

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: P652385

Luminaire Tested: **GALN-SA5B-840-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652385  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5B-840-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20312.7 lumens  
Efficiency: N/A  
Efficacy: 99.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

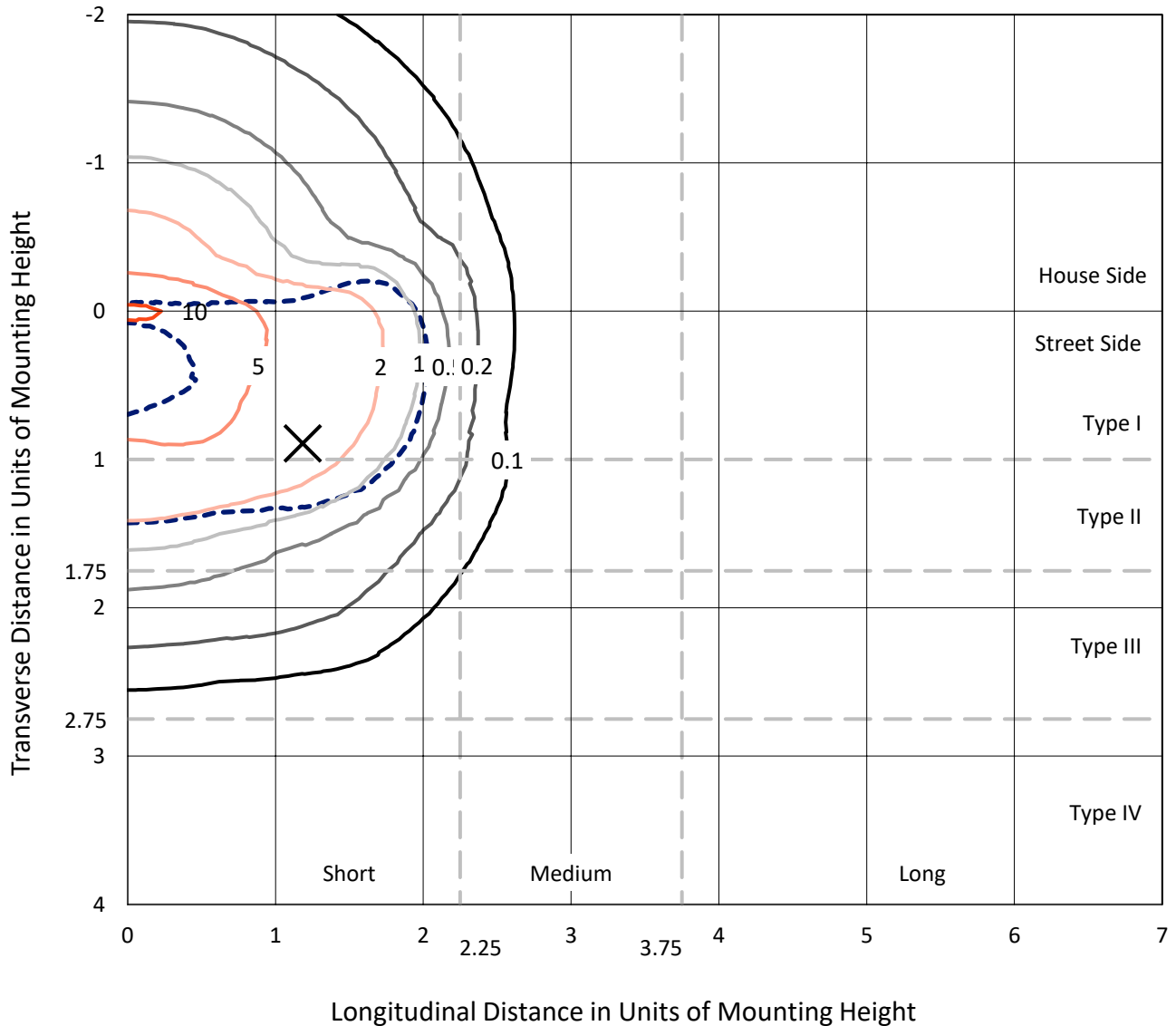
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

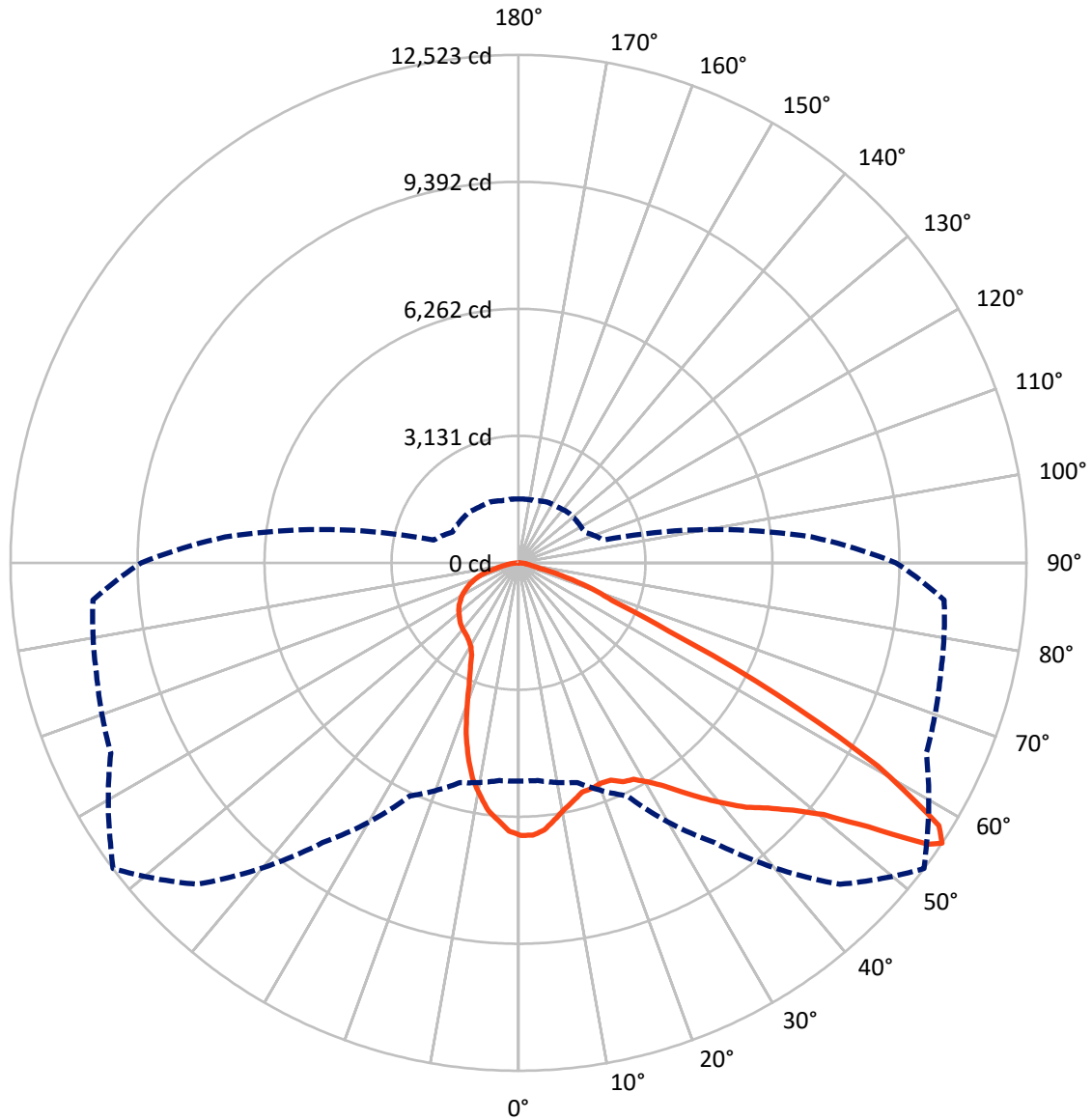
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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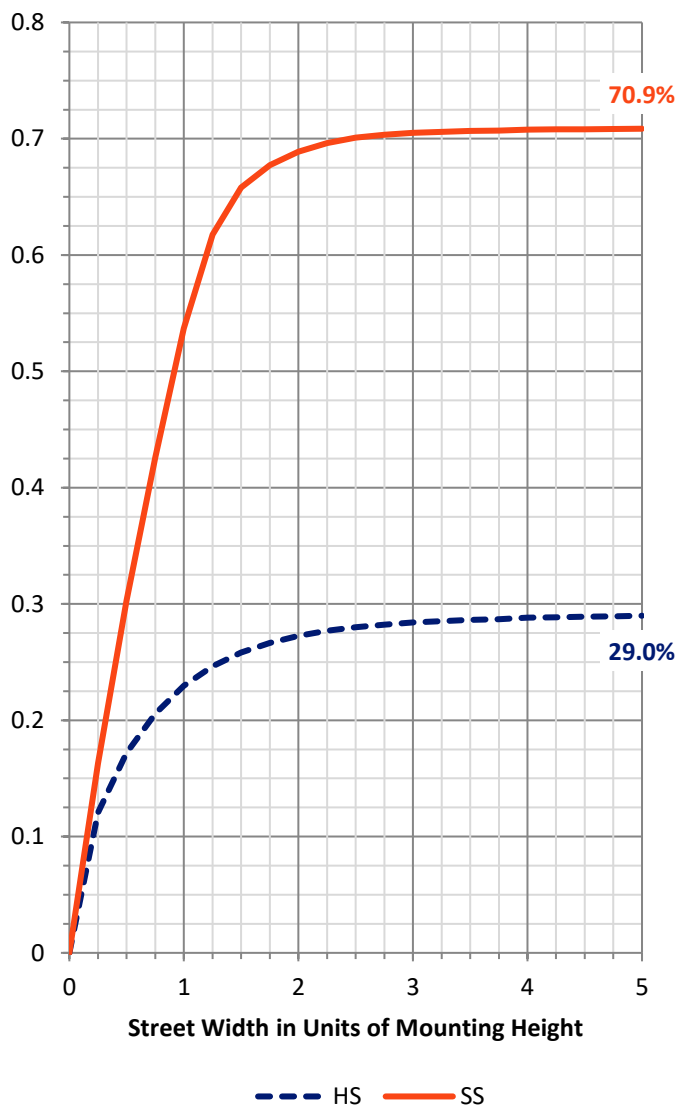
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5927.7	0.0	5927.7
	% Fixture	29.2	0.0	29.2
<b>Street Side</b>	Lumens	14385.0	0.0	14385.0
	% Fixture	70.8	0.0	70.8
<b>Total</b>	Lumens	20312.7	0.0	20312.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	594.9	2.9
10°-20°	1485.9	7.3
20°-30°	2191.1	10.8
30°-40°	3130.6	15.4
40°-50°	4308.9	21.2
50°-60°	5091.9	25.1
60°-70°	2713.6	13.4
70°-80°	688.4	3.4
80°-90°	107.3	0.5
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°	20312.7	100.0
0°-180°	20312.7	100.0

**Coefficient of Utilization**

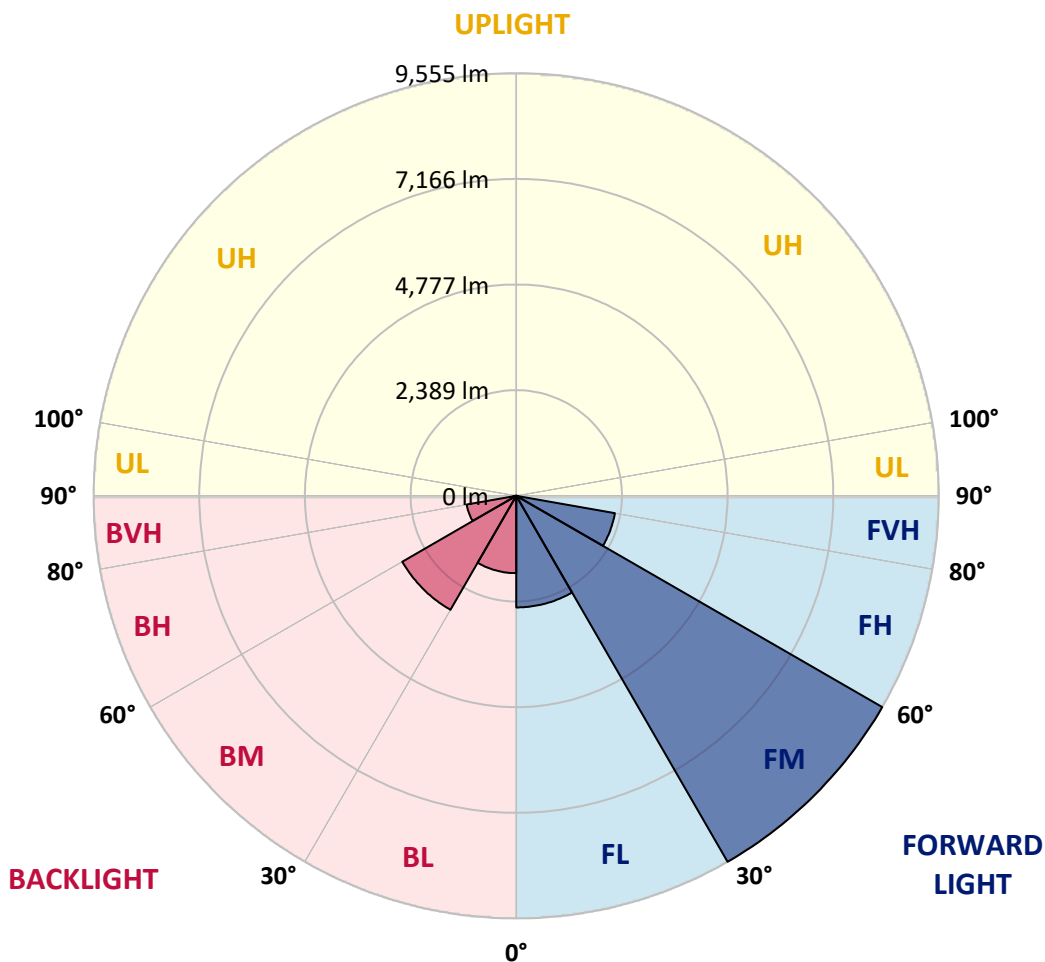


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2523.6	12.4			
FM (30°-60°)	9554.7	47.0			
FH (60°-80°)	2263.6	11.1			G2/5000
FVH (80°-90°)	43.1	0.2			G1/100
BL (0°-30°)	1748.3	8.6	B3/2500		
BM (30°-60°)	2976.7	14.7	B3/5000		
BH (60°-80°)	1138.5	5.6	B3/2500		G3/2500
BVH (80°-90°)	64.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	6720.3	6720.3	6720.3	6720.3	6720.3	6720.3	6720.3	6720.3	6720.3	6720.3	6720.3
2.5°	6636.8	6579.6	6613.4	6600.3	6707.2	6738.5	6722.9	6735.9	6795.8	6767.1	6707.2
5°	6201.7	6282.4	6298.1	6337.2	6399.8	6522.2	6618.6	6644.7	6673.3	6806.2	6793.2
7.5°	5805.6	5860.3	5831.7	5946.3	6081.9	6279.8	6397.2	6418.0	6681.2	6754.1	6808.8
10°	5555.5	5500.7	5631.0	5662.3	5816.0	6042.8	6183.5	6269.4	6509.2	6798.4	6832.3
12.5°	5323.5	5305.3	5383.5	5472.1	5644.0	5878.6	6021.9	6055.8	6425.7	6730.7	6889.6
15°	5151.5	5130.7	5208.9	5274.1	5474.7	5683.1	5865.6	5961.9	6334.6	6691.6	6840.1
17.5°	5016.1	5013.5	5057.8	5175.0	5380.9	5555.5	5849.9	5855.1	6287.7	6751.5	6881.8
20°	5008.2	5005.6	5013.5	5143.7	5331.4	5545.0	5800.4	5847.3	6287.7	6709.8	6884.4
22.5°	5073.4	5031.7	5078.6	5162.0	5297.5	5563.3	5818.6	5922.9	6438.8	6915.6	7001.7
25°	5177.6	5188.0	5214.1	5242.8	5320.9	5605.0	5980.2	6066.2	6616.0	7092.8	7163.2
27.5°	5367.9	5362.6	5373.1	5388.7	5456.4	5644.0	6045.4	6266.8	6986.0	7408.1	7337.8
30°	5646.6	5628.4	5670.1	5724.9	5662.3	5769.1	6261.6	6428.4	7330.0	7726.0	7533.3
32.5°	5899.4	5967.1	6045.4	6068.8	5993.2	6014.1	6548.3	6717.7	7616.6	8116.9	7772.9
35°	6214.7	6269.4	6373.7	6446.6	6433.6	6371.1	6939.1	7163.2	8031.0	8403.5	8025.7
37.5°	6522.2	6587.3	6759.3	6975.6	6855.7	6827.1	7356.1	7541.1	8158.6	8557.3	8210.7
40°	7017.3	7014.7	7311.7	7423.8	7530.7	7481.1	7788.6	7851.2	8226.3	8523.5	8215.9
42.5°	7598.4	7561.9	7864.2	8038.8	8176.9	8182.1	8239.4	8218.5	8257.6	8351.5	8161.2
45°	8150.8	8228.9	8533.8	8846.6	8984.7	9000.3	8619.8	8580.7	8312.4	8301.9	8056.9
47.5°	8825.7	8844.0	9094.1	9505.8	9826.3	9716.8	9112.3	9026.3	8552.0	8632.9	8231.5
50°	8864.7	9000.3	9224.3	9709.0	10694.0	10665.3	9750.7	9589.2	8937.7	9101.9	8718.8
52.5°	8046.5	8015.3	8281.1	9073.2	10628.9	11608.7	10808.6	10423.0	9766.4	9641.3	9508.3
55°	6131.3	6204.3	6438.8	7238.7	9229.6	11621.6	12249.7	11934.4	10652.3	10438.7	10284.9
56°	5378.3	5388.7	5610.1	6339.8	8421.8	11207.3	12523.2	12267.9	11092.7	10767.0	10532.4
57.5°	4458.5	4398.5	4513.1	4911.9	7108.5	10331.8	12223.6	12473.7	11608.7	11121.4	10795.7
60°	3509.9	3496.9	3450.0	3522.9	4492.3	7783.4	10175.4	10738.3	11556.5	10787.8	10339.6
62.5°	2866.3	2801.2	2895.0	2999.3	3121.7	4828.4	7150.2	7481.1	9174.9	8612.0	7767.7
65°	2222.7	2191.5	2308.7	2647.5	2720.4	3067.0	4072.8	4328.1	5417.4	5320.9	4685.1
67.5°	1529.6	1534.8	1636.4	2152.4	2522.3	2491.1	2493.7	2626.6	2827.3	2100.2	1829.3
70°	969.3	966.7	1021.5	1386.2	2029.9	2050.7	1946.5	1907.4	1808.4	1094.4	1159.6
72.5°	622.8	604.5	633.2	766.1	1050.2	1214.3	1250.7	1274.2	1047.5	859.9	932.8
75°	351.8	333.5	323.1	357.0	414.3	479.5	526.4	542.0	607.1	651.4	690.5
77.5°	106.8	96.4	117.2	156.3	205.9	276.2	336.1	346.6	409.1	461.2	500.3
80°	46.9	52.1	73.0	104.2	145.9	195.4	237.2	252.7	294.4	333.5	344.0
82.5°	28.7	31.3	49.5	70.4	101.6	138.1	169.4	174.6	216.3	247.5	255.3
85°	10.4	13.0	26.1	41.7	65.2	88.6	88.6	96.4	88.6	88.6	96.4
87.5°	0.0	0.0	2.6	5.2	5.2	7.8	10.4	10.4	13.0	15.6	18.2
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°	6720.3	6720.3	6720.3	6720.3	6720.3	6720.3	6720.3	6720.3	6720.3	6720.3	6720.3
2.5°	6738.5	6725.5	6704.6	6629.0	6621.2	6597.7	6467.5	6446.6	6467.5	6405.0	6410.2
5°	6725.5	6764.5	6608.2	6532.6	6391.9	6290.3	6173.0	6113.1	6006.3	5938.5	6014.1
7.5°	6782.7	6767.1	6571.7	6407.6	6196.5	5938.5	5732.7	5615.4	5427.8	5375.7	5414.8
10°	6761.9	6678.5	6449.2	6233.0	5834.3	5607.5	5274.1	4951.0	4773.8	4682.5	4669.5
12.5°	6733.3	6709.8	6326.8	5954.1	5534.6	5057.8	4588.7	4283.9	3994.6	3869.5	3887.8
15°	6767.1	6569.1	6097.4	5625.8	5068.2	4442.8	3937.3	3543.8	3343.1	3262.4	3262.4
17.5°	6751.5	6501.4	5988.0	5258.4	4552.2	3812.3	3257.2	3020.0	2936.7	2936.7	2960.2
20°	6759.3	6545.7	5766.6	4891.0	3942.5	3210.3	2806.4	2720.4	2756.9	2769.9	2783.0
22.5°	6803.6	6399.8	5550.3	4487.1	3377.0	2746.5	2548.4	2551.0	2616.2	2686.5	2673.5
25°	6858.4	6342.4	5287.0	4085.8	2944.5	2519.7	2457.2	2449.4	2498.9	2535.4	2540.6
27.5°	6811.4	6243.4	5018.7	3585.5	2590.1	2368.6	2355.6	2360.8	2376.4	2449.4	2425.9
30°	6965.2	6272.0	4682.5	3166.0	2394.7	2319.1	2303.5	2295.7	2319.1	2340.0	2321.7
32.5°	7155.4	6170.4	4432.4	2762.1	2298.3	2282.6	2251.4	2240.9	2254.0	2233.1	2243.5
35°	7238.7	6152.2	4106.7	2472.9	2222.7	2209.6	2191.5	2188.9	2191.5	2173.2	2157.6
37.5°	7285.7	6238.2	3734.0	2340.0	2175.8	2188.9	2147.2	2141.9	2095.0	2105.4	2113.3
40°	7366.5	6105.2	3431.8	2212.3	2147.2	2121.1	2084.6	2076.8	2045.5	2027.3	2045.5
42.5°	7249.2	6066.2	3134.7	2157.6	2105.4	2076.8	2050.7	2006.5	1996.0	1980.4	1970.0
45°	7155.4	5842.1	2868.9	2089.8	2055.9	2040.3	1990.8	1943.9	1904.8	1920.4	1897.0
47.5°	7225.8	5764.0	2605.8	2032.4	1988.2	1970.0	1920.4	1883.9	1844.9	1826.7	1821.4
50°	7507.2	5909.9	2384.2	1990.8	1930.9	1920.4	1855.3	1813.6	1777.1	1764.1	1769.3
52.5°	8179.5	6308.5	2233.1	1904.8	1876.1	1829.3	1792.8	1740.6	1717.2	1675.5	1701.6
55°	9031.5	6957.3	2194.0	1824.0	1808.4	1766.7	1717.2	1678.1	1633.8	1599.9	1592.1
56°	9305.2	7267.4	2162.8	1792.8	1766.7	1743.2	1678.1	1654.7	1584.3	1576.5	1571.2
57.5°	9526.6	7541.1	2168.0	1732.8	1706.7	1686.0	1646.8	1589.5	1542.6	1514.0	1527.0
60°	9026.3	7059.0	2068.9	1641.6	1636.4	1597.3	1542.6	1516.6	1459.2	1425.3	1417.5
62.5°	6709.8	4792.0	1678.1	1524.4	1521.8	1480.1	1417.5	1388.8	1378.5	1331.6	1331.6
65°	3864.3	3004.5	1451.4	1427.9	1407.1	1365.4	1302.9	1279.4	1253.3	1237.7	1224.7
67.5°	1649.5	1558.2	1318.5	1315.9	1292.4	1240.3	1177.8	1141.3	1107.4	1076.1	1091.8
70°	1196.1	1214.3	1190.9	1177.8	1149.1	1084.0	1029.3	985.0	932.8	912.0	927.6
72.5°	948.5	987.6	1021.5	1024.1	990.2	914.6	854.7	794.7	737.4	708.8	721.8
75°	719.2	745.2	779.1	786.9	737.4	685.3	628.0	565.5	521.2	487.3	492.5
77.5°	518.6	513.3	544.6	539.4	516.0	479.5	427.3	370.0	320.5	289.2	291.8
80°	354.4	362.2	380.5	377.9	349.2	325.7	286.6	239.8	203.3	177.2	172.0
82.5°	247.5	260.5	276.2	263.1	239.8	216.3	187.6	153.7	125.1	104.2	99.0
85°	88.6	101.6	117.2	125.1	132.9	127.7	106.8	86.0	62.6	52.1	49.5
87.5°	18.2	20.9	23.5	23.5	23.5	20.9	18.2	18.2	15.6	7.8	7.8
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)