

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: P942809

Luminaire Tested: **GALN-SB7A-727-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942809
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7A-727-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

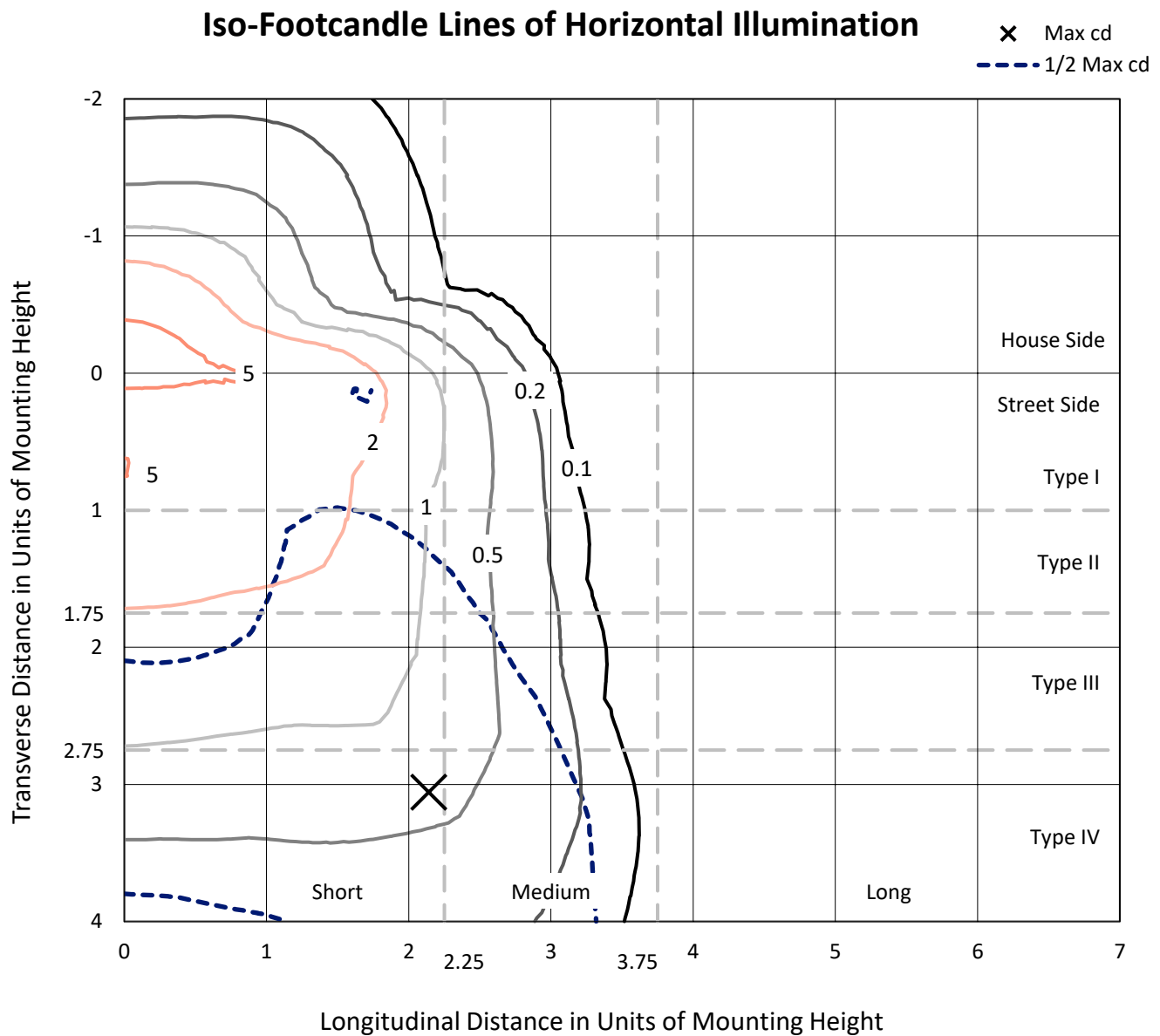
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29246 lumens
Efficiency: N/A
Efficacy: 146.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
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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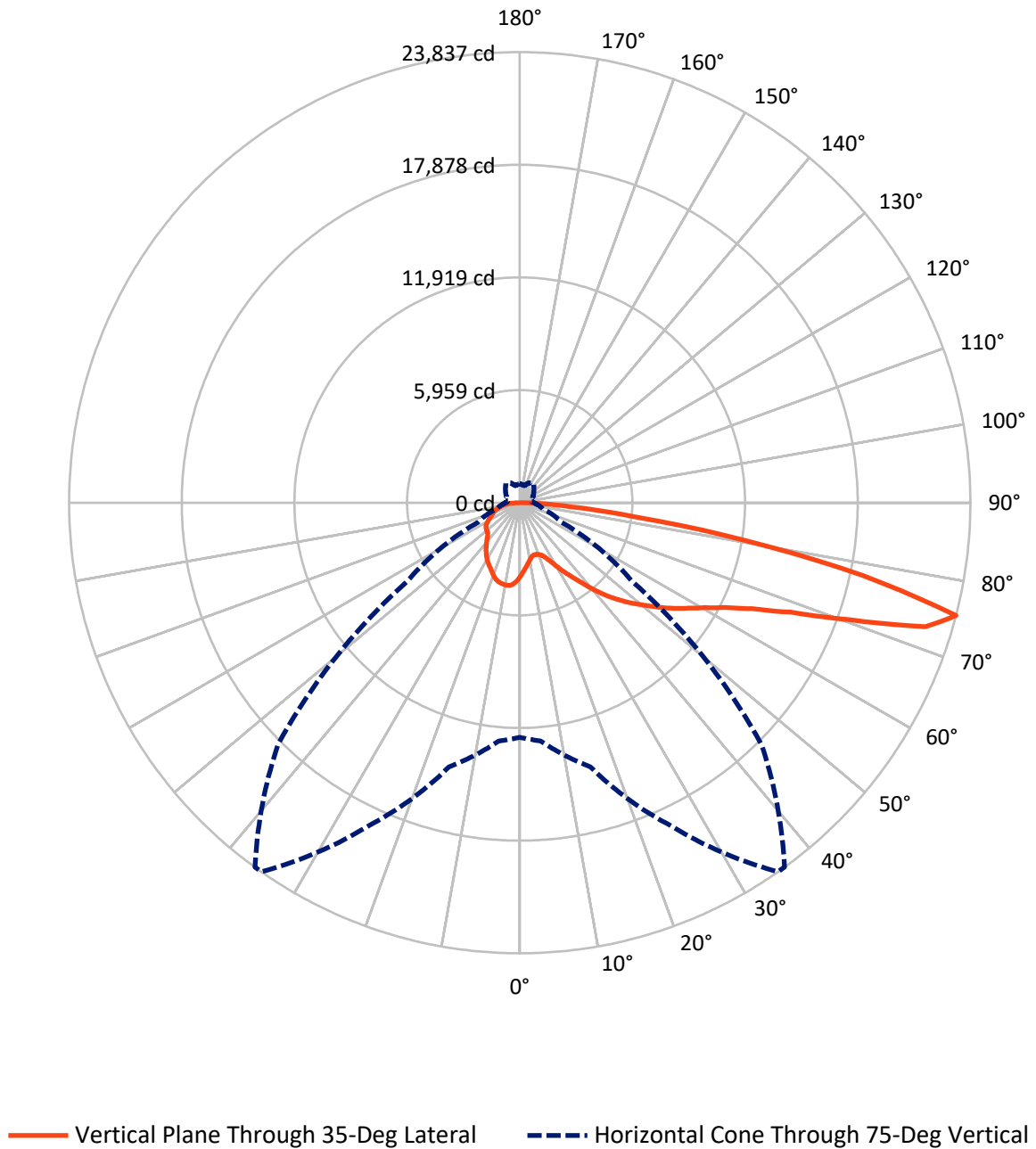


Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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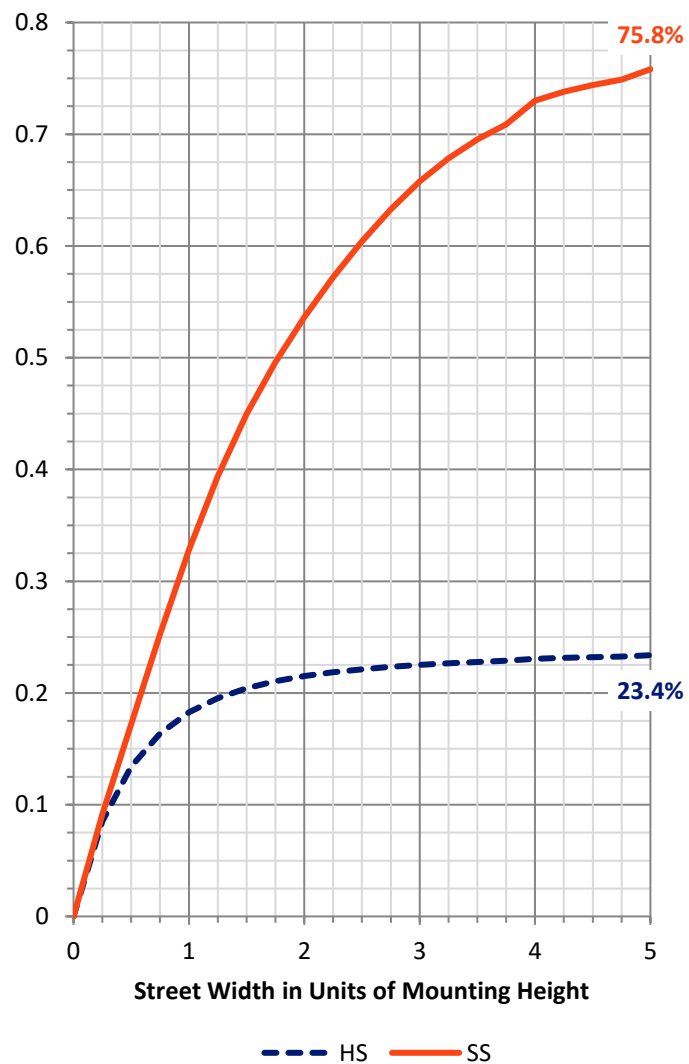
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6959.8	0.0	6959.8
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	22286.2	0.0	22286.2
	% Fixture	76.2	0.0	76.2
Total	Lumens	29246.0	0.0	29246.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.0	1.3
10°-20°	1064.3	3.6
20°-30°	1787.3	6.1
30°-40°	2777.7	9.5
40°-50°	4122.8	14.1
50°-60°	5691.8	19.5
60°-70°	6905.5	23.6
70°-80°	5706.8	19.5
80°-90°	820.8	2.8
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°	29246.0	100.0
0°-180°	29246.0	100.0

Coefficient of Utilization



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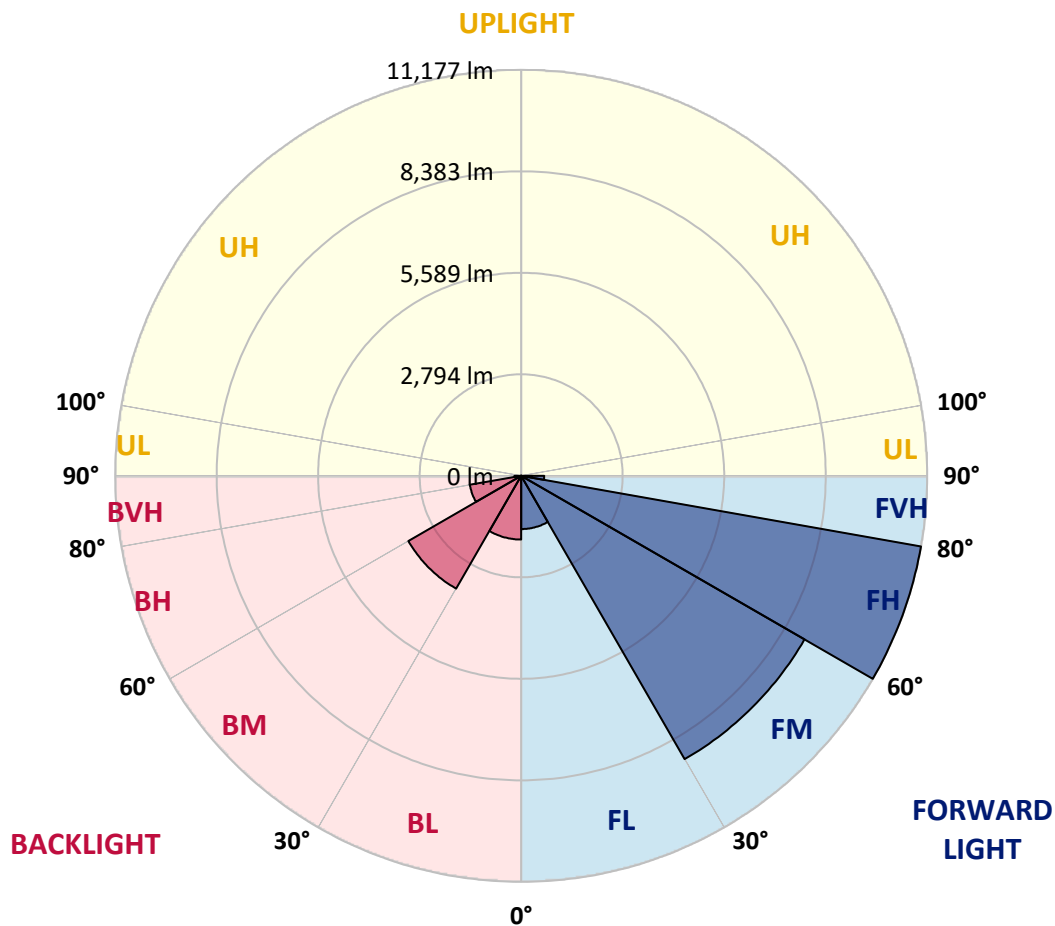
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1466.6	5.0			
FM	(30°-60°)	9006.2	30.8			
FH	(60°-80°)	11177.4	38.2			G4/12000
FVH	(80°-90°)	636.0	2.2			G4/750
BL	(0°-30°)	1754.0	6.0	B3/2500		
BM	(30°-60°)	3586.1	12.3	B3/5000		
BH	(60°-80°)	1434.9	4.9	B3/2500		G3/2500
BVH	(80°-90°)	184.8	0.6			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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	3897.2	3897.2	3897.2	3897.2	3897.2	3897.2	3897.2	3897.2	3897.2	3897.2	3897.2
2.5°	3593.7	3615.8	3625.3	3620.5	3644.3	3641.1	3674.3	3715.4	3772.3	3827.7	3908.3
5°	3317.0	3340.7	3361.3	3380.2	3426.1	3440.3	3492.5	3571.5	3675.9	3781.8	3914.6
7.5°	3059.3	3079.8	3111.5	3146.2	3223.7	3237.9	3324.9	3448.2	3593.7	3748.6	3932.0
10°	2849.0	2869.6	2902.8	2942.3	3038.7	3056.1	3166.8	3331.2	3520.9	3717.0	3951.0
12.5°	2758.9	2765.2	2784.2	2823.7	2907.5	2918.6	3040.3	3228.5	3449.8	3693.3	3979.4
15°	2754.1	2766.8	2768.4	2788.9	2858.5	2863.2	2975.5	3162.1	3405.5	3688.5	4022.1
17.5°	2801.6	2811.1	2796.8	2809.5	2868.0	2875.9	2964.4	3130.4	3391.3	3709.1	4094.9
20°	2928.1	2936.0	2893.3	2875.9	2918.6	2924.9	3011.9	3151.0	3405.5	3751.8	4194.5
22.5°	3196.8	3201.6	3097.2	3026.1	3029.2	3032.4	3108.3	3234.8	3460.9	3829.2	4320.9
25°	3615.8	3612.6	3446.6	3309.1	3230.0	3212.6	3263.2	3370.7	3554.1	3932.0	4483.8
27.5°	4105.9	4082.2	3916.2	3710.7	3538.3	3513.0	3502.0	3547.8	3687.0	4068.0	4683.0
30°	4659.3	4637.1	4458.5	4189.7	3951.0	3909.9	3805.5	3781.8	3884.6	4253.0	4959.7
32.5°	5266.4	5252.2	5038.7	4713.0	4393.7	4346.2	4170.7	4107.5	4188.1	4532.8	5345.4
35°	5775.5	5762.8	5585.8	5250.6	4860.1	4801.6	4622.9	4551.8	4592.9	4891.7	5849.8
37.5°	6235.6	6229.2	6077.5	5813.4	5410.3	5339.1	5138.3	5114.6	5106.7	5364.4	6461.7
40°	6662.4	6646.6	6488.5	6349.4	6050.6	5985.8	5808.7	5788.1	5728.1	5946.2	7154.1
42.5°	7135.2	7094.1	6864.8	6800.0	6719.4	6665.6	6559.7	6562.8	6430.0	6602.4	7887.7
45°	7520.9	7497.2	7261.6	7223.7	7310.7	7288.5	7380.2	7403.9	7146.2	7290.1	8649.8
47.5°	7935.2	7913.0	7713.8	7686.9	7922.5	7928.8	8253.0	8260.9	7845.0	8004.7	9413.4
50°	8445.8	8414.2	8216.6	8249.8	8513.8	8537.5	9130.4	9076.7	8488.5	8730.4	10170.7
52.5°	8782.6	8801.6	8758.9	8812.6	9173.1	9195.2	9993.7	9856.1	9125.7	9446.6	10913.8
55°	9030.8	9068.8	9201.6	9324.9	9868.8	9890.9	10807.9	10597.6	9653.7	10110.7	11612.6
57.5°	9350.2	9296.4	9544.6	9785.0	10529.6	10588.1	11600.0	11312.2	10121.7	10683.0	12091.7
60°	9808.7	9770.7	9963.6	10319.4	11269.5	11362.8	12437.9	11955.7	10464.8	11136.7	12185.0
62.5°	10738.3	10643.5	10673.5	10988.1	12202.4	12325.7	13383.4	12517.0	10635.6	11313.8	11685.4
65°	12128.0	11965.2	11813.4	12031.6	13516.2	13637.9	14450.6	12958.1	10572.3	10970.7	10358.9
67.5°	13878.2	13717.0	13530.4	13735.9	15451.4	15547.8	15767.6	13206.3	10074.3	9649.0	8014.2
70°	15321.7	15261.6	15484.6	16330.4	18542.3	18545.4	17456.1	13000.8	8709.9	6841.1	4637.1
72.5°	15130.4	15094.0	16268.8	18883.8	22437.9	22354.1	19054.5	11445.0	5867.2	3086.2	1737.5
75°	12412.6	12648.2	14468.0	18837.9	23837.1	23826.1	18075.9	7275.9	2426.9	1279.0	898.0
77.5°	6656.1	7029.2	9392.9	13908.3	18608.7	18888.5	12708.3	2545.5	1041.9	819.0	621.3
80°	2170.7	2496.4	3743.9	7081.4	12091.7	12039.5	5446.6	999.2	713.0	580.2	430.0
82.5°	921.7	959.7	1672.7	3343.9	6205.5	6109.1	1734.4	573.9	501.2	396.8	265.6
85°	360.5	403.2	738.3	1546.2	2687.7	2629.2	626.1	284.6	320.9	259.3	158.1
87.5°	118.6	143.9	264.0	529.6	836.4	806.3	153.4	98.0	139.1	118.6	56.9
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°	3897.2	3897.2	3897.2	3897.2	3897.2	3897.2	3897.2	3897.2	3897.2	3897.2	3897.2
2.5°	3930.4	3955.7	3985.8	4030.0	4068.0	4099.6	4132.8	4153.4	4161.3	4185.0	4183.4
5°	3958.9	4014.2	4088.5	4161.3	4232.4	4275.1	4313.0	4332.0	4349.4	4362.0	4365.2
7.5°	4006.3	4077.5	4194.5	4289.3	4349.4	4384.2	4409.5	4403.2	4409.5	4412.6	4417.4
10°	4047.4	4147.0	4286.2	4376.3	4422.1	4423.7	4417.4	4395.3	4384.2	4385.8	4388.9
12.5°	4096.4	4207.1	4357.3	4433.2	4445.8	4411.1	4384.2	4346.2	4332.0	4325.7	4322.5
15°	4162.8	4289.3	4434.8	4463.2	4431.6	4387.3	4341.5	4279.8	4248.2	4222.9	4230.8
17.5°	4243.5	4382.6	4494.9	4474.3	4406.3	4333.6	4259.3	4166.0	4101.2	4074.3	4075.9
20°	4355.7	4480.6	4540.7	4450.6	4347.8	4237.1	4110.7	3996.8	3936.8	3909.9	3906.7
22.5°	4491.7	4611.9	4585.0	4409.5	4264.0	4087.0	3928.8	3845.1	3815.0	3796.0	3799.2
25°	4654.5	4757.3	4616.6	4349.4	4126.5	3887.7	3766.0	3739.1	3724.9	3710.7	3710.7
27.5°	4866.4	4921.7	4640.3	4260.9	3911.5	3675.9	3631.6	3636.4	3631.6	3607.9	3612.6
30°	5146.2	5135.2	4662.4	4117.0	3664.8	3484.6	3487.7	3508.3	3511.5	3495.6	3503.6
32.5°	5514.6	5402.4	4673.5	3930.4	3429.2	3317.0	3320.2	3342.3	3358.1	3331.2	3343.9
35°	5960.5	5713.8	4656.1	3696.4	3247.4	3157.3	3133.6	3139.9	3144.7	3119.4	3136.8
37.5°	6480.6	6063.2	4578.6	3437.1	3097.2	3000.8	2950.2	2907.5	2882.2	2858.5	2874.3
40°	7051.4	6444.3	4436.4	3184.2	2929.6	2834.8	2758.9	2678.3	2592.9	2561.3	2575.5
42.5°	7649.0	6836.4	4264.0	2942.3	2736.8	2659.3	2578.7	2461.7	2333.6	2268.8	2276.7
45°	8268.8	7237.9	4094.9	2703.6	2539.1	2505.9	2412.6	2271.9	2132.8	2050.6	2044.3
47.5°	8875.9	7617.4	3846.6	2463.2	2354.1	2390.5	2317.8	2188.1	2033.2	1903.6	1889.3
50°	9456.1	7973.1	3440.3	2219.8	2203.9	2355.7	2286.2	2099.6	1922.5	1756.5	1742.3
52.5°	10031.6	8260.9	2920.2	1998.4	2123.3	2346.2	2245.1	2039.5	1822.9	1649.0	1630.0
55°	10520.1	8409.5	2419.0	1808.7	2006.3	2265.6	2196.0	1968.4	1682.2	1497.2	1481.4
57.5°	10798.4	8289.3	2001.6	1622.1	1845.1	2132.8	2112.2	1816.6	1514.6	1372.3	1353.4
60°	10678.2	7802.4	1660.1	1459.3	1691.7	1988.9	1966.8	1666.4	1386.6	1252.2	1233.2
62.5°	10015.8	6874.3	1389.7	1317.0	1552.6	1841.9	1821.3	1551.0	1288.5	1158.9	1138.3
65°	8681.4	5592.1	1179.4	1198.4	1411.9	1664.8	1694.9	1454.5	1211.1	1084.6	1064.0
67.5°	6621.3	4050.6	1015.0	1095.7	1274.3	1490.9	1577.9	1385.0	1146.2	1026.1	1007.1
70°	3773.9	2300.4	875.9	996.0	1152.6	1329.6	1487.7	1329.6	1076.7	977.1	964.4
72.5°	1430.8	1056.1	757.3	896.4	1035.6	1193.7	1388.1	1242.7	996.0	921.7	909.1
75°	763.6	643.5	637.2	779.4	901.2	1060.9	1263.2	1157.3	936.0	973.9	1005.5
77.5°	520.2	455.3	532.8	667.2	754.1	913.8	1130.4	1027.7	811.1	807.9	744.7
80°	360.5	322.5	433.2	537.5	583.4	768.4	986.6	882.2	660.9	616.6	589.7
82.5°	216.6	210.3	324.1	401.6	412.6	592.9	817.4	739.9	540.7	471.1	474.3
85°	118.6	124.9	207.1	235.6	240.3	414.2	640.3	572.3	415.8	349.4	352.6
87.5°	33.2	42.7	75.9	93.3	115.4	215.0	381.0	339.9	208.7	145.5	145.5
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)