

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: P265615

Luminaire Tested: **ARCH-L-AF72-130-D-U-T4W-7027-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P265615  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29625)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-AF72-130-D-U-T4W-7027-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2700K, 575mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11134.9 lumens  
Efficiency: N/A  
Efficacy: 83.7 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium - Non-Cutoff  
BUG Rating: B1 - U0 - G3

Input Watts (W): 133  
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: 28.75 FT

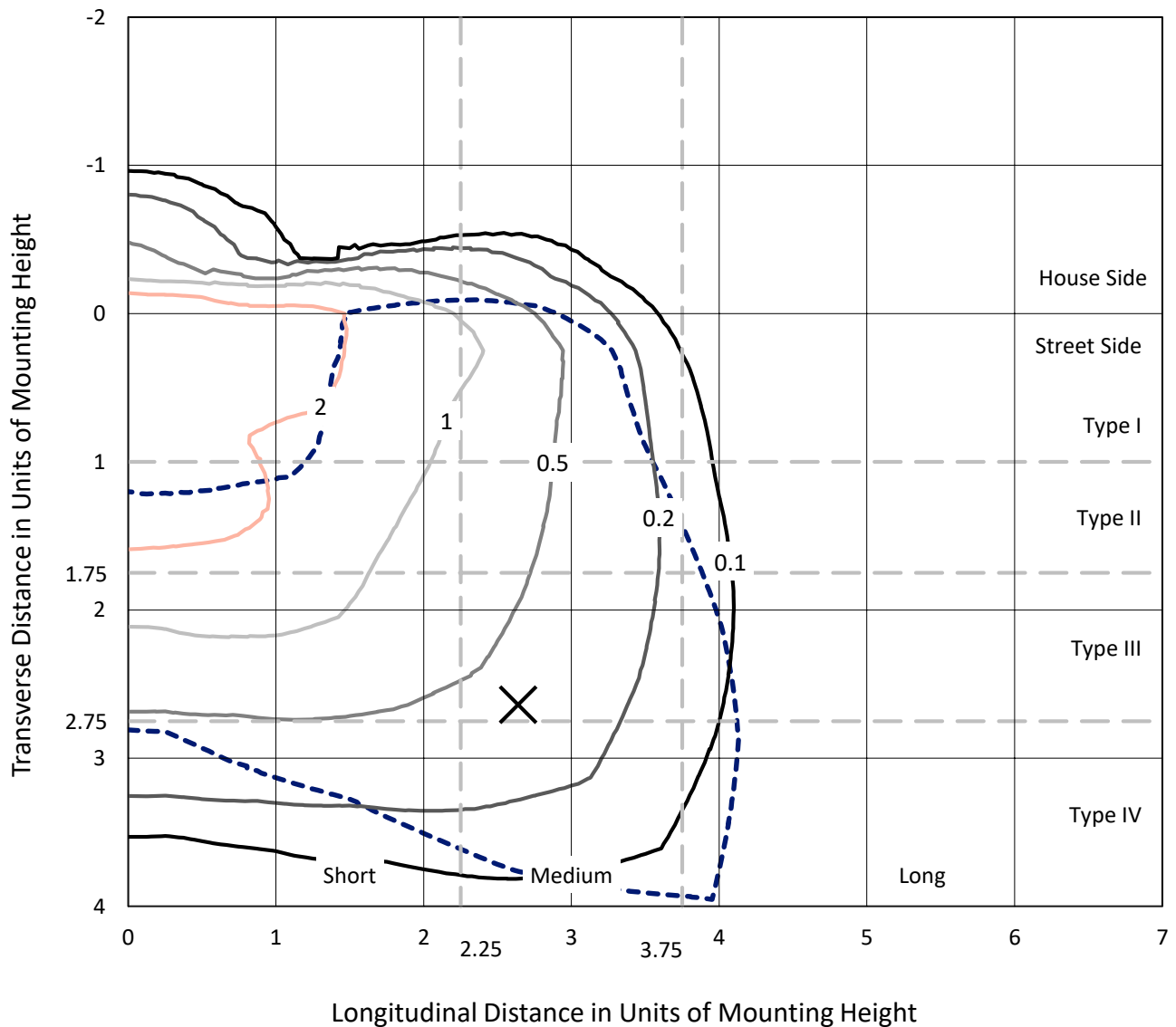


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

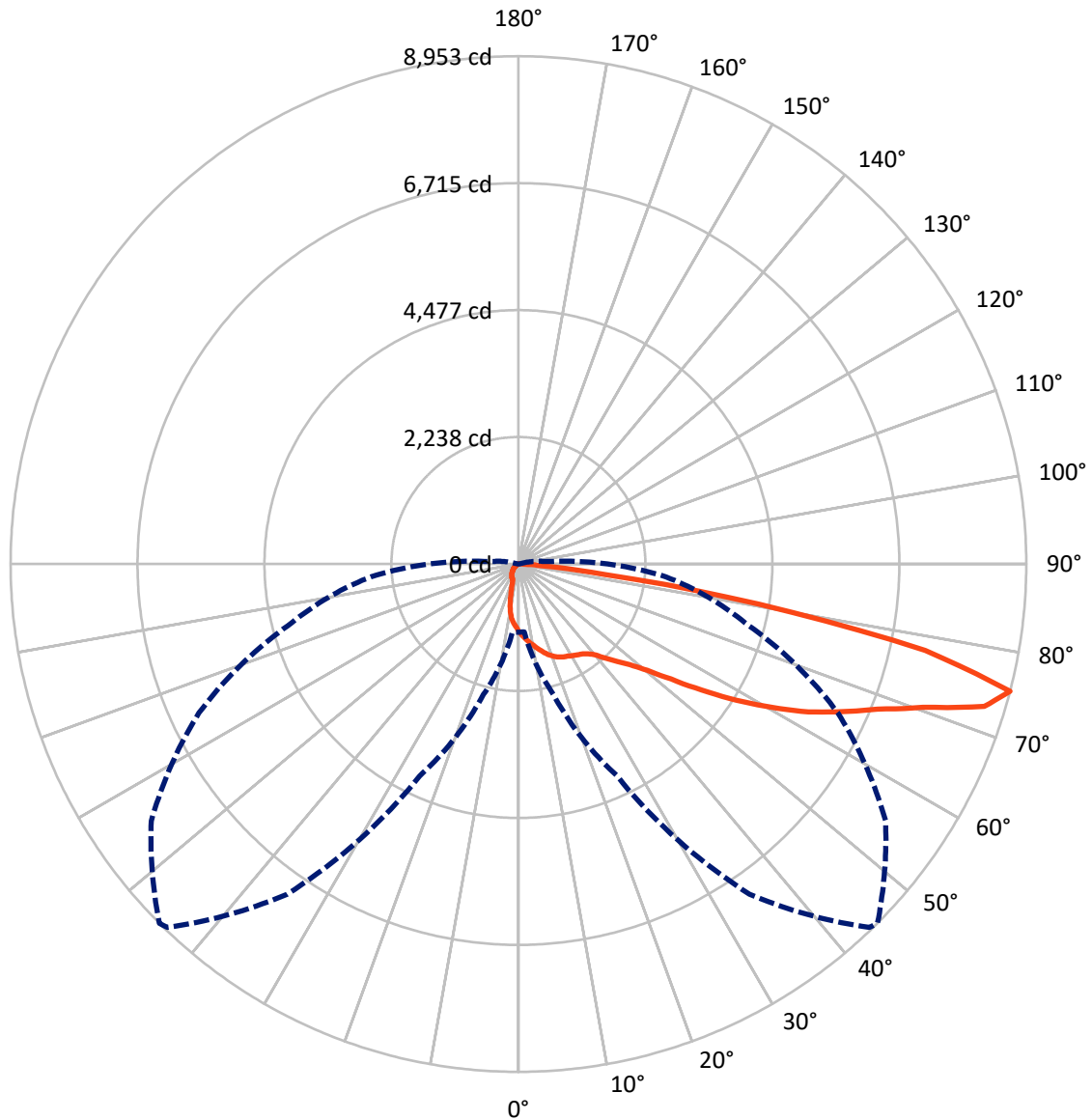


Based on 20 foot mounting height. Maximum calculated value = 4 fc  
 Type IV - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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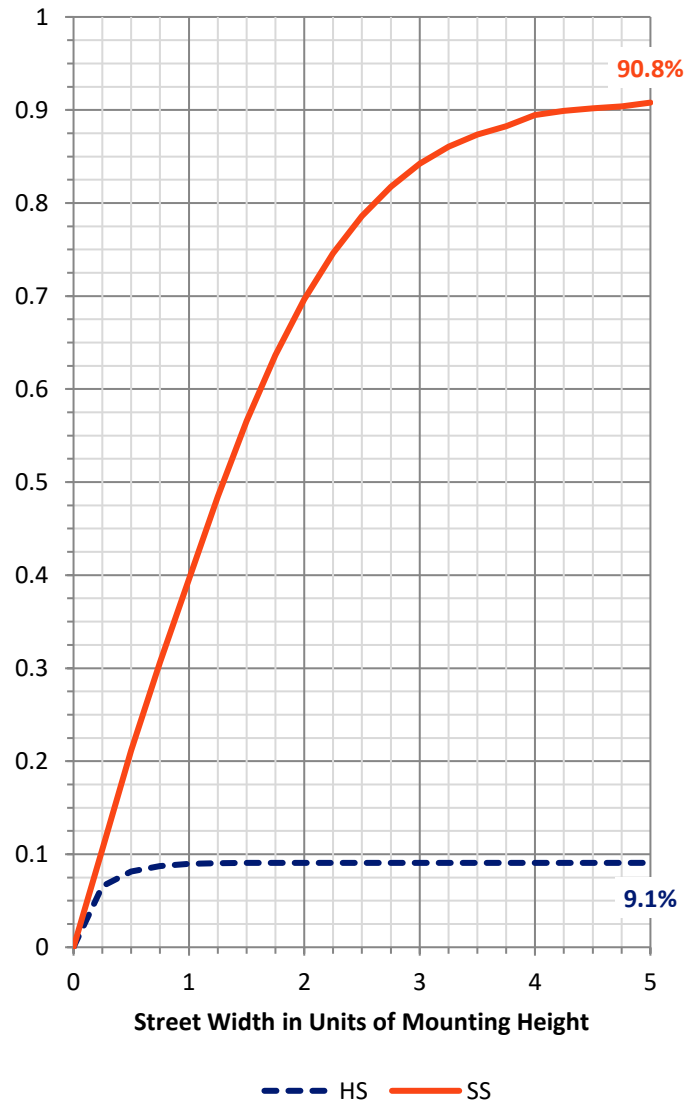
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1018.5	0.0	1018.5
	% Fixture	9.1	0.0	9.1
<b>Street Side</b>	Lumens	10116.4	0.0	10116.4
	% Fixture	90.9	0.0	90.9
<b>Total</b>	Lumens	11134.9	0.0	11134.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.4	1.0
10°-20°	318.4	2.9
20°-30°	527.4	4.7
30°-40°	763.2	6.9
40°-50°	1249.7	11.2
50°-60°	2226.8	20.0
60°-70°	3273.6	29.4
70°-80°	2469.6	22.2
80°-90°	193.8	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°	11134.9	100.0
0°-180°	11134.9	100.0



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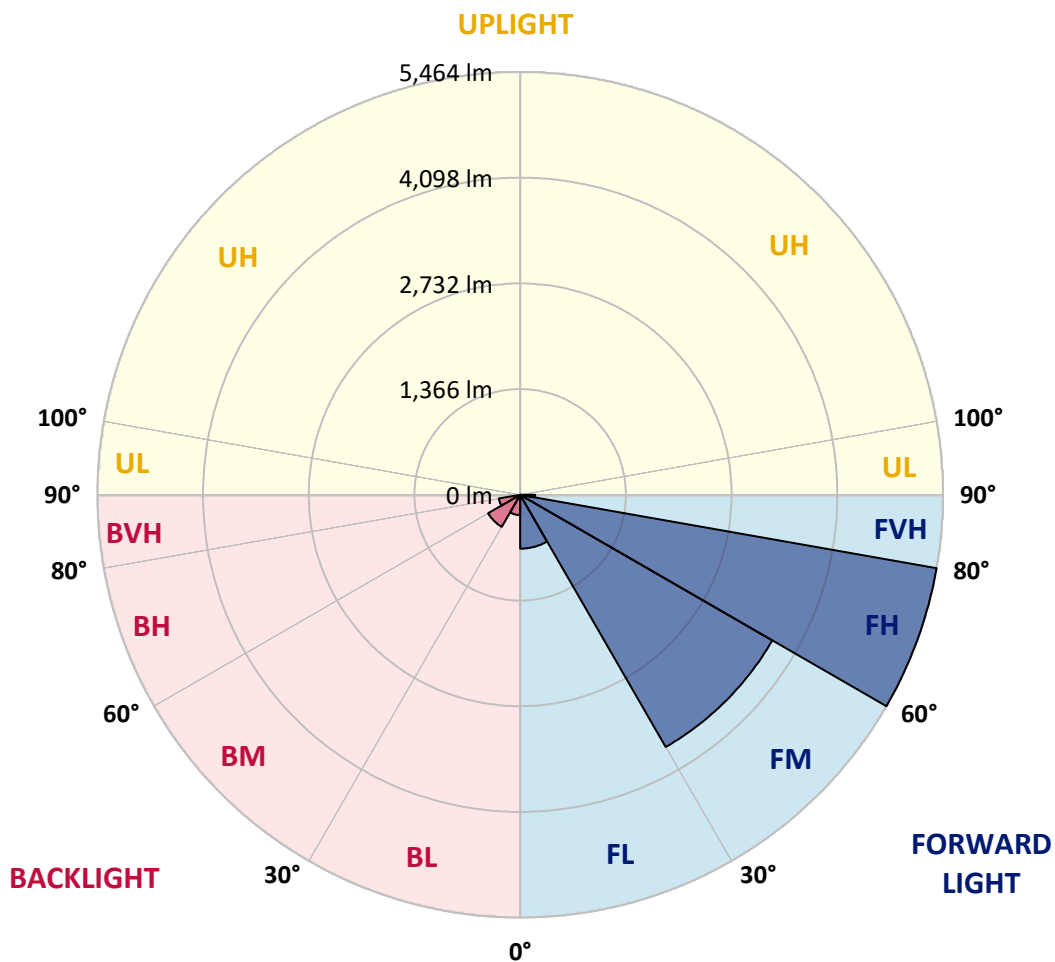
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	696.5	6.3			
FM	(30°-60°)	3762.4	33.8			
FH	(60°-80°)	5464.3	49.1			G3/7500
FVH	(80°-90°)	193.2	1.7			G2/225
BL	(0°-30°)	261.7	2.4	B1/500		
BM	(30°-60°)	477.3	4.3	B1/1000		
BH	(60°-80°)	279.0	2.5	B1/500		G1/500
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-G3**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1191.0	1191.0	1191.0	1191.0	1191.0	1191.0	1191.0	1191.0	1191.0	1191.0	1191.0
2.5°	1293.6	1293.6	1291.0	1288.3	1275.2	1262.1	1259.5	1251.6	1227.9	1212.1	1196.3
5°	1401.7	1404.4	1399.1	1385.9	1356.9	1328.0	1325.3	1304.2	1259.5	1227.9	1193.6
7.5°	1504.5	1509.7	1496.5	1473.0	1438.6	1396.4	1393.8	1354.4	1296.3	1251.6	1201.5
10°	1591.4	1591.4	1573.0	1543.9	1507.1	1462.4	1457.1	1412.2	1346.4	1291.0	1225.2
12.5°	1686.3	1683.7	1657.4	1617.8	1575.6	1533.4	1530.8	1475.5	1412.2	1341.1	1259.5
15°	1773.3	1768.0	1733.6	1696.8	1652.1	1607.2	1604.6	1549.2	1483.5	1399.1	1309.5
17.5°	1820.7	1818.0	1786.4	1749.4	1712.6	1678.4	1675.8	1617.8	1546.6	1459.7	1359.6
20°	1828.6	1831.3	1804.9	1773.3	1752.1	1733.6	1733.6	1681.0	1604.6	1512.3	1412.2
22.5°	1831.3	1839.1	1820.7	1778.6	1773.3	1775.9	1781.1	1738.9	1660.0	1573.0	1467.7
25°	1849.6	1860.2	1847.0	1797.0	1791.7	1810.2	1815.4	1797.0	1725.9	1638.9	1530.8
27.5°	1886.5	1897.1	1886.5	1823.3	1815.4	1833.8	1839.1	1849.6	1797.0	1702.1	1596.6
30°	1960.3	1962.9	1939.3	1860.2	1844.4	1868.0	1876.0	1904.9	1862.8	1762.7	1660.0
32.5°	2089.4	2063.0	1991.9	1886.5	1873.3	1899.6	1907.6	1939.3	1923.5	1820.7	1725.9
35°	2352.9	2215.8	2052.5	1923.5	1910.2	1936.6	1947.2	1991.9	1999.8	1902.3	1807.5
37.5°	2350.2	2226.4	2194.7	1994.5	1976.1	1994.5	2007.7	2063.0	2094.7	2010.3	1926.1
40°	2516.2	2463.5	2463.5	2129.0	2068.3	2094.7	2107.9	2163.2	2218.5	2152.7	2065.7
42.5°	3038.0	3003.8	2966.8	2387.2	2197.4	2271.3	2279.1	2313.3	2379.3	2358.2	2255.5
45°	3620.2	3588.5	3446.3	2824.5	2418.7	2431.9	2450.3	2505.7	2600.6	2640.1	2518.8
47.5°	4076.1	4044.4	3923.3	3351.4	2763.9	2648.1	2648.1	2756.0	2903.6	3003.8	2887.7
50°	4442.3	4405.4	4331.6	3912.7	3330.5	2958.8	2943.0	3069.6	3288.2	3443.7	3364.6
52.5°	4797.9	4690.1	4645.1	4492.3	3970.7	3409.4	3367.2	3456.9	3759.9	3952.3	3886.3
55°	5035.1	5019.3	4971.8	5024.6	4642.5	3957.6	3920.7	3939.1	4318.5	4447.6	4365.9
57.5°	5256.4	5253.8	5359.2	5604.3	5375.0	4584.6	4526.6	4497.6	4858.7	4827.0	4898.1
60°	5530.4	5483.1	5728.1	6078.6	6046.9	5195.8	5130.0	5072.0	5272.3	5182.7	5535.7
62.5°	5543.7	5530.4	6028.4	6531.8	6713.6	5817.8	5741.2	5533.1	5633.2	5530.4	6144.3
65°	5040.4	5106.2	6154.9	6771.6	7272.0	6363.1	6270.9	5946.8	5954.7	5886.1	6861.1
67.5°	4927.2	4961.3	5807.2	7029.6	7675.2	6913.7	6826.8	6423.7	6328.7	6334.0	7285.3
70°	4645.1	4697.9	5375.0	7011.2	7994.0	7648.9	7561.9	7124.5	6895.3	6639.7	6958.6
72.5°	3549.2	3638.7	4529.3	6147.0	7907.2	8610.7	8586.9	8012.5	7121.9	6096.9	5264.3
75°	1201.5	1198.9	2379.3	4128.8	7103.4	8905.6	8953.0	7901.9	6212.9	4205.1	2613.8
77.5°	258.3	260.9	490.0	1673.2	4718.9	7150.9	7332.8	5960.0	4007.6	1873.3	598.1
80°	126.5	129.0	202.8	442.7	1886.5	4010.3	4294.7	3064.3	1480.8	374.1	100.2
82.5°	63.2	65.8	105.5	234.5	698.3	1425.4	1522.9	1127.7	424.2	210.8	50.0
85°	23.7	23.7	52.7	139.6	318.8	334.6	411.1	326.8	255.6	171.2	13.1
87.5°	5.3	5.3	28.9	68.5	142.3	105.5	105.5	100.2	155.4	115.9	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°	1191.0	1191.0	1191.0	1191.0	1191.0	1191.0	1191.0	1191.0	1191.0	1191.0	1191.0
2.5°	1188.3	1177.8	1159.4	1140.8	1127.7	1111.9	1103.9	1096.1	1093.4	1090.8	1096.1
5°	1175.2	1159.4	1125.0	1096.1	1069.7	1048.6	1032.8	1017.1	1009.2	1003.9	1006.6
7.5°	1175.2	1151.4	1101.3	1056.5	1014.4	969.6	924.9	890.6	864.2	848.4	851.1
10°	1188.3	1156.7	1090.8	1030.3	951.1	856.4	758.8	685.0	635.0	605.9	605.9
12.5°	1217.4	1175.2	1093.4	998.6	864.2	698.3	550.8	461.1	424.2	403.1	405.8
15°	1256.8	1206.8	1106.6	956.4	743.0	519.1	384.7	326.8	326.8	332.1	334.6
17.5°	1301.6	1246.3	1117.1	893.3	587.6	371.4	303.0	297.8	305.7	318.8	318.8
20°	1346.4	1285.8	1122.4	793.1	440.0	295.2	287.2	287.2	292.5	305.7	308.3
22.5°	1401.7	1335.9	1117.1	669.2	329.4	279.4	276.7	276.7	276.7	292.5	292.5
25°	1459.7	1393.8	1096.1	537.5	279.4	268.8	266.1	263.6	263.6	276.7	279.4
27.5°	1525.5	1454.4	1046.0	411.1	263.6	258.3	255.6	250.3	250.3	260.9	260.9
30°	1591.4	1522.9	969.6	311.0	250.3	247.7	242.5	237.2	231.9	242.5	242.5
32.5°	1662.6	1594.0	869.5	247.7	231.9	231.9	229.2	221.3	216.0	221.3	223.9
35°	1757.4	1675.8	756.3	216.0	208.1	208.1	208.1	205.5	195.0	200.2	200.2
37.5°	1883.8	1789.1	624.4	200.2	189.7	184.4	184.4	184.4	176.5	179.1	179.1
40°	2044.6	1920.8	498.0	187.0	176.5	163.3	158.1	160.7	155.4	155.4	152.8
42.5°	2263.3	2063.0	374.1	176.5	165.9	147.5	137.0	134.3	129.0	126.5	126.5
45°	2576.9	2237.0	268.8	165.9	158.1	129.0	118.5	110.8	97.5	89.7	89.7
47.5°	2982.6	2434.5	200.2	155.4	150.1	113.2	100.2	84.4	65.8	60.5	60.5
50°	3478.0	2655.8	168.6	139.6	137.0	100.2	79.1	55.3	36.9	31.6	34.2
52.5°	3960.2	2864.1	150.1	123.8	121.2	87.0	58.0	28.9	15.8	15.8	15.8
55°	4365.9	3011.6	137.0	110.8	105.5	68.5	31.6	13.1	7.9	7.9	7.9
57.5°	4732.1	3095.9	123.8	97.5	84.4	47.4	13.1	5.3	5.3	2.6	2.6
60°	5066.8	3146.0	108.1	84.4	65.8	26.3	5.3	2.6	2.6	0.0	0.0
62.5°	5396.1	3182.9	92.3	68.5	50.0	10.5	2.6	2.6	0.0	0.0	0.0
65°	5646.4	3169.7	73.8	55.3	31.6	5.3	2.6	0.0	0.0	0.0	0.0
67.5°	5638.5	2990.5	55.3	42.2	15.8	2.6	0.0	0.0	0.0	0.0	0.0
70°	5043.1	2518.8	36.9	26.3	5.3	2.6	0.0	0.0	0.0	0.0	0.0
72.5°	3578.0	1615.2	23.7	15.8	2.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	1575.6	490.0	13.1	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	308.3	113.2	7.9	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	73.8	13.1	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	31.6	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.9	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.3	2.6	0.0	0.0	0.0	0.0	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)