

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: P458733

Luminaire Tested: **GALN-SA2D-735-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458733  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA2D-735-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10834 lumens  
Efficiency: N/A  
Efficacy: 86.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

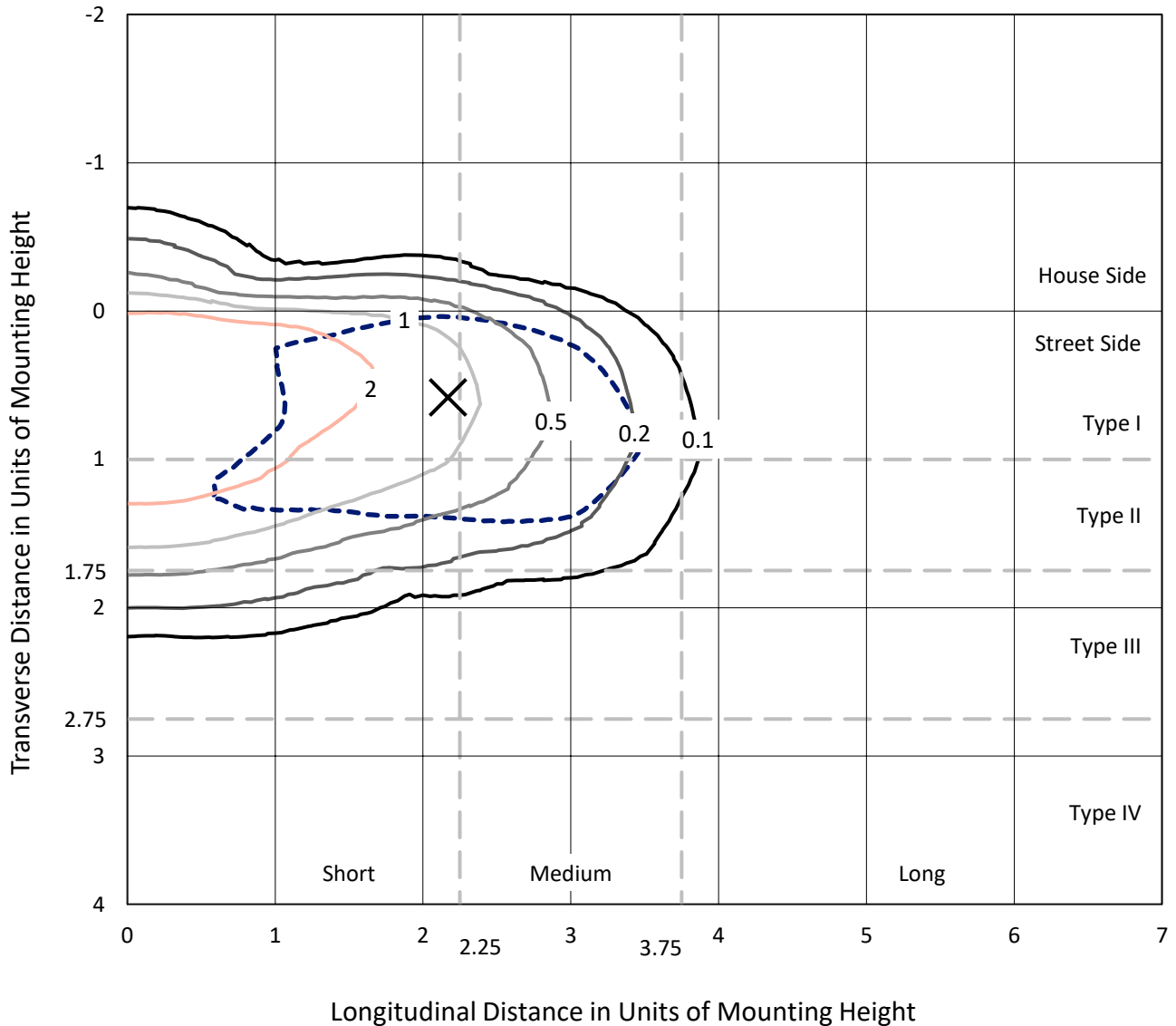
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

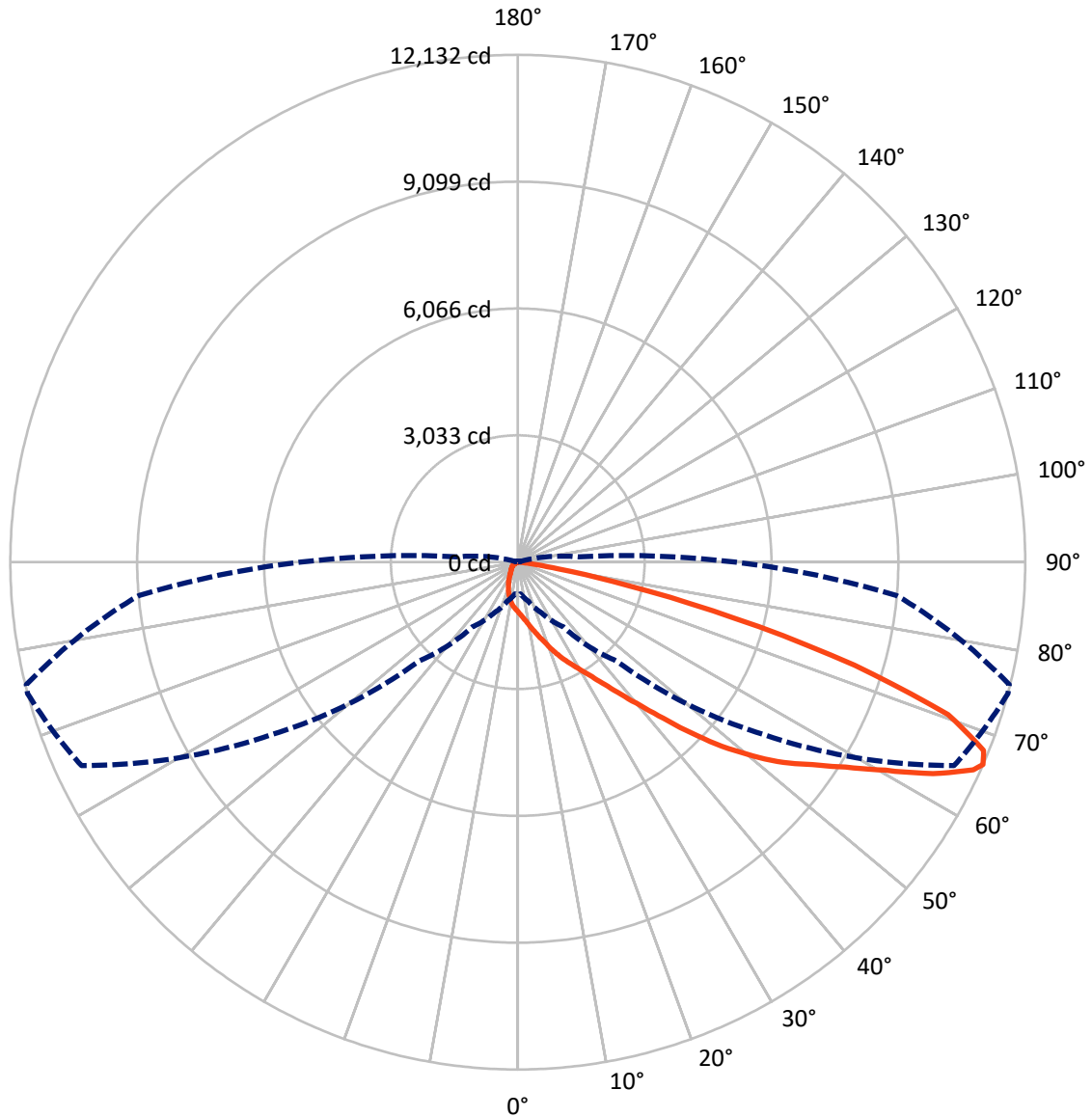
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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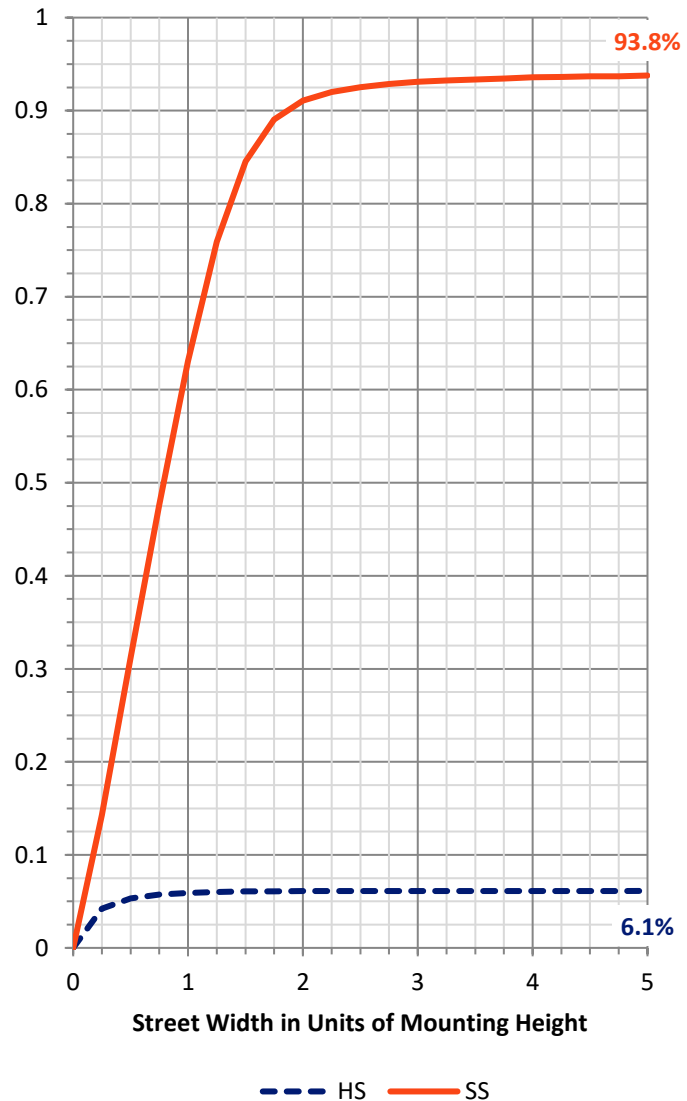
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	668.8	0.0	668.8
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	10165.1	0.0	10165.1
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	10834.0	0.0	10834.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.3	1.1
10°-20°	336.3	3.1
20°-30°	580.8	5.4
30°-40°	1047.6	9.7
40°-50°	1892.4	17.5
50°-60°	2950.3	27.2
60°-70°	2802.7	25.9
70°-80°	1050.4	9.7
80°-90°	59.3	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°	10834.0	100.0
0°-180°	10834.0	100.0

**Coefficient of Utilization**



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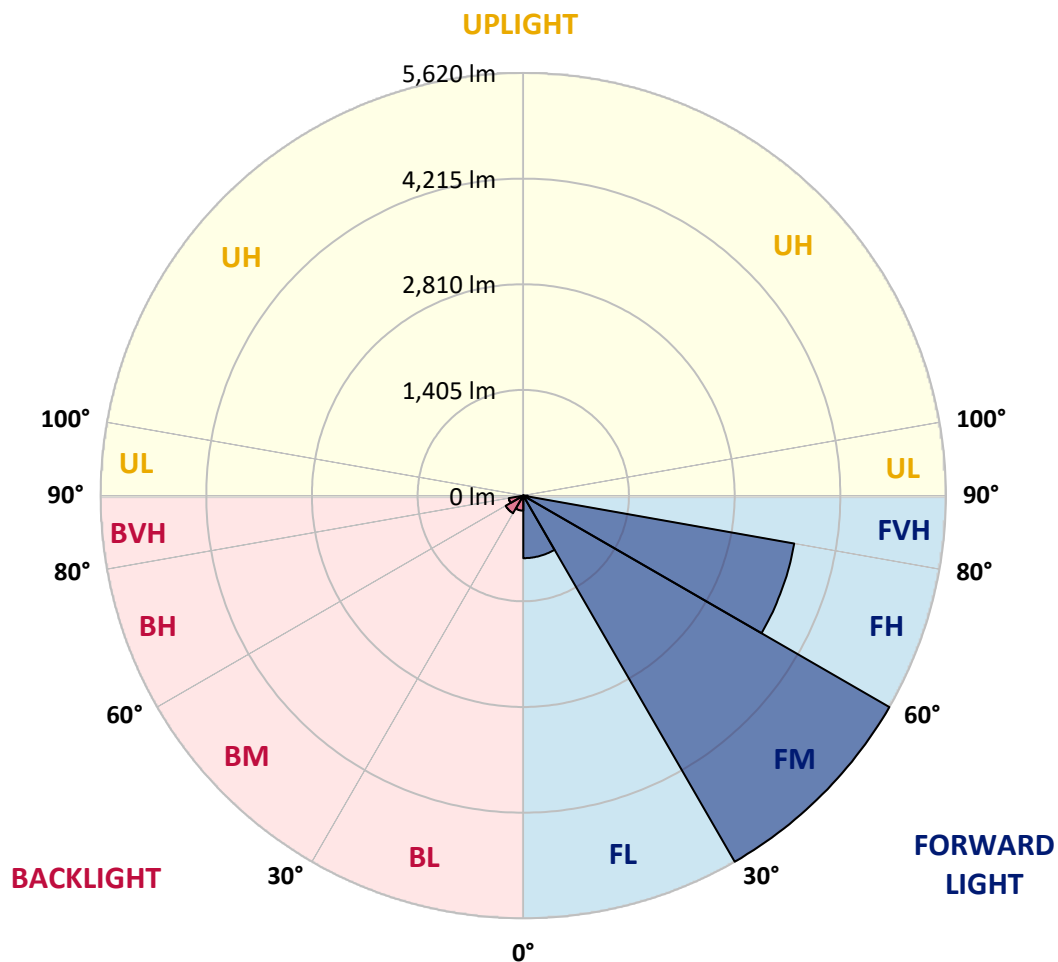
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	831.6	7.7			
FM (30°-60°)	5619.6	51.9			
FH (60°-80°)	3657.8	33.8			G2/5000
FVH (80°-90°)	56.2	0.5			G1/100
BL (0°-30°)	199.7	1.8	B1/500		
BM (30°-60°)	270.7	2.5	B1/1000		
BH (60°-80°)	195.3	1.8	B1/500		G1/500
BVH (80°-90°)	3.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1184.8	1184.8	1184.8	1184.8	1184.8	1184.8	1184.8	1184.8	1184.8	1184.8	1184.8
2.5°	1415.5	1397.9	1403.5	1395.5	1377.1	1349.8	1325.8	1291.3	1256.9	1251.3	1212.8
5°	1602.2	1597.4	1591.0	1567.7	1554.9	1513.2	1463.6	1404.3	1333.0	1320.2	1250.5
7.5°	1729.5	1727.1	1730.3	1718.3	1707.1	1669.5	1616.6	1535.7	1425.1	1417.9	1301.8
10°	1771.2	1777.6	1789.6	1808.9	1826.5	1814.5	1774.4	1673.5	1544.5	1523.7	1360.2
12.5°	1747.2	1754.4	1783.2	1834.5	1891.4	1924.2	1908.2	1834.5	1671.1	1654.2	1425.9
15°	1685.5	1694.3	1735.2	1814.5	1916.2	2009.1	2049.2	1996.3	1818.5	1791.2	1505.2
17.5°	1594.2	1607.0	1665.5	1770.4	1909.8	2070.0	2183.0	2165.3	1975.5	1949.8	1591.8
20°	1525.3	1534.9	1584.5	1704.7	1882.6	2103.6	2310.3	2360.0	2169.3	2125.3	1693.5
22.5°	1570.9	1574.1	1591.0	1663.1	1833.7	2112.5	2422.5	2562.7	2375.2	2336.0	1799.2
25°	1794.4	1762.4	1745.6	1729.5	1823.3	2104.5	2524.2	2774.2	2580.3	2538.6	1904.2
27.5°	2146.9	2132.5	2047.6	1933.8	1912.2	2114.9	2591.5	2974.4	2773.4	2728.5	2006.7
30°	2530.6	2505.8	2453.7	2287.1	2119.7	2188.6	2640.4	3169.1	3001.7	2942.4	2100.4
32.5°	2883.1	2899.1	2821.4	2650.0	2456.1	2345.6	2703.7	3381.4	3263.6	3189.9	2209.4
35°	3294.1	3326.1	3206.7	3042.5	2815.8	2629.2	2827.0	3620.9	3596.1	3503.1	2377.6
37.5°	3711.4	3730.7	3657.8	3427.0	3222.8	2989.6	3059.3	3916.5	4005.4	3926.1	2578.7
40°	4062.3	4088.7	4035.1	3830.0	3612.1	3407.0	3396.6	4238.5	4492.5	4410.8	2878.3
42.5°	4330.7	4350.7	4352.3	4207.3	4011.0	3918.1	3826.8	4649.5	5102.9	5008.4	3226.0
45°	4669.5	4698.4	4681.5	4583.0	4436.4	4419.6	4372.3	5146.2	5833.5	5714.1	3677.0
47.5°	5193.4	5212.7	5171.0	5054.8	4905.8	4932.3	4904.2	5702.9	6578.5	6476.0	4144.0
50°	5557.1	5589.2	5648.5	5694.9	5586.8	5489.0	5405.7	6222.8	7285.9	7193.7	4621.5
52.5°	5553.1	5606.0	5793.4	6027.4	6263.7	6234.0	5994.5	6797.2	7961.2	7847.4	5070.1
55°	5179.0	5281.6	5557.1	5972.1	6626.6	6952.6	6843.7	7462.1	8544.4	8467.5	5590.0
57.5°	4406.8	4469.3	4852.2	5432.2	6423.9	7290.7	7827.4	8363.3	9243.7	9207.7	6397.5
60°	2964.0	2992.1	3484.7	4201.7	5469.0	6953.4	8548.4	9453.6	10104.9	10087.3	7340.3
62.5°	1698.3	1710.3	2067.6	2672.4	3891.7	5892.8	8609.3	10798.6	11137.5	11147.1	8431.4
65°	914.0	920.4	1208.8	1568.5	2368.0	4200.1	7741.7	11535.6	11972.2	11990.6	9107.5
66°	789.1	758.6	962.1	1337.0	1884.2	3342.9	7192.9	11509.2	12132.4	12112.4	9083.5
67.5°	600.0	627.2	768.2	1027.8	1396.3	2376.8	5938.4	10997.3	12010.7	11948.2	8714.2
70°	429.4	440.6	547.1	733.0	950.9	1304.2	3794.7	9134.0	10916.4	10832.3	7591.9
72.5°	277.2	289.2	387.7	530.3	687.3	712.2	2124.5	6599.3	8416.2	8404.2	5717.3
75°	197.9	209.1	256.3	379.7	516.7	440.6	1023.0	4447.6	5350.4	5314.4	3536.8
77.5°	143.4	149.0	171.4	248.3	369.3	315.6	474.2	2375.2	2663.6	2789.4	1562.9
80°	82.5	87.3	119.4	151.4	249.9	215.5	226.7	953.3	982.9	935.7	488.7
82.5°	40.9	46.5	71.3	103.3	156.2	145.0	104.1	286.8	302.8	294.8	123.4
85°	9.6	12.0	40.1	68.1	76.1	64.9	50.5	84.1	104.1	101.7	47.3
87.5°	0.8	1.6	14.4	12.0	12.8	21.6	17.6	21.6	33.6	31.2	16.8
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°	1184.8	1184.8	1184.8	1184.8	1184.8	1184.8	1184.8	1184.8	1184.8	1184.8	1184.8
2.5°	1195.2	1180.0	1135.9	1092.7	1056.6	1019.0	984.5	964.5	956.5	947.7	951.7
5°	1212.0	1175.2	1086.3	1009.4	934.1	870.0	818.7	785.9	769.8	767.4	763.4
7.5°	1234.5	1171.2	1033.4	913.2	814.7	743.4	684.9	637.7	623.2	610.4	600.0
10°	1261.7	1164.0	967.7	812.3	707.4	617.6	540.7	484.7	455.8	447.8	453.4
12.5°	1290.5	1150.4	898.8	719.4	598.4	483.9	412.6	384.5	376.5	373.3	374.1
15°	1319.4	1133.5	826.7	629.7	476.6	386.1	353.3	346.1	342.9	341.3	339.7
17.5°	1345.8	1106.3	745.8	542.3	386.1	330.0	318.0	311.6	305.2	302.8	298.8
20°	1377.1	1075.1	672.9	444.6	326.8	298.8	284.4	272.4	262.8	256.3	255.5
22.5°	1406.7	1035.0	596.8	368.5	298.0	268.4	245.1	232.3	221.1	213.1	215.5
25°	1422.7	986.1	528.7	321.2	271.6	237.9	212.3	196.3	184.2	180.2	179.4
27.5°	1422.7	926.1	462.2	294.0	247.5	210.7	184.2	169.0	161.0	155.4	156.2
30°	1411.5	859.6	400.5	273.2	226.7	186.7	161.8	148.2	141.8	137.8	137.0
32.5°	1402.7	796.3	347.7	253.1	205.1	165.8	144.2	133.8	127.4	123.4	123.4
35°	1416.3	741.8	306.8	233.1	185.1	149.8	130.6	121.0	114.6	111.4	110.5
37.5°	1452.4	692.1	275.6	211.5	166.6	136.2	121.0	109.7	103.3	99.3	97.7
40°	1541.3	664.1	252.3	191.5	149.0	125.0	109.7	99.3	91.3	87.3	86.5
42.5°	1683.9	664.9	229.9	173.0	135.4	115.4	100.1	88.1	79.3	75.3	74.5
45°	1898.6	695.3	212.3	155.4	123.4	104.9	89.7	76.9	68.9	64.9	64.9
47.5°	2155.7	754.6	197.1	140.2	112.2	95.3	79.3	66.5	58.5	55.3	55.3
50°	2434.5	831.5	181.8	124.2	102.5	84.9	68.1	57.7	51.3	48.9	48.9
52.5°	2718.9	924.5	166.6	111.4	92.1	73.7	58.5	51.3	45.7	44.1	43.3
55°	3092.2	1043.0	150.6	97.7	80.9	63.3	52.1	44.9	38.5	36.0	35.2
57.5°	3666.6	1221.7	133.0	85.7	66.5	52.9	44.9	37.7	30.4	26.4	25.6
60°	4359.5	1439.6	114.6	75.3	53.7	43.3	36.0	28.8	22.4	17.6	16.8
62.5°	5008.4	1578.1	96.9	63.3	42.5	32.8	25.6	21.6	16.0	11.2	10.4
65°	5295.2	1531.7	80.1	51.3	33.6	23.2	16.8	15.2	9.6	4.8	4.0
66°	5199.8	1462.8	73.7	46.5	30.4	20.0	14.4	12.8	7.2	2.4	2.4
67.5°	4918.7	1300.2	64.1	40.1	26.4	16.0	11.2	9.6	4.0	0.8	0.0
70°	4214.5	1051.8	50.5	29.6	19.2	11.2	6.4	4.8	2.4	0.0	0.0
72.5°	3237.2	783.5	40.1	22.4	13.6	6.4	3.2	1.6	2.4	0.0	0.0
75°	1983.5	447.8	31.2	16.8	8.8	4.0	2.4	0.0	2.4	0.8	0.0
77.5°	880.4	201.1	20.8	11.2	6.4	3.2	1.6	0.0	1.6	0.8	0.0
80°	222.7	65.7	12.0	8.0	4.8	2.4	0.8	0.0	1.6	1.6	0.8
82.5°	60.9	24.0	8.8	6.4	4.0	2.4	0.8	0.0	1.6	1.6	1.6
85°	24.0	11.2	8.0	6.4	4.8	2.4	0.8	0.0	1.6	1.6	1.6
87.5°	11.2	8.0	8.0	7.2	5.6	2.4	0.8	0.0	1.6	0.8	1.6
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)