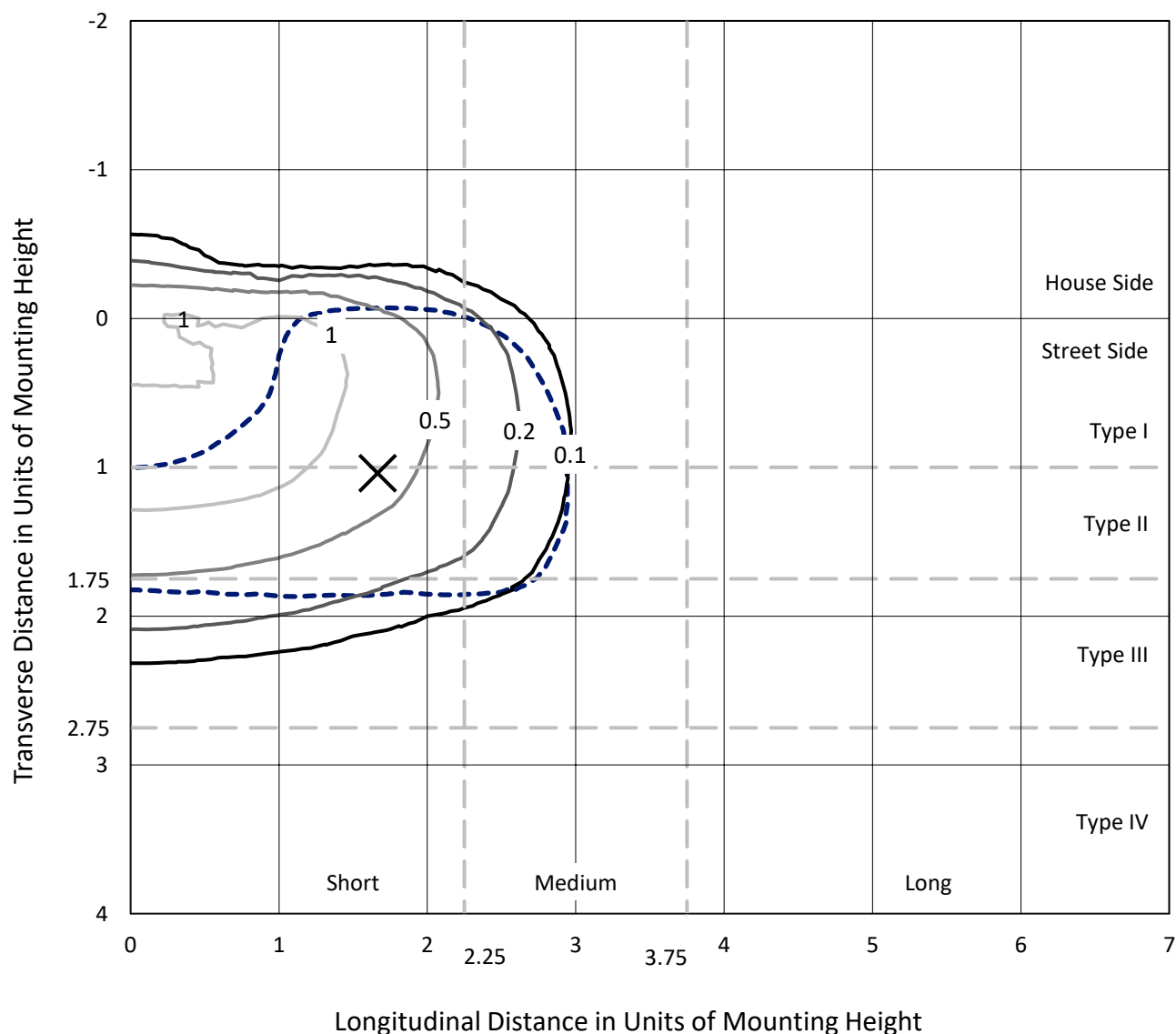
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

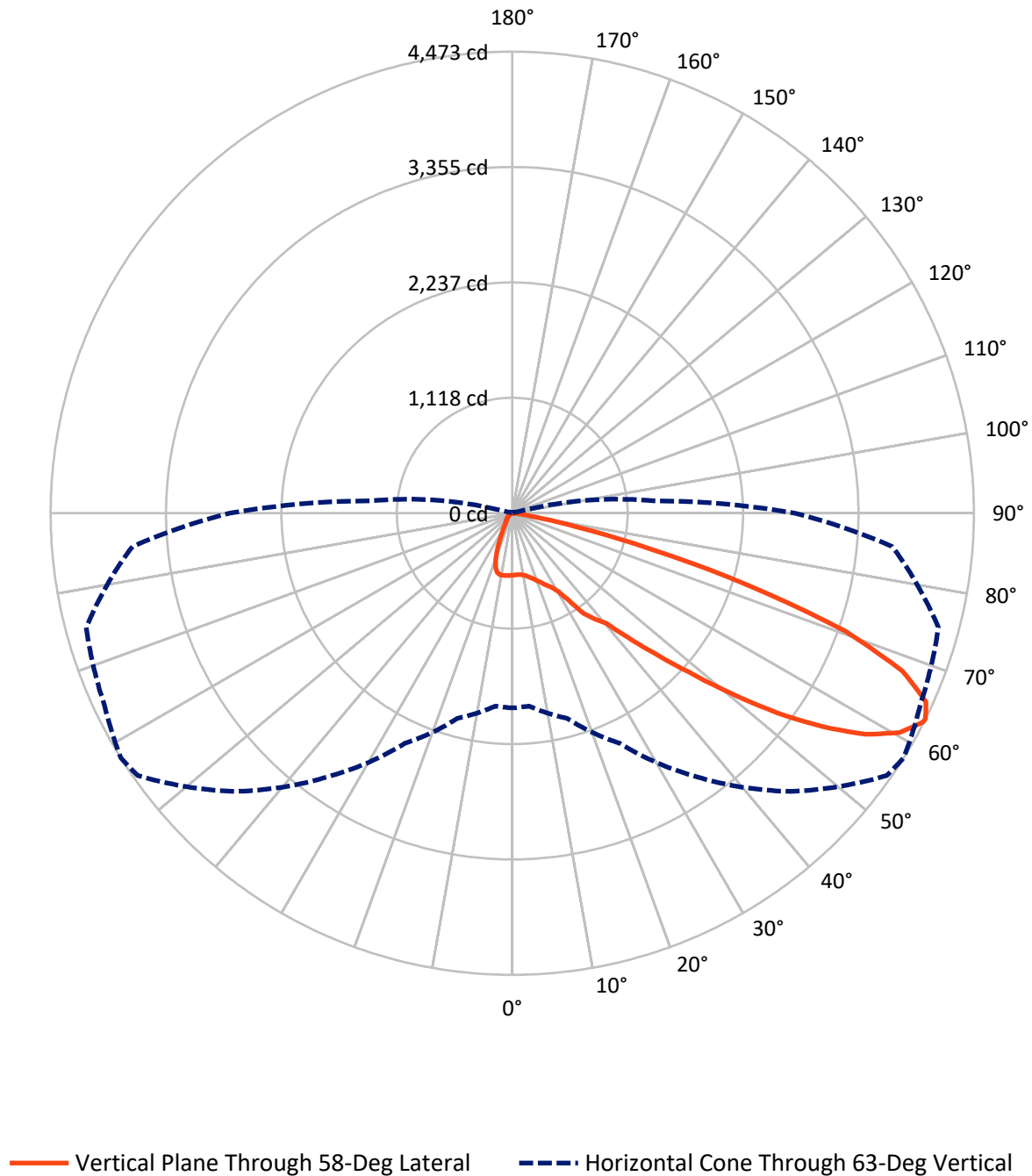
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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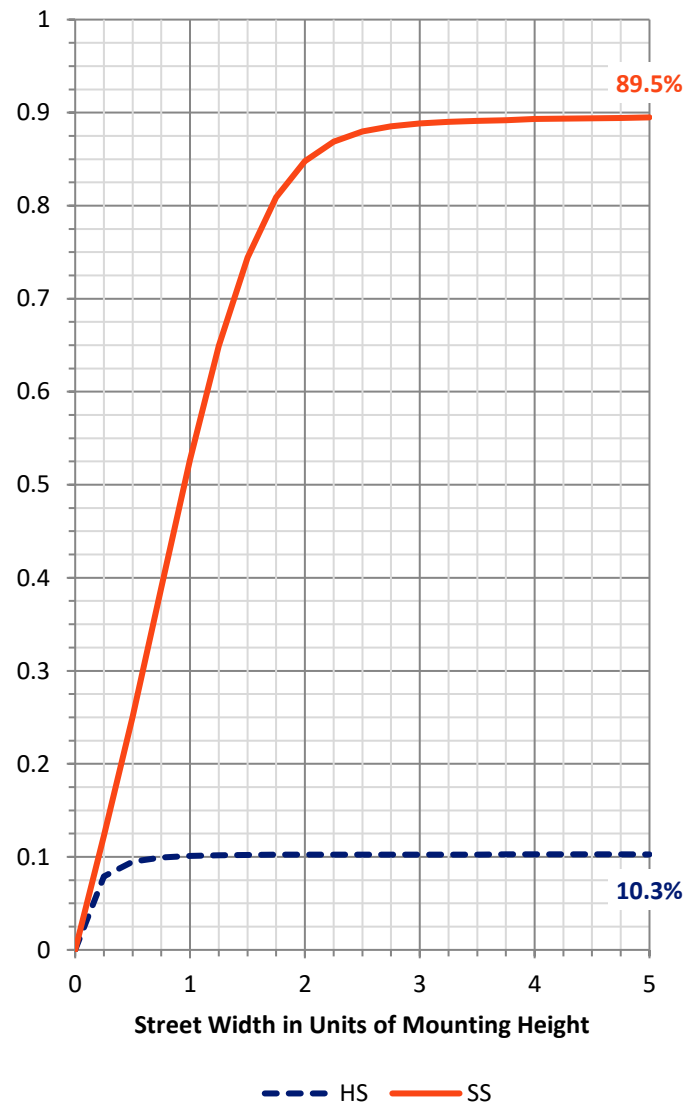
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	555.5	0.0	555.5
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	4809.5	0.0	4809.5
	% Fixture	89.6	0.0	89.6
Total	Lumens	5365.0	0.0	5365.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.2	1.0
10°-20°	153.1	2.9
20°-30°	265.8	5.0
30°-40°	488.4	9.1
40°-50°	919.4	17.1
50°-60°	1572.6	29.3
60°-70°	1505.8	28.1
70°-80°	384.0	7.2
80°-90°	19.6	0.4
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°	5365.0	100.0
0°-180°	5365.0	100.0

Coefficient of Utilization



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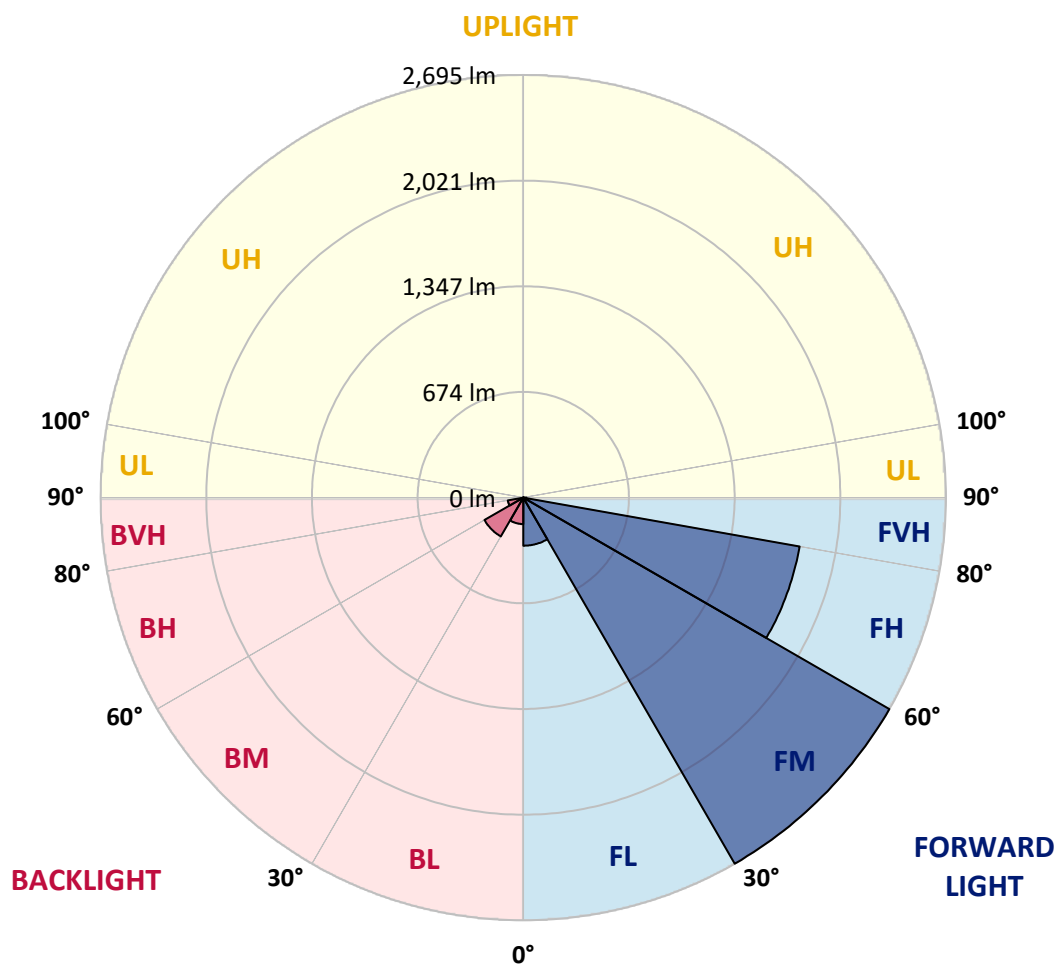
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	306.7	5.7			
FM	(30°-60°)	2694.7	50.2			
FH	(60°-80°)	1789.2	33.3			G1/1800
FVH	(80°-90°)	18.9	0.4			G1/100
BL	(0°-30°)	168.5	3.1	B1/500		
BM	(30°-60°)	285.7	5.3	B1/1000		
BH	(60°-80°)	100.6	1.9	B0/110		G0/110
BVH	(80°-90°)	0.8	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-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6
2.5°	585.7	587.7	589.7	590.5	593.4	596.2	598.2	597.8	601.0	602.7	602.7
5°	562.3	562.3	567.5	572.4	580.4	588.5	596.2	597.8	603.9	609.5	611.5
7.5°	542.5	543.7	547.7	556.6	567.5	581.6	597.0	600.6	611.1	623.7	628.9
10°	533.2	534.0	539.2	548.5	562.3	581.6	603.1	609.9	626.1	645.9	653.1
12.5°	531.2	532.4	537.6	548.1	563.9	587.3	616.4	623.7	647.1	672.5	683.4
15°	534.8	535.6	540.9	552.2	569.5	597.4	634.2	644.3	672.1	701.6	715.8
17.5°	547.7	546.9	550.5	559.8	579.2	609.9	655.6	667.7	700.4	740.8	750.1
20°	602.7	597.4	594.2	586.1	593.8	627.7	681.4	699.2	739.6	780.8	787.2
22.5°	721.0	709.3	686.3	654.8	630.5	651.9	712.5	733.1	785.2	825.6	825.6
25°	871.7	856.7	833.7	765.0	705.7	691.9	747.7	773.5	834.9	875.7	862.4
27.5°	1060.3	1048.6	1003.7	923.8	832.9	761.8	788.5	812.3	878.9	928.2	900.3
30°	1213.8	1208.1	1171.4	1099.9	999.7	895.9	864.4	880.1	937.5	994.5	965.8
32.5°	1343.4	1343.4	1305.9	1239.2	1145.5	1053.4	993.2	1004.6	1059.5	1125.3	1072.0
35°	1486.0	1481.2	1450.9	1387.5	1282.5	1201.3	1176.6	1192.0	1241.7	1290.5	1159.3
37.5°	1635.9	1634.3	1602.8	1541.4	1455.7	1353.5	1295.8	1299.8	1325.3	1355.2	1261.4
40°	1798.7	1801.1	1759.9	1721.9	1641.1	1536.5	1425.8	1400.4	1424.2	1508.6	1450.1
42.5°	1990.9	1985.3	1967.5	1915.8	1850.8	1788.2	1655.3	1646.0	1667.0	1757.5	1694.1
45°	2214.3	2222.4	2191.7	2163.0	2119.4	2067.3	1956.2	1940.0	1963.1	2103.6	2013.6
47.5°	2438.1	2430.4	2450.2	2444.9	2468.4	2429.6	2331.4	2298.3	2353.7	2486.9	2354.5
50°	2608.5	2617.0	2658.2	2718.4	2819.0	2840.8	2746.7	2735.4	2760.0	2845.6	2659.4
52.5°	2719.2	2747.5	2812.1	2966.8	3148.2	3289.1	3217.6	3211.6	3201.5	3224.5	2951.1
55°	2791.5	2820.2	2904.6	3132.4	3444.6	3673.7	3677.3	3651.5	3584.8	3568.2	3223.7
57.5°	2747.1	2752.7	2873.1	3177.7	3609.0	3947.9	4066.7	4040.8	3917.6	3855.0	3464.4
60°	2469.2	2480.9	2648.5	3006.4	3537.6	4037.6	4324.8	4313.1	4178.2	4107.5	3651.9
62.5°	1976.8	2010.7	2183.2	2582.3	3205.1	3886.5	4429.4	4462.5	4357.5	4260.2	3710.8
63°	1886.3	1875.4	2057.6	2458.7	3117.1	3811.8	4431.0	4473.0	4365.6	4274.7	3694.7
65°	1396.4	1429.1	1547.4	1938.8	2594.0	3464.0	4331.3	4405.6	4335.7	4210.5	3515.7
67.5°	784.0	782.4	913.3	1268.7	1815.6	2717.2	3916.4	4073.6	4059.0	3778.3	2914.3
70°	383.7	389.8	443.5	657.6	1053.0	1874.6	3254.4	3424.0	3429.3	2967.6	2015.2
72.5°	173.7	176.5	214.9	320.3	541.3	998.1	2242.6	2404.5	2374.7	1891.2	1112.8
75°	91.7	97.7	118.3	161.2	260.9	411.6	1219.8	1376.6	1314.0	864.0	409.6
77.5°	67.9	69.9	80.4	102.6	139.8	160.4	526.3	626.1	586.5	312.6	135.7
80°	49.7	51.3	59.8	72.7	88.1	81.6	198.3	227.4	204.0	106.2	41.6
82.5°	30.3	30.7	43.6	54.1	55.3	45.6	65.4	70.3	73.5	59.8	22.6
85°	10.9	13.7	29.5	39.2	32.7	23.0	27.5	30.3	33.1	38.0	13.3
87.5°	1.2	1.6	14.1	19.0	9.3	8.5	10.1	11.3	12.1	14.1	6.5
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°	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6
2.5°	604.3	605.9	604.7	602.7	602.2	601.0	598.6	598.6	598.6	599.4	598.6
5°	613.2	614.4	611.5	607.5	603.1	597.4	591.3	587.7	587.3	586.5	584.5
7.5°	630.1	631.7	625.3	615.6	603.5	589.7	576.8	564.7	559.0	554.6	554.6
10°	654.8	656.4	643.4	626.1	601.8	574.0	543.3	515.4	493.6	483.5	481.1
12.5°	684.2	685.1	663.6	633.4	593.4	539.6	474.2	413.2	370.8	351.4	349.4
15°	716.6	710.9	682.6	636.2	569.1	469.0	355.9	281.1	237.1	224.2	229.0
17.5°	749.3	738.8	697.2	631.7	514.6	355.9	239.1	191.9	178.1	174.5	174.5
20°	780.0	765.4	707.7	612.3	420.1	245.2	177.3	166.0	163.6	161.2	161.6
22.5°	810.7	788.5	717.0	569.1	313.0	175.3	158.7	155.1	151.9	148.6	148.2
25°	840.6	809.9	720.6	489.1	213.3	150.7	145.0	140.2	133.7	130.1	129.3
27.5°	871.7	835.7	718.2	388.2	155.5	134.9	129.3	122.4	114.7	108.3	108.3
30°	931.4	885.0	709.7	279.1	130.9	118.8	111.5	100.6	92.1	85.6	85.2
32.5°	1013.0	949.2	680.6	196.3	116.3	104.6	93.7	81.6	72.7	67.9	67.9
35°	1085.7	1013.8	626.1	144.6	104.6	90.9	77.6	65.8	59.0	55.7	54.5
37.5°	1196.4	1108.4	551.0	117.5	93.3	78.8	65.0	54.1	48.5	46.0	46.0
40°	1362.4	1223.9	458.9	103.0	82.4	67.1	54.1	45.6	41.2	38.4	38.4
42.5°	1568.4	1365.3	365.5	92.5	72.3	57.8	45.2	38.8	34.7	32.7	32.3
45°	1827.7	1514.3	281.5	82.8	64.2	49.3	38.4	32.7	28.7	27.5	27.9
47.5°	2098.4	1645.6	218.1	74.3	55.7	41.6	32.7	28.3	25.4	23.8	23.8
50°	2329.4	1736.1	165.6	64.6	49.3	35.1	28.7	25.4	23.0	22.2	21.8
52.5°	2522.5	1762.3	126.8	56.1	43.2	30.3	25.4	23.0	21.0	19.8	19.8
55°	2686.9	1739.3	99.4	47.3	36.4	26.3	22.6	20.6	18.2	17.0	16.6
57.5°	2783.0	1665.4	75.9	39.2	29.5	21.8	19.8	17.4	14.5	12.5	12.5
60°	2831.5	1557.9	58.2	32.3	22.6	17.4	16.2	12.9	10.1	8.5	8.1
62.5°	2773.3	1415.3	44.0	25.4	17.0	12.9	10.9	9.3	6.5	4.8	4.8
63°	2737.4	1374.1	42.4	24.2	15.8	12.1	10.1	8.5	5.7	4.4	4.0
65°	2495.4	1194.4	34.7	19.4	12.5	8.5	6.9	6.1	4.0	2.0	1.6
67.5°	1981.6	913.7	27.5	14.5	8.9	6.1	4.0	3.6	1.2	0.0	0.0
70°	1339.8	590.1	21.4	10.5	6.1	3.6	2.0	1.6	0.4	0.0	0.0
72.5°	698.8	302.5	16.6	7.7	3.6	2.4	1.2	0.4	0.0	0.0	0.0
75°	247.2	103.0	12.1	4.8	2.4	1.2	0.4	0.0	0.0	0.0	0.0
77.5°	74.7	38.4	7.7	3.6	1.6	0.8	0.0	0.0	0.0	0.0	0.0
80°	26.3	14.1	4.4	2.4	1.2	0.4	0.0	0.0	0.0	0.0	0.0
82.5°	12.9	6.9	2.8	2.0	1.2	0.4	0.0	0.0	0.0	0.0	0.0
85°	7.3	4.4	2.4	2.0	1.2	0.8	0.0	0.0	0.0	0.0	0.0
87.5°	5.3	3.2	2.4	2.0	1.6	0.8	0.4	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)