

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: P452187

Luminaire Tested: **GALN-SA3A-760-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452187  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3A-760-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9830 lumens  
Efficiency: N/A  
Efficacy: 105.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

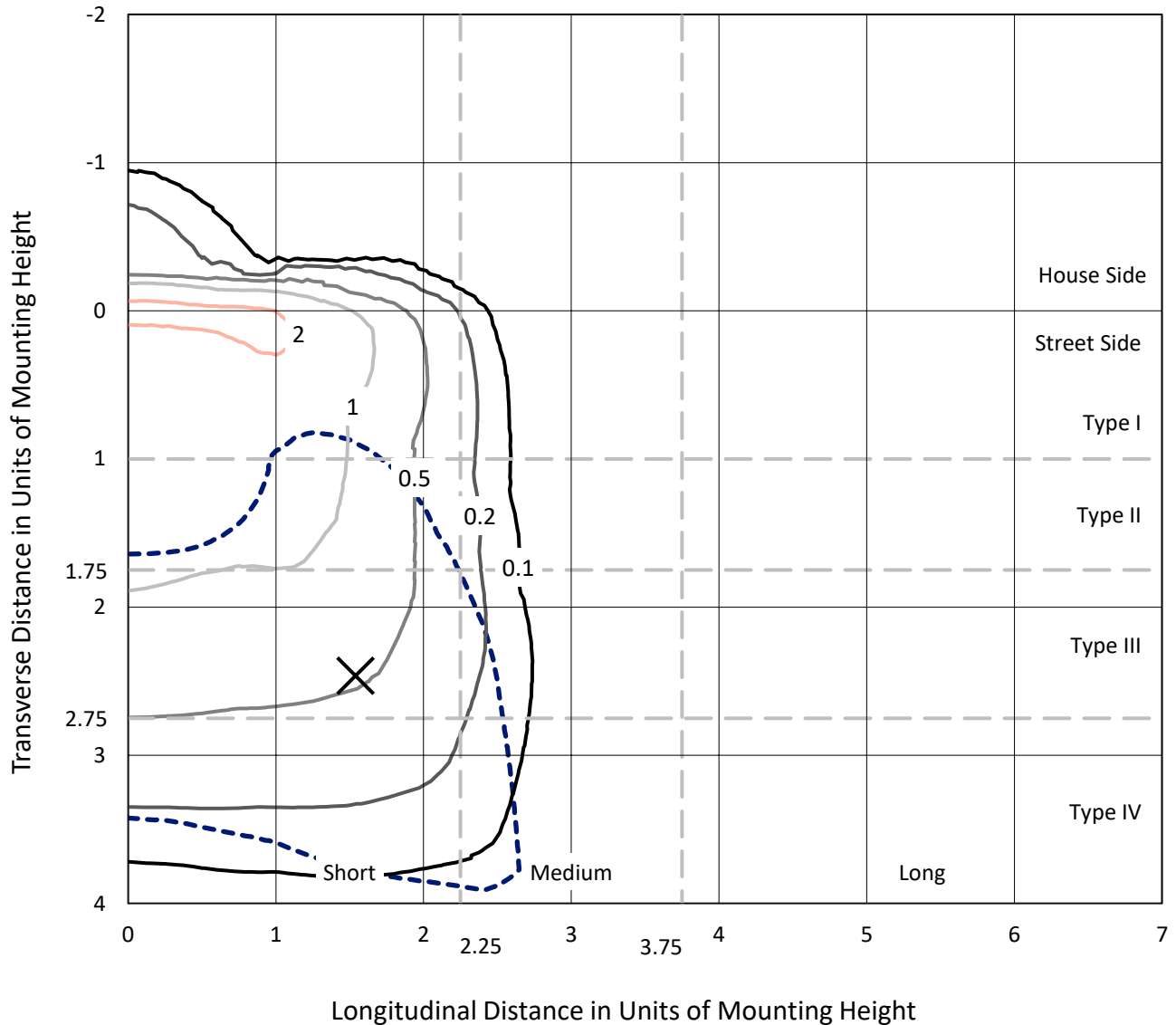
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

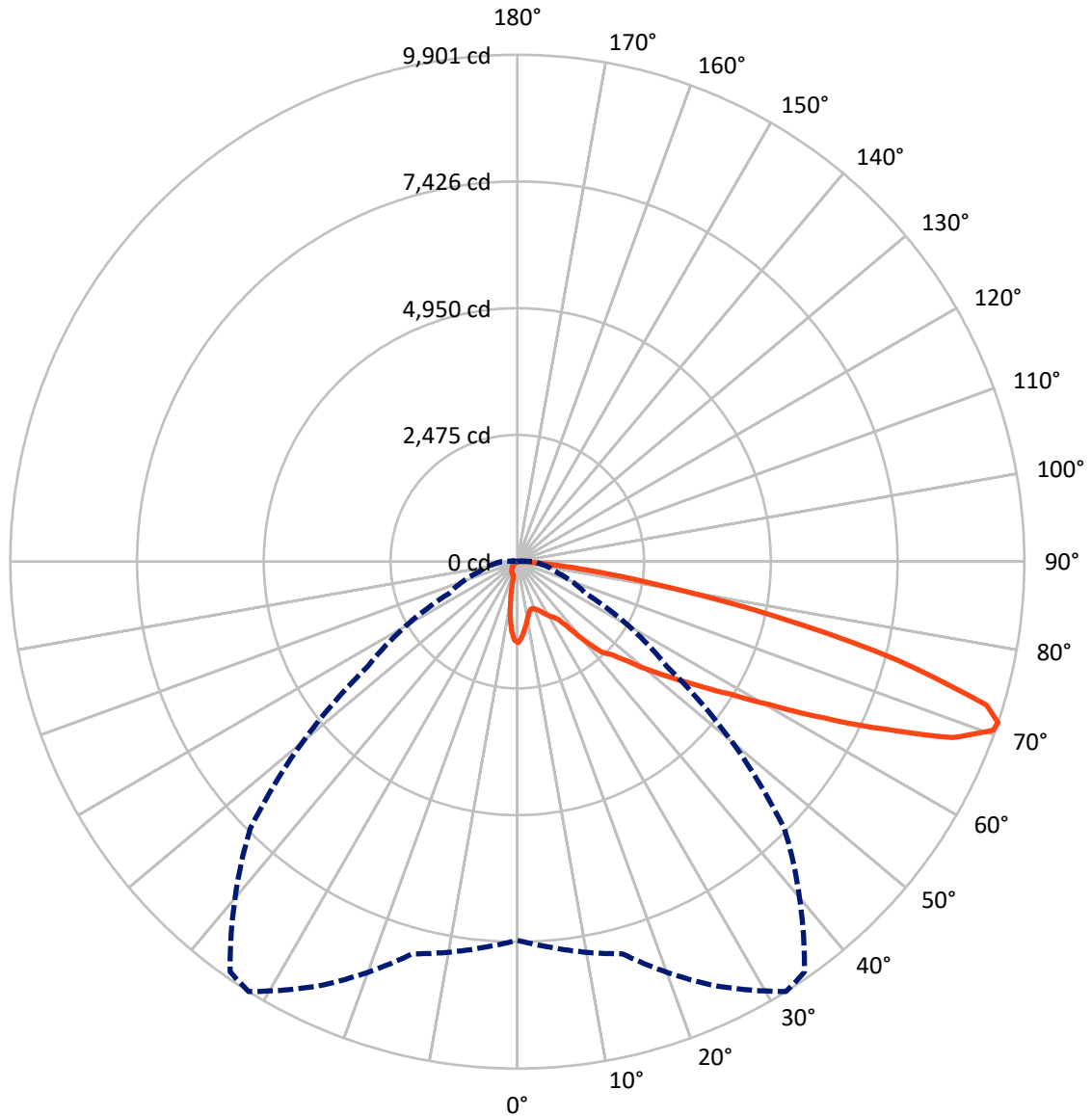
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical



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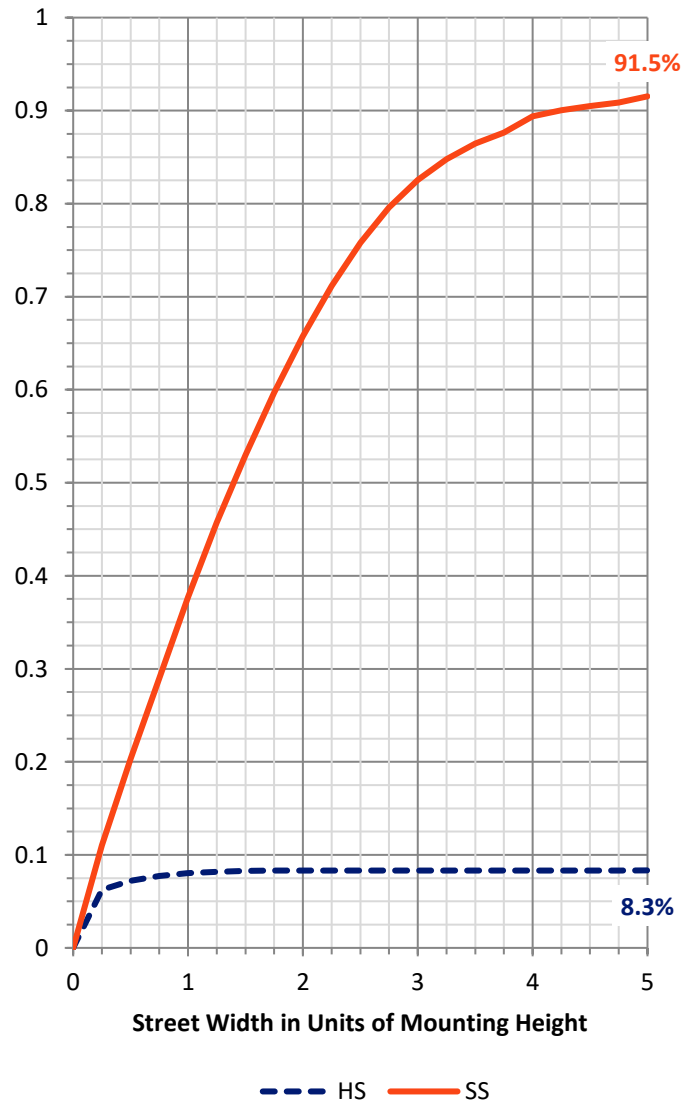
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	823.4	0.0	823.4
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	9006.6	0.0	9006.6
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	9830.0	0.0	9830.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.5	1.3
10°-20°	279.0	2.8
20°-30°	434.0	4.4
30°-40°	723.0	7.4
40°-50°	1345.0	13.7
50°-60°	2159.4	22.0
60°-70°	2904.5	29.5
70°-80°	1723.3	17.5
80°-90°	133.2	1.4
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°	9830.0	100.0
0°-180°	9830.0	100.0



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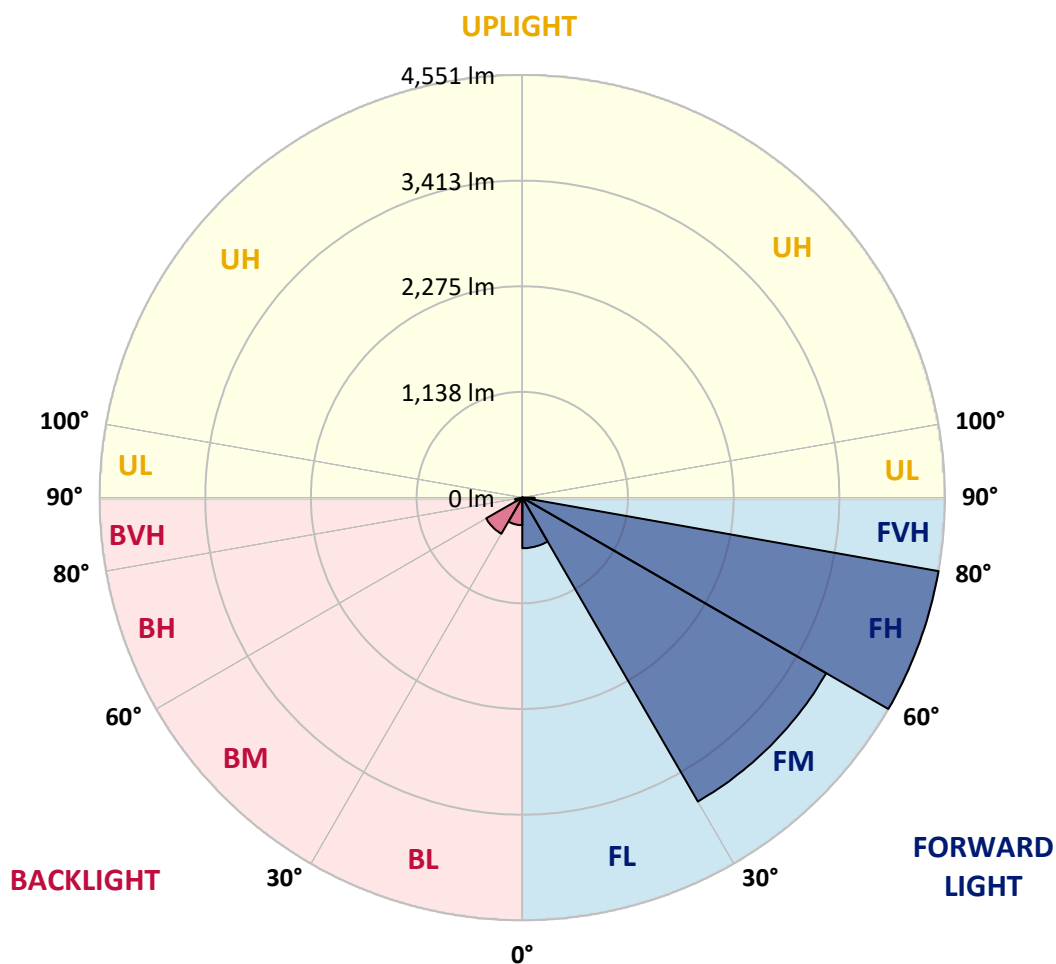
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	544.8	5.5			
FM (30°-60°)	3778.3	38.4			
FH (60°-80°)	4550.8	46.3			G2/5000
FVH (80°-90°)	132.7	1.3			G2/225
BL (0°-30°)	296.7	3.0	B1/500		
BM (30°-60°)	449.2	4.6	B1/1000		
BH (60°-80°)	77.0	0.8	B0/110		G0/110
BVH (80°-90°)	0.5	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8
2.5°	1466.1	1481.2	1479.0	1484.2	1497.1	1502.3	1516.7	1532.5	1554.4	1569.5	1579.3
5°	1312.9	1324.3	1325.8	1352.2	1365.0	1379.3	1421.6	1467.6	1518.9	1559.7	1586.9
7.5°	1149.2	1155.2	1167.3	1202.0	1234.5	1248.8	1312.9	1392.9	1473.7	1549.9	1598.9
10°	1014.1	1020.9	1042.8	1079.8	1110.0	1128.8	1217.9	1318.2	1431.4	1544.6	1616.3
12.5°	937.2	940.9	949.2	982.4	1020.9	1041.3	1137.1	1251.8	1397.5	1546.9	1645.7
15°	931.9	930.4	920.6	934.2	968.9	990.0	1083.6	1206.6	1367.3	1554.4	1680.4
17.5°	959.8	956.0	932.6	932.6	961.3	978.7	1060.9	1182.4	1352.2	1571.8	1729.5
20°	1002.8	996.8	958.3	955.3	983.2	1001.3	1074.5	1183.9	1355.2	1604.2	1795.1
22.5°	1057.1	1050.4	992.3	993.8	1023.9	1042.1	1113.7	1211.1	1374.1	1644.2	1865.3
25°	1128.1	1120.5	1051.9	1048.8	1080.5	1096.4	1171.8	1259.4	1400.5	1694.0	1957.3
27.5°	1222.4	1206.6	1124.3	1119.8	1153.7	1174.1	1242.0	1324.3	1447.3	1762.7	2081.1
30°	1300.1	1282.8	1204.3	1192.2	1228.4	1244.3	1314.5	1411.8	1539.3	1882.6	2252.4
32.5°	1402.0	1376.3	1284.3	1252.6	1291.1	1311.4	1419.3	1574.8	1675.9	2009.4	2456.1
35°	1631.4	1615.5	1503.1	1392.2	1389.9	1415.6	1574.0	1739.3	1816.2	2207.1	2733.8
37.5°	1959.6	1948.3	1829.1	1680.4	1637.4	1625.3	1761.9	1920.4	2040.3	2478.8	3056.8
40°	2340.7	2314.3	2204.8	2078.8	2023.0	1987.5	1983.8	2189.8	2333.1	2847.7	3393.3
42.5°	2613.8	2565.5	2432.7	2423.7	2411.6	2374.6	2267.5	2583.6	2711.2	3244.6	3753.2
45°	2900.6	2827.4	2629.7	2595.7	2591.2	2588.9	2696.1	3050.0	3123.2	3674.7	4123.0
47.5°	3123.2	3065.1	2902.8	2887.7	2906.6	2957.9	3262.7	3545.0	3529.9	4058.1	4433.1
50°	3419.7	3375.9	3195.6	3224.3	3321.6	3405.4	3901.9	4084.5	3864.1	4359.9	4658.7
52.5°	3769.8	3689.1	3521.6	3599.3	3748.7	3888.3	4580.2	4556.8	4098.8	4587.0	4827.0
55°	4073.2	4015.8	3958.5	4039.2	4262.5	4436.9	5192.9	4910.7	4269.3	4769.6	4900.9
57.5°	4586.3	4572.7	4513.8	4596.1	4867.0	5048.1	5741.5	5185.4	4378.8	4864.7	4814.1
60°	5345.4	5323.5	5214.1	5318.9	5672.1	5956.6	6247.1	5432.1	4403.7	4827.7	4564.4
62.5°	6258.4	6183.7	6090.1	6244.8	6729.2	6854.5	6723.2	5578.5	4310.8	4533.4	3962.2
65°	7111.0	7034.1	7036.3	7362.3	7889.8	7975.0	7278.6	5556.6	4039.2	3796.2	2922.4
67.5°	7763.7	7750.9	7843.0	8479.1	9168.7	9109.9	7775.1	5229.1	3234.1	2460.6	1552.9
70°	7796.9	7821.8	8085.9	9159.7	9859.9	9766.4	7732.8	4250.5	2016.2	1131.9	612.0
71°	7395.5	7563.0	7928.2	9138.6	9900.7	9779.2	7376.6	3560.0	1479.0	789.3	441.4
72.5°	6302.1	6390.4	7179.7	8600.6	9578.5	9318.9	6473.4	2495.4	947.0	482.9	253.5
75°	3471.0	3688.3	4808.1	6747.3	7661.1	7433.2	4218.8	1185.4	472.4	264.1	104.9
77.5°	1652.5	1610.2	2345.9	4012.8	5194.4	5182.4	2125.6	526.7	275.4	178.8	52.8
80°	472.4	531.2	897.9	1907.5	2884.0	2915.6	816.4	254.3	190.9	139.6	27.2
82.5°	142.6	145.6	329.7	843.6	1434.4	1352.2	306.4	129.8	137.3	110.9	15.8
85°	24.9	30.9	97.3	297.3	547.1	415.0	77.0	61.9	90.5	73.2	9.1
87.5°	1.5	2.3	32.4	34.0	48.3	27.9	13.6	9.1	19.6	19.6	5.3
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°	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8	1580.8
2.5°	1586.1	1590.6	1587.6	1580.8	1569.5	1555.9	1537.8	1522.7	1509.9	1503.1	1511.4
5°	1595.9	1601.9	1586.9	1552.9	1501.6	1445.8	1382.4	1333.3	1294.8	1282.8	1278.2
7.5°	1611.0	1614.8	1574.0	1498.6	1389.9	1257.9	1142.4	1045.1	969.6	947.0	913.8
10°	1630.6	1628.4	1551.4	1411.0	1220.1	1021.7	842.9	710.0	609.7	573.5	570.5
12.5°	1660.8	1648.7	1522.7	1291.8	1017.9	758.3	537.3	420.3	356.9	335.8	331.3
15°	1698.5	1669.9	1477.4	1152.2	779.5	489.7	331.3	295.8	287.5	286.0	284.5
17.5°	1743.0	1697.8	1417.8	980.9	547.8	317.7	276.9	276.2	276.9	275.4	274.7
20°	1803.4	1727.2	1346.9	778.0	362.2	267.9	264.1	264.1	264.9	264.1	264.1
22.5°	1867.6	1761.9	1259.4	593.8	273.2	254.3	253.5	255.0	256.6	255.8	255.8
25°	1946.8	1807.2	1143.9	406.7	244.5	243.0	243.7	246.7	249.8	250.5	249.8
27.5°	2061.5	1863.0	1020.2	279.9	224.1	225.6	233.2	240.7	245.2	246.0	246.0
30°	2190.5	1924.9	858.7	227.1	207.5	207.5	216.6	230.9	240.7	242.2	243.0
32.5°	2356.5	1996.6	679.9	204.5	191.7	190.2	198.5	215.8	233.9	239.2	239.2
35°	2561.8	2081.1	505.6	190.2	180.3	176.6	181.1	195.4	218.8	233.9	235.4
37.5°	2802.5	2161.1	369.7	177.3	169.8	164.5	167.5	178.8	197.7	220.3	226.4
40°	3025.1	2232.0	276.2	166.8	159.2	155.4	157.7	163.0	178.8	200.0	203.7
42.5°	3268.0	2287.1	219.6	155.4	148.6	147.1	147.1	149.4	160.0	172.0	172.8
45°	3510.2	2306.7	184.1	141.9	137.3	138.8	138.1	136.6	141.1	139.6	139.6
47.5°	3683.0	2283.3	152.4	129.0	129.0	131.3	127.5	122.2	120.0	110.9	111.7
50°	3801.5	2198.1	125.3	113.9	120.0	123.0	115.4	107.1	98.8	89.0	86.8
52.5°	3850.6	2046.4	102.6	94.3	106.4	110.2	101.1	91.3	78.5	70.2	67.9
55°	3818.9	1859.3	85.3	77.0	89.8	94.3	85.3	73.9	59.6	50.6	49.0
57.5°	3679.3	1635.9	72.4	61.1	71.7	74.7	68.7	56.6	42.3	33.2	33.2
60°	3437.8	1405.0	58.9	48.3	53.6	58.1	52.1	40.7	28.7	20.4	18.9
62.5°	2948.1	1140.9	47.5	37.7	37.7	41.5	36.2	29.4	18.1	10.6	9.8
65°	2128.6	782.5	37.7	27.9	27.2	27.2	22.6	19.6	10.6	4.5	3.0
67.5°	1156.8	441.4	30.2	21.1	18.9	18.1	14.3	11.3	4.5	0.8	0.0
70°	455.0	169.8	23.4	14.3	12.1	11.3	7.5	5.3	3.0	0.0	0.0
71°	308.6	117.0	20.4	12.1	9.8	8.3	6.0	4.5	2.3	0.0	0.0
72.5°	176.6	72.4	15.8	9.1	7.5	6.0	4.5	3.0	2.3	0.0	0.0
75°	77.0	37.0	9.8	6.8	5.3	3.8	3.0	2.3	0.8	0.0	0.0
77.5°	39.2	20.4	6.8	5.3	3.0	2.3	1.5	0.8	0.0	0.0	0.0
80°	21.9	10.6	4.5	3.0	2.3	1.5	0.8	0.8	0.0	0.0	0.0
82.5°	12.1	6.0	2.3	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.5	3.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.8	1.5	0.0	0.0	0.0	0.0	0.8	0.8	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)