

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: P450939

Luminaire Tested: **GALN-SA1D-730-U-T3R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450939  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1D-730-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7295 lumens  
Efficiency: N/A  
Efficacy: 112.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 65  
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

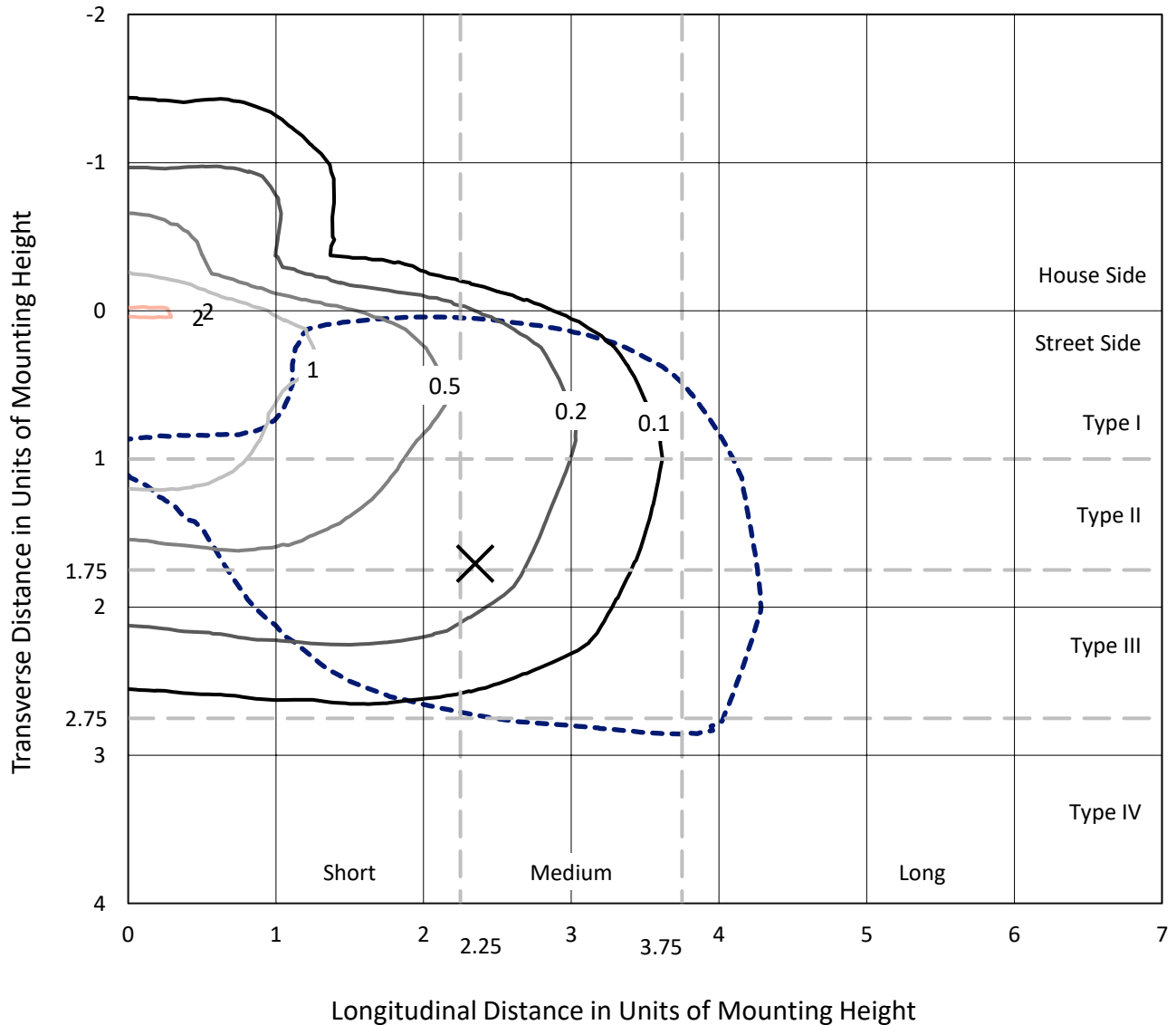




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### Iso-Footcandle Lines of Horizontal Illumination

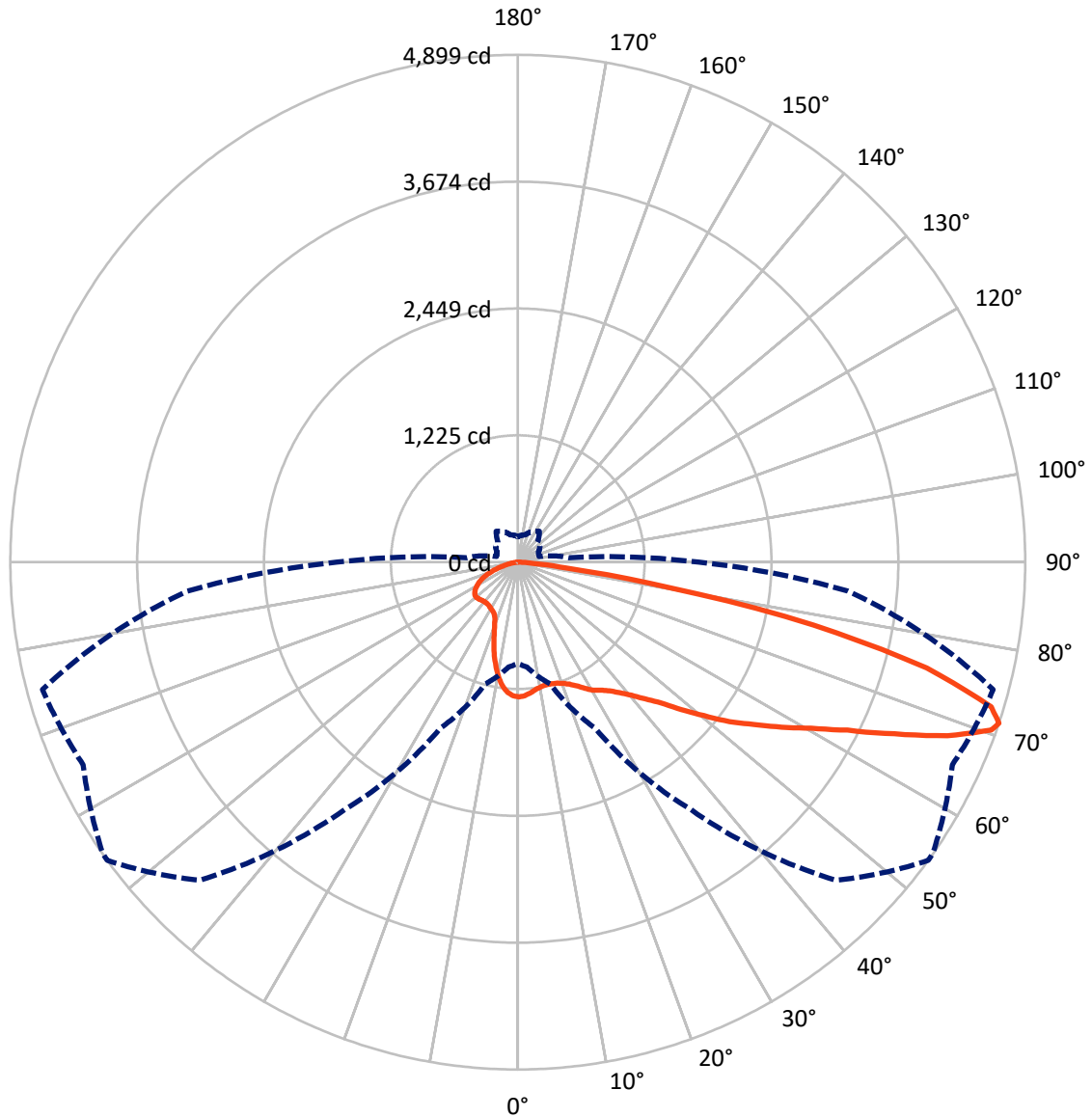
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical



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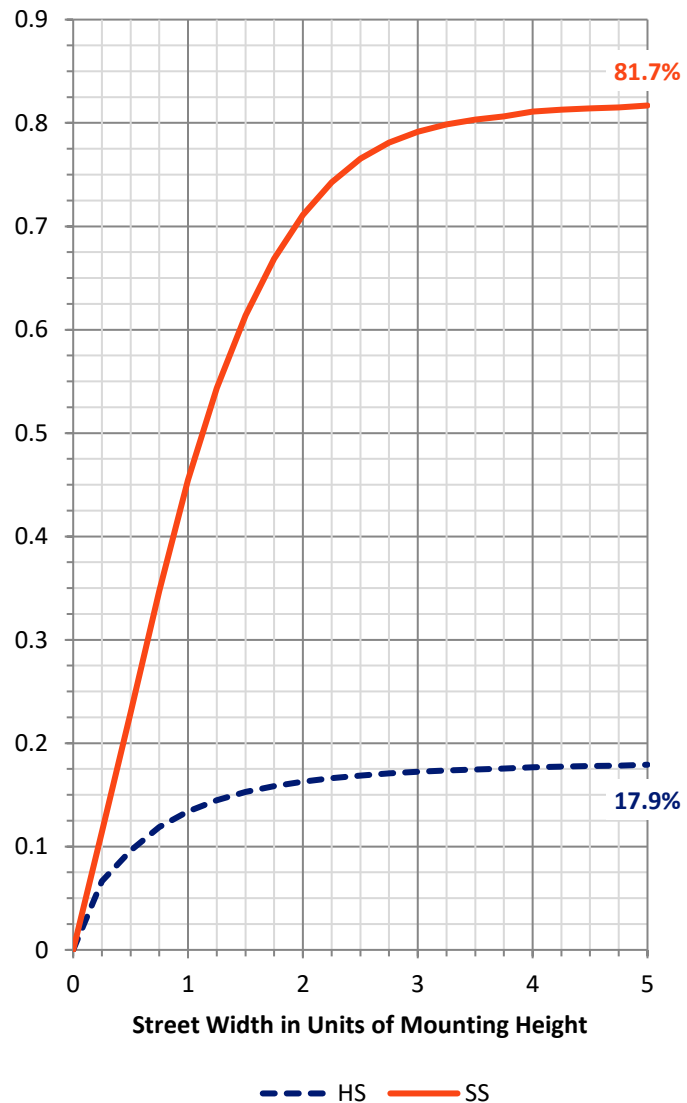
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1317.1	0.0	1317.1
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	5977.9	0.0	5977.9
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	7295.0	0.0	7295.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.0	1.6
10°-20°	306.3	4.2
20°-30°	509.9	7.0
30°-40°	754.0	10.3
40°-50°	1062.1	14.6
50°-60°	1422.2	19.5
60°-70°	1792.5	24.6
70°-80°	1224.3	16.8
80°-90°	107.7	1.5
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°	7295.0	100.0
0°-180°	7295.0	100.0



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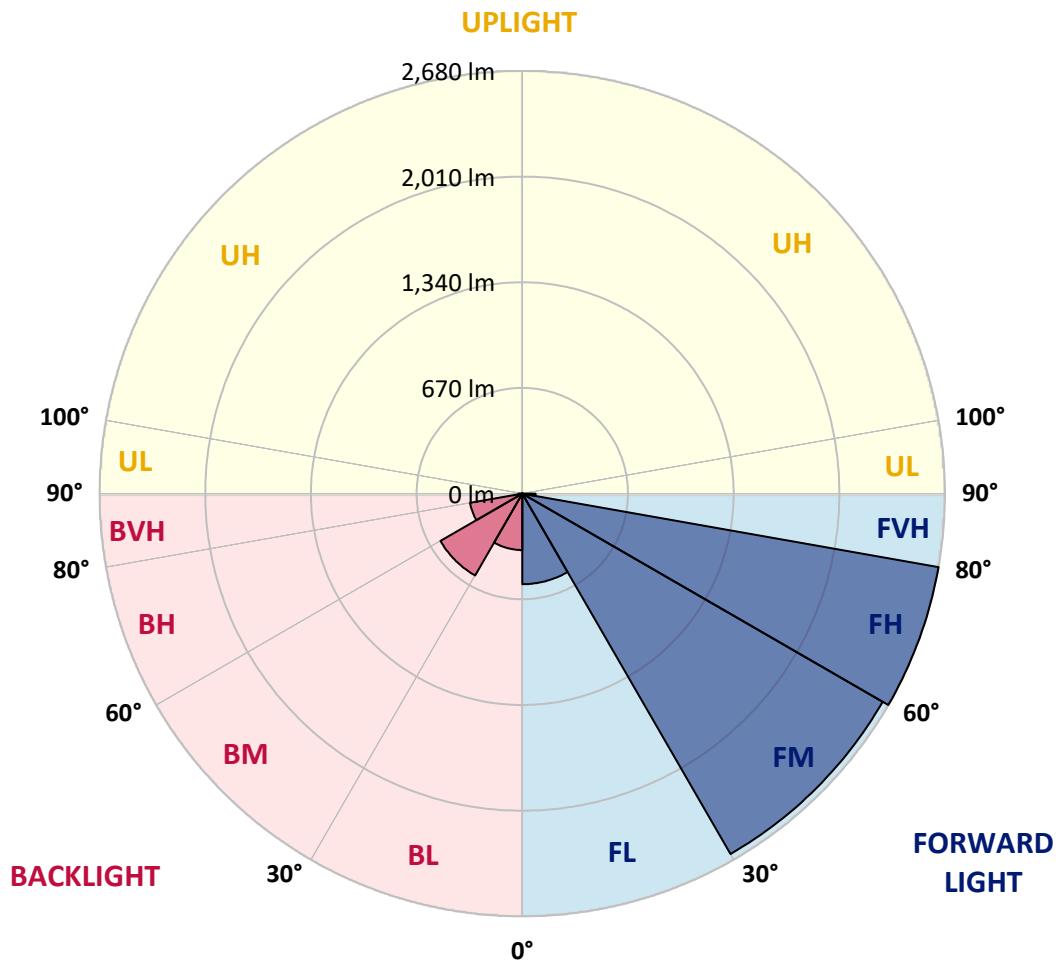
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	574.2	7.9			
FM	(30°-60°)	2639.1	36.2			
FH	(60°-80°)	2680.5	36.7			G2/5000
FVH	(80°-90°)	84.2	1.2			G1/100
BL	(0°-30°)	358.0	4.9	B1/500		
BM	(30°-60°)	599.2	8.2	B1/1000		
BH	(60°-80°)	336.4	4.6	B1/500		G1/500
BVH	(80°-90°)	23.5	0.3			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 IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1301.5	1301.5	1301.5	1301.5	1301.5	1301.5	1301.5	1301.5	1301.5	1301.5	1301.5
2.5°	1257.4	1263.3	1264.9	1268.8	1277.1	1283.8	1290.5	1289.7	1299.2	1303.1	1306.7
5°	1201.4	1203.0	1208.9	1216.8	1231.4	1249.9	1268.0	1268.4	1291.7	1310.2	1319.3
7.5°	1160.5	1165.6	1169.5	1177.8	1193.2	1213.3	1242.0	1244.4	1285.8	1322.4	1341.7
10°	1133.7	1139.6	1143.9	1154.2	1169.5	1192.0	1223.1	1227.5	1281.4	1341.7	1375.6
12.5°	1109.2	1115.2	1119.1	1132.5	1152.6	1180.2	1215.2	1220.4	1283.0	1364.2	1412.7
15°	1124.2	1128.9	1127.4	1131.3	1144.7	1176.2	1218.4	1223.5	1288.9	1385.9	1449.3
17.5°	1190.8	1194.7	1181.7	1166.8	1160.5	1183.7	1228.2	1233.8	1300.7	1408.3	1486.7
20°	1288.9	1299.6	1271.2	1237.7	1207.4	1210.5	1248.7	1254.6	1317.3	1430.8	1525.0
22.5°	1416.6	1424.5	1389.8	1334.6	1278.7	1249.9	1279.5	1283.0	1342.1	1459.9	1566.7
25°	1566.7	1571.5	1523.4	1452.5	1371.7	1317.3	1321.6	1327.9	1383.1	1493.0	1603.8
27.5°	1712.5	1727.5	1671.9	1585.2	1478.9	1388.2	1379.6	1383.5	1427.6	1511.6	1629.4
30°	1885.5	1884.3	1825.6	1725.1	1588.8	1465.5	1434.3	1433.5	1451.7	1520.6	1647.9
32.5°	2023.4	2039.6	1982.1	1872.5	1714.5	1545.5	1472.2	1470.6	1470.2	1536.4	1675.5
35°	2180.3	2182.6	2129.8	2019.5	1850.4	1645.9	1525.0	1517.1	1508.0	1570.3	1712.9
37.5°	2320.5	2331.6	2283.1	2159.4	1984.0	1750.4	1597.5	1592.3	1564.8	1629.0	1772.8
40°	2430.1	2438.4	2409.2	2291.4	2115.6	1863.1	1689.7	1680.2	1646.7	1725.1	1852.8
42.5°	2465.9	2482.9	2494.3	2436.4	2267.0	1996.6	1803.2	1791.3	1765.7	1870.9	1945.0
45°	2468.7	2495.5	2555.8	2558.5	2419.1	2156.6	1935.6	1927.3	1925.3	2057.7	2074.7
47.5°	2447.8	2475.0	2576.3	2631.0	2554.6	2318.2	2126.7	2113.7	2114.8	2288.6	2220.1
50°	2397.4	2429.7	2552.6	2677.5	2660.6	2486.0	2328.4	2324.1	2348.5	2552.2	2371.0
52.5°	2302.4	2341.4	2528.2	2706.7	2739.4	2630.7	2557.8	2545.5	2607.4	2838.3	2536.1
55°	2039.6	2098.3	2438.8	2722.9	2814.3	2769.0	2764.2	2786.3	2868.3	3150.4	2717.7
57.5°	1902.5	1946.6	2244.5	2725.6	2908.9	2929.7	3005.4	3010.9	3154.3	3481.8	2923.0
60°	1827.6	1866.6	2138.1	2707.5	3040.9	3128.7	3252.1	3271.8	3433.7	3840.8	3135.8
62.5°	1762.2	1795.7	2074.3	2644.8	3189.8	3423.9	3571.6	3581.1	3750.9	4237.2	3345.8
65°	1608.1	1646.3	1945.8	2582.2	3318.3	3792.7	3995.6	3984.6	4088.6	4579.2	3477.5
67.5°	1400.4	1448.9	1705.8	2365.9	3381.7	4195.8	4473.2	4459.4	4422.0	4803.4	3515.3
70°	1135.2	1161.3	1398.9	1991.9	3128.3	4407.4	4850.3	4835.7	4628.5	4833.0	3336.4
71°	976.8	1017.4	1218.0	1769.3	2917.5	4342.8	4898.8	4894.8	4628.9	4751.4	3201.6
72.5°	762.5	787.3	964.6	1370.9	2479.7	3975.5	4779.0	4794.0	4528.4	4524.8	2923.8
75°	482.3	493.3	605.3	807.0	1360.6	2815.5	4079.6	4120.2	4020.9	3703.6	2174.3
77.5°	280.2	294.4	362.5	475.6	587.9	1528.1	2919.1	2963.2	2793.8	2039.2	890.2
80°	163.1	178.9	238.8	276.2	269.9	567.0	1486.3	1561.6	1209.7	515.0	249.8
82.5°	90.6	101.3	167.9	168.3	143.8	185.2	467.7	489.4	345.2	207.7	102.1
85°	65.8	74.5	108.4	98.1	69.0	79.6	162.7	170.6	139.5	87.5	33.1
87.5°	23.2	33.1	59.5	47.3	18.9	16.5	46.9	38.2	35.5	24.4	7.5
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°	1301.5	1301.5	1301.5	1301.5	1301.5	1301.5	1301.5	1301.5	1301.5	1301.5	1301.5
2.5°	1308.6	1309.4	1305.5	1298.4	1291.3	1282.2	1272.0	1264.1	1260.6	1260.2	1259.8
5°	1322.8	1324.8	1309.8	1287.7	1263.3	1233.4	1207.8	1178.6	1171.1	1159.3	1162.8
7.5°	1345.7	1344.5	1314.9	1268.0	1210.9	1147.5	1093.9	1062.7	1030.4	1021.4	1021.8
10°	1378.4	1370.9	1314.9	1227.8	1132.5	1038.3	963.4	916.2	890.5	869.3	861.4
12.5°	1413.1	1394.1	1302.3	1171.5	1031.6	916.2	835.8	771.9	755.4	738.0	738.4
15°	1446.2	1414.6	1277.5	1092.3	922.9	785.7	707.7	669.5	664.4	666.3	665.9
17.5°	1476.1	1429.2	1239.7	1004.0	796.0	673.8	632.4	635.2	649.0	658.8	660.0
20°	1506.4	1437.9	1183.3	885.8	676.2	606.0	607.6	629.3	650.2	663.6	665.5
22.5°	1535.2	1441.8	1117.1	771.5	589.5	577.3	600.5	623.8	644.3	657.3	659.2
25°	1554.1	1432.8	1023.3	652.1	546.9	567.0	591.5	611.2	628.5	641.9	645.1
27.5°	1559.2	1403.6	907.1	555.6	527.2	557.2	579.6	594.2	607.6	620.2	622.6
30°	1556.5	1360.6	779.4	498.9	515.8	545.8	563.1	573.7	589.9	599.7	601.7
32.5°	1552.1	1310.6	646.2	468.5	506.3	535.1	545.4	554.8	554.4	550.5	553.2
35°	1553.7	1250.7	538.3	450.4	498.1	527.2	535.9	524.1	490.2	488.6	487.0
37.5°	1562.0	1191.6	459.9	437.8	493.7	526.1	530.8	476.4	446.5	432.7	429.1
40°	1583.3	1122.6	408.2	428.3	493.3	535.1	507.5	452.4	394.8	368.0	366.1
42.5°	1611.7	1054.9	376.7	422.4	498.1	548.9	498.1	418.5	355.8	340.1	337.7
45°	1653.8	977.2	359.4	419.7	505.2	554.0	494.9	393.7	340.1	327.5	327.5
47.5°	1701.5	903.2	349.9	417.7	514.2	550.5	466.9	385.8	332.6	334.2	341.6
50°	1748.8	838.9	342.8	413.4	522.1	548.5	455.5	385.4	334.5	354.6	368.0
52.5°	1803.6	793.6	334.2	406.3	522.1	535.9	452.0	393.3	340.1	346.0	351.9
55°	1869.8	779.4	323.1	390.9	512.7	504.4	450.0	404.7	344.0	330.2	332.6
57.5°	1957.2	802.3	312.5	371.6	491.0	471.7	449.2	407.8	334.9	323.5	321.1
60°	2058.9	847.6	309.3	351.9	461.4	443.7	444.5	398.8	322.3	310.5	312.5
62.5°	2130.2	874.8	307.4	336.9	429.1	413.0	433.1	387.7	316.8	306.6	308.5
65°	2130.2	841.7	289.2	314.1	387.3	375.9	419.3	374.0	309.7	297.9	295.9
67.5°	2049.4	745.1	261.6	279.8	341.2	333.8	400.0	357.4	299.1	290.0	285.3
70°	1839.0	565.1	227.0	239.6	282.9	289.6	375.1	334.9	281.3	270.3	263.2
71°	1746.4	492.2	212.4	219.1	260.5	270.3	363.3	325.5	273.5	257.7	245.1
72.5°	1567.9	414.5	190.3	193.1	222.6	240.4	338.5	307.4	258.5	236.0	221.8
75°	1191.2	302.6	153.3	151.7	164.7	190.7	286.5	273.9	226.6	196.2	188.0
77.5°	514.6	164.7	114.7	115.8	111.9	144.6	225.4	235.2	194.3	159.6	152.1
80°	156.0	95.0	78.4	80.0	74.9	96.9	158.8	184.4	156.0	124.1	113.9
82.5°	80.0	56.7	53.6	52.8	47.7	54.8	96.1	126.1	111.5	77.6	68.6
85°	34.7	30.3	26.4	25.6	22.5	19.7	34.3	63.0	59.1	43.3	41.4
87.5°	8.7	7.9	5.1	4.7	2.8	0.4	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)