

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: P451140

Luminaire Tested: **GALN-SA2A-727-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451140  
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-SA2A-727-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7627 lumens  
Efficiency: N/A  
Efficacy: 121.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

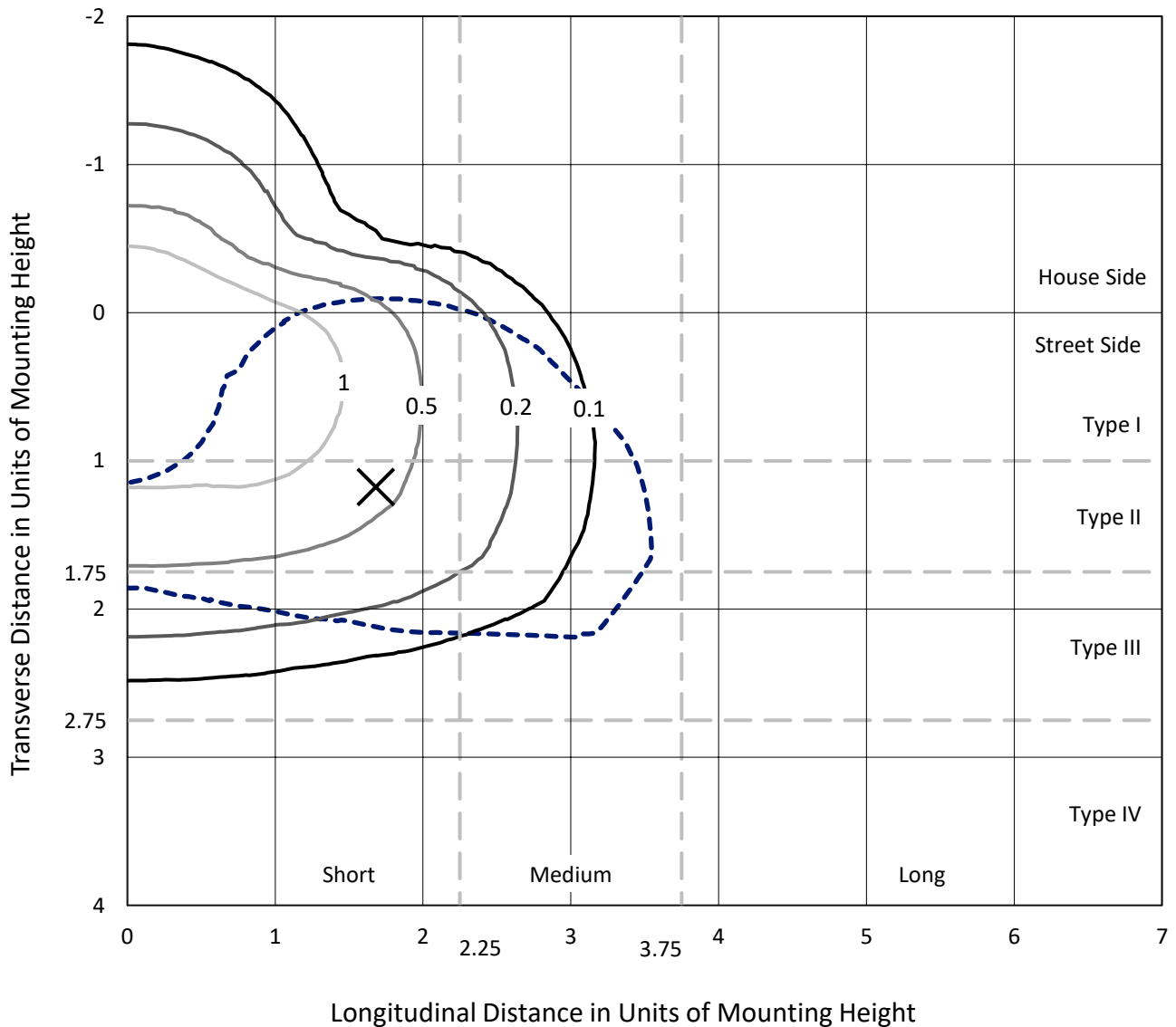
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

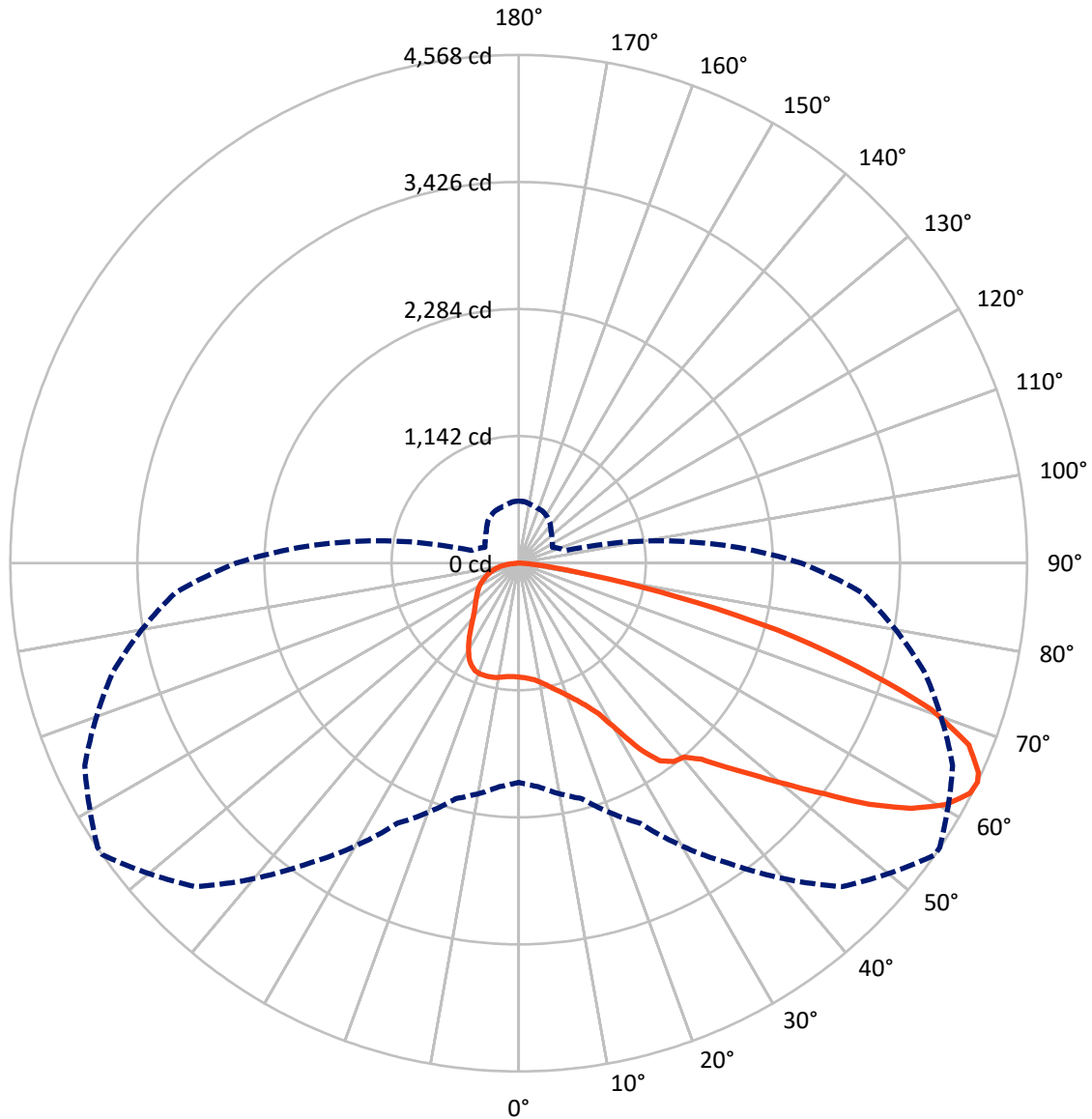
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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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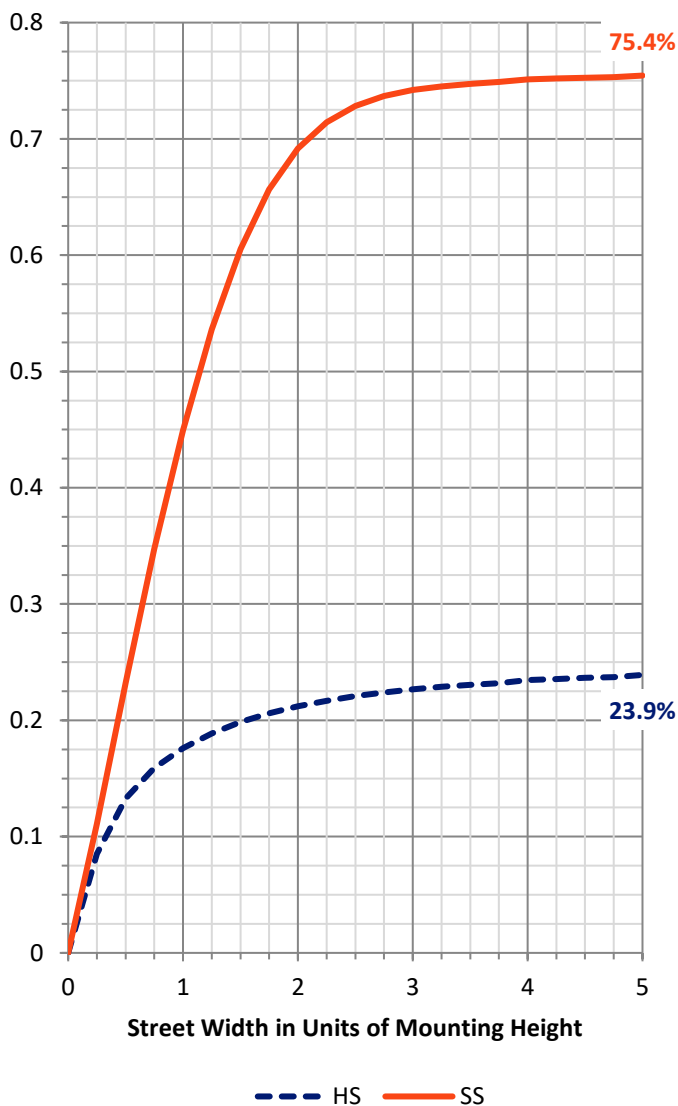
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1852.7	0.0	1852.7
	% Fixture	24.3	0.0	24.3
<b>Street Side</b>	Lumens	5774.3	0.0	5774.3
	% Fixture	75.7	0.0	75.7
<b>Total</b>	Lumens	7627.0	0.0	7627.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.5	1.3
10°-20°	314.1	4.1
20°-30°	559.2	7.3
30°-40°	860.3	11.3
40°-50°	1219.6	16.0
50°-60°	1765.3	23.1
60°-70°	1826.9	24.0
70°-80°	855.5	11.2
80°-90°	126.7	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°	7627.0	100.0
0°-180°	7627.0	100.0

**Coefficient of Utilization**



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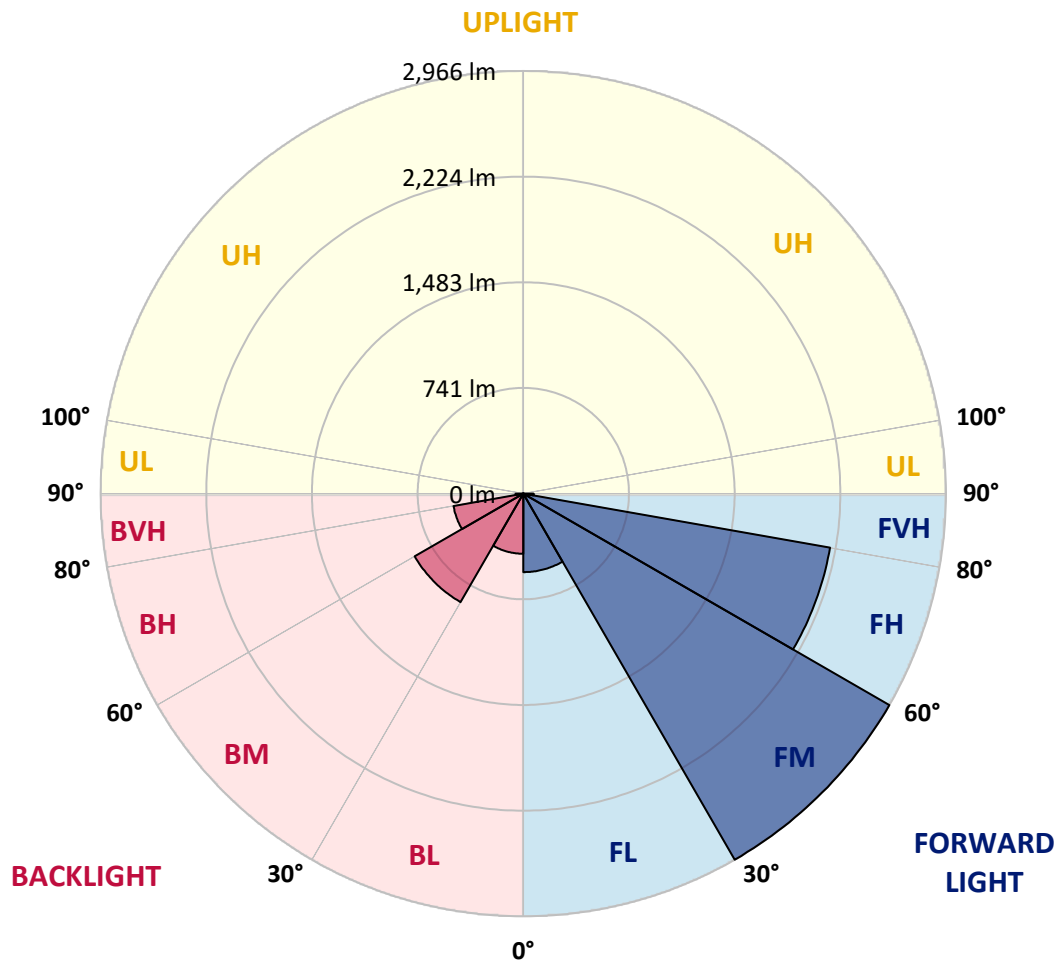
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	550.8	7.2			
FM	(30°-60°)	2965.6	38.9			
FH	(60°-80°)	2185.4	28.7			G2/5000
FVH	(80°-90°)	72.5	1.0			G1/100
BL	(0°-30°)	422.0	5.5	B1/500		
BM	(30°-60°)	879.6	11.5	B1/1000		
BH	(60°-80°)	497.1	6.5	B1/500		G1/500
BVH	(80°-90°)	54.1	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

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

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3
2.5°	1034.8	1034.4	1035.6	1034.4	1035.2	1032.2	1031.0	1031.8	1030.5	1028.4	1024.6
5°	1047.5	1047.1	1047.5	1045.8	1046.7	1045.0	1042.0	1042.9	1040.7	1036.1	1030.5
7.5°	1069.2	1067.5	1067.5	1067.1	1065.4	1062.9	1060.7	1059.9	1057.7	1051.8	1043.3
10°	1097.3	1097.3	1097.7	1094.3	1096.4	1091.8	1089.6	1089.2	1082.0	1074.3	1062.4
12.5°	1134.3	1136.4	1135.1	1133.4	1132.6	1130.9	1123.6	1125.3	1117.3	1104.1	1089.6
15°	1180.2	1183.6	1181.5	1180.6	1178.5	1172.1	1169.1	1167.9	1157.2	1138.1	1119.0
17.5°	1241.0	1236.7	1235.0	1232.9	1224.0	1219.3	1214.2	1213.4	1204.0	1181.5	1151.7
20°	1294.1	1300.1	1296.7	1294.6	1285.6	1276.7	1272.9	1271.6	1263.5	1238.9	1191.2
22.5°	1357.5	1358.7	1360.0	1354.9	1350.7	1343.9	1337.1	1334.9	1332.0	1306.5	1248.2
25°	1425.1	1430.2	1425.9	1420.8	1415.7	1415.3	1421.7	1420.8	1419.5	1394.9	1323.9
27.5°	1535.2	1539.9	1541.1	1535.6	1516.1	1517.8	1532.2	1536.9	1556.4	1515.6	1421.2
30°	1597.3	1601.9	1612.6	1633.4	1664.4	1691.6	1726.5	1737.1	1755.8	1678.9	1536.9
32.5°	1635.5	1637.2	1656.3	1695.0	1788.1	1889.7	1984.6	1988.4	2000.3	1892.3	1642.7
35°	1695.9	1697.2	1712.5	1755.0	1864.2	2033.4	2180.1	2184.8	2175.0	1958.6	1692.1
37.5°	1770.3	1773.7	1783.5	1818.8	1949.3	2153.8	2261.3	2257.9	2171.2	2011.3	1779.2
40°	1878.7	1878.7	1867.2	1914.8	2039.0	2222.6	2289.8	2283.9	2260.9	2164.0	1911.9
42.5°	1974.4	1972.7	1999.9	2032.2	2151.2	2328.9	2409.3	2419.0	2456.9	2355.7	2062.8
45°	2098.9	2106.6	2121.9	2180.5	2342.1	2510.5	2614.2	2623.5	2677.1	2581.5	2239.2
47.5°	2224.8	2227.3	2275.4	2353.6	2578.5	2756.6	2841.6	2856.9	2905.8	2845.5	2429.3
50°	2314.0	2338.3	2415.2	2538.5	2822.1	3056.8	3123.1	3141.4	3227.7	3132.9	2650.8
52.5°	2408.4	2432.2	2526.2	2714.1	3101.8	3363.7	3445.3	3457.7	3547.4	3423.7	2877.4
55°	2489.2	2511.3	2618.0	2869.7	3324.6	3677.0	3825.0	3810.5	3853.5	3647.7	3052.1
57.5°	2502.4	2520.2	2654.6	2969.2	3492.1	3945.7	4157.9	4166.4	4116.6	3815.2	3196.2
60°	2400.3	2436.9	2591.2	2958.6	3567.4	4132.8	4406.2	4412.1	4271.0	3901.1	3253.6
62.5°	2219.7	2215.8	2402.5	2787.6	3461.9	4175.3	4552.4	4546.0	4331.3	3859.9	3197.9
64°	1970.1	2016.0	2190.3	2577.6	3291.9	4109.8	4567.7	4564.3	4302.4	3774.0	3103.1
65°	1817.9	1815.3	1987.5	2405.9	3122.7	4011.2	4540.5	4535.8	4242.1	3697.0	3029.6
67.5°	1312.4	1318.4	1488.4	1856.6	2538.5	3625.6	4363.2	4345.8	4004.0	3441.9	2749.8
70°	795.0	798.4	931.9	1231.6	1822.2	2930.9	3933.0	3933.8	3639.6	3061.0	2340.4
72.5°	418.8	427.7	481.3	699.4	1106.6	2056.4	3190.7	3266.4	3124.8	2612.5	1848.9
75°	233.0	234.3	272.1	344.8	564.6	1150.9	2398.2	2419.9	2473.9	2102.7	1367.3
77.5°	177.7	180.3	192.2	222.8	307.4	533.6	1451.4	1560.3	1743.5	1482.5	780.1
80°	144.1	146.7	156.9	175.2	204.5	253.0	674.3	732.9	933.2	658.1	304.4
82.5°	112.2	110.5	123.7	135.6	148.8	149.6	276.8	306.1	380.1	283.1	131.8
85°	83.3	83.3	94.0	91.4	96.1	87.6	122.0	134.8	152.2	120.3	61.2
87.5°	33.2	36.6	61.6	55.3	42.9	34.4	45.1	47.6	52.7	47.2	25.5
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°	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3	1023.3
2.5°	1025.0	1026.3	1023.3	1021.2	1020.3	1019.1	1017.8	1018.2	1019.9	1021.6	1021.2
5°	1030.1	1030.5	1025.4	1022.9	1021.2	1019.5	1019.5	1020.8	1024.2	1026.7	1026.7
7.5°	1042.9	1042.9	1035.6	1031.0	1028.4	1025.4	1024.6	1025.0	1027.6	1031.0	1031.4
10°	1062.9	1061.2	1051.8	1044.6	1039.9	1032.7	1026.3	1022.9	1024.2	1026.3	1026.3
12.5°	1087.1	1082.4	1070.5	1060.7	1049.2	1035.6	1022.5	1015.7	1015.2	1017.4	1016.5
15°	1113.0	1107.9	1091.3	1073.5	1053.5	1033.5	1017.8	1008.0	1000.4	998.2	1002.9
17.5°	1143.2	1132.6	1109.6	1085.0	1055.2	1029.3	1004.6	984.6	971.0	967.2	968.5
20°	1179.8	1165.7	1134.7	1096.0	1053.9	1014.0	975.7	948.9	926.8	920.0	920.9
22.5°	1230.4	1206.1	1160.6	1101.5	1043.3	985.1	931.9	897.0	870.3	859.6	866.0
25°	1287.8	1261.4	1185.3	1100.3	1015.7	938.7	880.0	834.6	810.3	794.6	798.0
27.5°	1366.8	1320.1	1211.7	1088.8	976.1	882.2	814.1	771.2	749.1	741.0	744.8
30°	1468.0	1396.2	1240.1	1057.7	913.6	810.7	747.8	719.8	706.6	696.4	699.8
32.5°	1541.1	1449.7	1246.5	1005.5	846.0	745.7	702.8	681.9	667.5	657.7	659.8
35°	1593.4	1495.2	1243.5	941.3	775.5	692.1	667.0	650.0	626.7	605.4	601.6
37.5°	1663.6	1552.2	1221.9	871.1	705.7	656.0	638.1	606.7	573.1	544.6	543.3
40°	1771.1	1618.9	1175.5	788.6	646.2	629.2	607.5	566.7	530.6	507.6	505.9
42.5°	1882.1	1680.6	1112.6	701.9	597.3	601.1	574.8	534.4	512.3	497.4	495.7
45°	2017.7	1747.3	1044.6	626.7	561.2	574.8	546.3	522.9	509.7	500.0	497.4
47.5°	2164.4	1815.8	968.0	559.1	530.6	550.6	534.4	523.8	516.5	509.7	506.8
50°	2322.5	1892.3	896.2	504.6	502.9	525.5	533.1	529.3	525.0	522.9	520.4
52.5°	2496.0	1970.5	835.8	466.4	478.7	507.6	533.6	536.5	536.5	535.3	533.6
55°	2613.3	2024.9	774.6	435.3	454.1	493.2	532.7	544.2	548.4	546.7	545.0
57.5°	2700.1	2054.7	697.7	408.6	433.2	479.1	528.0	545.0	549.3	551.4	550.6
60°	2717.9	2027.1	596.9	380.5	410.7	458.7	511.0	532.3	537.8	551.0	552.3
62.5°	2637.6	1942.0	496.6	352.9	383.1	427.7	488.1	517.8	528.9	549.3	551.4
64°	2538.9	1846.8	440.9	335.4	365.2	410.3	476.6	514.0	528.4	555.7	557.4
65°	2466.7	1777.5	406.0	324.4	353.7	398.8	470.2	515.3	532.3	565.4	568.0
67.5°	2200.5	1539.0	335.9	298.4	326.5	379.2	471.5	525.9	531.4	569.3	568.8
70°	1820.9	1225.3	281.4	274.6	300.1	363.5	466.4	508.9	509.3	534.4	528.4
72.5°	1363.4	905.5	244.0	250.0	270.8	326.1	440.4	485.9	478.7	482.1	476.2
75°	936.6	599.0	210.0	223.6	240.2	288.2	403.9	441.3	429.8	425.6	421.3
77.5°	500.0	331.2	174.7	197.7	208.7	249.1	352.4	388.6	376.7	360.1	354.6
80°	202.4	156.0	140.7	163.7	170.1	200.7	293.3	315.9	307.0	278.0	268.7
82.5°	101.6	93.5	110.5	128.8	129.2	143.3	218.1	239.4	219.4	184.1	176.0
85°	53.1	54.8	76.1	90.6	79.9	77.4	130.9	145.0	133.1	115.6	104.2
87.5°	19.1	22.1	40.0	39.5	28.1	14.9	28.9	14.0	7.7	4.7	6.0
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)