

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: P954846

Luminaire Tested: **GALN-SB8A-722-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954846  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8A-722-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

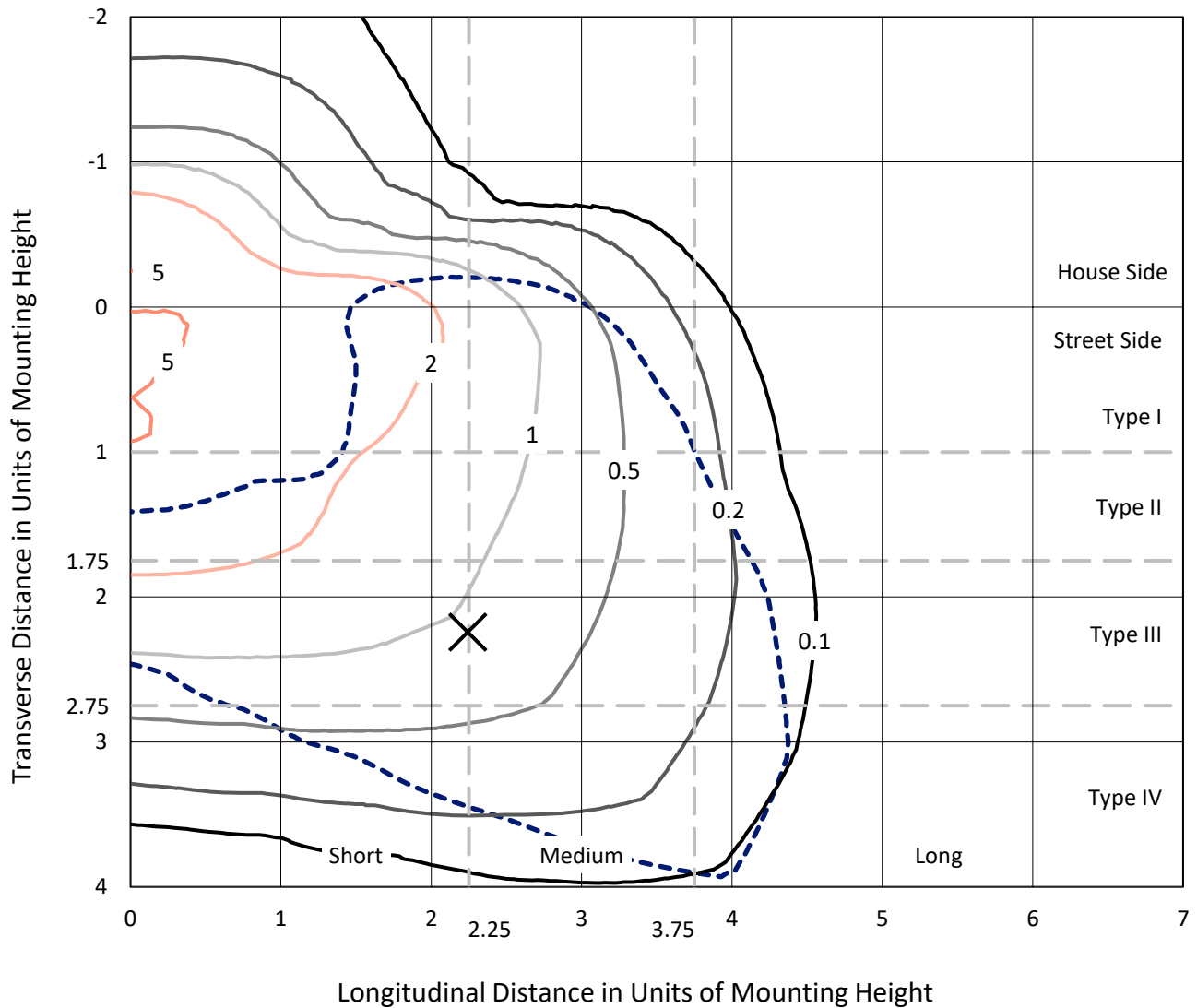
Lumens per Lamp: N/A  
Luminaire Lumens: 29906 lumens  
Efficiency: N/A  
Efficacy: 131.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 227.1  
Input Voltage (V): NR  
Input Current (Ain): 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

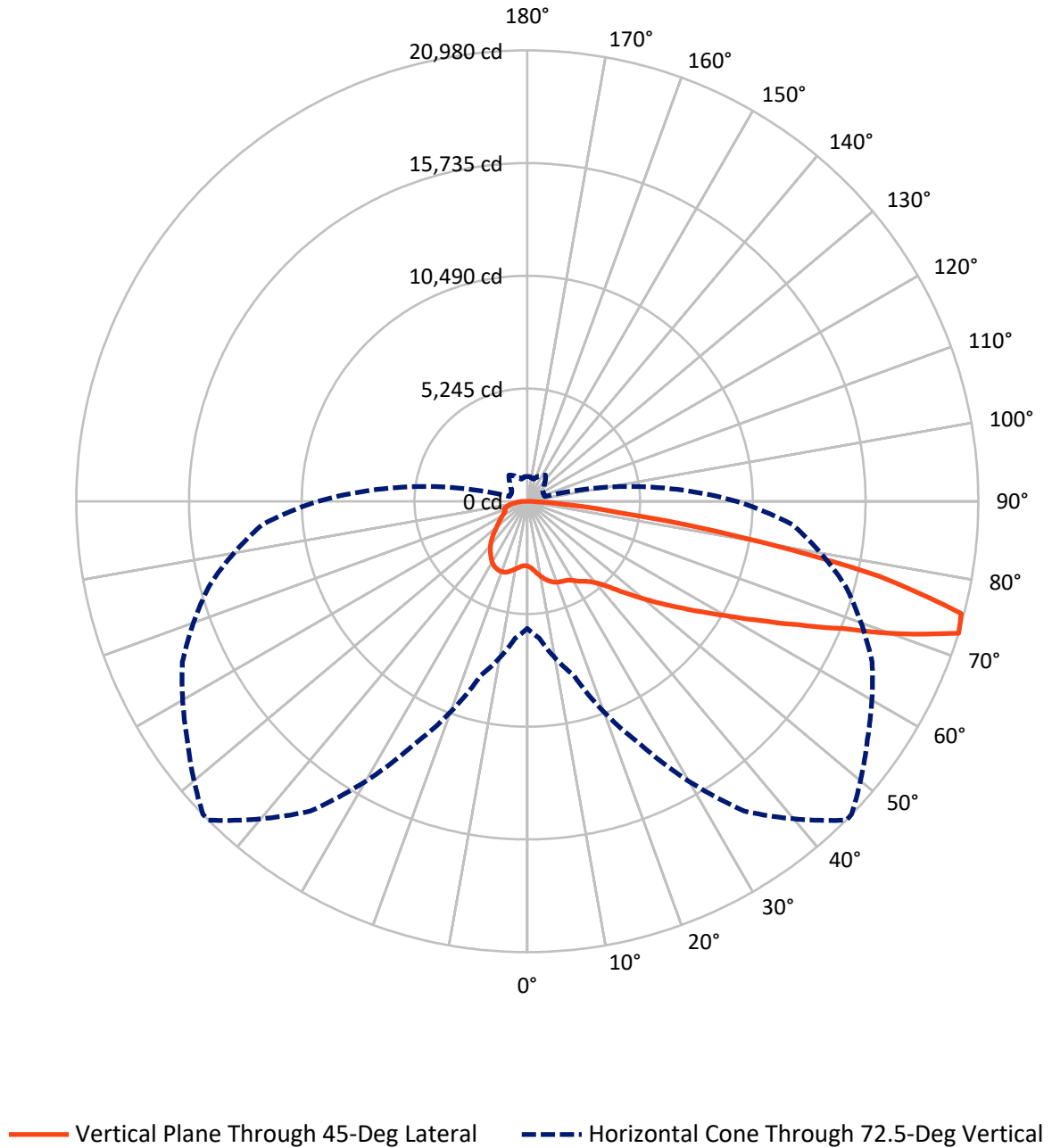
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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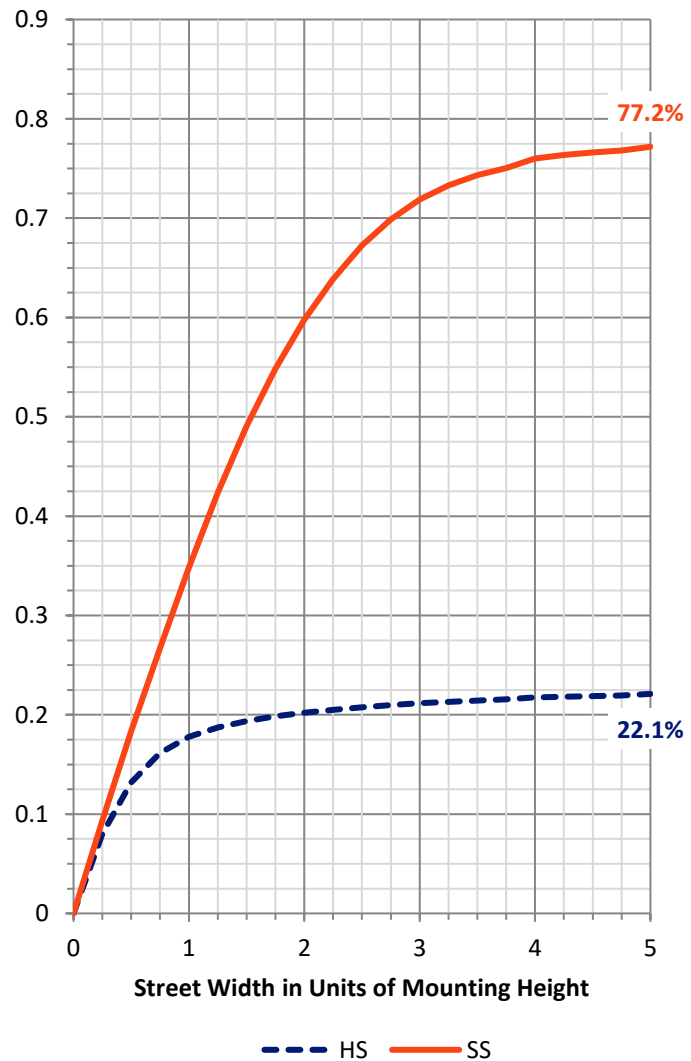
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6760.7	0.0	6760.7
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	23145.3	0.0	23145.3
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	29906.0	0.0	29906.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	307.1	1.0
10°-20°	1023.8	3.4
20°-30°	1780.9	6.0
30°-40°	2553.1	8.5
40°-50°	3594.9	12.0
50°-60°	5506.3	18.4
60°-70°	7976.7	26.7
70°-80°	6369.9	21.3
80°-90°	793.3	2.7
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°	29906.0	100.0
0°-180°	29906.0	100.0



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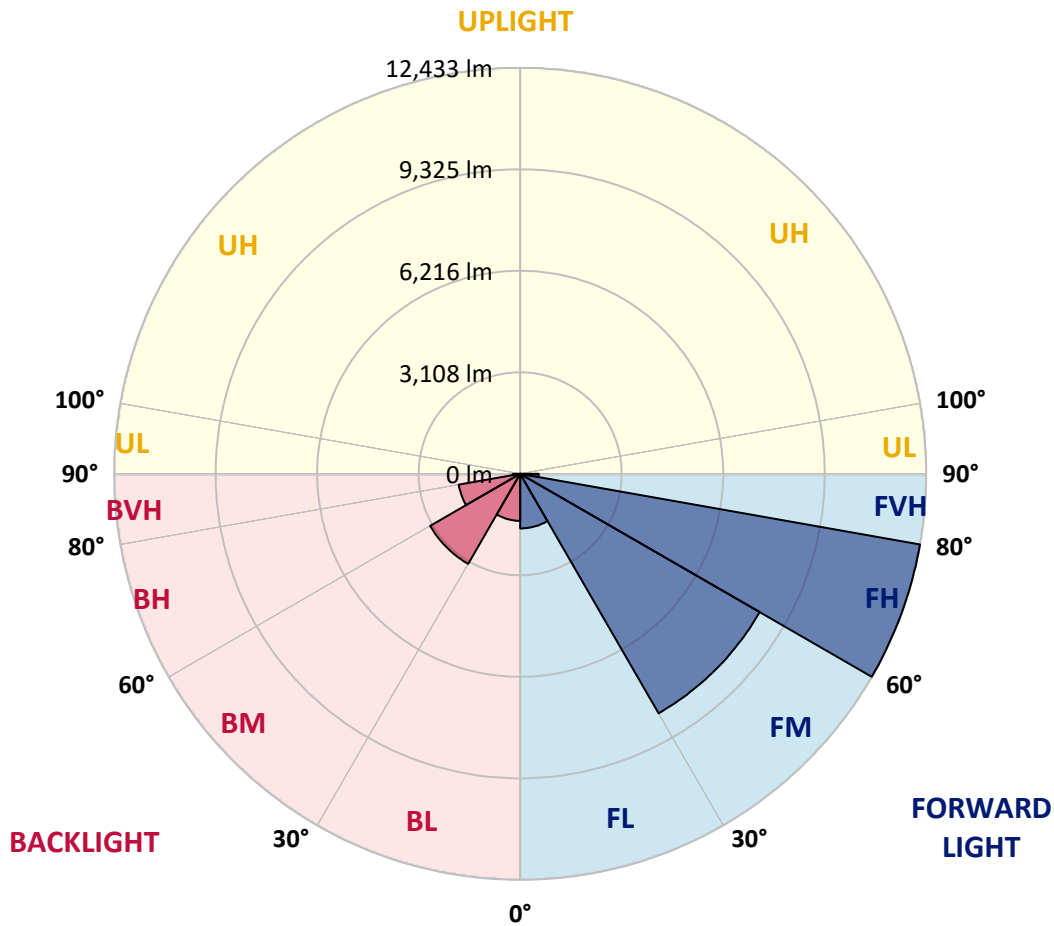
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1672.4	5.6			
FM (30°-60°)	8470.9	28.3			
FH (60°-80°)	12432.8	41.6			G5
FVH (80°-90°)	569.2	1.9			G4/750
BL (0°-30°)	1439.4	4.8	B3/2500		
BM (30°-60°)	3183.3	10.6	B3/5000		
BH (60°-80°)	1913.8	6.4	B3/2500		G3/2500
BVH (80°-90°)	224.2	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3016.9	3016.9	3016.9	3016.9	3016.9	3016.9	3016.9	3016.9	3016.9	3016.9	3016.9
2.5°	3135.1	3155.6	3136.7	3119.3	3111.5	3091.0	3089.4	3076.8	3068.9	3046.9	3040.6
5°	3354.1	3380.9	3349.3	3314.7	3283.2	3232.8	3226.5	3190.2	3149.3	3102.0	3075.2
7.5°	3601.4	3625.0	3588.8	3536.8	3481.7	3398.2	3396.6	3330.4	3265.9	3185.5	3139.8
10°	3817.2	3848.8	3799.9	3729.0	3659.7	3565.2	3554.2	3478.5	3396.6	3292.6	3223.3
12.5°	4007.9	4029.9	3982.7	3896.0	3815.7	3721.1	3707.0	3623.5	3532.1	3413.9	3325.7
15°	4159.1	4187.5	4124.5	4031.5	3946.4	3853.5	3840.9	3765.3	3673.9	3549.4	3436.0
17.5°	4258.4	4282.0	4217.4	4113.4	4031.5	3954.3	3944.9	3881.8	3801.5	3675.5	3554.2
20°	4296.2	4321.4	4253.6	4148.1	4072.5	4012.6	4007.9	3962.2	3907.0	3792.0	3669.2
22.5°	4334.0	4357.6	4269.4	4159.1	4092.9	4055.1	4053.6	4023.6	4001.6	3907.0	3787.3
25°	4486.8	4493.1	4374.9	4215.8	4121.3	4088.2	4086.6	4085.1	4094.5	4020.5	3914.9
27.5°	4619.1	4617.6	4516.7	4367.1	4220.6	4151.2	4149.7	4165.4	4195.3	4133.9	4047.3
30°	4812.9	4795.6	4675.9	4519.9	4386.0	4278.8	4269.4	4255.2	4278.8	4230.0	4179.6
32.5°	5224.1	5169.0	4975.2	4697.9	4523.0	4441.1	4428.5	4340.3	4349.7	4319.8	4294.6
35°	5813.3	5740.8	5482.5	5035.0	4693.2	4576.6	4570.3	4458.4	4439.5	4412.8	4422.2
37.5°	6514.4	6424.6	6123.7	5523.4	4986.2	4734.1	4724.7	4623.9	4546.7	4518.3	4571.9
40°	7218.6	7105.2	6856.2	6118.9	5417.9	4997.2	4967.3	4814.5	4726.3	4679.0	4792.4
42.5°	7902.3	7807.8	7595.1	6786.9	5950.4	5381.6	5315.5	5054.0	4987.8	4943.7	5148.5
45°	8507.3	8422.2	8266.2	7500.6	6574.2	5904.7	5840.1	5413.2	5392.7	5392.7	5688.8
47.5°	8998.8	8979.9	8814.5	8228.4	7310.0	6500.2	6388.3	5912.6	5967.7	6052.8	6456.1
50°	9543.9	9491.9	9315.5	8945.2	8174.9	7182.3	7091.0	6525.4	6731.8	6964.9	7565.2
52.5°	10044.9	10073.2	9876.3	9692.0	9151.6	7943.3	7782.6	7248.5	7694.4	8080.3	8864.9
55°	10560.1	10561.6	10506.5	10481.3	10175.7	8784.6	8608.1	8118.2	8827.1	9306.0	10380.5
57.5°	11043.7	11046.9	11128.8	11350.9	11363.5	9755.0	9554.9	9186.3	10085.9	10574.2	11943.3
60°	11475.4	11497.4	11721.1	12241.0	12408.0	10867.3	10678.2	10448.2	11387.2	11878.7	13586.4
62.5°	11620.3	11700.7	12198.5	12937.4	13439.9	12231.6	12045.7	11908.6	12754.6	13211.5	14960.2
65°	11374.5	11558.9	12521.5	13512.4	14501.8	13852.7	13668.4	13518.7	14175.6	14605.7	16088.2
67.5°	10771.2	11009.0	12502.5	14115.8	15790.5	15803.1	15631.3	15280.0	15699.1	15864.5	16455.3
70°	9181.6	9537.6	11401.3	14341.1	17269.8	18470.2	18304.8	17400.5	17219.4	16419.0	15421.8
72.5°	5915.7	6394.6	8395.4	12486.8	17599.0	20979.9	20970.4	19314.7	17699.9	15341.5	12368.6
75°	2158.3	2451.4	3900.7	7837.7	14772.7	20852.3	20913.7	18987.0	16157.5	11850.3	7705.4
77.5°	786.1	860.2	1272.9	3012.2	9085.5	16731.0	16858.6	15179.2	11500.6	5947.2	3053.2
80°	412.8	453.7	652.2	1169.0	3892.9	9936.2	10136.3	9020.9	5405.3	1791.3	915.3
82.5°	228.4	247.3	365.5	634.9	1753.4	4248.9	4368.6	3563.6	1901.5	759.4	378.1
85°	122.9	130.8	171.7	346.6	857.0	1473.0	1506.1	1065.0	757.8	445.8	182.7
87.5°	36.2	44.1	56.7	110.3	335.6	330.8	338.7	211.1	299.3	225.3	59.9
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°	3016.9	3016.9	3016.9	3016.9	3016.9	3016.9	3016.9	3016.9	3016.9	3016.9	3016.9
2.5°	3031.1	3026.4	3009.1	3001.2	2991.7	2990.2	2998.0	2999.6	3001.2	3002.8	3009.1
5°	3059.5	3043.7	3028.0	3018.5	3021.7	3023.2	3039.0	3050.0	3057.9	3064.2	3067.3
7.5°	3114.6	3102.0	3075.2	3073.6	3078.4	3092.6	3113.0	3138.2	3152.4	3163.4	3166.6
10°	3196.5	3172.9	3141.4	3146.1	3155.6	3176.1	3218.6	3239.1	3262.7	3283.2	3278.5
12.5°	3280.0	3259.5	3223.3	3226.5	3242.2	3278.5	3319.4	3344.6	3360.4	3376.1	3382.4
15°	3388.7	3352.5	3313.1	3313.1	3341.5	3380.9	3399.8	3420.2	3429.7	3447.0	3453.3
17.5°	3500.6	3453.3	3401.3	3398.2	3432.8	3451.7	3462.8	3465.9	3469.1	3488.0	3494.3
20°	3612.4	3560.5	3486.4	3480.1	3488.0	3484.8	3483.3	3480.1	3484.8	3508.5	3517.9
22.5°	3722.7	3662.9	3560.5	3532.1	3510.0	3480.1	3478.5	3477.0	3480.1	3503.7	3519.5
25°	3851.9	3779.4	3642.4	3557.3	3483.3	3442.3	3447.0	3448.6	3451.7	3470.7	3495.9
27.5°	3992.1	3911.8	3718.0	3549.4	3415.5	3387.2	3379.3	3384.0	3395.0	3425.0	3454.9
30°	4132.3	4037.8	3787.3	3517.9	3330.4	3291.1	3265.9	3276.9	3311.5	3341.5	3374.6
32.5°	4259.9	4165.4	3842.5	3448.6	3221.7	3160.3	3127.2	3141.4	3176.1	3187.1	3226.5
35°	4409.6	4302.5	3866.1	3338.3	3103.6	3009.1	2964.9	2944.5	2961.8	2950.8	2985.4
37.5°	4576.6	4464.7	3862.9	3193.4	2964.9	2856.2	2794.8	2717.6	2681.4	2643.6	2667.2
40°	4823.9	4663.2	3825.1	3018.5	2793.2	2694.0	2583.7	2452.9	2371.0	2297.0	2301.7
42.5°	5161.1	4938.9	3755.8	2826.3	2599.4	2506.5	2356.8	2204.0	2074.8	1951.9	1940.9
45°	5663.6	5299.7	3669.2	2621.5	2389.9	2298.5	2136.3	1964.6	1818.0	1660.5	1641.6
47.5°	6388.3	5784.9	3587.2	2388.3	2169.4	2085.9	1939.3	1780.2	1606.9	1454.1	1436.8
50°	7384.0	6481.3	3511.6	2161.5	1951.9	1888.9	1772.3	1610.1	1435.2	1312.3	1304.4
52.5°	8650.6	7428.1	3480.1	1942.5	1748.7	1725.1	1632.1	1480.9	1315.5	1211.5	1203.6
55°	10104.8	8560.8	3480.1	1733.0	1570.7	1578.6	1514.0	1373.8	1230.4	1137.5	1128.0
57.5°	11588.8	9707.8	3417.1	1539.2	1419.5	1452.5	1411.6	1288.7	1159.5	1063.4	1047.7
60°	12956.3	10668.8	3161.9	1362.7	1285.5	1337.5	1310.8	1205.2	1047.7	967.3	954.7
62.5°	14007.1	11210.7	2670.3	1222.5	1175.3	1235.1	1221.0	1094.9	1027.2	994.1	983.1
65°	14533.3	11122.5	2041.7	1098.1	1082.3	1175.3	1145.3	1140.6	1087.0	1049.2	1036.6
67.5°	14210.3	10363.1	1480.9	1006.7	1028.8	1120.1	1235.1	1254.0	1154.8	1080.7	1068.1
70°	12794.0	8989.4	1102.8	920.0	961.0	1121.7	1408.4	1312.3	1132.7	1046.1	1031.9
72.5°	9733.0	6703.4	855.5	828.7	872.8	1129.6	1485.6	1285.5	1069.7	1156.4	1146.9
75°	5566.0	3680.2	686.9	716.8	762.5	1055.5	1446.2	1216.2	1020.9	1061.8	1061.8
77.5°	2122.1	1414.7	567.2	606.5	612.8	921.6	1383.2	1211.5	972.0	948.4	864.9
80°	735.7	553.0	469.5	482.1	474.2	819.2	1326.5	1054.0	795.6	712.1	688.5
82.5°	300.9	275.7	371.8	356.0	337.1	636.5	1071.3	861.8	650.6	575.0	568.7
85°	130.8	174.9	245.8	215.8	195.4	441.1	858.6	729.4	549.8	474.2	472.6
87.5°	26.8	66.2	104.0	97.7	100.8	294.6	609.7	518.3	389.1	291.5	228.4
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)