

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: P947027

Luminaire Tested: **GALN-SB2C-730-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947027
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2C-730-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12681 lumens
Efficiency: N/A
Efficacy: 125.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 100.9
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

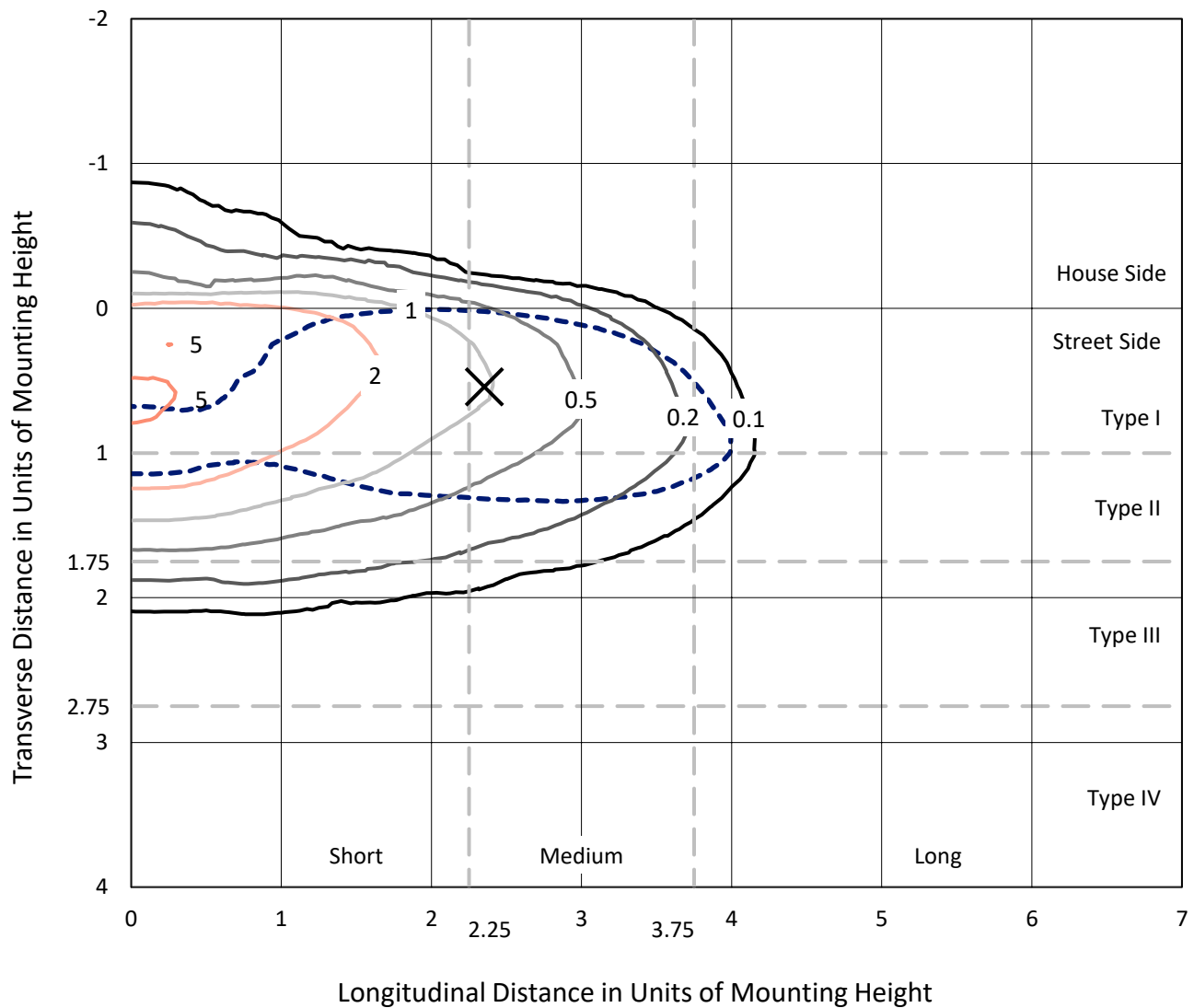


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Iso-Footcandle Lines of Horizontal Illumination

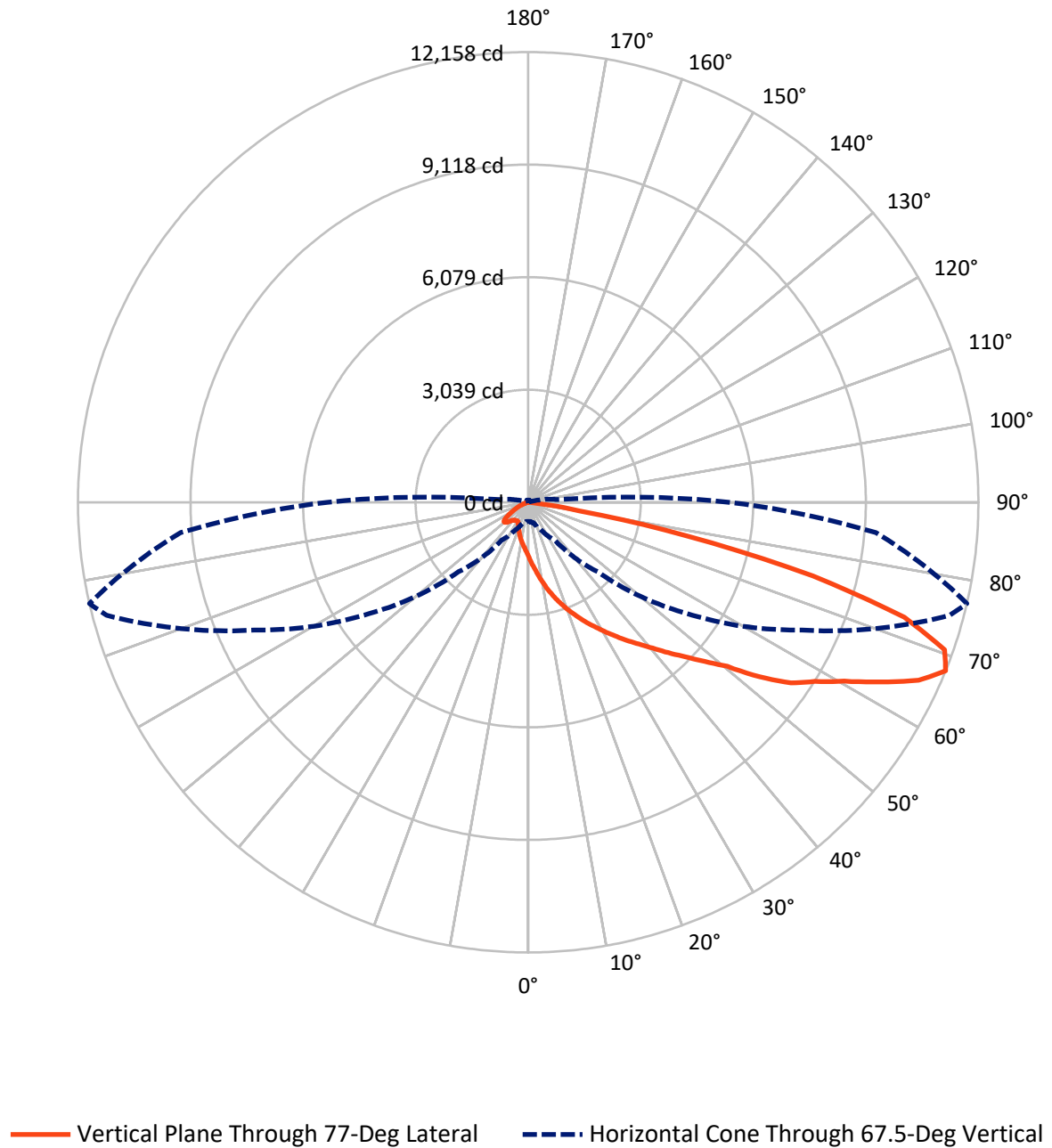
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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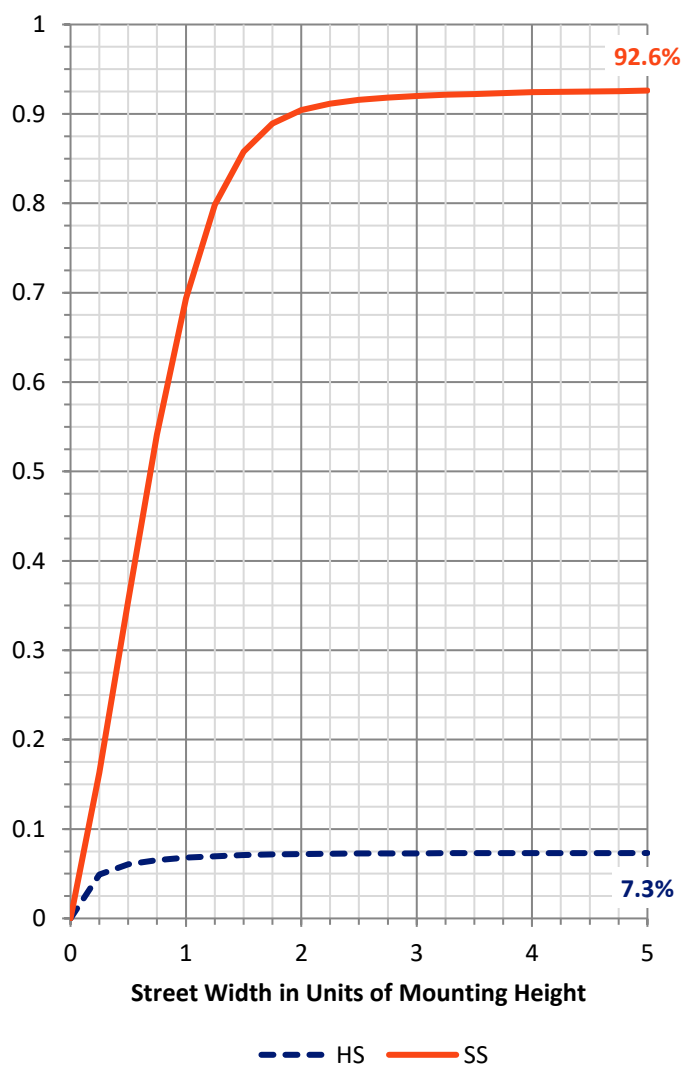
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	932.9	0.0	932.9
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	11748.1	0.0	11748.1
	% Fixture	92.6	0.0	92.6
Total	Lumens	12681.0	0.0	12681.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.3	1.2
10°-20°	522.7	4.1
20°-30°	1008.6	8.0
30°-40°	1751.0	13.8
40°-50°	2542.3	20.0
50°-60°	2919.5	23.0
60°-70°	2534.7	20.0
70°-80°	1193.9	9.4
80°-90°	59.0	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°	12681.0	100.0
0°-180°	12681.0	100.0

Coefficient of Utilization



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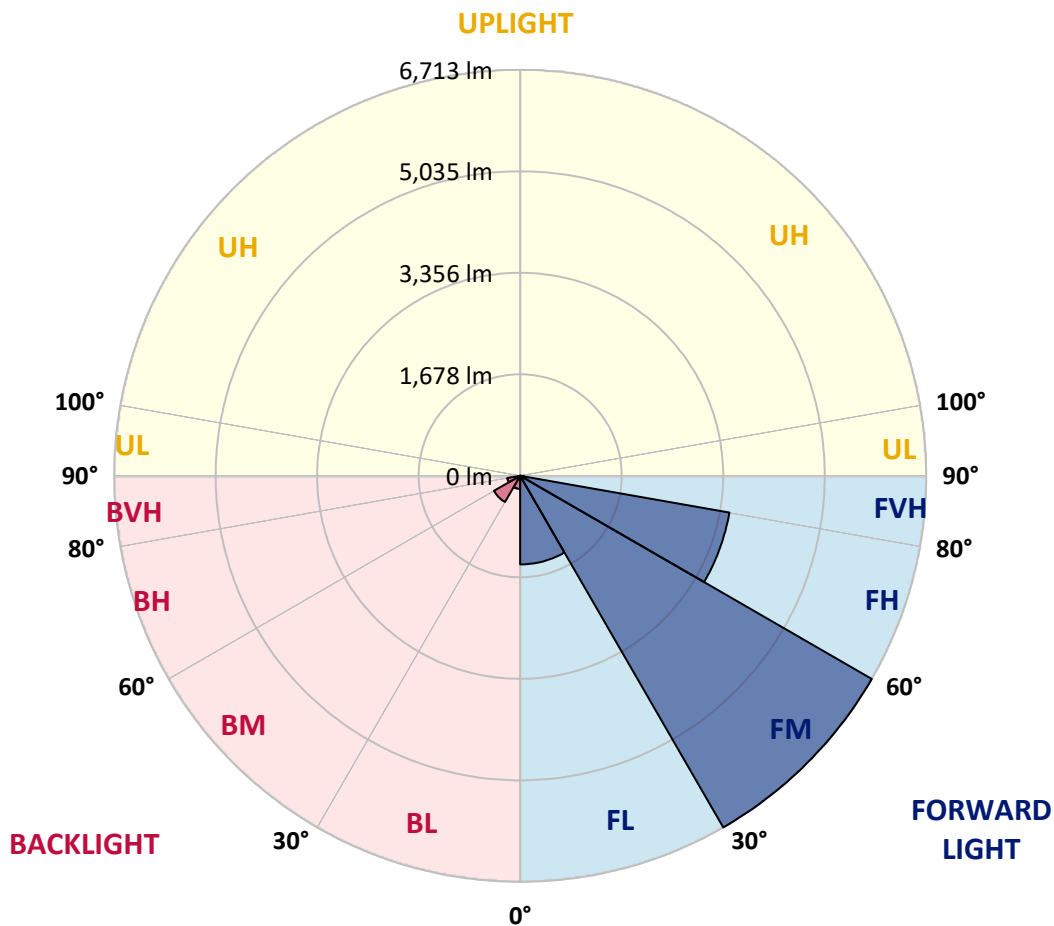
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1464.5	11.5			
FM	(30°-60°)	6713.0	52.9			
FH	(60°-80°)	3512.6	27.7			G2/5000
FVH	(80°-90°)	58.0	0.5			G1/100
BL	(0°-30°)	216.0	1.7	B1/500		
BM	(30°-60°)	499.9	3.9	B1/1000		
BH	(60°-80°)	216.0	1.7	B1/500		G1/500
BVH	(80°-90°)	1.1	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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3
2.5°	2024.5	2037.1	2019.0	1984.4	1932.4	1898.6	1815.9	1737.9	1651.3	1623.7	1537.1
5°	2467.9	2478.9	2458.4	2420.6	2351.3	2285.2	2176.5	2013.5	1844.2	1789.9	1636.3
7.5°	2796.3	2802.6	2794.7	2760.0	2693.9	2619.1	2497.8	2304.9	2053.7	1993.8	1758.4
10°	3032.5	3053.0	3050.6	3037.2	2993.1	2932.5	2803.3	2583.6	2288.3	2211.2	1896.2
12.5°	3189.2	3212.0	3225.4	3255.3	3253.0	3214.4	3101.0	2868.7	2522.2	2431.7	2051.3
15°	3234.9	3259.3	3310.5	3379.8	3441.2	3460.9	3381.3	3148.2	2779.7	2664.0	2210.4
17.5°	3208.9	3246.7	3308.1	3417.6	3552.2	3641.2	3632.5	3418.3	3013.6	2881.3	2366.3
20°	3266.4	3302.6	3350.6	3442.8	3599.5	3760.9	3825.5	3676.6	3245.9	3107.3	2530.1
22.5°	3584.5	3578.2	3582.9	3597.9	3691.6	3851.4	3984.5	3911.3	3475.8	3334.1	2703.3
25°	4088.5	4060.1	4012.1	3931.0	3907.4	3984.5	4123.1	4119.2	3718.4	3566.4	2880.5
27.5°	4666.5	4661.7	4549.1	4353.8	4243.6	4213.7	4279.8	4321.6	3958.5	3796.3	3058.5
30°	5220.0	5232.6	5080.7	4863.3	4661.0	4543.6	4483.8	4513.7	4202.7	4044.4	3242.0
32.5°	5702.0	5715.4	5550.0	5295.6	5045.2	4903.5	4777.5	4703.5	4468.8	4296.4	3443.5
35°	6109.1	6122.5	5932.7	5651.6	5384.6	5256.3	5113.7	4911.4	4736.5	4575.9	3668.0
37.5°	6472.9	6469.0	6214.6	5931.1	5668.9	5567.3	5492.5	5167.3	5012.2	4857.0	3916.8
40°	6687.9	6704.4	6487.1	6174.4	5920.1	5846.1	5841.3	5484.6	5330.3	5179.9	4189.3
42.5°	6750.9	6780.0	6622.5	6365.8	6135.1	6054.7	6178.4	5828.0	5700.4	5553.9	4497.2
45°	6637.5	6665.8	6594.2	6416.2	6281.5	6229.6	6468.2	6183.9	6095.7	5950.8	4844.4
47.5°	6306.7	6342.2	6359.5	6321.7	6320.1	6372.9	6728.0	6558.7	6565.0	6417.0	5246.8
50°	5666.5	5726.4	5885.4	6019.3	6226.4	6486.3	6980.8	6965.0	7094.2	6966.6	5771.3
52.5°	4502.7	4587.7	5135.8	5502.0	5967.3	6465.0	7258.8	7617.1	8022.6	7836.0	6510.7
55°	3618.4	3618.4	4064.1	4749.1	5461.8	6324.8	7380.0	8040.7	8654.9	8610.8	7031.2
57.5°	2949.8	2985.2	3269.5	3875.1	4730.2	5991.0	7454.8	8306.9	9164.4	9132.1	7539.9
60°	1820.6	1897.0	2434.0	3031.7	3897.9	5396.4	7407.6	8576.2	9782.6	9808.6	8152.5
62.5°	1025.3	1053.6	1293.0	2181.3	3030.9	4597.2	7046.2	8726.6	10573.2	10683.4	8784.1
65°	707.9	722.1	814.2	1357.6	2100.9	3660.1	6339.8	8632.9	11365.4	11588.2	9319.5
67.5°	514.2	521.3	578.8	829.2	1246.5	2653.7	5232.6	8160.4	11785.1	12157.5	9421.9
70°	395.3	400.0	441.8	544.9	736.3	1637.9	3800.3	7221.0	11481.1	11926.0	8897.5
72.5°	321.3	326.0	358.3	403.2	488.2	968.6	2303.3	5864.2	10139.3	10619.6	7574.5
75°	270.9	277.2	306.3	335.5	382.7	622.1	1080.4	4083.7	7624.9	7939.9	5267.3
77.5°	150.4	138.6	248.8	278.0	322.9	393.7	505.5	2403.3	4270.4	4357.8	2337.2
80°	93.7	96.9	197.7	223.6	248.0	198.4	231.5	925.3	1480.4	1406.4	452.8
82.5°	5.5	12.6	152.0	161.4	170.1	85.0	87.4	314.2	356.7	327.6	80.3
85°	0.0	0.0	69.3	55.9	59.1	24.4	25.2	73.2	48.0	52.0	15.7
87.5°	0.0	0.0	0.0	1.6	0.0	2.4	4.7	6.3	2.4	3.1	5.5
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°	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3	1462.3
2.5°	1482.0	1426.9	1315.1	1205.6	1116.6	1033.9	974.9	919.0	890.6	889.0	887.5
5°	1526.9	1411.1	1187.5	989.8	830.8	703.2	620.5	561.5	531.5	521.3	519.7
7.5°	1589.9	1415.8	1075.7	800.8	613.4	504.0	456.7	437.8	431.5	424.4	422.9
10°	1669.4	1426.9	975.7	644.9	483.5	428.4	409.5	401.6	396.9	392.2	390.6
12.5°	1758.4	1437.1	876.4	535.5	425.2	396.9	383.5	374.0	367.7	362.2	360.7
15°	1845.0	1443.4	773.3	459.1	395.3	372.5	358.3	348.1	339.4	333.1	332.3
17.5°	1930.8	1452.1	676.4	413.4	370.9	348.1	333.9	321.3	314.2	307.1	306.3
20°	2026.1	1450.5	585.1	381.1	346.5	323.6	308.7	296.9	289.8	281.9	281.1
22.5°	2114.3	1442.6	504.8	353.6	321.3	299.2	282.7	270.9	263.8	257.5	256.7
25°	2215.9	1436.3	437.8	328.4	297.7	275.6	257.5	246.5	238.6	233.1	232.3
27.5°	2313.5	1426.9	389.0	305.5	274.8	253.6	236.2	223.6	216.6	212.6	212.6
30°	2409.6	1424.5	370.9	283.5	254.3	233.1	215.8	204.0	198.4	196.9	196.1
32.5°	2525.4	1430.8	378.8	275.6	235.4	214.2	197.7	189.0	183.5	183.5	183.5
35°	2649.0	1429.2	390.6	282.7	222.9	195.3	182.7	177.2	171.7	171.7	171.7
37.5°	2804.1	1431.6	400.0	294.5	218.1	179.5	172.5	165.4	162.2	162.2	162.2
40°	3035.6	1509.6	395.3	304.7	216.6	168.5	154.3	152.0	149.6	149.6	149.6
42.5°	3319.1	1678.9	401.6	305.5	215.8	160.6	141.7	146.5	141.0	140.2	139.4
45°	3629.4	1863.9	441.8	289.0	215.0	156.7	135.4	141.0	132.3	132.3	132.3
47.5°	3937.3	2047.4	482.7	265.4	212.6	155.9	129.9	126.8	124.4	125.2	125.2
50°	4361.7	2197.0	498.5	233.1	207.1	154.3	119.7	120.5	118.9	120.5	120.5
52.5°	4824.0	2228.5	479.6	196.9	191.4	149.6	112.6	115.8	115.0	116.5	116.5
55°	5112.2	2194.6	396.1	163.8	166.9	130.7	105.5	111.8	111.8	111.8	111.8
57.5°	5409.8	2050.5	281.1	133.1	138.6	107.1	99.2	107.9	107.1	106.3	106.3
60°	5624.0	1817.4	185.1	109.5	110.2	88.2	92.1	101.6	100.8	96.9	96.9
62.5°	5783.9	1560.0	118.9	92.9	84.3	79.5	84.3	92.1	89.0	80.3	78.7
65°	5765.8	1203.2	91.3	79.5	69.3	69.3	73.2	80.3	70.9	56.7	55.1
67.5°	5429.5	814.2	75.6	66.9	58.3	57.5	60.6	66.9	60.6	48.0	46.5
70°	4828.7	532.3	60.6	52.0	46.5	42.5	48.8	57.5	51.2	38.6	37.0
72.5°	3919.2	324.4	45.7	37.8	33.9	27.6	38.6	47.2	40.9	28.3	26.8
75°	2535.6	165.4	31.5	24.4	18.1	16.5	28.3	35.4	28.3	17.3	15.0
77.5°	970.1	69.3	17.3	11.0	9.4	7.9	15.7	21.3	11.8	3.9	3.1
80°	186.6	29.1	8.7	5.5	4.7	3.1	2.4	1.6	0.0	0.0	0.0
82.5°	32.3	9.4	3.1	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.9	0.0	0.0	0.0	0.0	0.0	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)