

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: P836601

Luminaire Tested: **ARCH3-50-722-U-T4W**

Issue Date: 5/16/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P836601  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH3-50-722-U-T4W  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2200K, 425mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

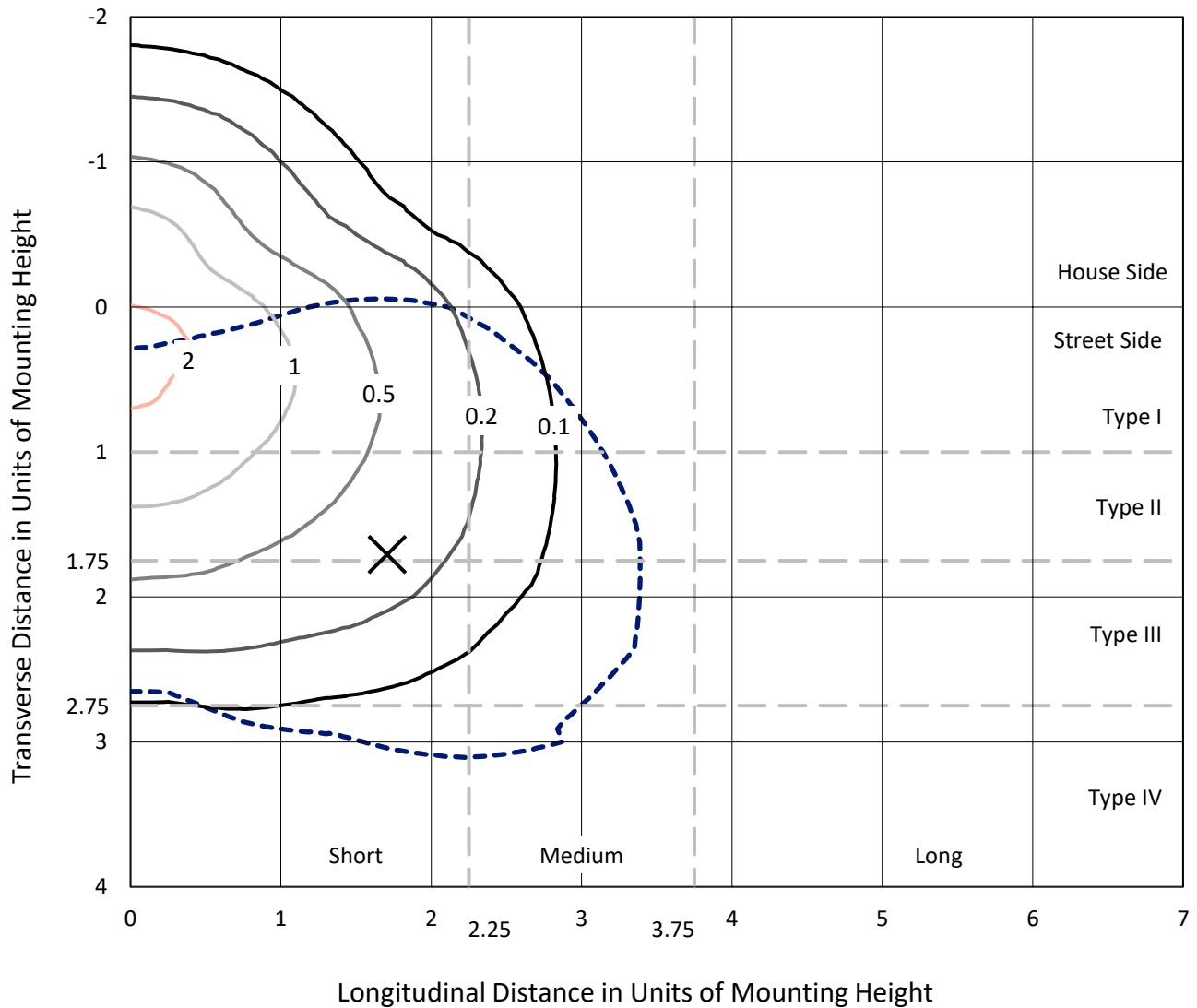
Lumens per Lamp: N/A  
Luminaire Lumens: 7579 lumens  
Efficiency: N/A  
Efficacy: 141.4 lumens/watt  
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 53.6  
Input Voltage (V): NR  
Input Current (Ain): 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

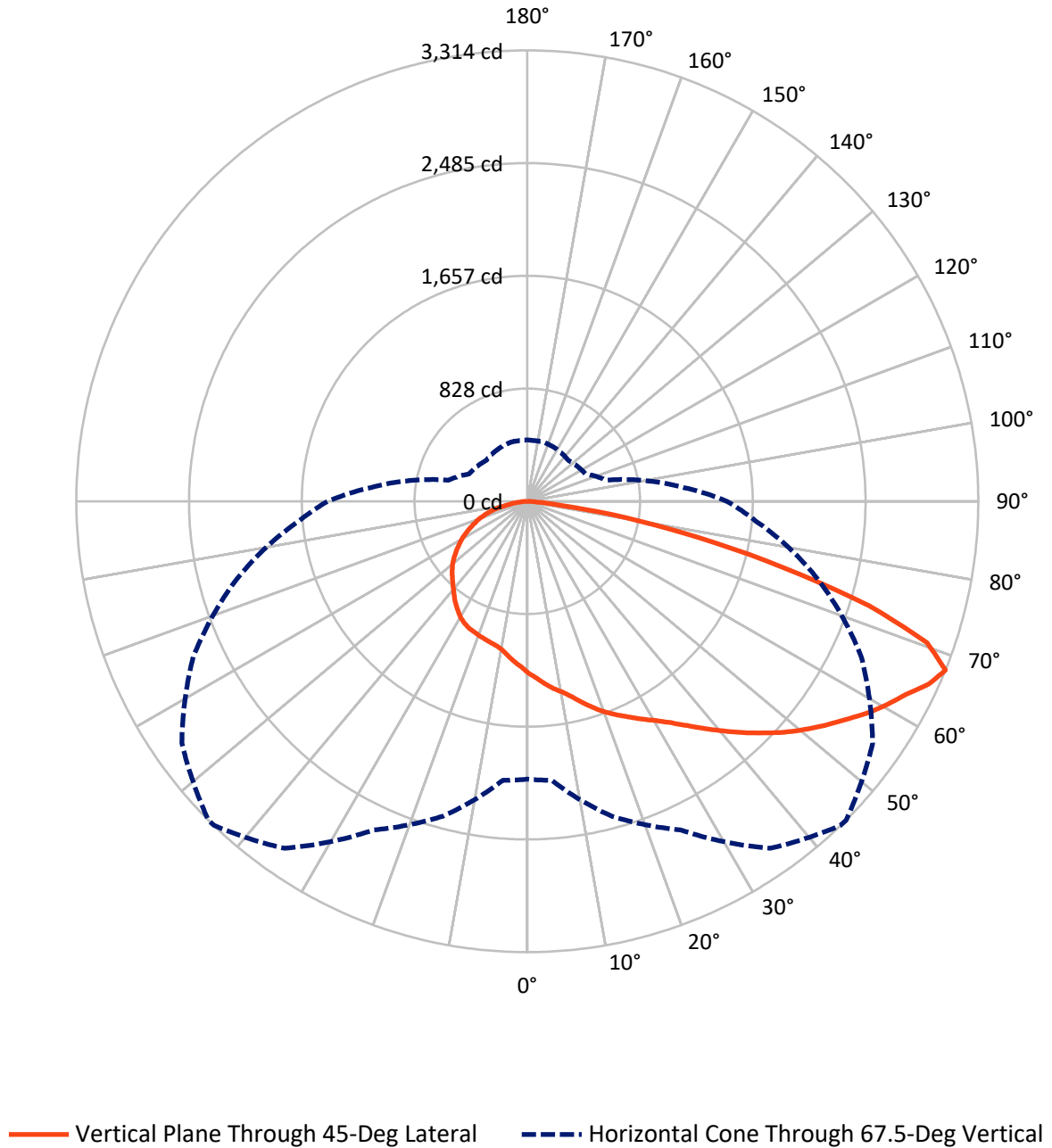
✕ Max cd  
 - - - 1/2 Max cd



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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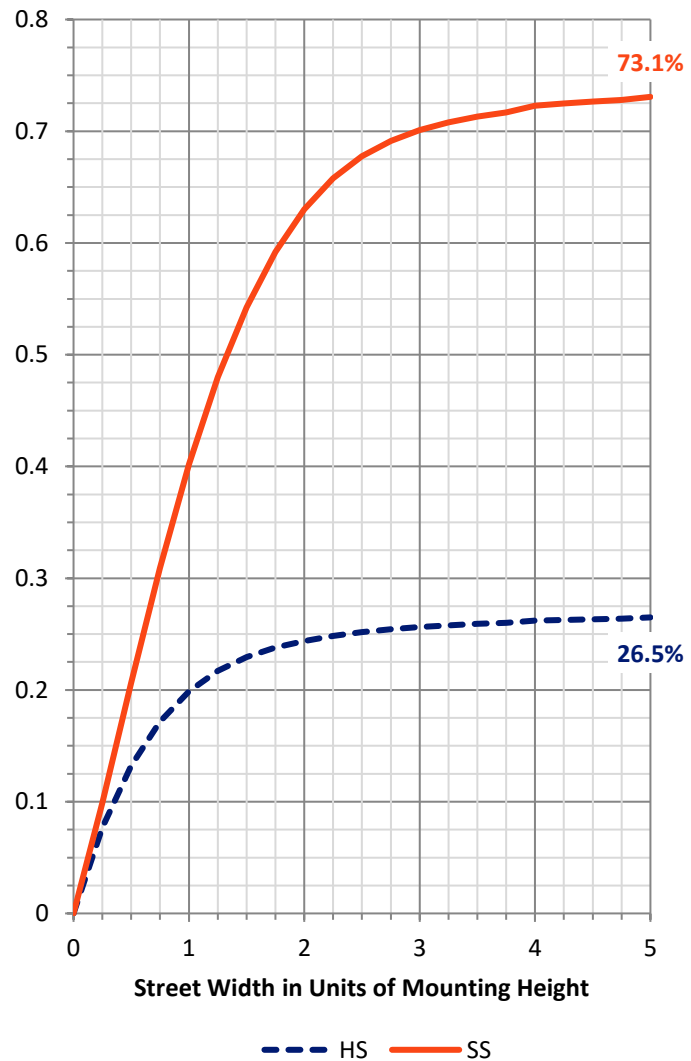
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2024.7	0.0	2024.7
	% Fixture	26.7	0.0	26.7
<b>Street Side</b>	Lumens	5554.3	0.0	5554.3
	% Fixture	73.3	0.0	73.3
<b>Total</b>	Lumens	7579.0	0.0	7579.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.0	1.6
10°-20°	373.9	4.9
20°-30°	645.3	8.5
30°-40°	951.6	12.6
40°-50°	1289.3	17.0
50°-60°	1575.8	20.8
60°-70°	1625.2	21.4
70°-80°	890.2	11.7
80°-90°	106.7	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°	7579.0	100.0
0°-180°	7579.0	100.0



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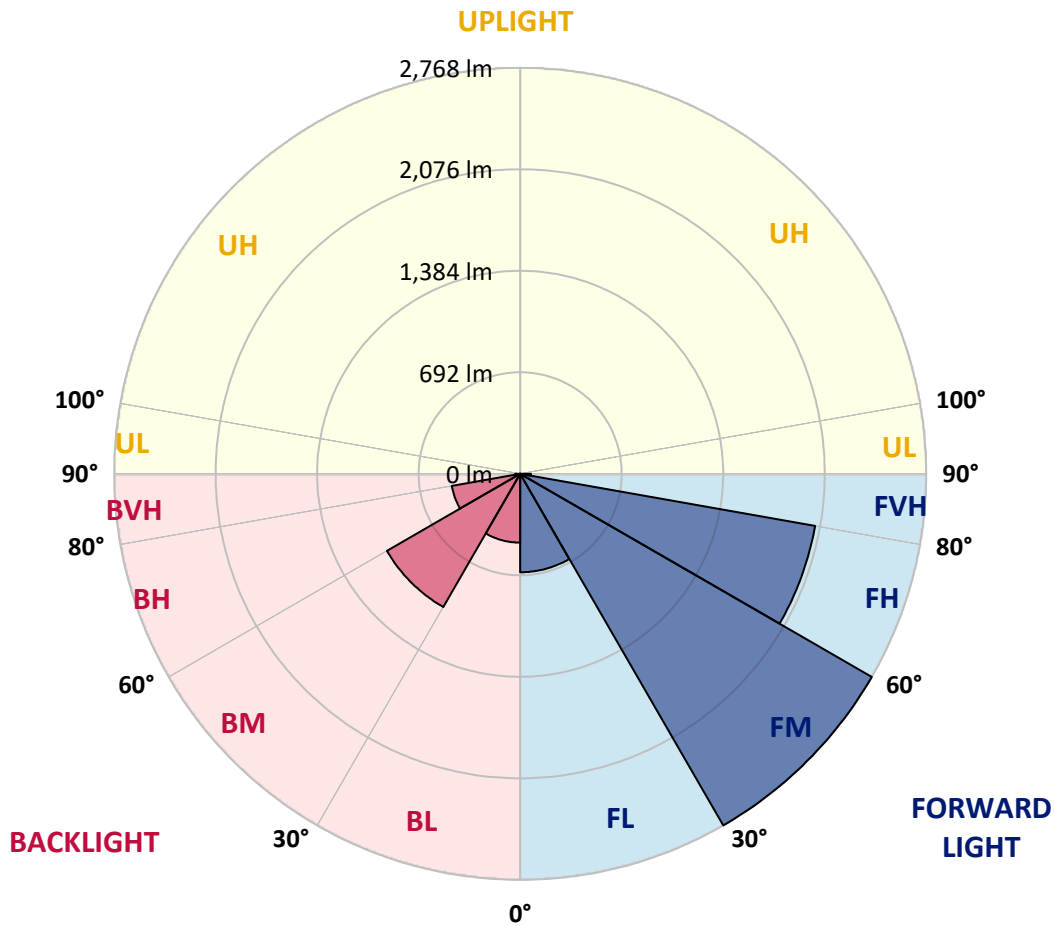
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	670.9	8.9			
FM (30°-60°)	2767.9	36.5			
FH (60°-80°)	2041.9	26.9			G2/5000
FVH (80°-90°)	73.5	1.0			G1/100
BL (0°-30°)	469.3	6.2	B1/500		
BM (30°-60°)	1048.8	13.8	B2/2500		
BH (60°-80°)	473.5	6.2	B1/500		G1/500
BVH (80°-90°)	33.2	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°	1264.0	1264.0	1264.0	1264.0	1264.0	1264.0	1264.0	1264.0	1264.0	1264.0	1264.0
2.5°	1319.4	1318.2	1320.5	1312.5	1302.1	1300.9	1300.9	1294.0	1285.9	1269.8	1257.1
5°	1381.7	1379.4	1380.5	1369.0	1355.1	1348.2	1347.1	1332.1	1313.6	1288.3	1265.2
7.5°	1439.3	1437.0	1435.9	1423.2	1402.4	1390.9	1389.7	1367.8	1345.9	1306.7	1273.3
10°	1493.5	1491.2	1488.9	1471.6	1446.3	1429.0	1426.7	1399.0	1371.3	1322.9	1280.2
12.5°	1562.7	1558.1	1555.8	1535.1	1498.2	1479.7	1476.2	1439.3	1404.7	1345.9	1294.0
15°	1635.4	1631.9	1628.5	1608.9	1567.4	1543.1	1537.4	1491.2	1444.0	1375.9	1314.8
17.5°	1689.6	1686.1	1686.1	1668.8	1630.8	1603.1	1598.5	1543.1	1484.3	1403.6	1330.9
20°	1723.1	1719.6	1723.1	1712.7	1683.8	1660.8	1656.2	1595.0	1524.7	1429.0	1344.8
22.5°	1747.3	1743.8	1749.6	1745.0	1724.2	1710.4	1706.9	1646.9	1566.2	1455.5	1358.6
25°	1789.9	1789.9	1789.9	1781.9	1762.3	1757.7	1757.7	1705.8	1619.3	1490.1	1379.4
27.5°	1875.3	1870.7	1864.9	1841.8	1808.4	1807.2	1814.2	1765.7	1680.4	1535.1	1404.7
30°	2001.0	1998.7	1976.8	1928.3	1871.8	1866.1	1870.7	1830.3	1746.1	1582.3	1433.6
32.5°	2163.6	2155.5	2110.6	2037.9	1957.2	1930.6	1939.9	1897.2	1815.3	1630.8	1461.3
35°	2279.0	2281.3	2249.0	2183.2	2087.5	2017.1	2024.1	1972.2	1890.3	1685.0	1495.8
37.5°	2411.6	2419.7	2371.2	2321.6	2232.8	2112.9	2119.8	2049.4	1965.2	1753.0	1532.8
40°	2595.0	2578.8	2496.9	2438.1	2340.1	2213.2	2219.0	2135.9	2051.7	1817.6	1575.4
42.5°	2748.4	2719.5	2620.3	2545.4	2427.7	2319.3	2325.1	2229.4	2139.4	1889.1	1622.7
45°	2968.6	2889.1	2746.0	2709.1	2517.7	2423.1	2428.9	2328.5	2231.7	1965.2	1673.5
47.5°	3096.7	2969.8	2878.7	2859.1	2616.9	2530.4	2537.3	2433.5	2330.9	2051.7	1726.5
50°	3088.6	3006.7	2980.2	2931.7	2704.5	2630.7	2637.6	2541.9	2431.2	2137.1	1777.3
52.5°	3035.5	3050.5	3036.7	2955.9	2792.2	2727.6	2735.7	2649.2	2533.8	2216.7	1824.5
55°	3117.4	3127.8	3101.3	2995.2	2889.1	2824.5	2833.7	2762.2	2635.3	2287.0	1864.9
57.5°	3215.4	3178.5	3152.0	3064.4	2989.4	2929.4	2939.8	2877.5	2723.0	2343.5	1896.1
60°	3210.8	3133.6	3160.1	3069.0	3057.4	3026.3	3035.5	2972.1	2789.9	2385.1	1908.7
62.5°	2974.4	2932.9	3066.7	3035.5	3112.8	3112.8	3124.3	3029.8	2830.2	2402.4	1901.8
65°	2563.8	2566.1	2801.4	2930.6	3178.5	3231.6	3240.8	3065.5	2807.2	2351.6	1837.2
67.5°	2042.5	2057.5	2395.4	2664.2	3112.8	3312.3	3313.5	3097.8	2708.0	2208.6	1687.3
70°	1494.7	1506.2	1905.3	2231.7	2802.6	3133.6	3115.1	3006.7	2492.3	1959.5	1453.2
72.5°	1010.3	1020.7	1431.3	1713.8	2299.7	2668.8	2628.4	2657.2	2124.4	1610.0	1168.3
75°	679.3	692.0	1018.4	1226.0	1691.9	2026.4	1936.4	2012.5	1643.5	1219.1	852.3
77.5°	427.9	436.0	647.0	803.9	1155.6	1379.4	1289.4	1290.6	946.9	656.2	457.9
80°	272.2	274.5	392.1	463.6	668.9	829.2	733.5	596.3	426.7	348.3	273.3
82.5°	158.0	154.5	234.1	261.8	318.3	314.9	260.6	246.8	186.8	174.2	139.6
85°	63.4	58.8	102.6	95.7	96.9	102.6	76.1	76.1	61.1	47.3	34.6
87.5°	12.7	12.7	13.8	12.7	12.7	13.8	10.4	10.4	9.2	9.2	9.2
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°	1264.0	1264.0	1264.0	1264.0	1264.0	1264.0	1264.0	1264.0	1264.0	1264.0	1264.0
2.5°	1254.8	1252.5	1246.7	1231.7	1223.7	1219.1	1212.1	1209.8	1208.7	1209.8	1213.3
5°	1258.3	1250.2	1234.0	1209.8	1193.7	1183.3	1171.8	1167.2	1163.7	1163.7	1167.2
7.5°	1260.6	1247.9	1220.2	1184.5	1161.4	1145.2	1131.4	1125.6	1124.5	1127.9	1129.1
10°	1261.7	1243.3	1204.1	1159.1	1129.1	1108.3	1094.5	1091.0	1094.5	1101.4	1102.6
12.5°	1269.8	1244.4	1194.8	1141.8	1106.0	1085.3	1074.9	1074.9	1084.1	1096.8	1098.0
15°	1283.6	1252.5	1190.2	1127.9	1091.0	1072.6	1069.1	1074.9	1088.7	1108.3	1110.6
17.5°	1294.0	1257.1	1179.8	1109.5	1071.4	1059.9	1065.7	1079.5	1099.1	1125.6	1127.9
20°	1300.9	1257.1	1164.8	1087.6	1051.8	1049.5	1065.7	1087.6	1108.3	1139.5	1142.9
22.5°	1307.9	1254.8	1147.5	1061.0	1029.9	1036.8	1066.8	1094.5	1115.3	1148.7	1154.5
25°	1320.5	1258.3	1130.2	1034.5	1006.8	1026.5	1065.7	1099.1	1121.0	1155.6	1164.8
27.5°	1337.8	1266.3	1117.6	1010.3	983.8	1010.3	1057.6	1098.0	1121.0	1154.5	1164.8
30°	1356.3	1275.6	1102.6	983.8	957.3	987.2	1040.3	1085.3	1111.8	1142.9	1155.6
32.5°	1375.9	1285.9	1089.9	954.9	925.0	956.1	1014.9	1065.7	1094.5	1123.3	1137.2
35°	1402.4	1304.4	1083.0	931.9	896.1	923.8	982.6	1040.3	1071.4	1098.0	1114.1
37.5°	1434.7	1327.5	1079.5	908.8	865.0	888.1	948.0	1009.2	1042.6	1064.5	1079.5
40°	1471.6	1356.3	1078.3	886.9	833.8	851.1	912.3	973.4	1005.7	1023.0	1035.7
42.5°	1513.1	1388.6	1076.0	865.0	802.7	816.5	877.7	937.6	965.3	980.3	991.9
45°	1557.0	1420.9	1071.4	838.5	769.3	785.4	841.9	895.0	923.8	936.5	949.2
47.5°	1600.8	1453.2	1062.2	808.5	739.3	754.3	803.9	850.0	873.1	884.6	897.3
50°	1643.5	1482.0	1040.3	773.9	708.1	722.0	760.0	791.2	808.5	817.7	830.4
52.5°	1681.5	1501.6	1009.2	733.5	677.0	683.9	709.3	735.8	749.7	750.8	762.3
55°	1713.8	1512.0	964.2	692.0	643.5	644.7	658.5	679.3	685.1	680.5	688.5
57.5°	1732.3	1506.2	914.6	649.3	609.0	604.3	614.7	625.1	626.3	614.7	622.8
60°	1736.9	1479.7	850.0	606.6	574.4	561.7	565.1	562.8	560.5	555.9	562.8
62.5°	1713.8	1423.2	778.5	565.1	537.4	517.8	516.7	515.5	519.0	520.1	521.3
65°	1629.6	1317.1	693.1	522.5	498.2	471.7	470.6	484.4	489.0	482.1	484.4
67.5°	1467.0	1154.5	599.7	472.9	448.6	425.6	434.8	442.9	450.9	448.6	450.9
70°	1236.4	948.0	514.4	417.5	394.4	381.7	392.1	399.0	400.2	397.9	400.2
72.5°	972.2	740.4	434.8	361.0	340.2	334.5	347.1	352.9	363.3	367.9	369.1
75°	702.4	546.7	356.4	299.9	282.6	282.6	294.1	304.5	313.7	307.9	304.5
77.5°	392.1	326.4	256.0	206.4	209.9	226.0	230.7	242.2	251.4	250.3	248.0
80°	237.6	204.1	173.0	133.8	132.6	145.3	175.3	194.9	199.5	189.1	188.0
82.5°	123.4	107.3	92.3	75.0	83.0	96.9	101.5	122.3	134.9	130.3	136.1
85°	31.1	30.0	33.4	34.6	42.7	47.3	51.9	61.1	40.4	19.6	19.6
87.5°	9.2	9.2	11.5	11.5	15.0	18.5	17.3	17.3	9.2	1.2	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)