

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: STREETWORKS

Report Number: P799865

Luminaire Tested: **ARCH2-60-722-U-T4W**

Issue Date: 4/4/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P799865  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/4/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH2-60-722-U-T4W  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2200K, 485mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

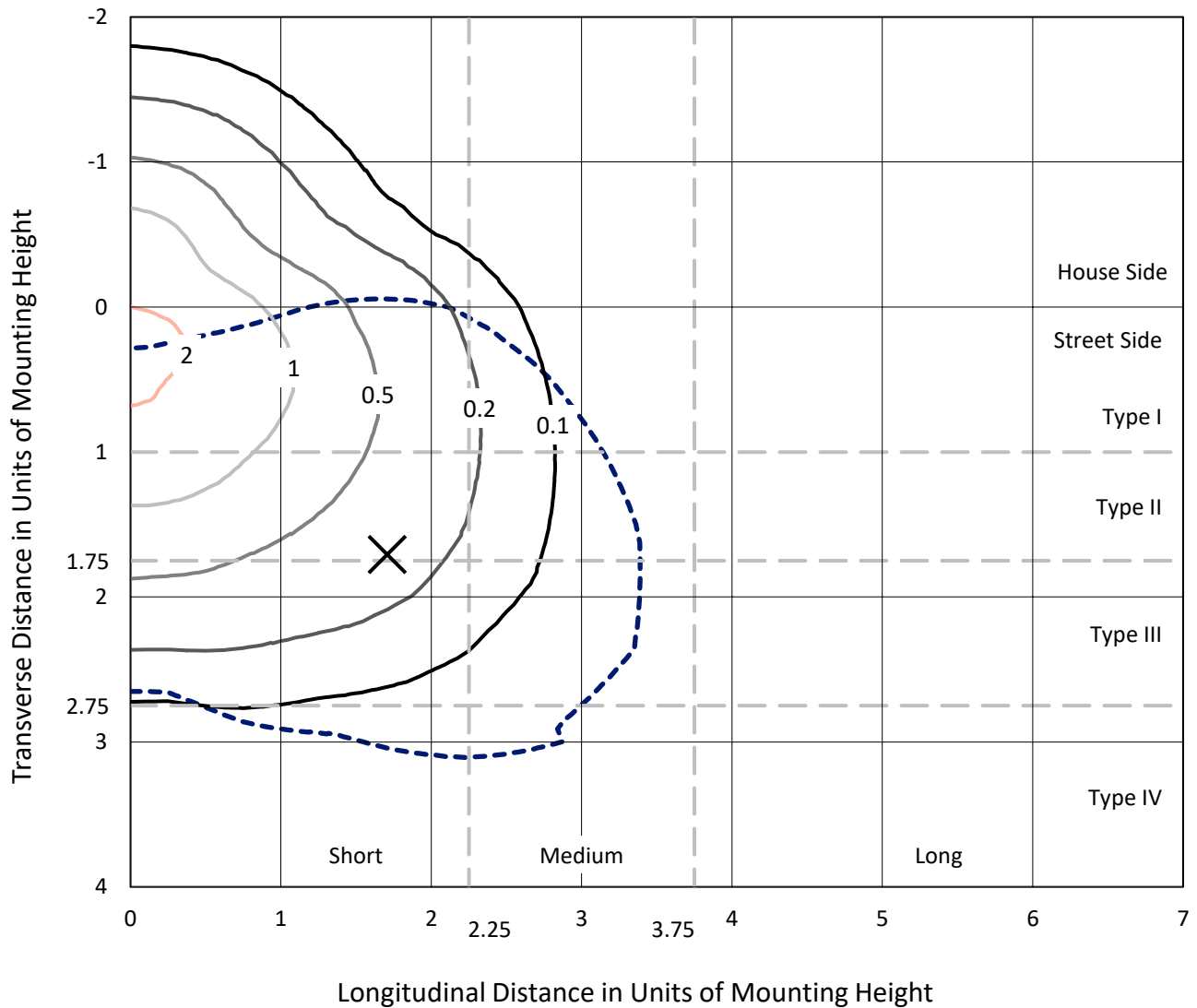
Lumens per Lamp: N/A  
Luminaire Lumens: 7501 lumens  
Efficiency: N/A  
Efficacy: 117.6 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 63.8  
Input Voltage (V): NR  
Input Current (Ain): 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

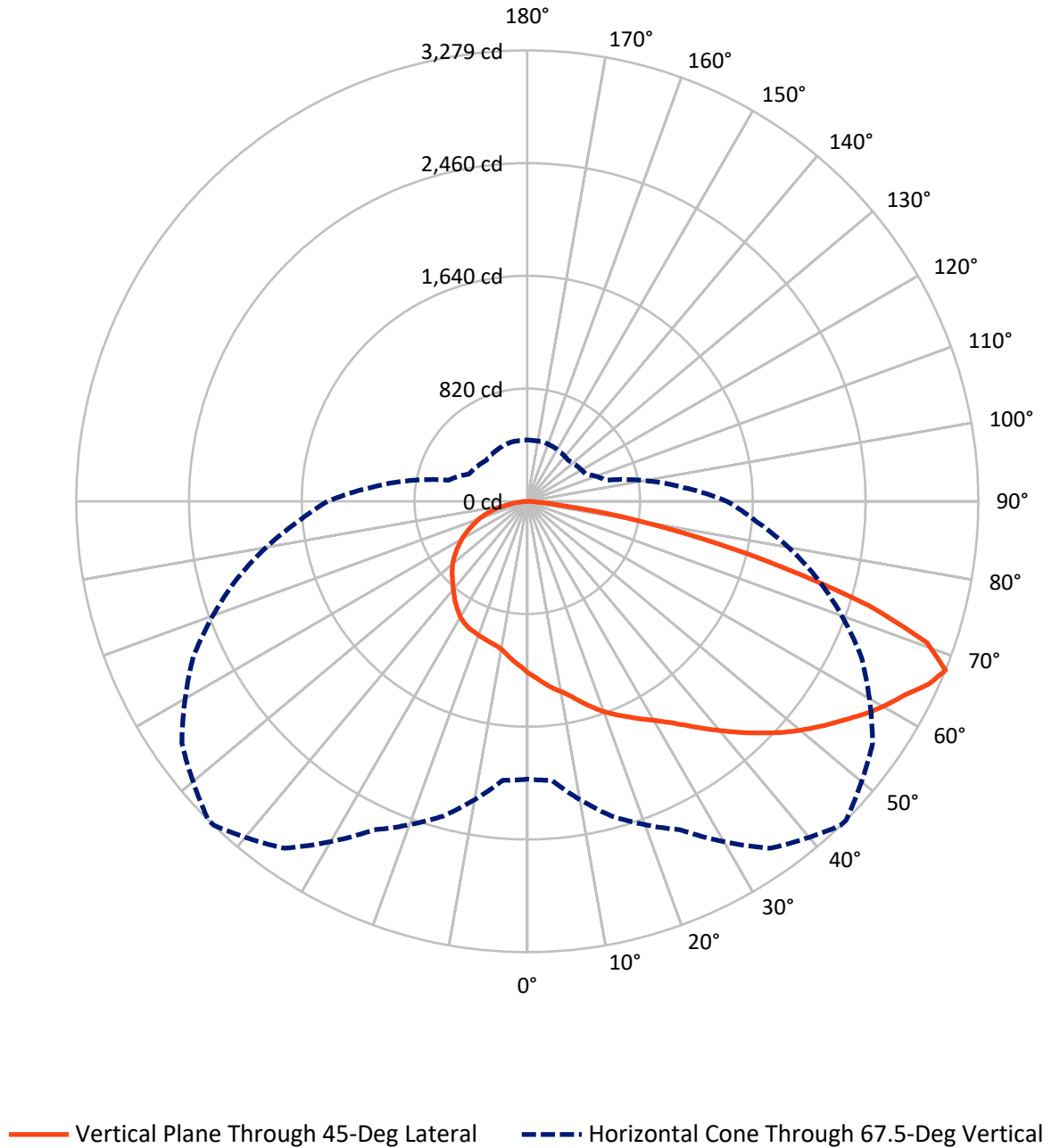
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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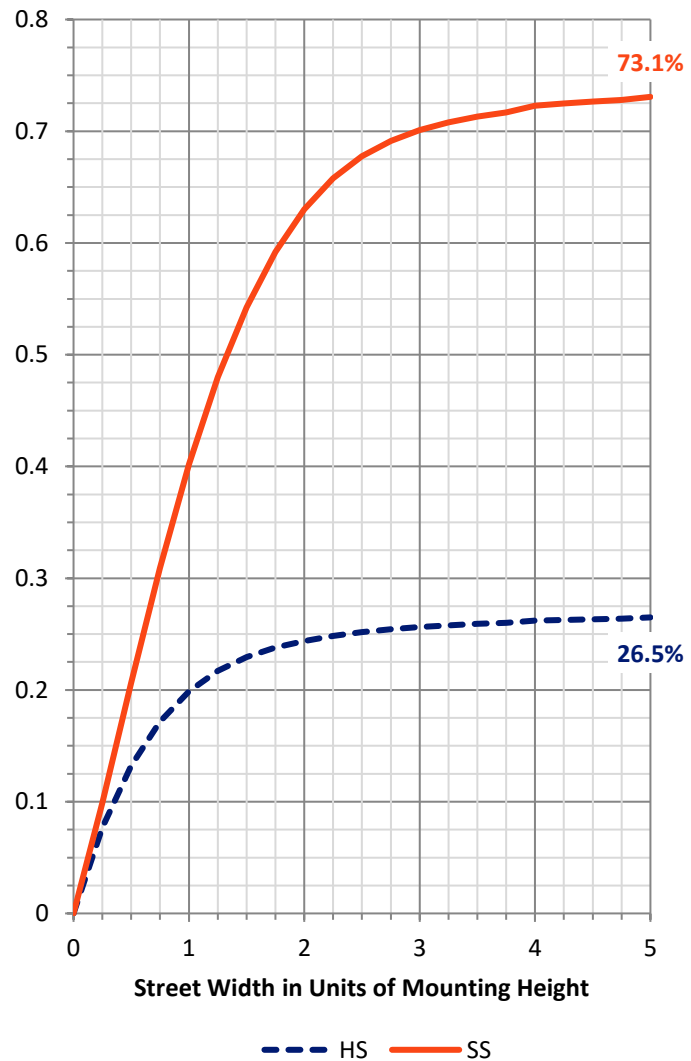
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2003.9	0.0	2003.9
	% Fixture	26.7	0.0	26.7
<b>Street Side</b>	Lumens	5497.1	0.0	5497.1
	% Fixture	73.3	0.0	73.3
<b>Total</b>	Lumens	7501.0	0.0	7501.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.8	1.6
10°-20°	370.0	4.9
20°-30°	638.7	8.5
30°-40°	941.8	12.6
40°-50°	1276.0	17.0
50°-60°	1559.6	20.8
60°-70°	1608.5	21.4
70°-80°	881.0	11.7
80°-90°	105.6	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°	7501.0	100.0
0°-180°	7501.0	100.0

**Coefficient of Utilization**



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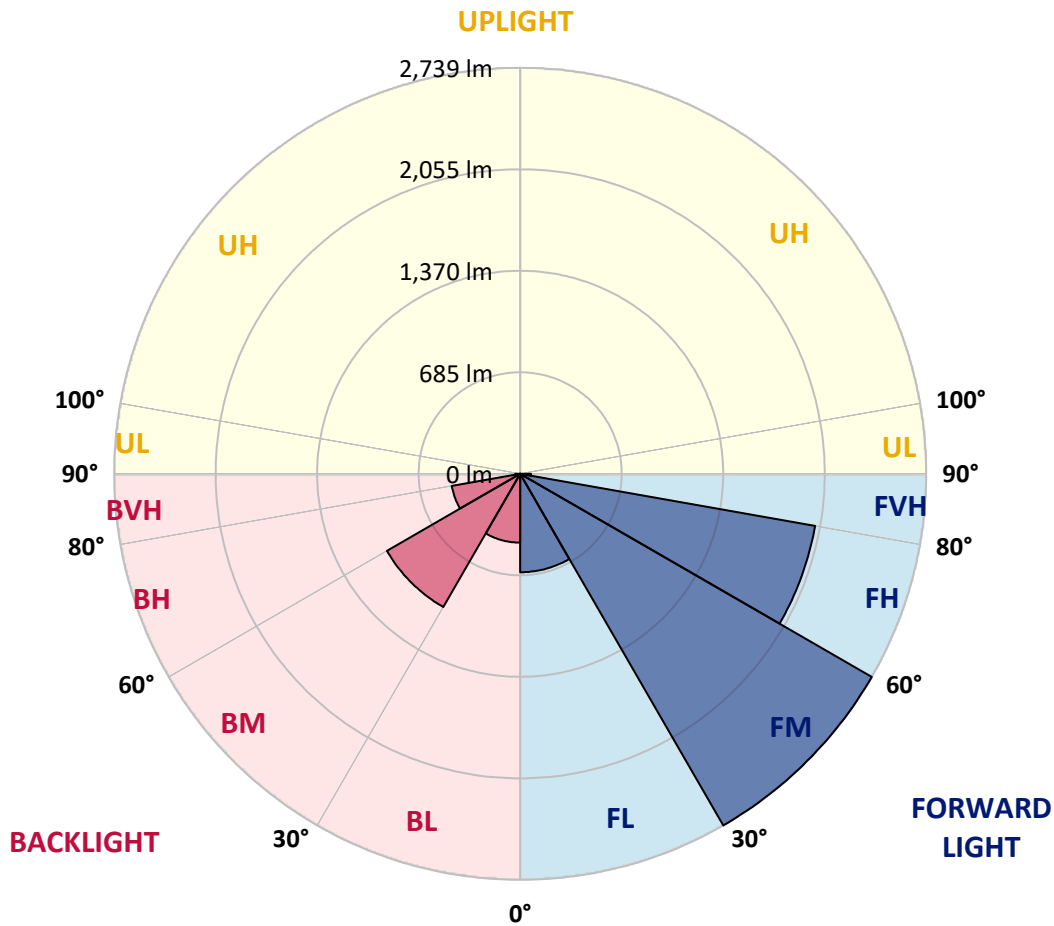
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	664.0	8.9			
FM (30°-60°)	2739.4	36.5			
FH (60°-80°)	2020.9	26.9			G2/5000
FVH (80°-90°)	72.7	1.0			G1/100
BL (0°-30°)	464.4	6.2	B1/500		
BM (30°-60°)	1038.0	13.8	B2/2500		
BH (60°-80°)	468.6	6.2	B1/500		G1/500
BVH (80°-90°)	32.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1251.0	1251.0	1251.0	1251.0	1251.0	1251.0	1251.0	1251.0	1251.0	1251.0	1251.0
2.5°	1305.8	1304.7	1307.0	1299.0	1288.7	1287.6	1287.6	1280.7	1272.7	1256.7	1244.2
5°	1367.5	1365.2	1366.3	1354.9	1341.2	1334.4	1333.2	1318.4	1300.1	1275.0	1252.2
7.5°	1424.5	1422.2	1421.1	1408.5	1388.0	1376.6	1375.4	1353.8	1332.1	1293.3	1260.2
10°	1478.2	1475.9	1473.6	1456.5	1431.4	1414.3	1412.0	1384.6	1357.2	1309.2	1267.0
12.5°	1546.7	1542.1	1539.8	1519.3	1482.7	1464.5	1461.1	1424.5	1390.3	1332.1	1280.7
15°	1618.6	1615.1	1611.7	1592.3	1551.2	1527.3	1521.5	1475.9	1429.1	1361.7	1301.2
17.5°	1672.2	1668.8	1668.8	1651.7	1614.0	1586.6	1582.0	1527.3	1469.0	1389.1	1317.2
20°	1705.3	1701.9	1705.3	1695.0	1666.5	1643.7	1639.1	1578.6	1509.0	1414.3	1330.9
22.5°	1729.3	1725.9	1731.6	1727.0	1706.5	1692.8	1689.3	1630.0	1550.1	1440.5	1344.6
25°	1771.5	1771.5	1771.5	1763.5	1744.1	1739.6	1739.6	1688.2	1602.6	1474.7	1365.2
27.5°	1856.0	1851.4	1845.7	1822.9	1789.8	1788.6	1795.5	1747.6	1663.1	1519.3	1390.3
30°	1980.4	1978.1	1956.4	1908.5	1852.6	1846.9	1851.4	1811.5	1728.1	1566.1	1418.8
32.5°	2141.4	2133.4	2088.8	2016.9	1937.0	1910.8	1919.9	1877.7	1796.6	1614.0	1446.2
35°	2255.5	2257.8	2225.8	2160.8	2066.0	1996.4	2003.2	1951.9	1870.8	1667.7	1480.5
37.5°	2386.8	2394.8	2346.8	2297.7	2209.8	2091.1	2098.0	2028.3	1945.0	1735.0	1517.0
40°	2568.3	2552.3	2471.2	2413.0	2316.0	2190.4	2196.1	2114.0	2030.6	1798.9	1559.2
42.5°	2720.1	2691.5	2593.4	2519.2	2402.7	2295.4	2301.2	2206.4	2117.4	1869.7	1606.0
45°	2938.1	2859.3	2717.8	2681.3	2491.8	2398.2	2403.9	2304.6	2208.7	1945.0	1656.2
47.5°	3064.8	2939.2	2849.0	2829.6	2589.9	2504.3	2511.2	2408.5	2306.9	2030.6	1708.7
50°	3056.8	2975.7	2949.5	2901.6	2676.7	2603.6	2610.5	2515.7	2406.2	2115.1	1759.0
52.5°	3004.3	3019.1	3005.4	2925.5	2763.4	2699.5	2707.5	2621.9	2507.8	2193.9	1805.8
55°	3085.3	3095.6	3069.3	2964.3	2859.3	2795.4	2804.5	2733.8	2608.2	2263.5	1845.7
57.5°	3182.4	3145.8	3119.6	3032.8	2958.6	2899.3	2909.5	2847.9	2695.0	2319.4	1876.5
60°	3177.8	3101.3	3127.6	3037.4	3026.0	2995.2	3004.3	2941.5	2761.2	2360.5	1889.1
62.5°	2943.8	2902.7	3035.1	3004.3	3080.8	3080.8	3092.2	2998.6	2801.1	2377.6	1882.2
65°	2537.4	2539.7	2772.6	2900.4	3145.8	3198.3	3207.5	3034.0	2778.3	2327.4	1818.3
67.5°	2021.5	2036.3	2370.8	2636.7	3080.8	3278.2	3279.4	3065.9	2680.1	2185.9	1669.9
70°	1479.3	1490.7	1885.7	2208.7	2773.7	3101.3	3083.0	2975.7	2466.7	1939.3	1438.2
72.5°	999.9	1010.2	1416.5	1696.2	2276.0	2641.3	2601.4	2629.9	2102.5	1593.5	1156.3
75°	672.3	684.9	1007.9	1213.4	1674.5	2005.5	1916.5	1991.8	1626.6	1206.5	843.5
77.5°	423.5	431.5	640.4	795.6	1143.7	1365.2	1276.1	1277.3	937.1	649.5	453.2
80°	269.4	271.7	388.1	458.9	662.0	820.7	726.0	590.1	422.3	344.7	270.5
82.5°	156.4	153.0	231.7	259.1	315.0	311.6	258.0	244.3	184.9	172.4	138.1
85°	62.8	58.2	101.6	94.7	95.9	101.6	75.3	75.3	60.5	46.8	34.2
87.5°	12.6	12.6	13.7	12.6	12.6	13.7	10.3	10.3	9.1	9.1	9.1
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°	1251.0	1251.0	1251.0	1251.0	1251.0	1251.0	1251.0	1251.0	1251.0	1251.0	1251.0
2.5°	1241.9	1239.6	1233.9	1219.1	1211.1	1206.5	1199.7	1197.4	1196.2	1197.4	1200.8
5°	1245.3	1237.3	1221.3	1197.4	1181.4	1171.1	1159.7	1155.1	1151.7	1151.7	1155.1
7.5°	1247.6	1235.0	1207.6	1172.3	1149.4	1133.5	1119.8	1114.1	1112.9	1116.3	1117.5
10°	1248.7	1230.5	1191.7	1147.2	1117.5	1096.9	1083.2	1079.8	1083.2	1090.1	1091.2
12.5°	1256.7	1231.6	1182.5	1130.0	1094.6	1074.1	1063.8	1063.8	1073.0	1085.5	1086.7
15°	1270.4	1239.6	1178.0	1116.3	1079.8	1061.5	1058.1	1063.8	1077.5	1096.9	1099.2
17.5°	1280.7	1244.2	1167.7	1098.1	1060.4	1049.0	1054.7	1068.4	1087.8	1114.1	1116.3
20°	1287.6	1244.2	1152.9	1076.4	1041.0	1038.7	1054.7	1076.4	1096.9	1127.7	1131.2
22.5°	1294.4	1241.9	1135.7	1050.1	1019.3	1026.2	1055.8	1083.2	1103.8	1136.9	1142.6
25°	1307.0	1245.3	1118.6	1023.9	996.5	1015.9	1054.7	1087.8	1109.5	1143.7	1152.9
27.5°	1324.1	1253.3	1106.1	999.9	973.7	999.9	1046.7	1086.7	1109.5	1142.6	1152.9
30°	1342.3	1262.4	1091.2	973.7	947.4	977.1	1029.6	1074.1	1100.4	1131.2	1143.7
32.5°	1361.7	1272.7	1078.7	945.1	915.4	946.3	1004.5	1054.7	1083.2	1111.8	1125.5
35°	1388.0	1291.0	1071.8	922.3	886.9	914.3	972.5	1029.6	1060.4	1086.7	1102.6
37.5°	1420.0	1313.8	1068.4	899.5	856.1	878.9	938.3	998.8	1031.9	1053.6	1068.4
40°	1456.5	1342.3	1067.3	877.8	825.3	842.4	902.9	963.4	995.3	1012.5	1025.0
42.5°	1497.6	1374.3	1065.0	856.1	794.4	808.1	868.6	928.0	955.4	970.2	981.6
45°	1541.0	1406.3	1060.4	829.8	761.3	777.3	833.3	885.8	914.3	926.9	939.4
47.5°	1584.3	1438.2	1051.3	800.2	731.7	746.5	795.6	841.2	864.1	875.5	888.0
50°	1626.6	1466.8	1029.6	765.9	700.8	714.5	752.2	783.0	800.2	809.3	821.8
52.5°	1664.2	1486.2	998.8	726.0	670.0	676.9	702.0	728.2	741.9	743.1	754.5
55°	1696.2	1496.4	954.2	684.9	636.9	638.1	651.8	672.3	678.0	673.5	681.4
57.5°	1714.5	1490.7	905.2	642.6	602.7	598.1	608.4	618.7	619.8	608.4	616.4
60°	1719.0	1464.5	841.2	600.4	568.4	555.9	559.3	557.0	554.7	550.2	557.0
62.5°	1696.2	1408.5	770.5	559.3	531.9	512.5	511.4	510.2	513.7	514.8	515.9
65°	1612.9	1303.5	686.0	517.1	493.1	466.9	465.7	479.4	484.0	477.1	479.4
67.5°	1451.9	1142.6	593.6	468.0	444.0	421.2	430.3	438.3	446.3	444.0	446.3
70°	1223.6	938.3	509.1	413.2	390.4	377.8	388.1	394.9	396.1	393.8	396.1
72.5°	962.2	732.8	430.3	357.3	336.7	331.0	343.6	349.3	359.6	364.1	365.3
75°	695.1	541.0	352.7	296.8	279.7	279.7	291.1	301.3	310.5	304.8	301.3
77.5°	388.1	323.0	253.4	204.3	207.7	223.7	228.3	239.7	248.8	247.7	245.4
80°	235.1	202.0	171.2	132.4	131.3	143.8	173.5	192.9	197.5	187.2	186.1
82.5°	122.1	106.2	91.3	74.2	82.2	95.9	100.4	121.0	133.5	129.0	134.7
85°	30.8	29.7	33.1	34.2	42.2	46.8	51.4	60.5	40.0	19.4	19.4
87.5°	9.1	9.1	11.4	11.4	14.8	18.3	17.1	17.1	9.1	1.1	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)