

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: P940592

Luminaire Tested: **GALN-SB3D-727-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940592
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-SB3D-727-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

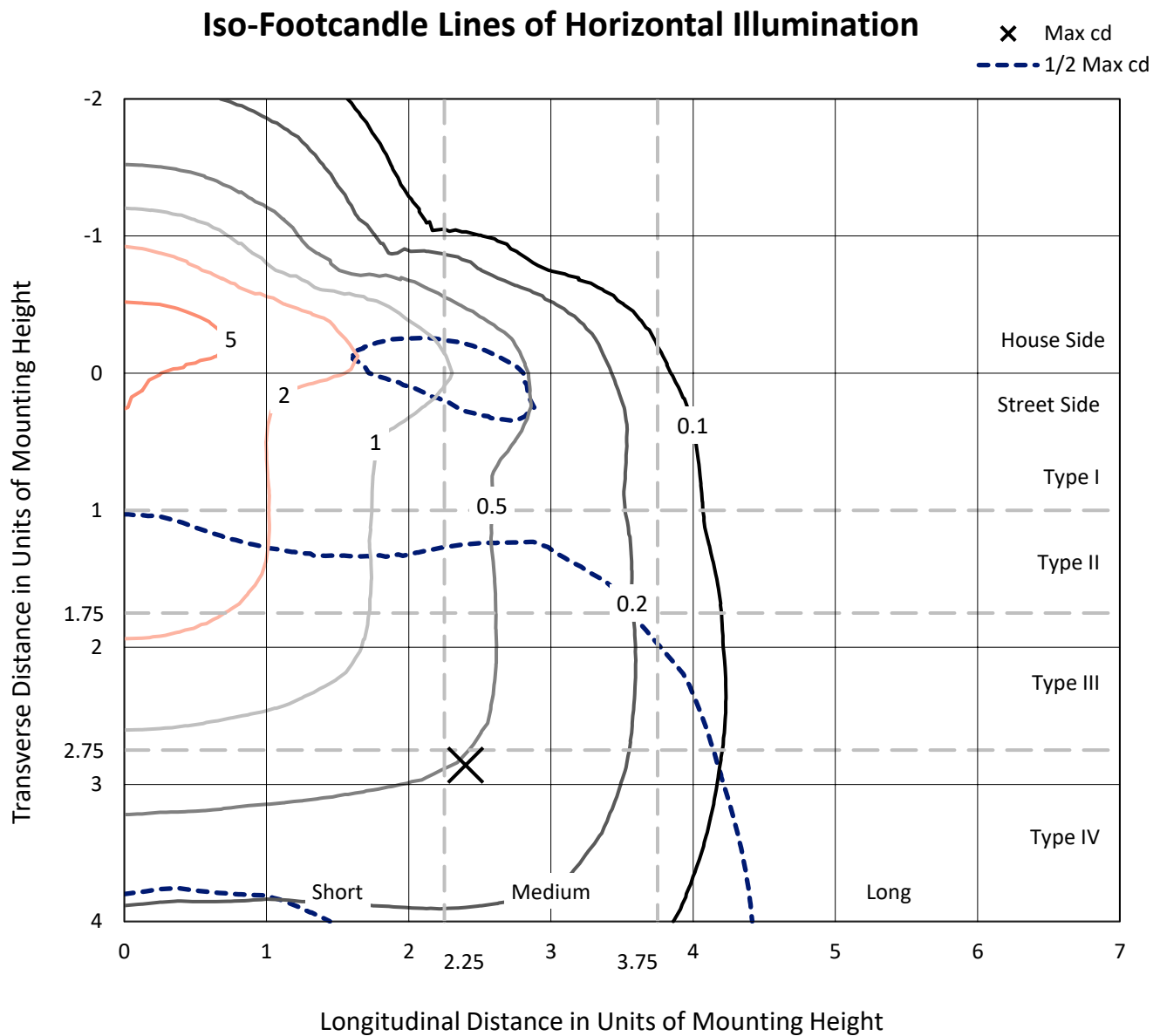
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28072 lumens
Efficiency: N/A
Efficacy: 128.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 218.1
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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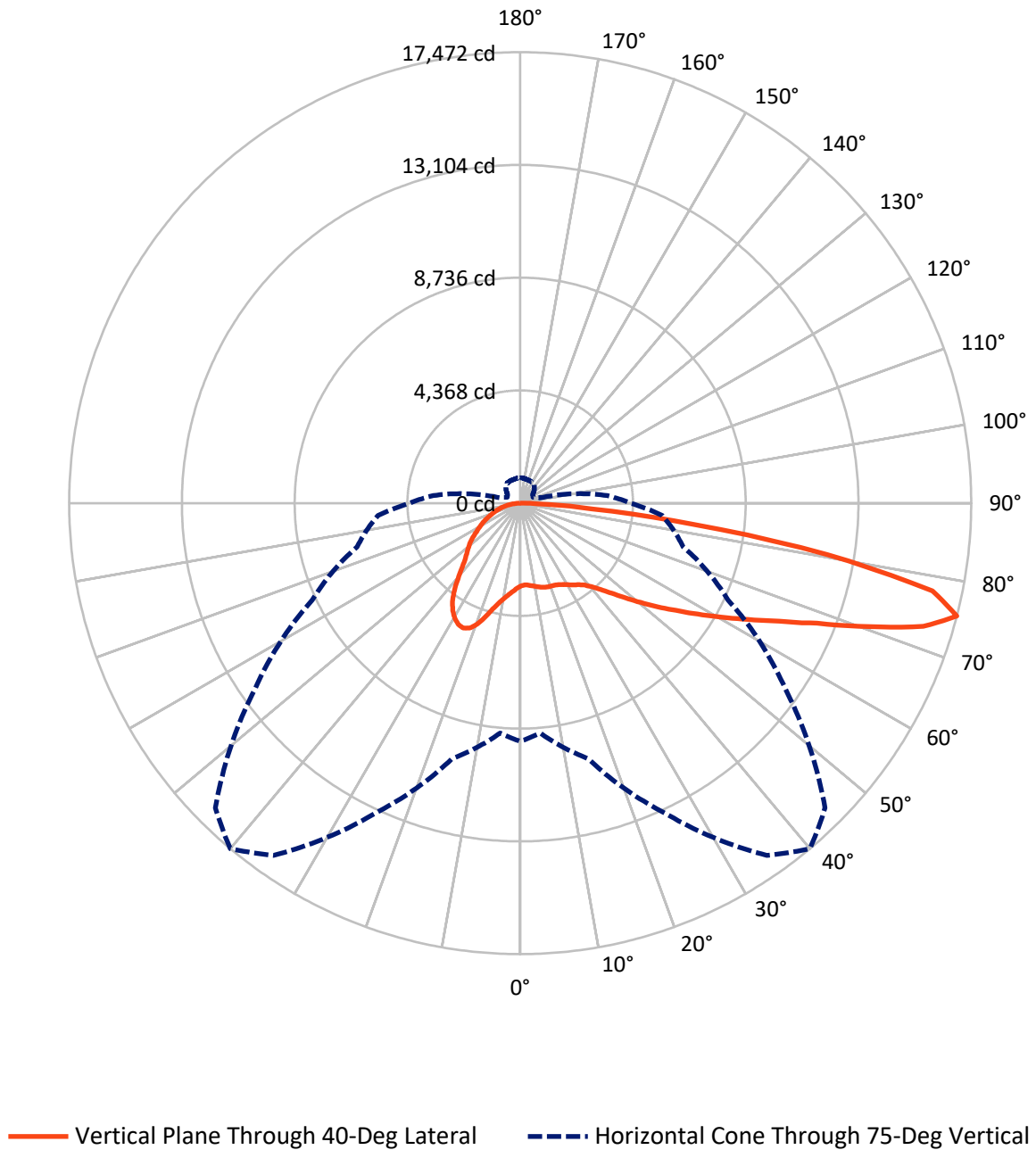


Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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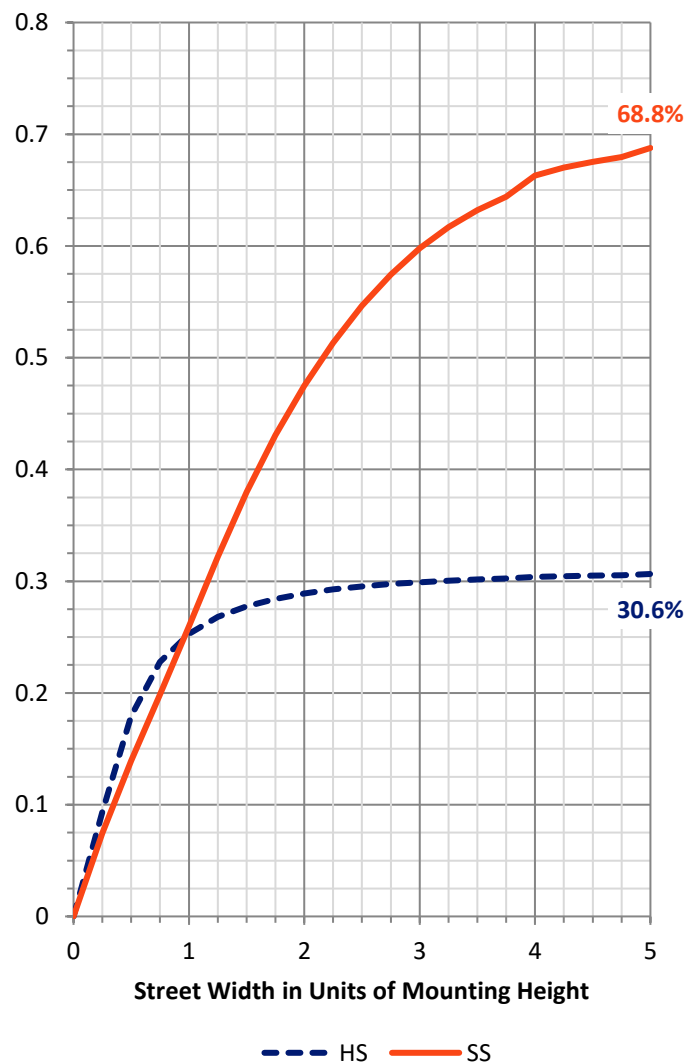
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8697.6	0.0	8697.6
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	19374.4	0.0	19374.4
	% Fixture	69.0	0.0	69.0
Total	Lumens	28072.0	0.0	28072.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.4	1.1
10°-20°	1075.8	3.8
20°-30°	1964.4	7.0
30°-40°	2786.0	9.9
40°-50°	3761.9	13.4
50°-60°	5060.8	18.0
60°-70°	6423.3	22.9
70°-80°	5829.6	20.8
80°-90°	849.8	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°	28072.0	100.0
0°-180°	28072.0	100.0

Coefficient of Utilization



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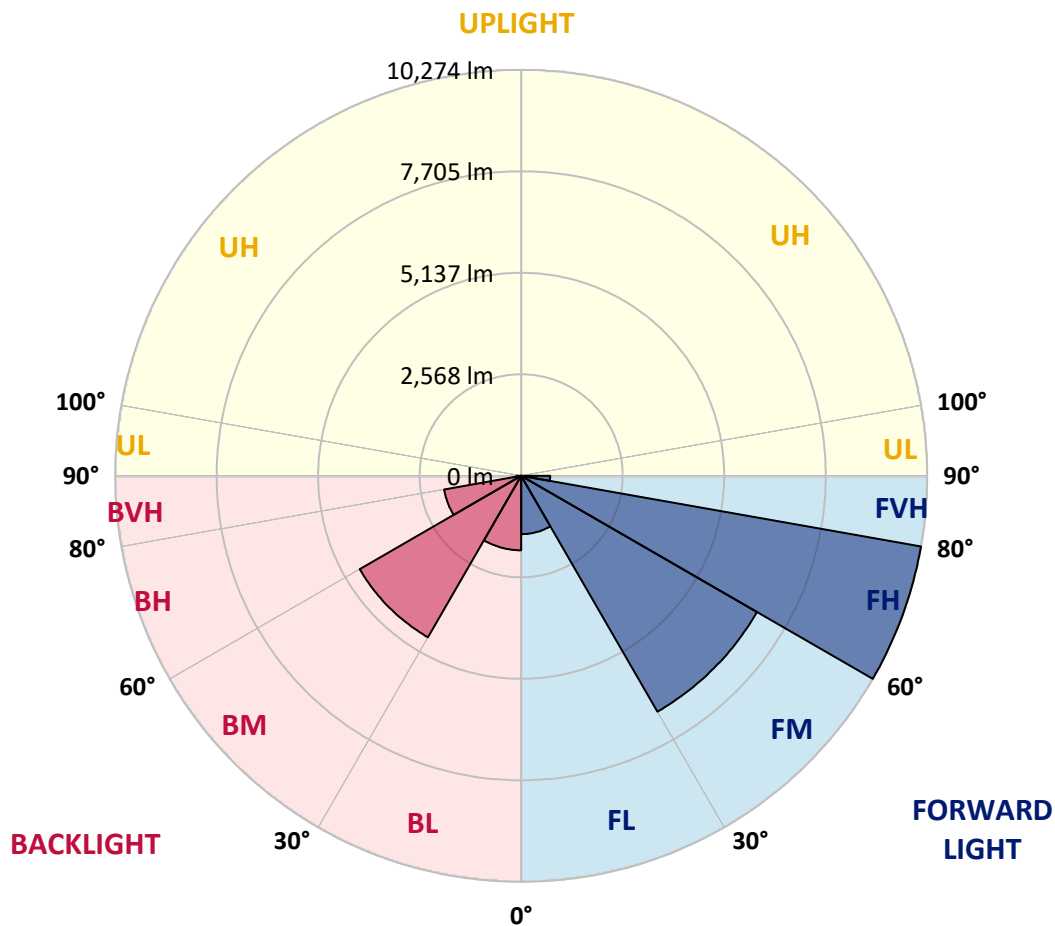
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1476.6	5.3			
FM	(30°-60°)	6891.1	24.5			
FH	(60°-80°)	10273.9	36.6			G4/12000
FVH	(80°-90°)	732.8	2.6			G4/750
BL	(0°-30°)	1884.0	6.7	B3/2500		
BM	(30°-60°)	4717.7	16.8	B3/5000		
BH	(60°-80°)	1979.0	7.0	B3/2500		G3/2500
BVH	(80°-90°)	117.0	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°	3210.1	3210.1	3210.1	3210.1	3210.1	3210.1	3210.1	3210.1	3210.1	3210.1	3210.1
2.5°	3160.9	3178.8	3174.3	3168.4	3168.4	3169.9	3168.4	3178.8	3189.2	3199.6	3216.0
5°	3193.7	3211.6	3202.6	3195.2	3189.2	3187.7	3183.3	3181.8	3187.7	3201.1	3223.5
7.5°	3257.7	3275.6	3262.2	3248.8	3236.9	3230.9	3225.0	3216.0	3211.6	3219.0	3250.3
10°	3329.2	3347.0	3330.7	3306.8	3287.5	3280.0	3274.1	3265.2	3259.2	3263.7	3297.9
12.5°	3400.6	3418.5	3396.2	3363.4	3338.1	3333.6	3326.2	3323.2	3321.7	3320.2	3354.5
15°	3467.7	3482.5	3454.3	3415.5	3388.7	3381.3	3373.8	3378.3	3385.8	3394.7	3433.4
17.5°	3519.8	3534.7	3493.0	3442.3	3417.0	3414.1	3409.6	3424.5	3445.3	3467.7	3515.3
20°	3567.4	3582.3	3528.7	3460.2	3430.4	3430.4	3431.9	3463.2	3493.0	3525.7	3591.2
22.5°	3634.4	3646.3	3580.8	3487.0	3443.8	3446.8	3458.7	3490.0	3527.2	3571.9	3662.7
25°	3734.2	3743.1	3662.7	3537.6	3488.5	3497.4	3507.9	3522.7	3558.5	3610.6	3732.7
27.5°	3895.0	3902.4	3796.7	3627.0	3552.5	3567.4	3582.3	3571.9	3588.3	3632.9	3789.3
30°	4121.3	4125.7	3991.7	3766.9	3661.2	3668.7	3671.6	3628.5	3597.2	3632.9	3829.5
32.5°	4389.3	4387.8	4228.5	3936.7	3784.8	3777.3	3752.0	3667.2	3594.2	3625.5	3865.2
35°	4804.7	4788.3	4582.8	4174.9	3924.7	3878.6	3819.0	3710.3	3609.1	3618.0	3896.5
37.5°	5492.6	5441.9	5157.6	4565.0	4133.2	4015.6	3927.7	3780.3	3641.9	3615.1	3933.7
40°	6268.3	6204.3	5891.6	5099.5	4445.9	4256.8	4115.3	3880.1	3695.5	3628.5	3988.8
42.5°	7188.4	7097.6	6761.1	5729.3	4841.9	4567.9	4355.0	4006.6	3774.4	3671.6	4063.2
45°	8318.5	8197.9	7721.4	6439.5	5340.7	4975.9	4691.5	4198.7	3895.0	3755.0	4174.9
47.5°	9460.5	9490.3	8812.8	7252.4	5939.2	5479.2	5112.9	4487.5	4070.7	3889.0	4355.0
50°	10673.9	10694.8	9898.2	8153.2	6618.2	6047.9	5586.4	4810.6	4314.8	4079.6	4624.5
52.5°	11620.9	11623.9	10883.9	9095.7	7325.4	6673.3	6097.0	5179.9	4597.7	4332.7	4983.4
55°	12213.5	12206.0	11574.7	9987.5	8138.3	7329.9	6662.8	5599.8	4943.2	4630.5	5434.5
57.5°	12643.7	12621.4	12051.2	10754.3	9004.9	8105.6	7303.1	6076.2	5351.1	4984.8	6028.6
60°	12807.5	12794.1	12374.3	11416.9	9916.1	8963.2	8041.6	6609.2	5814.2	5403.2	6792.4
62.5°	12870.1	12895.4	12691.4	12058.6	10891.3	9913.1	8853.0	7246.5	6335.3	5876.7	7597.9
65°	13090.4	13136.6	13094.9	12898.3	11993.1	11025.3	9929.5	8004.3	6904.0	6384.4	8439.1
67.5°	13526.7	13572.8	13590.7	13903.4	13339.1	12411.5	11272.5	8948.3	7569.6	6911.5	9071.9
70°	13516.2	13502.8	13818.5	14702.9	15024.5	14330.7	13083.0	10109.6	8363.2	7349.2	9152.3
72.5°	12302.8	12195.6	12941.5	14694.0	16427.0	16334.7	15294.0	11607.5	9048.1	7402.8	7941.8
75°	9229.7	8943.8	10261.5	13242.3	16660.8	17472.3	16699.5	12536.5	8885.8	6540.7	5526.8
77.5°	3947.1	3659.7	5212.6	9802.9	14911.3	16333.2	15410.1	10937.5	7093.1	4325.3	2714.3
80°	1033.3	1031.8	1575.3	4444.4	10140.9	12061.6	10581.6	7063.3	4052.8	1545.5	748.9
82.5°	427.3	416.9	579.2	1728.6	4955.1	6768.5	5523.8	3150.5	1463.6	418.4	248.6
85°	159.3	157.8	281.4	597.0	1748.0	2791.7	2020.4	805.5	364.8	204.0	111.7
87.5°	44.7	43.2	61.0	207.0	425.8	646.2	345.4	132.5	102.7	80.4	32.8
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°	3210.1	3210.1	3210.1	3210.1	3210.1	3210.1	3210.1	3210.1	3210.1	3210.1	3210.1
2.5°	3220.5	3227.9	3241.3	3251.8	3265.2	3280.0	3300.9	3314.3	3327.7	3336.6	3330.7
5°	3233.9	3250.3	3284.5	3318.8	3359.0	3396.2	3439.4	3470.6	3495.9	3503.4	3506.4
7.5°	3263.7	3290.5	3348.5	3406.6	3470.6	3531.7	3594.2	3647.8	3691.0	3707.4	3708.9
10°	3315.8	3351.5	3433.4	3515.3	3600.2	3694.0	3774.4	3851.8	3912.8	3938.1	3939.6
12.5°	3381.3	3426.0	3533.2	3646.3	3763.9	3893.5	3997.7	4093.0	4168.9	4203.2	4203.2
15°	3466.2	3524.2	3661.2	3813.1	3985.8	4165.9	4298.5	4404.2	4489.0	4530.7	4527.7
17.5°	3558.5	3635.9	3808.6	4037.9	4285.1	4521.8	4676.6	4754.1	4841.9	4882.1	4880.6
20°	3647.8	3743.1	3990.3	4323.8	4652.8	4904.4	5029.5	5050.4	5056.3	5060.8	5072.7
22.5°	3740.1	3868.2	4218.1	4684.1	5037.0	5211.2	5229.0	5139.7	5014.6	4956.6	4972.9
25°	3841.4	4011.1	4515.8	5081.6	5367.5	5388.3	5251.4	5034.0	4797.2	4688.5	4704.9
27.5°	3939.6	4176.4	4873.2	5461.3	5605.7	5422.6	5127.8	4819.6	4533.7	4419.1	4432.5
30°	4037.9	4365.5	5267.7	5793.3	5714.4	5337.7	4932.7	4588.8	4301.4	4180.8	4194.2
32.5°	4137.7	4585.8	5721.8	6033.0	5695.0	5157.6	4690.0	4329.7	4076.6	3950.1	3966.4
35°	4250.8	4856.8	6152.1	6164.1	5565.5	4892.5	4369.9	4020.0	3799.7	3698.4	3720.8
37.5°	4398.2	5200.7	6531.8	6196.8	5339.2	4503.9	3972.4	3653.8	3472.1	3426.0	3458.7
40°	4581.3	5614.6	6822.1	6144.7	5004.2	4031.9	3537.6	3283.0	3180.3	3190.7	3226.4
42.5°	4819.6	6077.7	7026.1	6010.7	4538.2	3545.1	3156.5	3043.3	3092.4	3134.1	3172.8
45°	5129.3	6558.6	7152.7	5782.9	4011.1	3132.6	2931.6	2958.4	2995.7	3000.1	3029.9
47.5°	5525.3	7045.5	7236.1	5439.0	3473.6	2842.3	2788.7	2794.7	2787.2	2756.0	2779.8
50°	6019.6	7519.0	7310.5	4983.4	3016.5	2660.7	2589.2	2568.4	2465.6	2364.4	2377.8
52.5°	6582.4	7953.7	7341.8	4417.6	2660.7	2508.8	2392.7	2261.6	2069.6	2038.3	2048.7
55°	7207.8	8355.7	7261.4	3722.3	2361.4	2313.8	2138.1	1980.2	1959.4	1932.6	1937.1
57.5°	7955.2	8789.0	7097.6	2946.5	2054.7	2086.0	1914.7	1932.6	1895.4	1853.7	1846.2
60°	8772.6	9237.1	6810.2	2239.3	1737.5	1801.6	1856.7	1855.2	1844.7	1810.5	1798.6
62.5°	9508.1	9531.9	6244.5	1715.2	1459.1	1581.2	1731.6	1730.1	1721.2	1701.8	1694.4
65°	9945.9	9487.3	5300.5	1350.4	1229.8	1399.6	1561.9	1573.8	1575.3	1573.8	1573.8
67.5°	9868.4	8964.7	4005.1	1075.0	1040.7	1214.9	1393.6	1410.0	1421.9	1424.9	1427.9
70°	8993.0	7816.7	2611.5	857.6	872.5	1052.7	1234.3	1250.7	1261.1	1273.0	1279.0
72.5°	7009.7	5747.2	1494.9	693.8	725.1	912.7	1076.5	1095.8	1101.8	1124.1	1133.1
75°	4271.7	3379.8	807.0	546.4	595.6	780.2	920.1	942.5	952.9	979.7	982.7
77.5°	2030.9	1463.6	460.1	425.8	479.4	637.2	777.2	802.5	774.2	789.1	777.2
80°	686.4	543.4	290.3	324.6	366.3	497.3	622.4	647.7	588.1	585.1	579.2
82.5°	239.7	220.4	184.6	215.9	236.7	355.8	470.5	503.2	437.7	436.2	415.4
85°	93.8	89.3	102.7	117.6	141.4	218.9	309.7	326.1	269.5	217.4	214.4
87.5°	19.4	20.8	25.3	26.8	43.2	75.9	111.7	137.0	108.7	92.3	84.9
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)