

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: P951296

Luminaire Tested: **GALN-SB5C-727-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951296
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5C-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27029 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 249.5
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

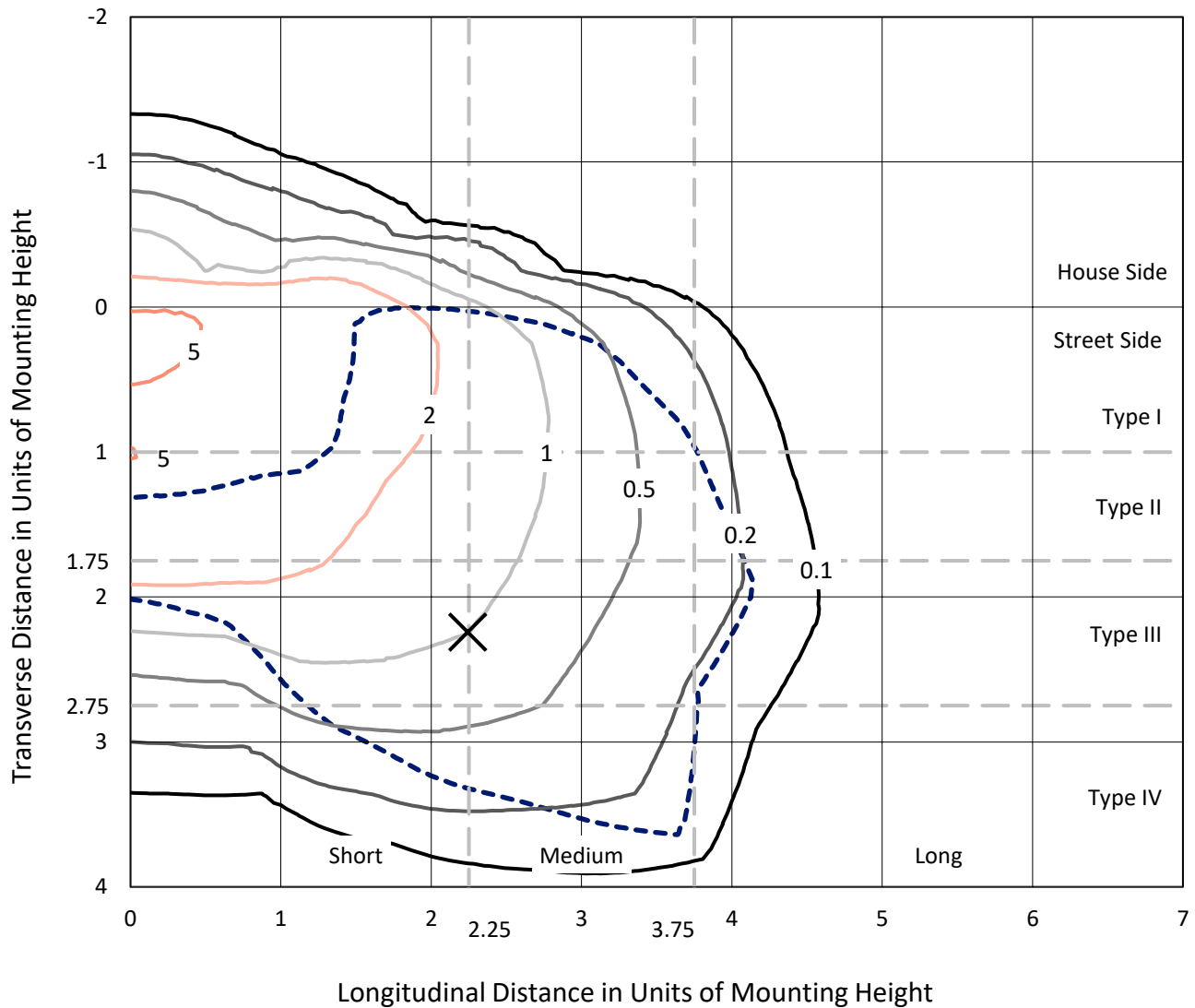


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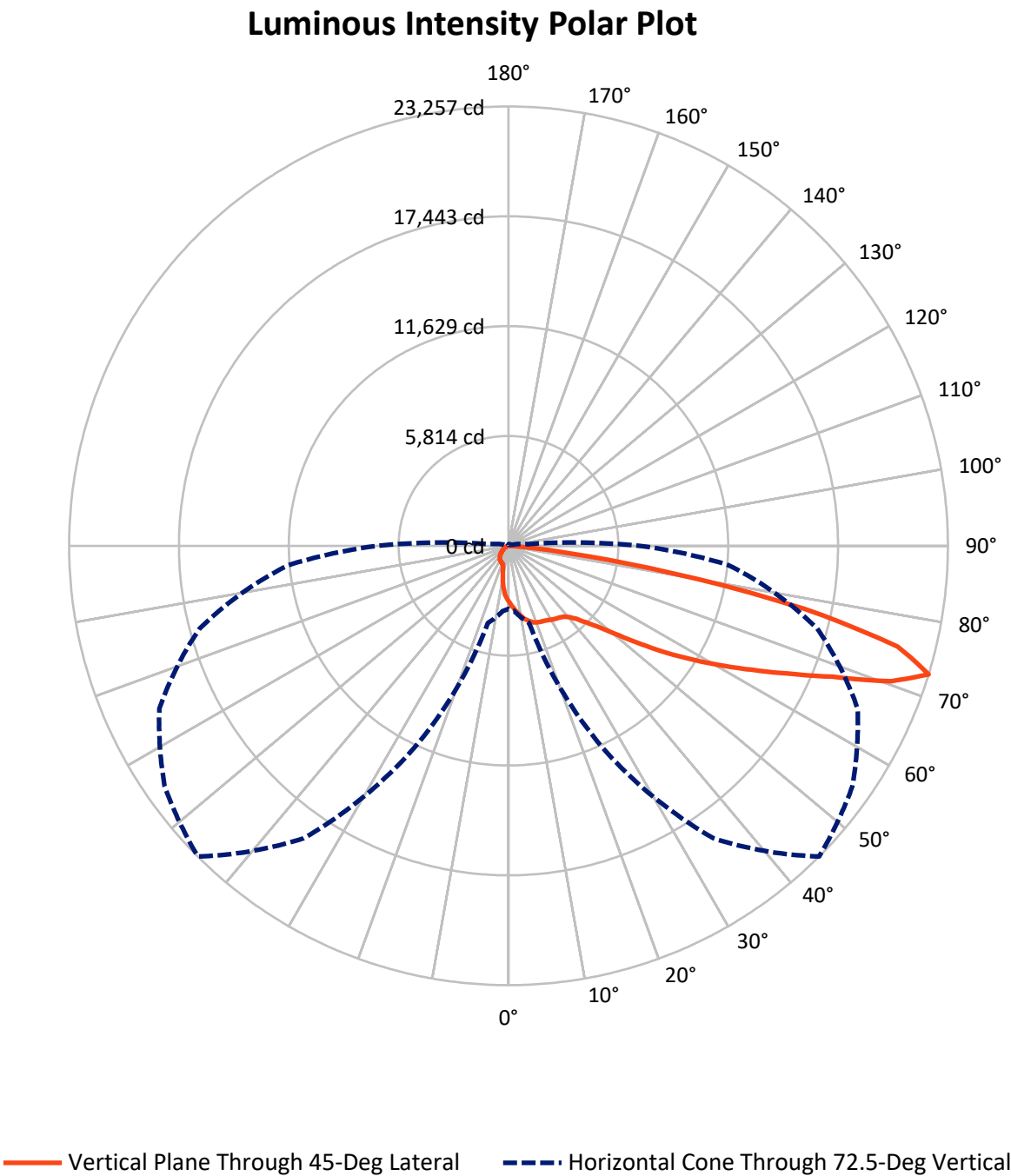
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
Type IV - Short - N/A

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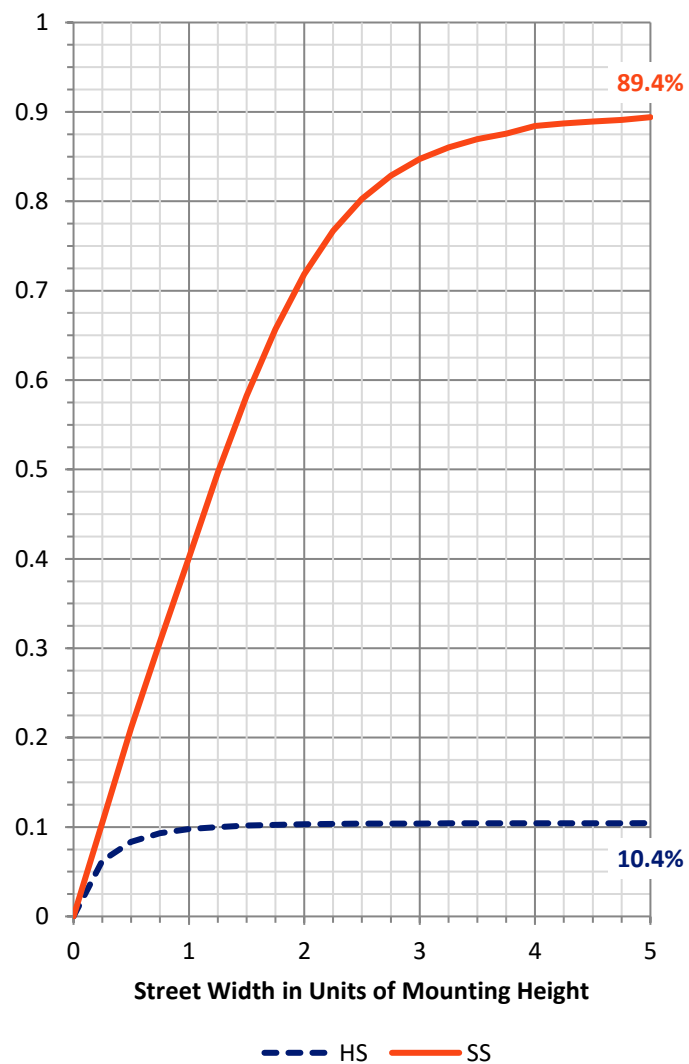
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2840.0	0.0	2840.0
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	24189.0	0.0	24189.0
	% Fixture	89.5	0.0	89.5
Total	Lumens	27029.0	0.0	27029.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.0	1.0
10°-20°	815.4	3.0
20°-30°	1339.0	5.0
30°-40°	1899.0	7.0
40°-50°	3138.8	11.6
50°-60°	5638.6	20.9
60°-70°	7829.4	29.0
70°-80°	5679.2	21.0
80°-90°	410.6	1.5
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°	27029.0	100.0
0°-180°	27029.0	100.0

Coefficient of Utilization



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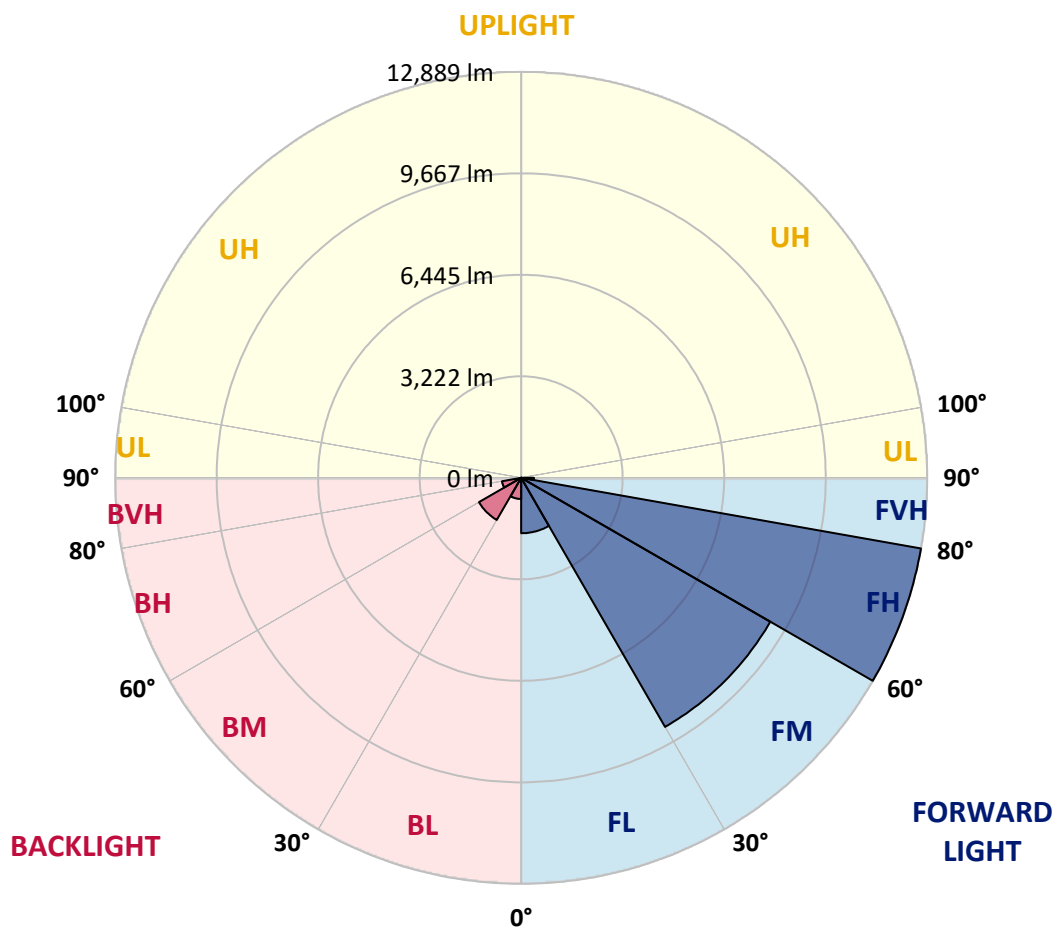
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1760.7	6.5			
FM	(30°-60°)	9131.8	33.8			
FH	(60°-80°)	12889.4	47.7			G5
FVH	(80°-90°)	407.1	1.5			G3/500
BL	(0°-30°)	672.7	2.5	B2/1000		
BM	(30°-60°)	1544.6	5.7	B2/2500		
BH	(60°-80°)	619.3	2.3	B2/1000		G2/1000
BVH	(80°-90°)	3.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2961.1	2961.1	2961.1	2961.1	2961.1	2961.1	2961.1	2961.1	2961.1	2961.1	2961.1
2.5°	3234.1	3239.7	3236.0	3213.8	3176.9	3156.6	3145.6	3108.7	3084.7	3042.3	2998.0
5°	3531.2	3553.3	3540.4	3496.1	3426.0	3376.2	3361.4	3285.8	3217.5	3138.2	3046.0
7.5°	3846.6	3857.7	3833.7	3776.5	3682.4	3597.6	3584.7	3479.5	3370.7	3248.9	3123.4
10°	4119.7	4132.6	4095.7	4012.7	3905.7	3800.5	3782.1	3665.8	3536.7	3387.3	3226.8
12.5°	4348.5	4361.4	4313.4	4213.8	4095.7	3986.9	3968.4	3846.6	3704.6	3538.5	3339.3
15°	4521.9	4545.9	4481.3	4374.3	4247.0	4138.1	4128.9	4009.0	3870.6	3686.1	3474.0
17.5°	4623.4	4647.3	4586.5	4457.3	4348.5	4256.2	4245.1	4145.5	4016.4	3839.3	3605.0
20°	4640.0	4662.1	4597.5	4485.0	4394.6	4320.8	4315.3	4243.3	4149.2	3979.5	3747.0
22.5°	4590.1	4617.8	4558.8	4468.4	4405.7	4366.9	4359.5	4318.9	4265.4	4121.5	3879.9
25°	4538.5	4560.6	4516.3	4437.0	4403.8	4400.1	4405.7	4398.3	4387.2	4265.4	4034.8
27.5°	4534.8	4558.8	4509.0	4433.3	4414.9	4453.6	4459.2	4494.2	4503.4	4396.4	4184.3
30°	4566.2	4582.8	4534.8	4455.5	4446.2	4534.8	4536.6	4599.4	4614.1	4507.1	4331.9
32.5°	4634.4	4652.9	4604.9	4488.7	4475.8	4599.4	4604.9	4687.9	4711.9	4625.2	4486.8
35°	4794.9	4817.1	4761.7	4580.9	4534.8	4660.2	4676.9	4774.6	4822.6	4750.6	4647.3
37.5°	5195.3	5130.7	5055.1	4767.3	4669.5	4756.2	4783.9	4898.2	4983.1	4900.1	4839.2
40°	6189.7	5986.7	5750.6	5084.6	4905.6	4961.0	4983.1	5097.5	5213.7	5132.5	5103.0
42.5°	7682.2	7442.4	7062.3	5815.2	5261.7	5289.4	5306.0	5405.6	5569.8	5505.2	5512.6
45°	9012.4	8925.7	8538.3	7062.3	5927.7	5791.2	5811.5	5863.1	6104.8	6080.8	6128.8
47.5°	10034.5	9984.7	9685.8	8494.0	7053.1	6405.5	6462.7	6486.7	6835.4	6920.3	7049.4
50°	10820.4	10802.0	10534.4	9767.0	8523.5	7311.4	7331.7	7280.0	7802.1	8012.5	8257.8
52.5°	11562.1	11624.8	11427.4	10949.6	10093.5	8497.7	8494.0	8250.4	8955.2	9272.5	9691.3
55°	12231.8	12253.9	12274.2	12156.1	11672.8	9848.1	9813.1	9414.6	10292.8	10621.2	11075.0
57.5°	12860.9	12870.1	13050.9	13292.6	13316.6	11298.2	11233.7	10755.8	11753.9	11988.2	12266.8
60°	13283.4	13325.8	13707.7	14379.2	14672.6	12794.5	12759.4	12272.4	13240.9	13349.8	13298.1
62.5°	12674.5	12932.8	13895.9	15227.9	15953.0	14453.0	14436.4	13978.9	14805.4	14716.9	14274.1
65°	10259.6	10696.8	12390.4	15801.7	17209.3	16305.3	16329.3	15842.3	16412.3	16124.5	15067.4
67.5°	7176.7	7637.9	9641.5	15847.8	18613.3	18480.5	18618.9	17855.1	18118.9	17473.2	15255.6
70°	4962.8	5200.8	6505.2	14855.2	19707.4	21476.6	21472.9	20327.2	19816.2	18087.5	14296.2
72.5°	3337.4	3461.1	4224.8	11785.3	18903.0	23257.0	23150.0	22216.4	20388.1	16916.0	11680.1
75°	1407.7	1498.1	1955.6	6623.2	14954.9	21277.4	20987.7	19633.6	18115.2	13320.3	7287.4
77.5°	446.5	485.2	771.2	2370.7	8237.5	15993.5	15687.3	12261.3	12141.4	6682.3	2664.1
80°	212.2	247.2	433.6	952.0	3241.5	8698.8	8656.3	5562.4	5222.9	1804.3	535.0
82.5°	92.2	108.8	239.8	509.2	1450.1	3103.1	3165.9	1892.9	1566.3	684.5	164.2
85°	29.5	38.7	110.7	234.3	612.5	771.2	761.9	450.2	631.0	372.7	57.2
87.5°	0.0	0.0	36.9	53.5	62.7	44.3	49.8	38.7	175.3	103.3	20.3
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°	2961.1	2961.1	2961.1	2961.1	2961.1	2961.1	2961.1	2961.1	2961.1	2961.1	2961.1
2.5°	2975.8	2946.3	2894.7	2846.7	2804.3	2761.8	2736.0	2699.1	2695.4	2695.4	2704.6
5°	2996.1	2948.2	2855.9	2758.1	2645.6	2538.6	2431.6	2328.3	2295.1	2271.1	2282.2
7.5°	3055.2	2979.5	2833.8	2647.4	2433.4	2199.1	2034.9	1857.8	1789.6	1752.7	1758.2
10°	3140.0	3036.7	2815.3	2488.8	2141.9	1822.8	1588.5	1396.6	1322.8	1291.4	1291.4
12.5°	3234.1	3106.8	2782.1	2291.4	1822.8	1440.9	1212.1	1123.6	1112.5	1112.5	1112.5
15°	3346.7	3191.7	2724.9	2058.9	1488.8	1140.2	1059.0	1062.7	1073.7	1081.1	1081.1
17.5°	3462.9	3282.1	2634.5	1798.8	1193.7	1025.8	1027.6	1033.2	1042.4	1049.8	1049.8
20°	3588.4	3372.5	2514.6	1522.1	1023.9	992.6	998.1	1003.6	1011.0	1014.7	1016.5
22.5°	3723.0	3457.4	2372.6	1250.9	966.7	964.9	966.7	972.3	981.5	981.5	985.2
25°	3866.9	3551.5	2210.2	1053.4	937.2	937.2	940.9	944.6	952.0	952.0	953.8
27.5°	4014.5	3638.2	2038.6	950.1	911.4	909.5	909.5	915.1	918.8	920.6	922.5
30°	4176.9	3739.6	1867.1	928.0	891.1	881.9	876.3	880.0	883.7	885.6	889.2
32.5°	4342.9	3837.4	1713.9	937.2	870.8	854.2	835.7	832.1	832.1	839.4	845.0
35°	4527.4	3944.4	1595.8	968.6	859.7	813.6	784.1	767.5	769.3	780.4	785.9
37.5°	4748.8	4073.6	1509.1	996.3	852.3	767.5	719.5	699.2	686.3	699.2	695.5
40°	5038.5	4263.6	1446.4	1018.4	843.1	714.0	649.4	616.2	592.2	599.6	595.9
42.5°	5464.6	4562.5	1422.4	1020.2	822.8	651.3	577.5	533.2	498.1	500.0	492.6
45°	6062.4	5034.8	1546.0	996.3	778.6	583.0	501.8	442.8	420.6	415.1	407.7
47.5°	6881.5	5722.9	1832.0	946.4	714.0	516.6	428.0	378.2	361.6	352.4	346.8
50°	7979.2	6606.6	2149.3	891.1	649.4	453.8	367.1	335.8	324.7	315.5	313.6
52.5°	9252.2	7503.3	2409.5	835.7	584.8	398.5	328.4	309.9	300.7	293.3	291.5
55°	10420.1	8121.3	2394.7	776.7	522.1	354.2	300.7	289.7	278.6	271.2	267.5
57.5°	11147.0	8208.0	1974.1	712.1	450.2	319.2	274.9	267.5	254.6	245.4	243.5
60°	11480.9	7713.6	1383.7	627.3	378.2	286.0	247.2	243.5	226.9	214.0	210.3
62.5°	11541.8	6794.8	922.5	522.1	315.5	254.6	219.5	214.0	191.9	169.7	158.7
65°	11294.6	5481.2	638.3	407.7	269.4	221.4	188.2	177.1	153.1	131.0	123.6
67.5°	10512.3	3848.5	444.6	293.3	228.8	175.3	149.4	145.7	127.3	108.8	103.3
70°	9078.8	2193.6	297.0	219.5	180.8	119.9	118.1	121.8	103.3	88.6	81.2
72.5°	6960.9	1003.6	184.5	160.5	123.6	81.2	94.1	95.9	79.3	66.4	59.0
75°	4097.6	429.9	116.2	103.3	62.7	53.5	68.3	70.1	53.5	42.4	36.9
77.5°	1394.8	162.4	73.8	60.9	31.4	29.5	44.3	44.3	29.5	16.6	12.9
80°	317.3	60.9	36.9	24.0	14.8	12.9	14.8	12.9	7.4	1.8	0.0
82.5°	90.4	24.0	14.8	9.2	5.5	5.5	1.8	0.0	0.0	0.0	0.0
85°	25.8	11.1	3.7	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.1	1.8	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)