

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: P942792

Luminaire Tested: **GALN-SB7A-722-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942792
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB7A-722-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26123 lumens
Efficiency: N/A
Efficacy: 131.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 199.1
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

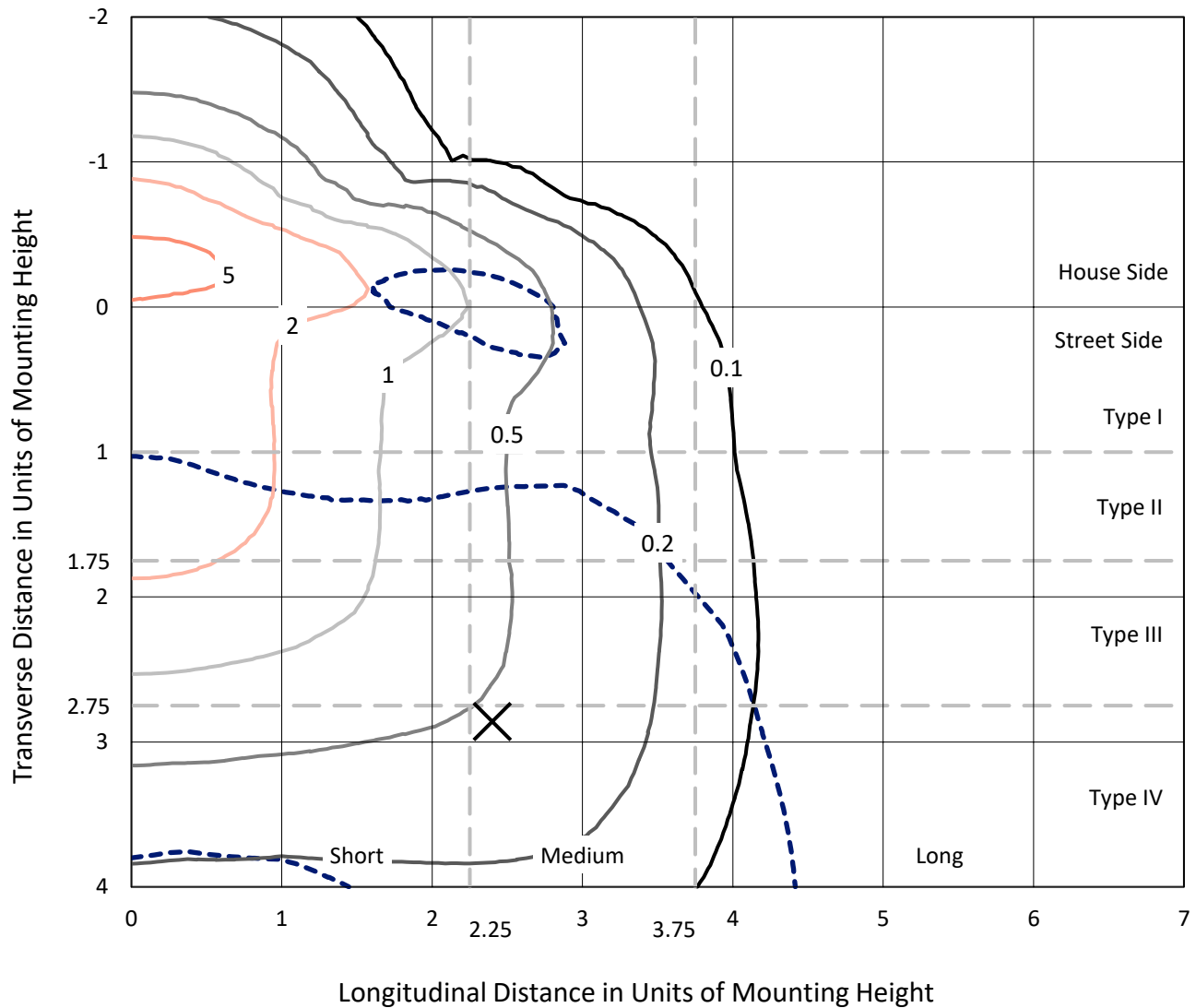


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

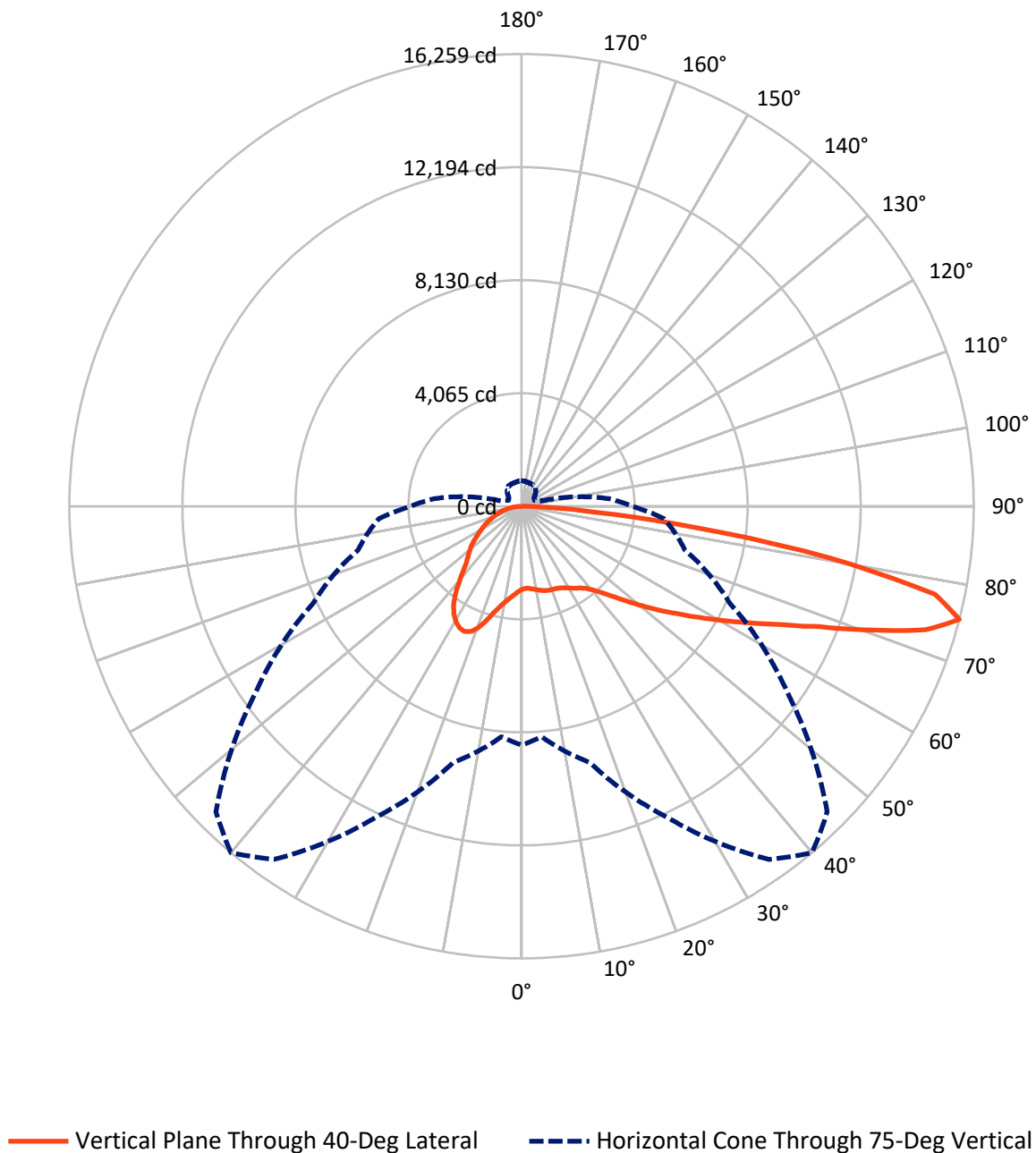


Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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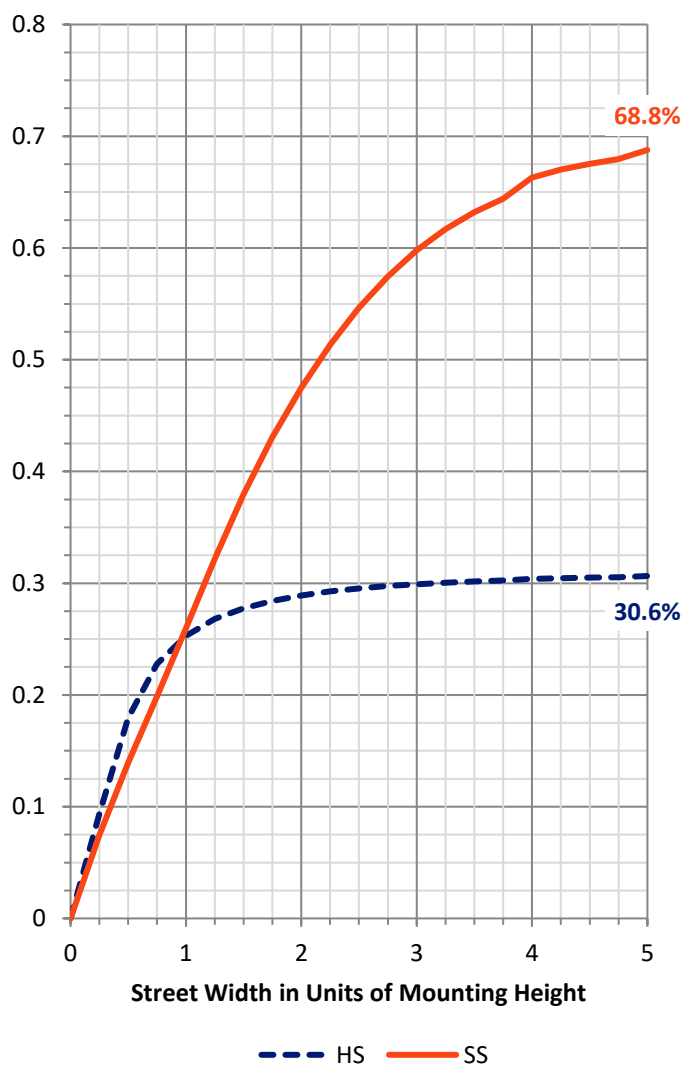
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8093.8	0.0	8093.8
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	18029.2	0.0	18029.2
	% Fixture	69.0	0.0	69.0
Total	Lumens	26123.0	0.0	26123.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.2	1.1
10°-20°	1001.1	3.8
20°-30°	1828.0	7.0
30°-40°	2592.6	9.9
40°-50°	3500.7	13.4
50°-60°	4709.4	18.0
60°-70°	5977.4	22.9
70°-80°	5424.8	20.8
80°-90°	790.8	3.0
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°	26123.0	100.0
0°-180°	26123.0	100.0

Coefficient of Utilization



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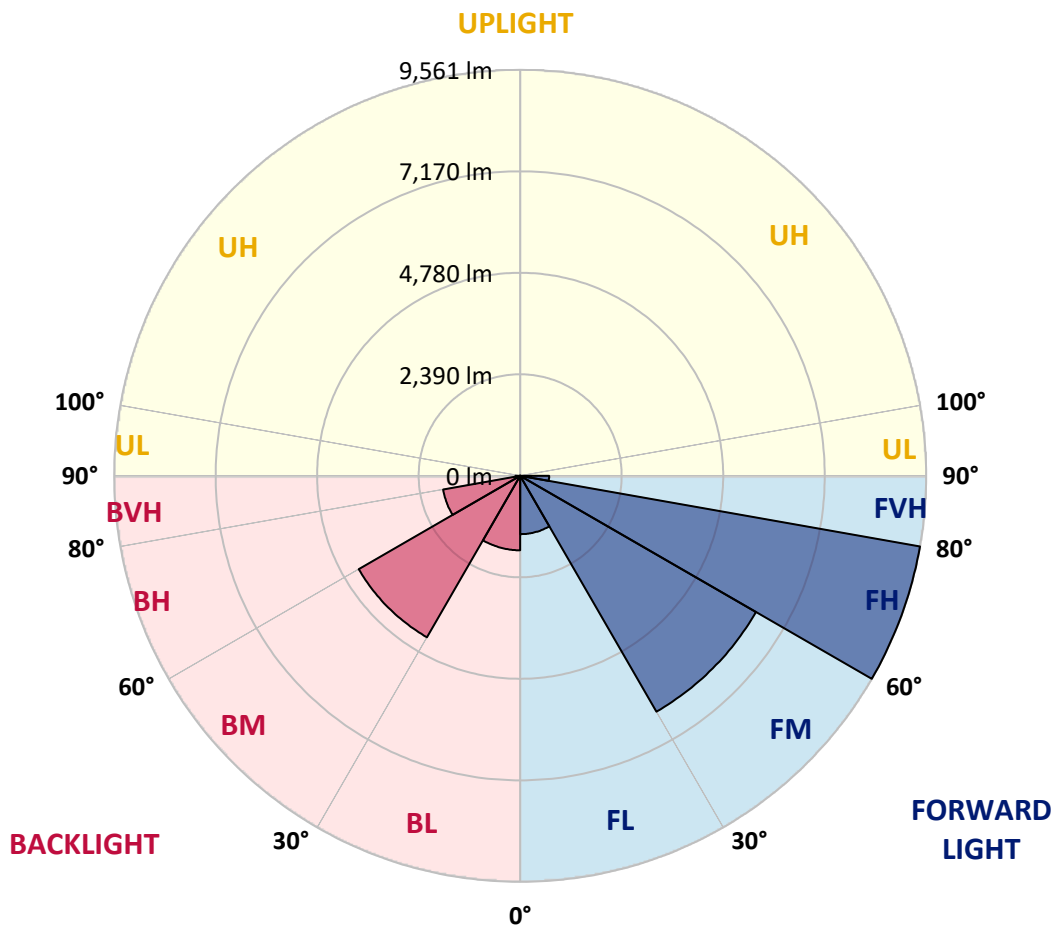
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1374.1	5.3			
FM	(30°-60°)	6412.6	24.5			
FH	(60°-80°)	9560.6	36.6			G4/12000
FVH	(80°-90°)	681.9	2.6			G4/750
BL	(0°-30°)	1753.2	6.7	B3/2500		
BM	(30°-60°)	4390.1	16.8	B3/5000		
BH	(60°-80°)	1841.6	7.0	B3/2500		G3/2500
BVH	(80°-90°)	108.9	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2987.2	2987.2	2987.2	2987.2	2987.2	2987.2	2987.2	2987.2	2987.2	2987.2	2987.2
2.5°	2941.5	2958.1	2953.9	2948.4	2948.4	2949.8	2948.4	2958.1	2967.8	2977.5	2992.7
5°	2972.0	2988.6	2980.3	2973.3	2967.8	2966.4	2962.3	2960.9	2966.4	2978.9	2999.7
7.5°	3031.5	3048.2	3035.7	3023.2	3012.1	3006.6	3001.1	2992.7	2988.6	2995.5	3024.6
10°	3098.0	3114.7	3099.4	3077.3	3059.2	3052.3	3046.8	3038.5	3032.9	3037.1	3068.9
12.5°	3164.5	3181.2	3160.4	3129.9	3106.4	3102.2	3095.3	3092.5	3091.1	3089.7	3121.6
15°	3226.9	3240.8	3214.4	3178.4	3153.5	3146.5	3139.6	3143.8	3150.7	3159.0	3195.0
17.5°	3275.4	3289.2	3250.5	3203.3	3179.8	3177.0	3172.9	3186.7	3206.1	3226.9	3271.2
20°	3319.7	3333.6	3283.7	3220.0	3192.3	3192.3	3193.6	3222.7	3250.5	3280.9	3341.9
22.5°	3382.1	3393.2	3332.2	3244.9	3204.7	3207.5	3218.6	3247.7	3282.3	3323.9	3408.4
25°	3474.9	3483.2	3408.4	3292.0	3246.3	3254.6	3264.3	3278.2	3311.4	3359.9	3473.5
27.5°	3624.5	3631.5	3533.1	3375.1	3305.9	3319.7	3333.6	3323.9	3339.1	3380.7	3526.2
30°	3835.1	3839.3	3714.6	3505.4	3407.0	3413.9	3416.7	3376.5	3347.4	3380.7	3563.6
32.5°	4084.5	4083.2	3934.9	3663.3	3522.0	3515.1	3491.5	3412.6	3344.7	3373.8	3596.8
35°	4471.1	4455.9	4264.7	3885.0	3652.3	3609.3	3553.9	3452.7	3358.5	3366.8	3625.9
37.5°	5111.2	5064.1	4799.5	4248.0	3846.2	3736.8	3655.0	3517.9	3389.0	3364.1	3660.6
40°	5833.1	5773.5	5482.5	4745.4	4137.2	3961.2	3829.6	3610.7	3438.9	3376.5	3711.8
42.5°	6689.3	6604.8	6291.7	5331.5	4505.7	4250.8	4052.7	3728.5	3512.3	3416.7	3781.1
45°	7740.9	7628.7	7185.4	5992.4	4969.9	4630.4	4365.8	3907.2	3624.5	3494.3	3885.0
47.5°	8803.6	8831.4	8200.9	6748.9	5526.9	5098.7	4757.9	4176.0	3788.0	3619.0	4052.7
50°	9932.9	9952.3	9211.0	7587.2	6158.7	5628.0	5198.5	4476.6	4015.3	3796.3	4303.5
52.5°	10814.1	10816.8	10128.2	8464.2	6816.8	6209.9	5673.7	4820.3	4278.5	4031.9	4637.4
55°	11365.5	11358.6	10771.1	9294.1	7573.3	6821.0	6200.2	5211.0	4600.0	4309.0	5057.2
57.5°	11765.9	11745.1	11214.5	10007.7	8379.7	7542.8	6796.0	5654.3	4979.6	4638.8	5610.0
60°	11918.3	11905.8	11515.1	10624.2	9227.6	8340.9	7483.2	6150.4	5410.5	5028.1	6320.8
62.5°	11976.5	12000.1	11810.2	11221.4	10135.1	9224.9	8238.4	6743.4	5895.4	5468.7	7070.4
65°	12181.6	12224.5	12185.7	12002.8	11160.4	10259.8	9240.1	7448.6	6424.7	5941.1	7853.2
67.5°	12587.5	12630.5	12647.1	12938.1	12413.0	11549.8	10489.8	8327.0	7044.0	6431.6	8442.0
70°	12577.8	12565.4	12859.1	13682.1	13981.4	13335.7	12174.6	9407.7	7782.5	6839.0	8516.8
72.5°	11448.6	11348.9	12043.0	13673.8	15286.5	15200.6	14232.2	10801.6	8419.9	6888.8	7390.4
75°	8588.9	8322.9	9549.1	12322.9	15504.1	16259.2	15540.1	11666.2	8268.8	6086.6	5143.1
77.5°	3673.0	3405.6	4850.7	9122.3	13876.1	15199.2	14340.2	10178.1	6600.7	4025.0	2525.8
80°	961.6	960.2	1465.9	4135.8	9436.8	11224.2	9847.0	6572.9	3771.4	1438.2	696.9
82.5°	397.6	387.9	539.0	1608.6	4611.0	6298.6	5140.3	2931.8	1362.0	389.3	231.4
85°	148.3	146.9	261.9	555.6	1626.6	2597.9	1880.2	749.6	339.5	189.8	103.9
87.5°	41.6	40.2	56.8	192.6	396.3	601.3	321.4	123.3	95.6	74.8	30.5
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°	2987.2	2987.2	2987.2	2987.2	2987.2	2987.2	2987.2	2987.2	2987.2	2987.2	2987.2
2.5°	2996.9	3003.8	3016.3	3026.0	3038.5	3052.3	3071.7	3084.2	3096.7	3105.0	3099.4
5°	3009.4	3024.6	3056.5	3088.3	3125.8	3160.4	3200.6	3229.7	3253.2	3260.1	3262.9
7.5°	3037.1	3062.0	3116.1	3170.1	3229.7	3286.5	3344.7	3394.5	3434.7	3450.0	3451.4
10°	3085.6	3118.8	3195.0	3271.2	3350.2	3437.5	3512.3	3584.4	3641.2	3664.7	3666.1
12.5°	3146.5	3188.1	3287.9	3393.2	3502.6	3623.2	3720.1	3808.8	3879.5	3911.3	3911.3
15°	3225.5	3279.5	3407.0	3548.3	3709.1	3876.7	4000.0	4098.4	4177.4	4216.2	4213.4
17.5°	3311.4	3383.5	3544.2	3757.6	3987.6	4207.9	4351.9	4424.0	4505.7	4543.1	4541.8
20°	3394.5	3483.2	3713.2	4023.6	4329.8	4563.9	4680.3	4699.7	4705.3	4709.4	4720.5
22.5°	3480.4	3599.6	3925.2	4358.9	4687.2	4849.4	4866.0	4782.8	4666.5	4612.4	4627.7
25°	3574.7	3732.6	4202.3	4728.8	4994.8	5014.2	4886.8	4684.5	4464.2	4363.0	4378.3
27.5°	3666.1	3886.4	4534.8	5082.1	5216.5	5046.1	4771.8	4485.0	4218.9	4112.2	4124.7
30°	3757.6	4062.4	4902.0	5391.1	5317.7	4967.1	4590.3	4270.2	4002.8	3890.6	3903.0
32.5°	3850.4	4267.4	5324.6	5614.2	5299.6	4799.5	4364.4	4029.1	3793.6	3675.8	3691.0
35°	3955.7	4519.6	5725.0	5736.1	5179.1	4552.8	4066.5	3740.9	3535.9	3441.7	3462.4
37.5°	4092.9	4839.7	6078.3	5766.6	4968.5	4191.2	3696.6	3400.1	3231.1	3188.1	3218.6
40°	4263.3	5224.8	6348.5	5718.1	4656.8	3752.0	3292.0	3055.1	2959.5	2969.2	3002.4
42.5°	4485.0	5655.7	6538.3	5593.4	4223.1	3298.9	2937.3	2832.0	2877.7	2916.5	2952.6
45°	4773.1	6103.3	6656.1	5381.4	3732.6	2915.2	2728.1	2753.0	2787.7	2791.8	2819.6
47.5°	5141.7	6556.3	6733.7	5061.3	3232.4	2645.0	2595.1	2600.6	2593.7	2564.6	2586.8
50°	5601.7	6996.9	6802.9	4637.4	2807.1	2475.9	2409.4	2390.0	2294.4	2200.2	2212.7
52.5°	6125.4	7401.5	6832.0	4110.9	2475.9	2334.6	2226.5	2104.6	1925.9	1896.8	1906.5
55°	6707.3	7775.6	6757.2	3463.8	2197.4	2153.1	1989.6	1842.8	1823.4	1798.4	1802.6
57.5°	7402.9	8178.8	6604.8	2742.0	1912.0	1941.1	1781.8	1798.4	1763.8	1725.0	1718.1
60°	8163.5	8595.8	6337.4	2083.8	1616.9	1676.5	1727.8	1726.4	1716.7	1684.8	1673.7
62.5°	8848.0	8870.2	5810.9	1596.1	1357.8	1471.4	1611.4	1610.0	1601.7	1583.7	1576.7
65°	9255.3	8828.6	4932.5	1256.7	1144.4	1302.4	1453.4	1464.5	1465.9	1464.5	1464.5
67.5°	9183.3	8342.3	3727.1	1000.4	968.5	1130.6	1296.9	1312.1	1323.2	1326.0	1328.7
70°	8368.6	7274.0	2430.2	798.1	811.9	979.6	1148.6	1163.8	1173.5	1184.6	1190.2
72.5°	6523.1	5348.1	1391.1	645.7	674.8	849.3	1001.7	1019.7	1025.3	1046.1	1054.4
75°	3975.1	3145.2	751.0	508.5	554.2	726.0	856.3	877.0	886.7	911.7	914.4
77.5°	1889.9	1362.0	428.1	396.3	446.1	593.0	723.2	746.8	720.5	734.3	723.2
80°	638.7	505.7	270.2	302.0	340.8	462.8	579.2	602.7	547.3	544.5	539.0
82.5°	223.1	205.1	171.8	200.9	220.3	331.1	437.8	468.3	407.3	406.0	386.6
85°	87.3	83.1	95.6	109.5	131.6	203.7	288.2	303.4	250.8	202.3	199.5
87.5°	18.0	19.4	23.6	24.9	40.2	70.7	103.9	127.5	101.1	85.9	79.0
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)