

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: P941624

Luminaire Tested: **GALN-SB5B-730-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941624
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5B-730-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20771 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 182.7
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

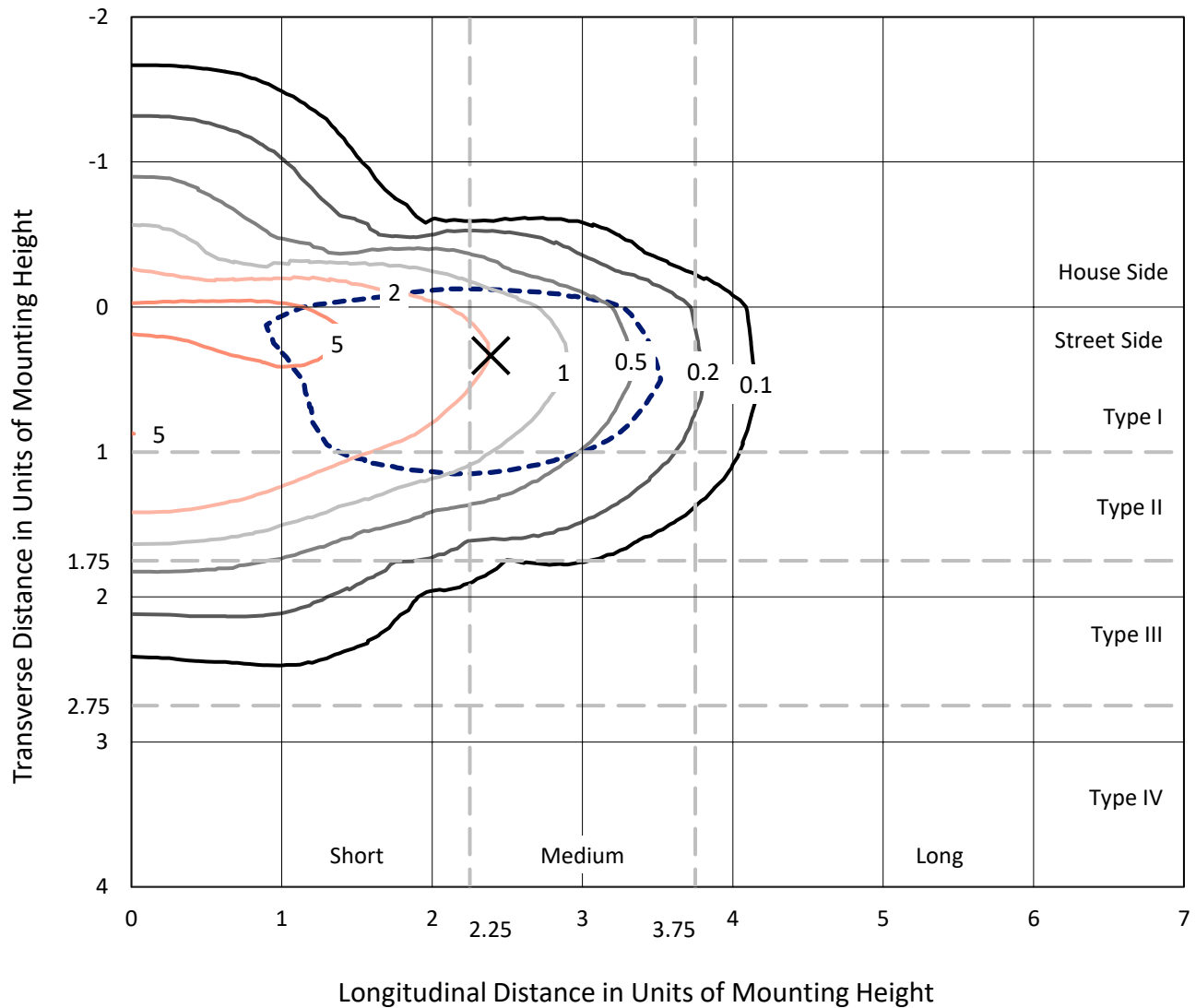


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

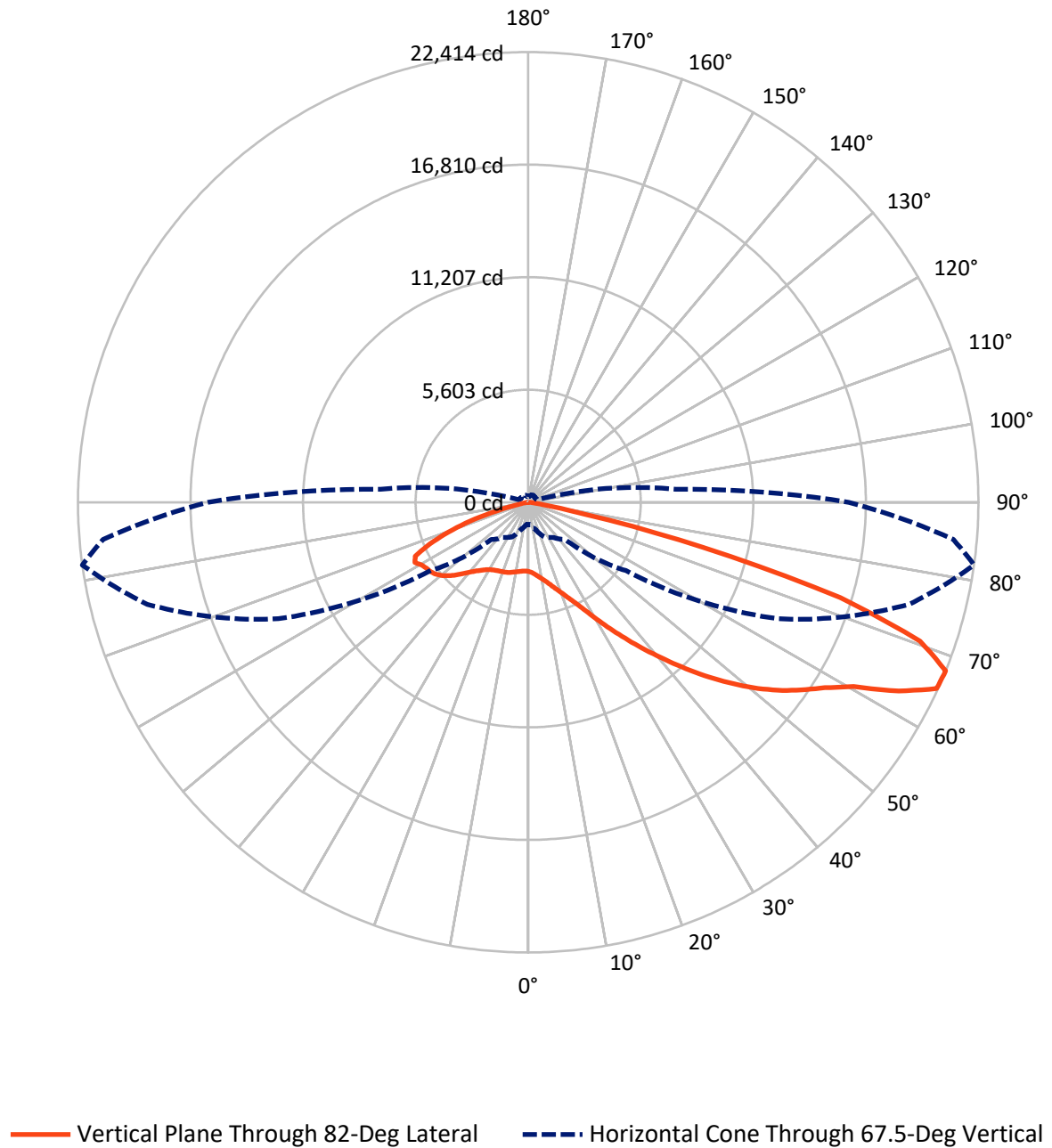


Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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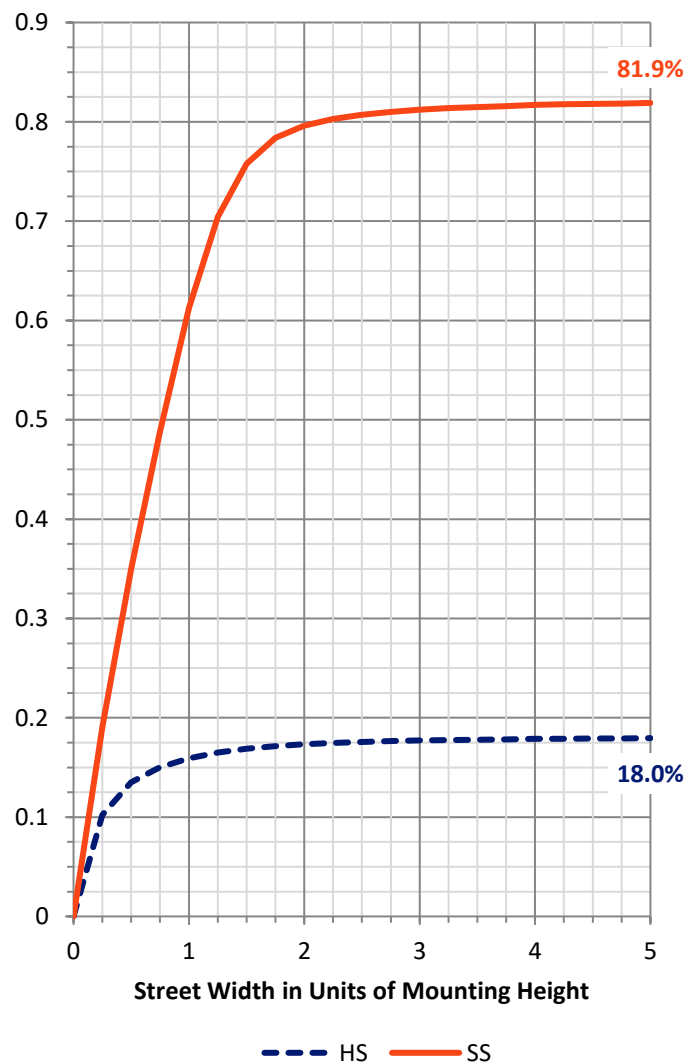
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3762.5	0.0	3762.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	17008.5	0.0	17008.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	20771.0	0.0	20771.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.6	1.5
10°-20°	796.7	3.8
20°-30°	1276.0	6.1
30°-40°	2256.3	10.9
40°-50°	3953.3	19.0
50°-60°	5272.6	25.4
60°-70°	4908.6	23.6
70°-80°	1883.9	9.1
80°-90°	117.0	0.6
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°	20771.0	100.0
0°-180°	20771.0	100.0

Coefficient of Utilization



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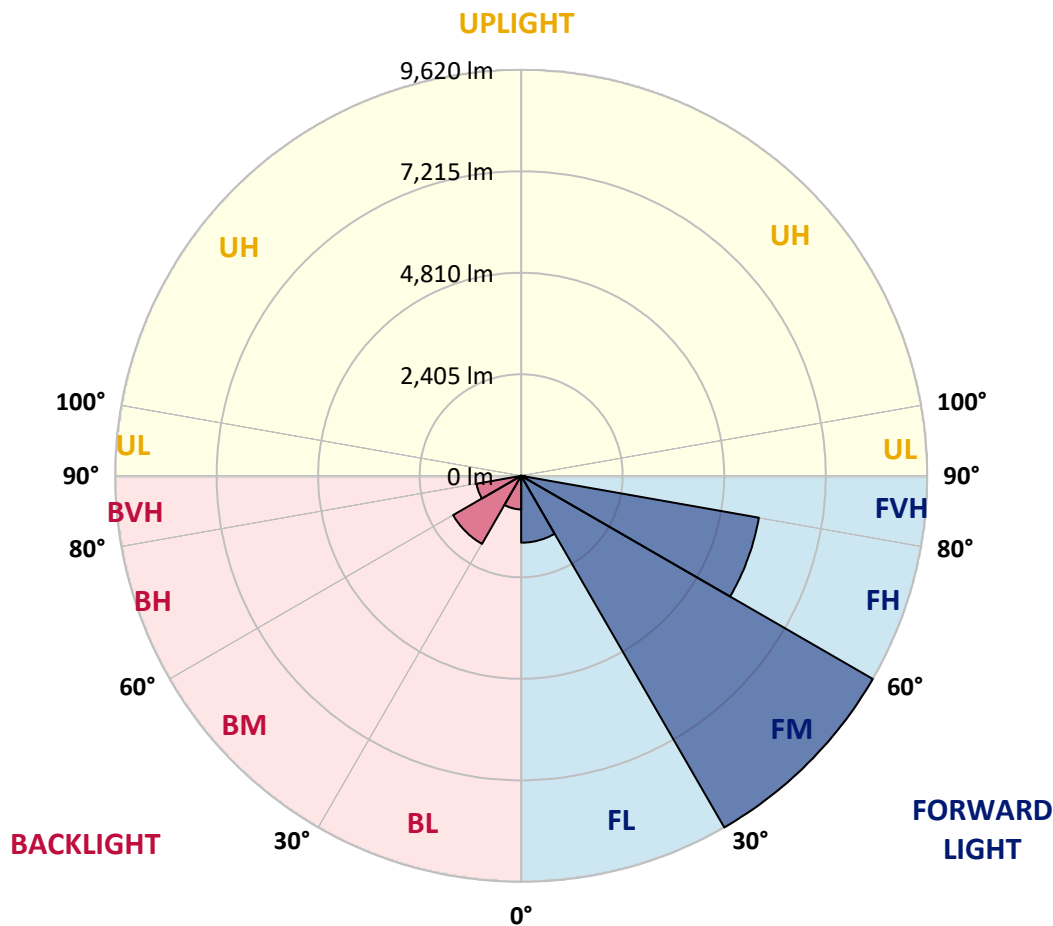
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1584.6	7.6			
FM	(30°-60°)	9620.3	46.3			
FH	(60°-80°)	5718.6	27.5			G3/7500
FVH	(80°-90°)	85.1	0.4			G1/100
BL	(0°-30°)	794.6	3.8	B2/1000		
BM	(30°-60°)	1862.0	9.0	B2/2500		
BH	(60°-80°)	1073.9	5.2	B3/2500		G3/2500
BVH	(80°-90°)	31.9	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	3441.1	3441.1	3441.1	3441.1	3441.1	3441.1	3441.1	3441.1	3441.1	3441.1	3441.1
2.5°	3637.0	3657.9	3645.9	3639.9	3629.5	3614.5	3602.6	3565.2	3526.3	3500.9	3491.9
5°	3710.2	3731.2	3729.7	3735.7	3743.1	3747.6	3744.6	3702.8	3647.4	3604.1	3578.6
7.5°	3647.4	3671.4	3690.8	3720.7	3773.0	3828.4	3855.3	3846.3	3789.5	3729.7	3698.3
10°	3469.5	3494.9	3541.2	3611.5	3722.2	3841.8	3942.0	3988.4	3952.5	3886.7	3843.3
12.5°	3143.5	3168.9	3260.1	3412.6	3598.1	3805.9	3997.4	4121.5	4130.5	4064.7	4013.8
15°	2777.1	2802.5	2899.7	3091.1	3373.8	3707.2	4027.3	4262.1	4341.3	4284.5	4223.2
17.5°	2549.8	2572.2	2645.5	2799.5	3094.1	3509.8	4016.8	4411.6	4592.6	4547.7	4474.4
20°	2481.0	2500.4	2534.8	2642.5	2887.7	3305.0	3948.0	4552.2	4863.2	4837.8	4755.6
22.5°	2554.2	2572.2	2582.7	2630.5	2784.5	3170.4	3861.3	4695.7	5177.3	5180.3	5080.1
25°	2723.2	2741.2	2729.2	2759.1	2826.4	3128.5	3828.4	4864.7	5572.1	5605.0	5491.3
27.5°	3001.4	3002.9	2974.5	2973.0	2983.4	3191.3	3862.8	5045.7	6070.1	6131.4	5990.8
30°	3559.2	3536.8	3427.6	3309.5	3255.6	3379.7	3958.5	5259.5	6657.8	6767.0	6590.5
32.5°	4419.1	4386.2	4185.8	3903.1	3619.0	3683.3	4130.5	5503.3	7297.8	7495.2	7279.9
35°	5352.2	5343.3	5133.9	4713.7	4217.2	4115.5	4410.1	5823.3	7996.2	8310.3	8054.5
37.5°	6219.6	6215.1	6095.5	5600.5	4996.3	4718.2	4858.7	6242.0	8744.0	9198.6	8896.5
40°	7012.2	7025.7	6906.0	6463.4	5854.7	5491.3	5468.9	6759.5	9575.4	10166.1	9807.2
42.5°	7697.1	7712.1	7591.0	7263.4	6702.6	6346.7	6218.1	7393.6	10387.5	11205.5	10780.8
45°	8162.2	8254.9	8237.0	7975.3	7573.0	7203.6	7118.4	8189.1	11313.1	12307.6	11809.6
47.5°	8293.8	8379.1	8513.6	8549.5	8304.3	7940.9	8042.6	9147.7	12249.3	13411.3	12844.5
50°	7969.3	8048.6	8328.2	8700.6	8871.1	8758.9	8941.4	10175.1	13207.9	14511.9	13859.9
52.5°	7329.2	7410.0	7762.9	8352.1	9047.5	9400.5	9843.1	11187.5	14136.6	15554.3	14821.5
55°	6403.6	6488.8	6941.9	7608.9	8711.1	9665.2	10595.3	12198.5	14987.5	16491.9	15688.9
57.5°	5144.4	5207.2	5678.3	6611.4	7864.6	9402.0	11150.1	13302.1	15789.1	17413.1	16548.8
60°	3352.8	3408.2	3955.5	4996.3	6461.9	8522.6	11260.8	14532.9	16853.8	18611.0	17707.7
62.5°	2229.7	2267.1	2591.6	3355.8	4550.7	6834.2	10613.3	15515.4	18415.1	20695.7	19695.2
65°	1529.9	1567.2	1891.8	2424.1	2940.1	4520.8	8751.4	15385.3	19829.8	22351.1	21168.2
67.5°	1091.7	1123.1	1398.3	1900.7	2128.0	2626.0	5932.5	13722.3	19626.4	22413.9	21247.5
70°	782.1	800.1	1027.4	1480.5	1691.4	1577.7	3299.0	10495.1	17184.3	20697.2	19629.4
72.5°	547.3	553.3	713.3	1127.6	1362.4	1151.5	1570.2	6997.3	12997.0	16245.2	15217.8
75°	370.9	378.4	480.0	827.0	1093.2	879.3	831.5	3752.1	7629.8	8992.2	8060.5
77.5°	227.3	230.3	309.6	565.3	818.0	670.0	535.4	1589.7	2952.0	2898.2	2470.5
80°	128.6	128.6	197.4	351.4	557.8	432.2	375.4	675.9	934.7	821.0	723.8
82.5°	71.8	73.3	143.6	218.3	369.4	255.7	206.4	312.6	403.8	357.4	311.1
85°	29.9	32.9	88.2	103.2	176.5	127.1	83.7	131.6	149.5	133.1	97.2
87.5°	3.0	4.5	26.9	19.4	20.9	25.4	12.0	25.4	20.9	20.9	15.0
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°	3441.1	3441.1	3441.1	3441.1	3441.1	3441.1	3441.1	3441.1	3441.1	3441.1	3441.1
2.5°	3463.5	3441.1	3384.2	3318.4	3231.7	3189.8	3133.0	3094.1	3061.2	3064.2	3034.3
5°	3530.8	3474.0	3346.8	3188.3	2990.9	2850.3	2700.8	2597.6	2513.9	2495.9	2455.5
7.5°	3623.5	3533.8	3310.9	3025.3	2691.8	2439.1	2213.3	2068.2	1965.0	1932.1	1899.2
10°	3743.1	3613.0	3264.6	2820.4	2340.4	2018.9	1776.6	1663.0	1592.7	1568.7	1550.8
12.5°	3882.2	3704.3	3203.3	2570.7	1978.5	1668.9	1514.9	1458.1	1435.6	1428.2	1423.7
15°	4057.2	3817.9	3110.6	2274.6	1671.9	1455.1	1389.3	1381.8	1384.8	1381.8	1380.3
17.5°	4265.0	3942.0	2959.5	1969.5	1465.6	1345.9	1322.0	1328.0	1335.4	1333.9	1331.0
20°	4492.4	4064.7	2766.6	1698.8	1325.0	1268.1	1254.7	1260.7	1266.7	1263.7	1262.2
22.5°	4751.1	4196.3	2552.7	1488.0	1230.8	1196.4	1181.4	1182.9	1182.9	1176.9	1173.9
25°	5060.6	4341.3	2328.4	1338.4	1159.0	1132.1	1114.1	1108.1	1099.2	1081.2	1078.2
27.5°	5430.0	4495.4	2113.1	1233.8	1102.2	1076.7	1055.8	1040.8	1018.4	988.5	985.5
30°	5845.8	4682.3	1930.6	1168.0	1057.3	1031.9	1007.9	985.5	952.6	915.2	912.2
32.5°	6334.8	4882.7	1797.5	1124.6	1016.9	990.0	961.6	934.7	898.8	861.4	862.9
35°	6918.0	5124.9	1719.8	1094.7	985.5	949.6	918.2	888.3	861.4	828.5	825.5
37.5°	7550.6	5382.2	1695.9	1079.7	964.6	909.2	873.3	852.4	849.4	830.0	828.5
40°	8243.0	5687.2	1713.8	1070.7	942.1	870.4	831.5	827.0	834.5	800.1	801.6
42.5°	8975.7	6049.1	1743.7	1060.3	910.7	831.5	794.1	794.1	788.1	740.3	740.3
45°	9768.3	6466.4	1773.6	1034.9	873.3	792.6	764.2	753.7	728.3	681.9	680.4
47.5°	10566.9	6891.1	1796.0	988.5	828.5	759.7	734.3	710.3	673.0	631.1	629.6
50°	11325.1	7272.4	1772.1	919.7	777.6	728.3	701.4	668.5	628.1	599.7	595.2
52.5°	12002.6	7602.9	1670.4	839.0	723.8	695.4	671.5	637.1	604.2	574.3	571.3
55°	12591.8	7870.6	1491.0	762.7	675.9	667.0	643.0	599.7	554.8	529.4	526.4
57.5°	13157.1	8074.0	1266.7	699.9	632.6	635.6	599.7	560.8	518.9	492.0	489.0
60°	13909.3	8346.2	1039.3	641.6	586.2	595.2	556.3	527.9	475.6	441.2	436.7
62.5°	15111.6	8769.4	825.5	569.8	532.4	535.4	518.9	484.5	421.7	381.3	378.4
65°	16065.7	8613.8	650.5	492.0	471.1	475.6	475.6	438.2	370.9	324.5	320.0
67.5°	15958.0	7375.6	518.9	415.7	412.7	415.7	426.2	394.8	329.0	291.6	285.6
70°	14700.4	5866.7	415.7	345.5	358.9	351.4	381.3	360.4	296.1	258.7	254.2
72.5°	11995.1	4226.2	317.0	285.6	275.2	287.1	344.0	324.5	246.8	204.9	200.4
75°	7009.2	2255.2	236.3	225.8	198.9	239.3	305.1	276.7	188.4	151.0	146.6
77.5°	2282.1	786.6	173.5	166.0	148.1	192.9	260.2	233.3	154.0	119.6	115.2
80°	611.6	237.8	118.1	109.2	95.7	143.6	206.4	185.4	110.7	77.8	76.3
82.5°	245.3	100.2	68.8	61.3	52.3	98.7	163.0	149.5	82.3	49.4	49.4
85°	79.3	32.9	25.4	19.4	23.9	61.3	97.2	101.7	58.3	25.4	19.4
87.5°	10.5	4.5	4.5	6.0	4.5	10.5	29.9	28.4	16.5	3.0	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)