

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: P652558

Luminaire Tested: **GALN-SA8B-840-U-SL4**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652558  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8B-840-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37824.8 lumens  
Efficiency: N/A  
Efficacy: 116.4 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

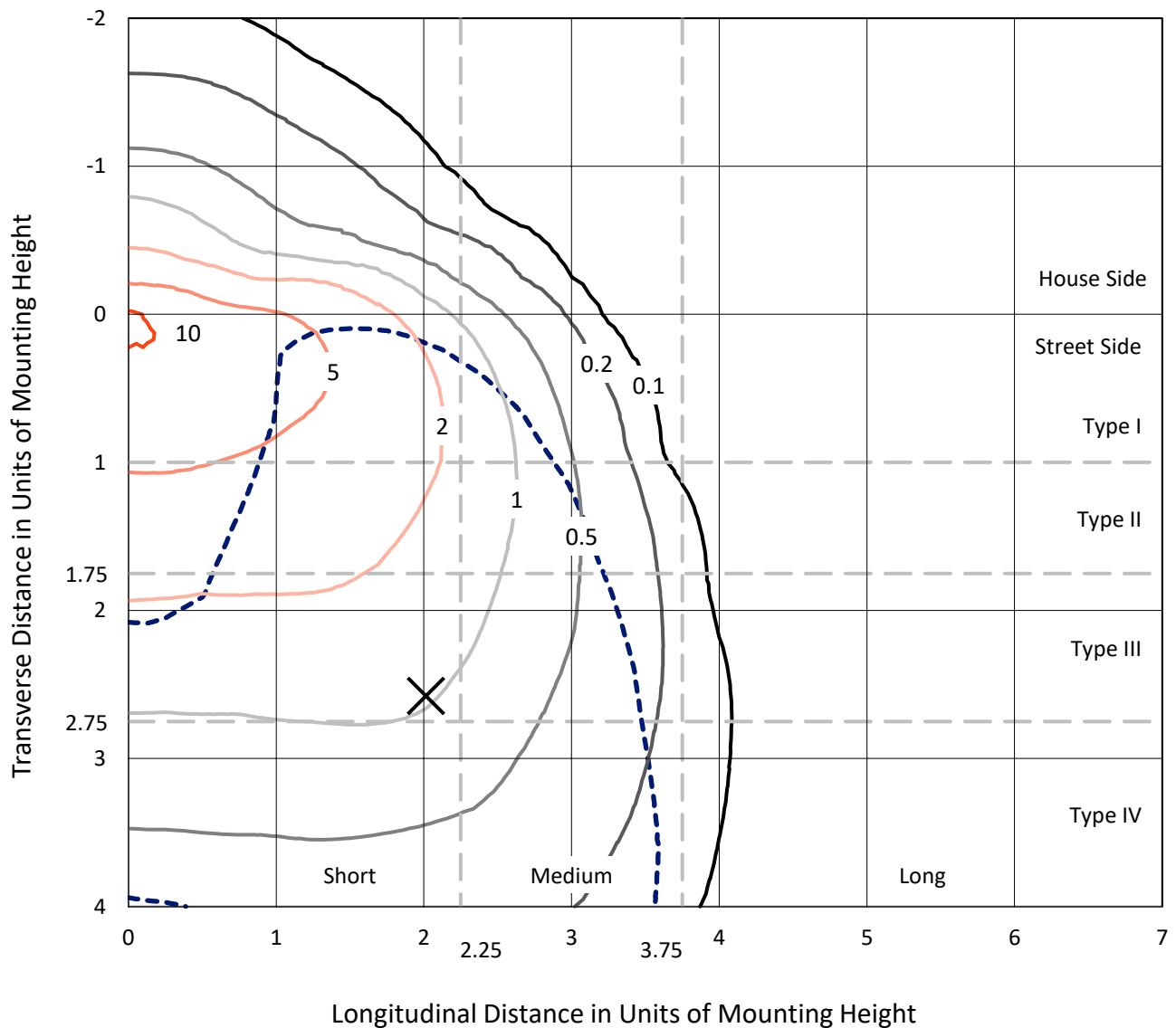
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

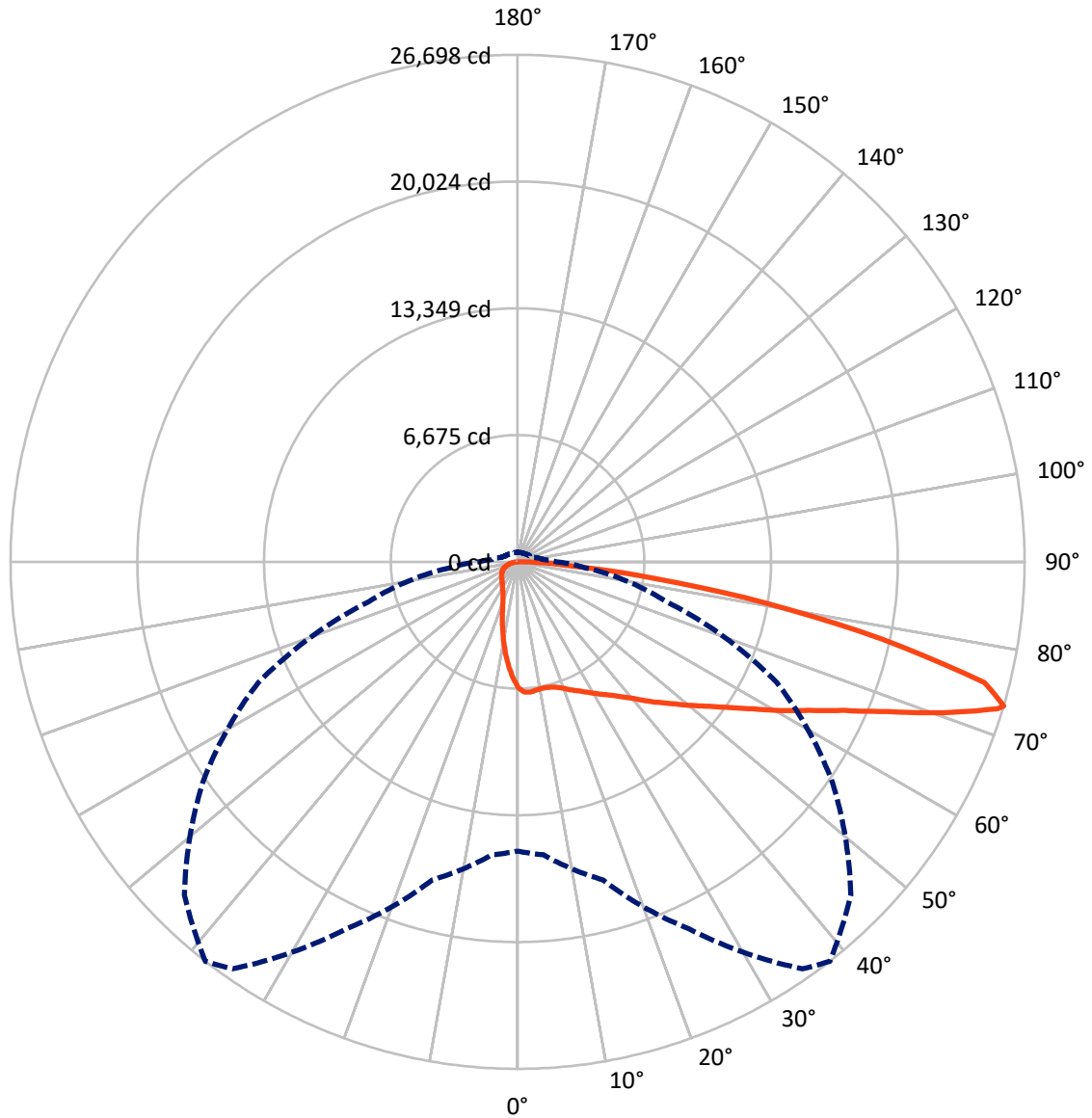
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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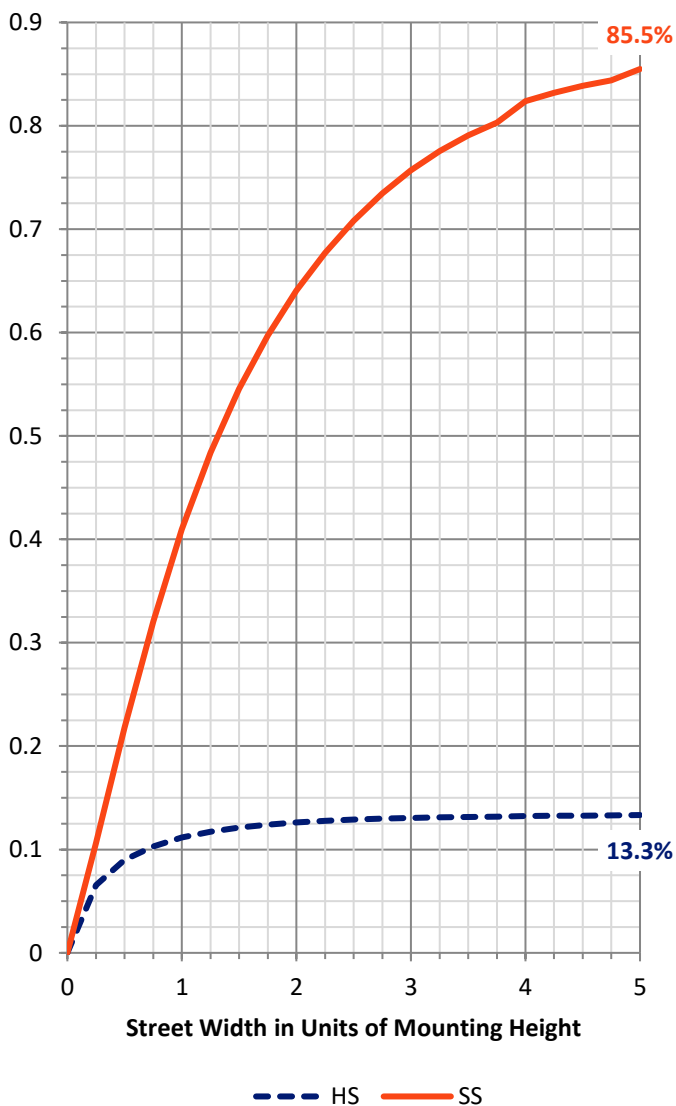
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5084.8	0.0	5084.8
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	32740.0	0.0	32740.0
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	37824.8	0.0	37824.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	580.0	1.5
10°-20°	1487.4	3.9
20°-30°	2316.2	6.1
30°-40°	3397.4	9.0
40°-50°	5039.6	13.3
50°-60°	7140.1	18.9
60°-70°	9057.5	23.9
70°-80°	7539.7	19.9
80°-90°	1266.8	3.3
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°	37824.8	100.0
0°-180°	37824.8	100.0

**Coefficient of Utilization**



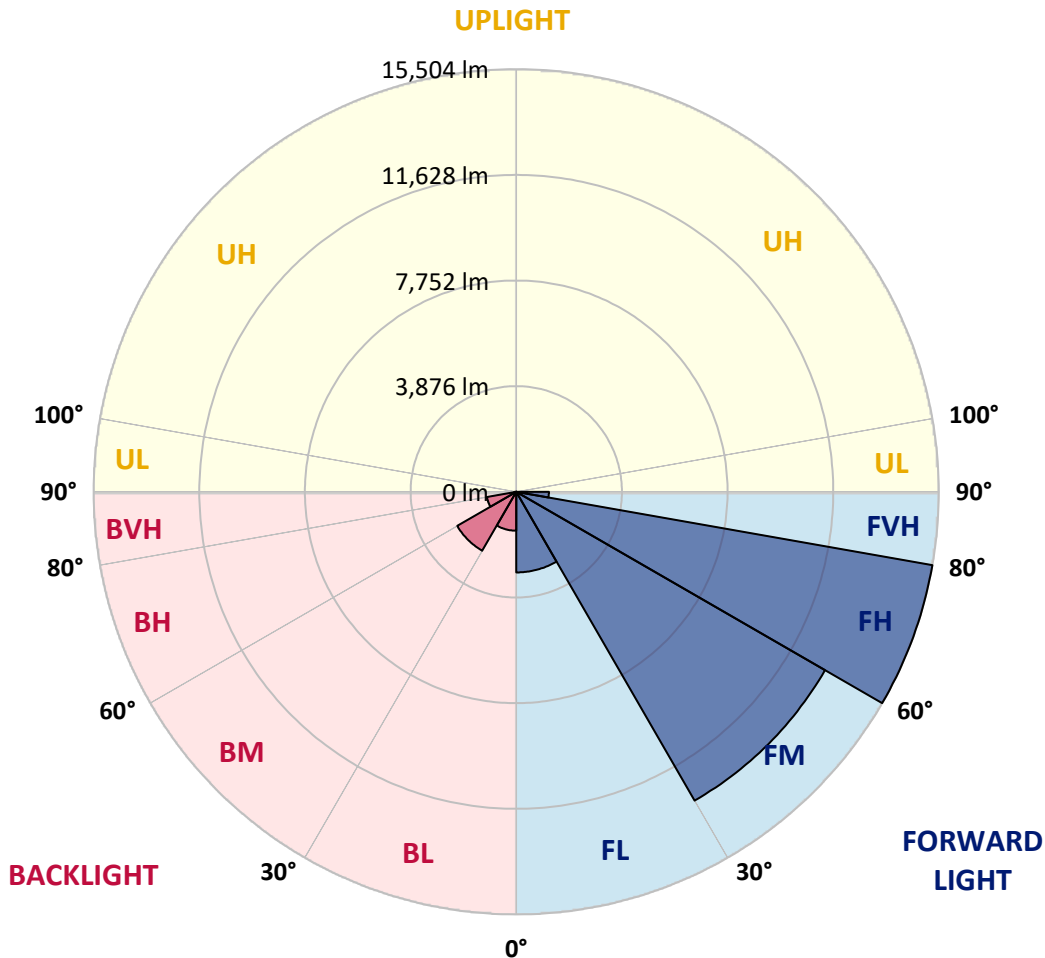
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2956.9	7.8			
FM (30°-60°)	13080.8	34.6			
FH (60°-80°)	15504.2	41.0			G5
FVH (80°-90°)	1198.1	3.2			G5
BL (0°-30°)	1426.8	3.8	B3/2500		
BM (30°-60°)	2496.3	6.6	B2/2500		
BH (60°-80°)	1092.9	2.9	B3/2500		G3/2500
BVH (80°-90°)	68.7	0.2			G1/100
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°	38°	45°	55°	65°	75°	85°
0°	6645.2	6645.2	6645.2	6645.2	6645.2	6645.2	6645.2	6645.2	6645.2	6645.2	6645.2
2.5°	6912.2	6946.3	6929.3	6905.8	6890.8	6875.8	6854.5	6792.6	6743.5	6690.1	6606.7
5°	6963.5	6984.8	6969.9	6939.9	6905.8	6890.8	6850.2	6769.0	6690.1	6600.3	6476.5
7.5°	6933.5	6942.1	6925.0	6888.7	6858.8	6831.0	6784.0	6694.3	6598.1	6489.2	6326.9
10°	6826.7	6858.8	6858.8	6828.8	6799.0	6784.0	6737.0	6651.6	6564.0	6440.1	6247.9
12.5°	6739.2	6773.3	6801.1	6792.6	6790.4	6790.4	6754.2	6690.1	6587.5	6470.1	6241.5
15°	6679.4	6719.9	6779.7	6814.0	6835.3	6841.7	6826.7	6771.2	6666.5	6529.9	6267.1
17.5°	6666.5	6715.6	6824.6	6899.4	6954.9	6952.8	6948.5	6871.6	6756.3	6615.3	6299.2
20°	6724.2	6788.3	6939.9	7057.4	7138.6	7123.7	7100.1	6999.7	6865.2	6707.1	6329.0
22.5°	6897.2	6963.5	7130.1	7258.3	7337.2	7337.2	7266.7	7134.4	6991.2	6814.0	6369.6
25°	7145.0	7217.6	7394.9	7525.2	7561.5	7533.8	7463.3	7303.1	7138.6	6967.7	6455.1
27.5°	7448.3	7535.9	7700.4	7809.3	7798.6	7777.2	7704.7	7499.6	7335.1	7179.2	6600.3
30°	7826.4	7890.5	8061.4	8087.0	8048.5	8044.2	7941.7	7736.7	7582.9	7463.3	6807.6
32.5°	8183.1	8240.8	8377.5	8388.2	8319.8	8328.3	8232.2	8044.2	7956.7	7914.0	7155.6
35°	8561.2	8591.1	8708.6	8695.8	8650.9	8644.5	8606.0	8426.7	8454.4	8531.3	7649.1
37.5°	8877.3	8937.1	9003.3	9014.0	9011.9	9033.3	9058.9	8973.5	9133.7	9375.0	8296.3
40°	9167.8	9219.1	9317.4	9351.5	9434.8	9477.6	9565.1	9567.3	9936.8	10334.1	9093.1
42.5°	9364.4	9451.9	9635.6	9697.6	9900.5	10028.7	10158.9	10297.8	10833.9	11344.4	10032.9
45°	9535.3	9650.6	9956.0	10148.3	10423.8	10579.8	10855.3	11145.8	11916.9	12585.5	10987.7
47.5°	9793.7	9896.2	10246.5	10586.2	11002.6	11182.1	11594.4	12028.0	13036.2	13768.9	11901.9
50°	10152.6	10214.4	10571.2	11124.4	11656.3	11887.0	12431.7	13057.5	14232.3	14937.3	12705.1
52.5°	10611.8	10637.4	10921.5	11658.4	12359.1	12645.3	13367.3	14097.8	15279.0	15951.8	13341.6
55°	11154.4	11111.6	11333.7	12224.4	13162.2	13536.0	14311.4	15150.9	16455.9	16772.1	13805.1
57.5°	11690.5	11624.2	11801.6	12912.3	14153.3	14604.0	15507.5	16235.9	17506.8	17538.9	14129.8
60°	12258.7	12209.6	12421.0	13719.7	15368.7	15902.7	16737.9	17361.6	18523.6	18072.9	14181.1
62.5°	12841.8	12762.8	13063.9	14627.5	16737.9	17222.8	18032.3	18557.8	19521.1	18271.6	13687.7
65°	13407.8	13371.6	13837.1	15706.2	18297.2	18848.3	19634.3	19991.1	20320.0	17972.5	12463.7
67.5°	14010.2	14082.8	14826.2	17145.9	20330.7	21022.8	21870.8	21535.4	20548.6	16556.3	10496.4
70°	14928.7	14975.7	16124.8	19032.0	22951.6	23786.8	24196.9	22084.4	19446.4	13867.1	7890.5
72.5°	15323.9	15531.1	17284.7	21012.1	25929.2	26439.8	24978.7	20860.4	16199.6	9419.9	4146.0
73°	15236.3	15484.1	17338.1	21313.3	26162.1	26698.2	24812.1	20230.3	15059.0	8112.6	3554.3
75°	14144.8	14450.2	16643.9	21061.2	25709.2	25388.8	22133.5	17242.0	10176.0	3688.9	1619.1
77.5°	11160.7	11248.3	13187.8	17007.0	20245.2	19651.5	16564.9	10776.2	4156.7	1371.3	918.5
80°	5598.5	5921.1	7433.3	9742.4	13538.2	13343.7	10455.8	5096.5	1732.3	805.3	608.8
82.5°	2693.6	2922.1	3620.6	4750.6	7480.4	7303.1	5177.7	2785.4	1100.0	470.0	358.9
85°	1734.5	1905.4	2304.8	2266.3	3075.9	2937.0	2326.1	2108.2	651.5	245.7	249.9
87.5°	1144.9	1253.8	1503.8	1202.5	1119.3	1012.5	1027.4	1187.7	128.2	94.0	34.1
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°	6645.2	6645.2	6645.2	6645.2	6645.2	6645.2	6645.2	6645.2	6645.2	6645.2	6645.2
2.5°	6572.6	6544.7	6452.9	6363.3	6277.8	6196.6	6143.3	6072.7	6025.8	6038.5	6057.8
5°	6408.1	6346.1	6183.8	6025.8	5876.2	5699.0	5555.8	5440.4	5352.9	5320.8	5314.4
7.5°	6235.1	6130.4	5897.6	5626.3	5372.1	5152.1	4897.9	4771.9	4624.5	4573.3	4556.1
10°	6130.4	5989.4	5662.6	5284.5	4902.2	4536.9	4261.3	4037.1	3834.2	3795.7	3776.5
12.5°	6100.5	5914.7	5474.7	4987.6	4479.3	4030.7	3622.7	3327.9	3131.4	3086.6	3020.4
15°	6083.4	5852.7	5299.5	4688.6	4043.5	3496.7	3067.3	2723.4	2544.0	2424.4	2426.5
17.5°	6068.5	5782.2	5102.9	4361.8	3667.5	3037.4	2563.2	2253.5	2089.0	2025.0	2018.6
20°	6047.1	5699.0	4876.5	4017.9	3238.2	2618.8	2189.5	1958.8	1847.7	1794.3	1792.1
22.5°	6038.5	5617.7	4654.4	3667.5	2858.0	2296.3	1941.6	1779.3	1708.8	1672.5	1672.5
25°	6059.9	5560.1	4421.6	3334.3	2520.5	2020.7	1770.7	1659.7	1619.1	1599.9	1593.4
27.5°	6126.1	5534.5	4190.9	3001.1	2210.8	1832.7	1655.4	1578.6	1548.6	1533.6	1535.8
30°	6252.2	5532.4	3964.5	2672.2	1980.1	1689.6	1563.6	1510.2	1486.6	1478.1	1476.0
32.5°	6455.1	5579.3	3742.3	2400.9	1785.7	1570.0	1478.1	1439.7	1429.0	1422.6	1420.4
35°	6799.0	5711.7	3522.3	2153.1	1636.2	1463.2	1397.0	1377.7	1362.8	1369.2	1371.3
37.5°	7262.5	5940.3	3313.0	1958.8	1523.0	1384.1	1328.6	1311.5	1303.0	1309.4	1315.8
40°	7884.0	6269.2	3137.9	1802.8	1441.8	1317.9	1268.8	1253.8	1245.3	1255.9	1258.1
42.5°	8569.7	6649.5	2992.6	1681.1	1375.6	1262.4	1215.4	1198.3	1191.9	1198.3	1200.4
45°	9274.6	7091.6	2917.8	1593.4	1320.0	1221.8	1172.7	1153.4	1138.5	1134.3	1140.6
47.5°	9968.9	7476.1	2915.7	1540.0	1275.2	1185.5	1132.1	1110.7	1091.5	1080.9	1078.7
50°	10534.9	7781.5	2967.0	1516.6	1236.8	1144.9	1091.5	1070.2	1044.5	1023.2	1027.4
52.5°	10962.1	7980.2	2990.4	1505.9	1215.4	1102.2	1048.8	1029.6	999.7	971.9	971.9
55°	11237.6	8027.2	2932.7	1495.2	1198.3	1057.3	999.7	982.5	952.7	924.9	924.9
57.5°	11331.6	7881.9	2725.6	1469.6	1181.2	1018.9	950.5	935.6	912.1	884.3	880.0
60°	11113.7	7390.6	2362.5	1392.7	1147.0	978.3	897.1	890.7	882.2	858.7	856.6
62.5°	10274.3	6348.3	1967.3	1292.3	1089.3	935.6	848.0	858.7	865.1	852.3	850.2
65°	8877.3	5154.2	1681.1	1153.4	1012.5	875.7	794.6	822.3	839.5	839.5	835.2
67.5°	7200.6	3958.1	1416.2	1033.8	916.4	794.6	734.8	756.1	769.0	764.7	775.4
70°	5117.9	2680.7	1153.4	897.1	794.6	702.7	657.9	657.9	649.3	645.0	645.0
72.5°	2482.0	1531.5	935.6	749.8	677.1	600.2	563.9	548.9	531.8	529.7	519.1
73°	2074.1	1373.4	892.9	722.0	649.3	585.3	544.7	521.2	510.5	502.0	499.8
75°	1262.4	1042.4	745.5	608.8	553.2	504.1	467.8	446.4	435.7	429.3	427.2
77.5°	830.9	777.5	578.9	465.7	422.9	393.0	378.1	356.8	350.3	341.8	341.8
80°	619.5	593.8	414.4	328.9	303.3	277.7	273.4	269.1	252.0	241.4	237.1
82.5°	399.5	422.9	282.0	220.0	192.3	170.9	173.0	179.4	162.3	147.4	143.1
85°	284.1	305.5	170.9	100.4	81.2	70.5	79.1	70.5	72.7	57.7	47.0
87.5°	47.0	81.2	29.9	12.8	6.4	4.3	0.0	0.0	0.0	0.0	0.0
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)