

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: P453286

Luminaire Tested: **GALN-SA4B-740-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453286  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA4B-740-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22322 lumens  
Efficiency: N/A  
Efficacy: 136.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

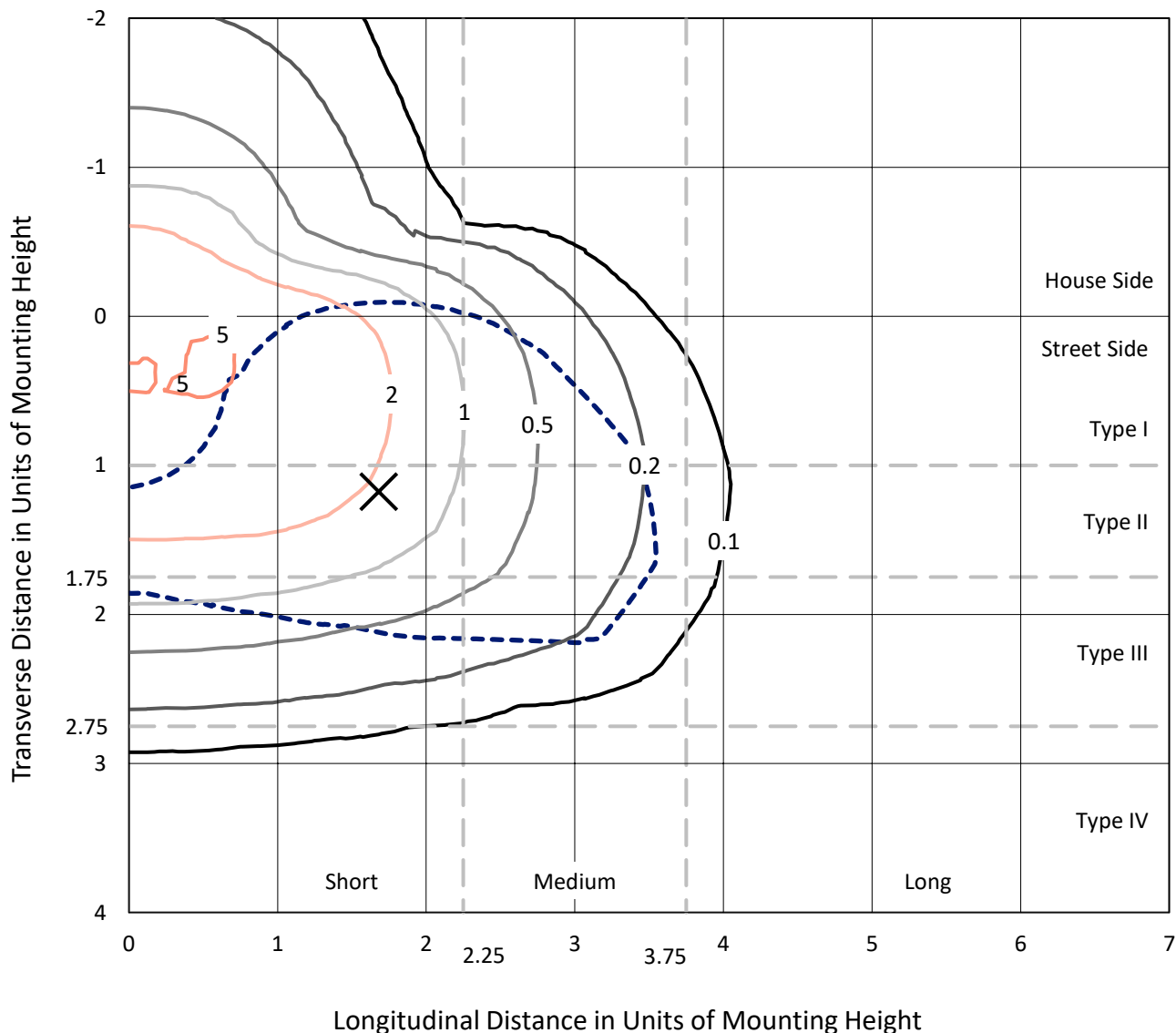
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

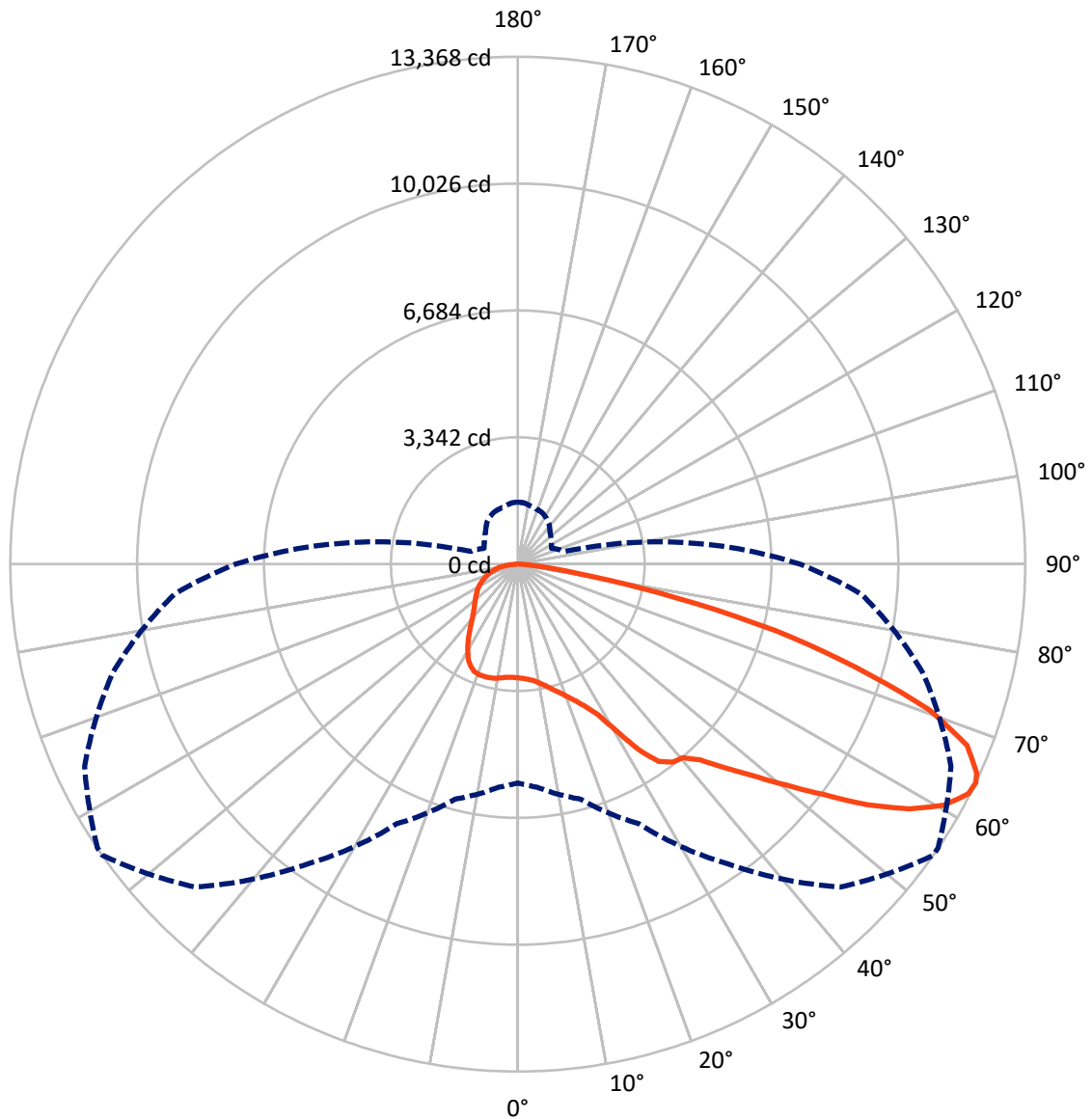
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 64-Deg Vertical

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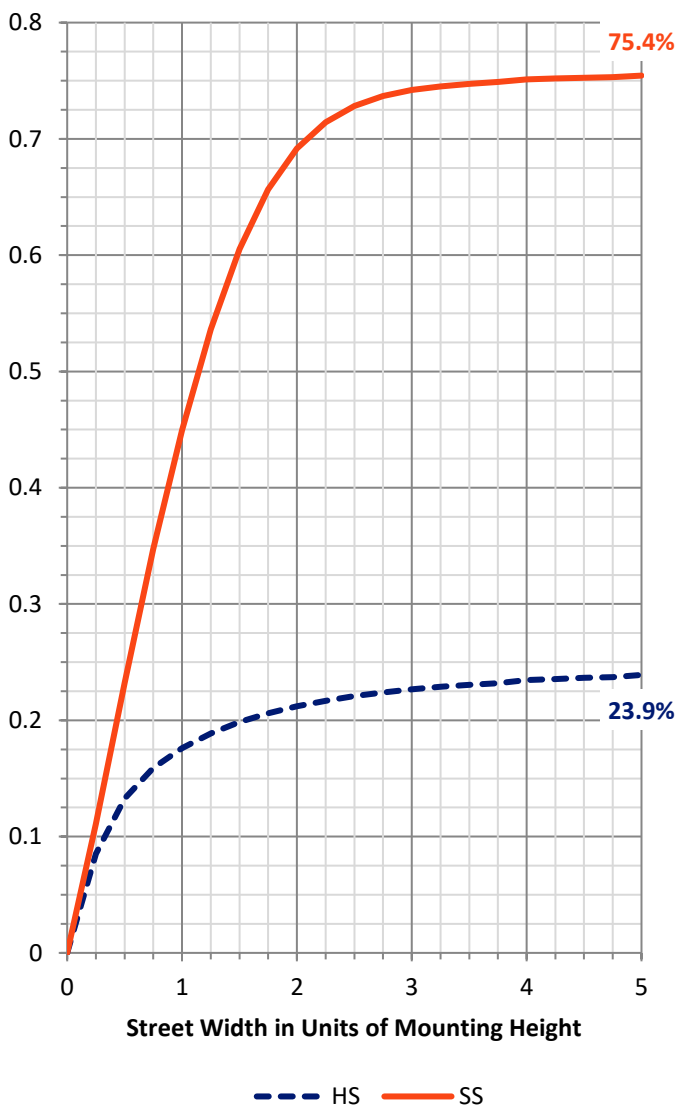
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5422.4	0.0	5422.4
	% Fixture	24.3	0.0	24.3
<b>Street Side</b>	Lumens	16899.5	0.0	16899.5
	% Fixture	75.7	0.0	75.7
<b>Total</b>	Lumens	22322.0	0.0	22322.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	291.3	1.3
10°-20°	919.2	4.1
20°-30°	1636.5	7.3
30°-40°	2517.9	11.3
40°-50°	3569.3	16.0
50°-60°	5166.5	23.1
60°-70°	5346.8	24.0
70°-80°	2503.9	11.2
80°-90°	370.7	1.7
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°	22322.0	100.0
0°-180°	22322.0	100.0



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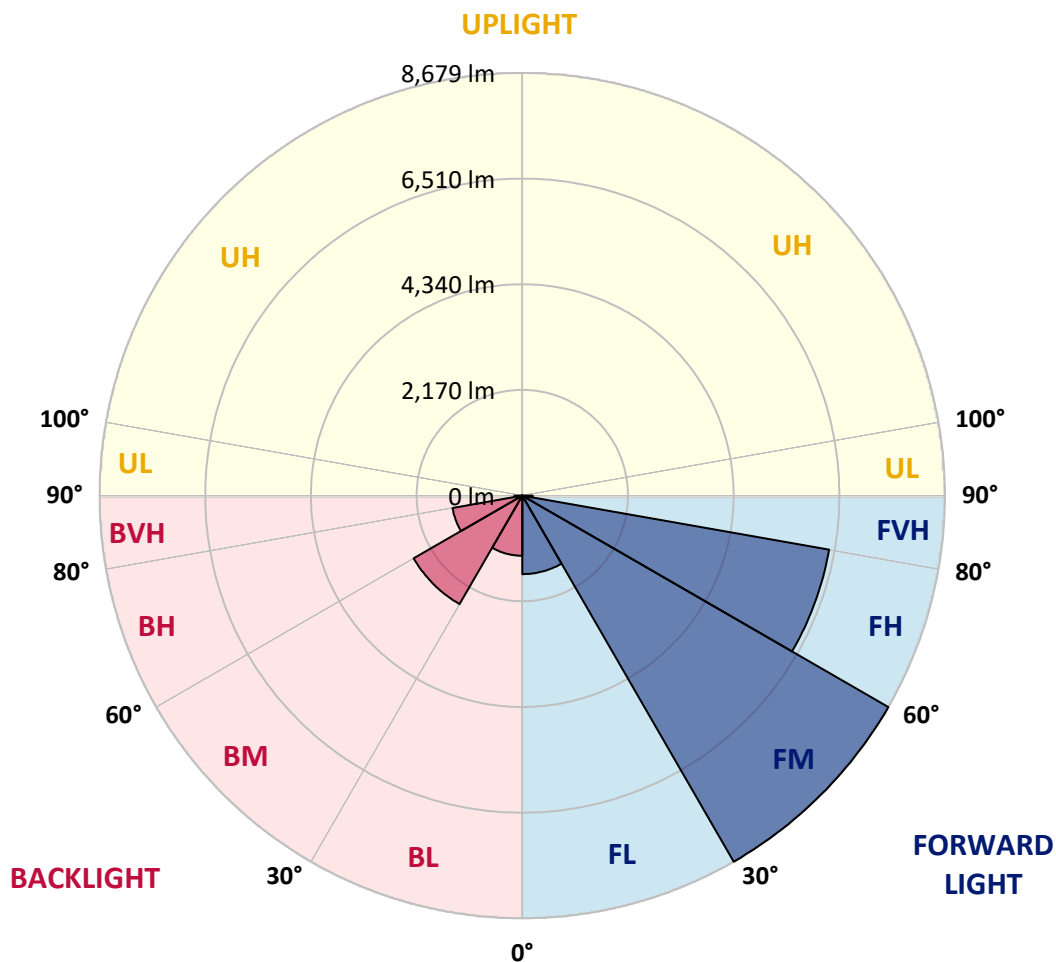
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1612.0	7.2			
FM	(30°-60°)	8679.4	38.9			
FH	(60°-80°)	6395.9	28.7			G3/7500
FVH	(80°-90°)	212.2	1.0			G2/225
BL	(0°-30°)	1235.0	5.5	B3/2500		
BM	(30°-60°)	2574.3	11.5	B3/5000		
BH	(60°-80°)	1454.7	6.5	B3/2500		G3/2500
BVH	(80°-90°)	158.4	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-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2994.9	2994.9	2994.9	2994.9	2994.9	2994.9	2994.9	2994.9	2994.9	2994.9	2994.9
2.5°	3028.5	3027.3	3031.0	3027.3	3029.8	3021.1	3017.3	3019.8	3016.1	3009.9	2998.7
5°	3065.9	3064.6	3065.9	3060.9	3063.4	3058.4	3049.7	3052.2	3046.0	3032.3	3016.1
7.5°	3129.3	3124.3	3124.3	3123.1	3118.1	3110.7	3104.4	3101.9	3095.7	3078.3	3053.4
10°	3211.4	3211.4	3212.7	3202.7	3209.0	3195.3	3189.0	3187.8	3166.6	3144.3	3109.4
12.5°	3319.7	3325.9	3322.2	3317.2	3314.7	3309.7	3288.6	3293.6	3269.9	3231.3	3189.0
15°	3454.1	3464.0	3457.8	3455.3	3449.1	3430.4	3421.7	3418.0	3386.9	3330.9	3274.9
17.5°	3632.0	3619.6	3614.6	3608.4	3582.2	3568.5	3553.6	3551.1	3523.7	3457.8	3370.7
20°	3787.5	3805.0	3795.0	3788.8	3762.6	3736.5	3725.3	3721.6	3697.9	3625.8	3486.4
22.5°	3972.9	3976.7	3980.4	3965.5	3953.0	3933.1	3913.2	3907.0	3898.3	3823.6	3653.2
25°	4170.8	4185.7	4173.3	4158.3	4143.4	4142.1	4160.8	4158.3	4154.6	4082.4	3874.6
27.5°	4493.0	4506.7	4510.4	4494.3	4437.0	4442.0	4484.3	4498.0	4555.2	4435.8	4159.6
30°	4674.7	4688.4	4719.5	4780.5	4871.3	4950.9	5052.9	5084.1	5138.8	4913.6	4498.0
32.5°	4786.7	4791.7	4847.6	4960.9	5233.4	5530.7	5808.2	5819.4	5854.3	5538.2	4807.8
35°	4963.4	4967.1	5011.9	5136.3	5456.1	5951.3	6380.6	6394.3	6365.6	5732.3	4952.2
37.5°	5181.1	5191.1	5219.7	5323.0	5704.9	6303.4	6618.2	6608.3	6354.4	5886.6	5207.2
40°	5498.4	5498.4	5464.8	5604.2	5967.5	6505.0	6701.6	6684.2	6617.0	6333.3	5595.4
42.5°	5778.4	5773.4	5853.0	5947.6	6296.0	6816.1	7051.2	7079.9	7190.6	6894.5	6037.2
45°	6142.9	6165.3	6210.1	6381.8	6854.6	7347.4	7651.0	7678.3	7835.1	7555.2	6553.5
47.5°	6511.2	6518.7	6659.3	6888.2	7546.4	8067.8	8316.6	8361.4	8504.5	8327.8	7109.7
50°	6772.5	6843.4	7068.7	7429.5	8259.4	8946.2	9140.3	9193.9	9446.4	9169.0	7758.0
52.5°	7048.7	7118.4	7393.4	7943.4	9078.1	9844.6	10083.5	10119.6	10382.1	10020.0	8421.2
55°	7285.2	7349.9	7662.2	8398.8	9730.1	10761.6	11194.6	11152.3	11278.0	10675.8	8932.6
57.5°	7323.7	7376.0	7769.2	8689.9	10220.4	11548.0	12168.9	12193.8	12048.2	11166.0	9354.4
60°	7025.1	7132.1	7583.8	8658.8	10440.6	12095.5	12895.5	12913.0	12499.9	11417.3	9522.3
62.5°	6496.3	6485.1	7031.3	8158.6	10132.0	12219.9	13323.6	13304.9	12676.5	11296.7	9359.3
64°	5765.9	5900.3	6410.4	7544.0	9634.3	12028.3	13368.4	13358.4	12591.9	11045.3	9081.9
65°	5320.5	5313.0	5816.9	7041.3	9139.1	11739.6	13288.7	13275.0	12415.2	10820.1	8866.6
67.5°	3841.0	3858.5	4356.2	5433.7	7429.5	10611.1	12769.9	12718.8	11718.5	10073.5	8047.9
70°	2326.8	2336.7	2727.4	3604.6	5332.9	8577.9	11510.7	11513.2	10652.1	8958.7	6849.7
72.5°	1225.6	1251.7	1408.5	2046.8	3238.8	6018.5	9338.2	9559.7	9145.3	7646.0	5411.3
75°	681.9	685.6	796.3	1009.1	1652.4	3368.2	7018.9	7082.3	7240.4	6154.1	4001.5
77.5°	520.1	527.6	562.4	652.0	899.6	1561.5	4247.9	4566.4	5102.7	4338.7	2283.2
80°	421.8	429.3	459.1	512.6	598.5	740.3	1973.4	2145.1	2731.2	1926.1	890.9
82.5°	328.5	323.5	362.1	396.9	435.5	438.0	810.0	895.9	1112.4	828.7	385.7
85°	243.9	243.9	275.0	267.5	281.2	256.3	357.1	394.4	445.4	352.1	179.2
87.5°	97.1	107.0	180.4	161.8	125.7	100.8	131.9	139.4	154.3	138.1	74.7
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°	2994.9	2994.9	2994.9	2994.9	2994.9	2994.9	2994.9	2994.9	2994.9	2994.9	2994.9
2.5°	2999.9	3003.6	2994.9	2988.7	2986.2	2982.5	2978.8	2980.0	2985.0	2990.0	2988.7
5°	3014.8	3016.1	3001.2	2993.7	2988.7	2983.7	2983.7	2987.5	2997.4	3004.9	3004.9
7.5°	3052.2	3052.2	3031.0	3017.3	3009.9	3001.2	2998.7	2999.9	3007.4	3017.3	3018.6
10°	3110.7	3105.7	3078.3	3057.2	3043.5	3022.3	3003.6	2993.7	2997.4	3003.6	3003.6
12.5°	3181.6	3167.9	3133.1	3104.4	3070.8	3031.0	2992.5	2972.5	2971.3	2977.5	2975.0
15°	3257.5	3242.5	3194.0	3141.8	3083.3	3024.8	2978.8	2950.1	2927.7	2921.5	2935.2
17.5°	3345.8	3314.7	3247.5	3175.4	3088.3	3012.4	2940.2	2881.7	2841.9	2830.7	2834.4
20°	3452.8	3411.8	3320.9	3207.7	3084.5	2967.6	2855.6	2777.2	2712.5	2692.6	2695.1
22.5°	3600.9	3530.0	3396.8	3223.9	3053.4	2883.0	2727.4	2625.4	2547.0	2515.9	2534.6
25°	3768.9	3691.7	3469.0	3220.2	2972.5	2747.3	2575.6	2442.5	2371.6	2325.5	2335.5
27.5°	4000.3	3863.4	3546.1	3186.6	2856.8	2581.8	2382.8	2257.1	2192.4	2168.7	2179.9
30°	4296.4	4086.2	3629.5	3095.7	2673.9	2372.8	2188.7	2106.5	2068.0	2038.1	2048.1
32.5°	4510.4	4242.9	3648.2	2942.7	2476.1	2182.4	2056.8	1995.8	1953.5	1924.9	1931.1
35°	4663.5	4376.1	3639.5	2754.8	2269.5	2025.7	1952.2	1902.5	1834.0	1771.8	1760.6
37.5°	4868.8	4542.8	3576.0	2549.5	2065.5	1919.9	1867.6	1775.6	1677.3	1593.9	1590.2
40°	5183.6	4738.1	3440.4	2308.1	1891.3	1841.5	1778.1	1658.6	1552.8	1485.6	1480.7
42.5°	5508.3	4918.6	3256.2	2054.3	1748.2	1759.4	1682.2	1564.0	1499.3	1455.8	1450.8
45°	5905.3	5113.9	3057.2	1834.0	1642.4	1682.2	1598.9	1530.4	1491.9	1463.3	1455.8
47.5°	6334.5	5314.2	2833.2	1636.2	1552.8	1611.3	1564.0	1532.9	1511.8	1491.9	1483.2
50°	6797.4	5538.2	2622.9	1476.9	1472.0	1537.9	1560.3	1549.1	1536.7	1530.4	1523.0
52.5°	7305.1	5767.2	2446.2	1365.0	1401.0	1485.6	1561.5	1570.3	1570.3	1566.5	1561.5
55°	7648.5	5926.4	2267.0	1274.1	1328.9	1443.3	1559.1	1592.7	1605.1	1600.1	1595.1
57.5°	7902.3	6013.5	2041.8	1195.7	1267.9	1402.3	1545.4	1595.1	1607.6	1613.8	1611.3
60°	7954.6	5932.6	1746.9	1113.6	1202.0	1342.6	1495.6	1557.8	1574.0	1612.6	1616.3
62.5°	7719.4	5683.8	1453.3	1032.7	1121.1	1251.7	1428.4	1515.5	1547.9	1607.6	1613.8
64°	7430.7	5405.1	1290.3	981.7	1068.8	1200.7	1394.8	1504.3	1546.6	1626.3	1631.2
65°	7219.2	5202.3	1188.3	949.4	1035.2	1167.1	1376.2	1508.0	1557.8	1654.9	1662.3
67.5°	6440.3	4504.2	983.0	873.5	955.6	1109.9	1379.9	1539.2	1555.3	1666.1	1664.8
70°	5329.2	3586.0	823.7	803.8	878.4	1063.8	1365.0	1489.4	1490.6	1564.0	1546.6
72.5°	3990.3	2650.3	714.2	731.6	792.6	954.3	1289.1	1422.2	1401.0	1411.0	1393.6
75°	2741.1	1753.2	614.7	654.5	703.0	843.6	1182.0	1291.5	1257.9	1245.5	1233.1
77.5°	1463.3	969.3	511.4	578.6	610.9	729.1	1031.5	1137.3	1102.4	1053.9	1037.7
80°	592.3	456.6	411.9	479.0	497.7	587.3	858.5	924.5	898.4	813.7	786.4
82.5°	297.4	273.7	323.5	377.0	378.3	419.3	638.3	700.5	642.0	538.8	515.1
85°	155.5	160.5	222.7	265.0	233.9	226.5	383.2	424.3	389.5	338.4	304.8
87.5°	56.0	64.7	117.0	115.7	82.1	43.5	84.6	41.1	22.4	13.7	17.4
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)