

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: P572848

Luminaire Tested: **ARCH-S-PA2-120-750-U-T4W-HSS**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P572848  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-S-PA2-120-750-U-T4W-HSS  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11459 lumens  
Efficiency: N/A  
Efficacy: 93.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G3

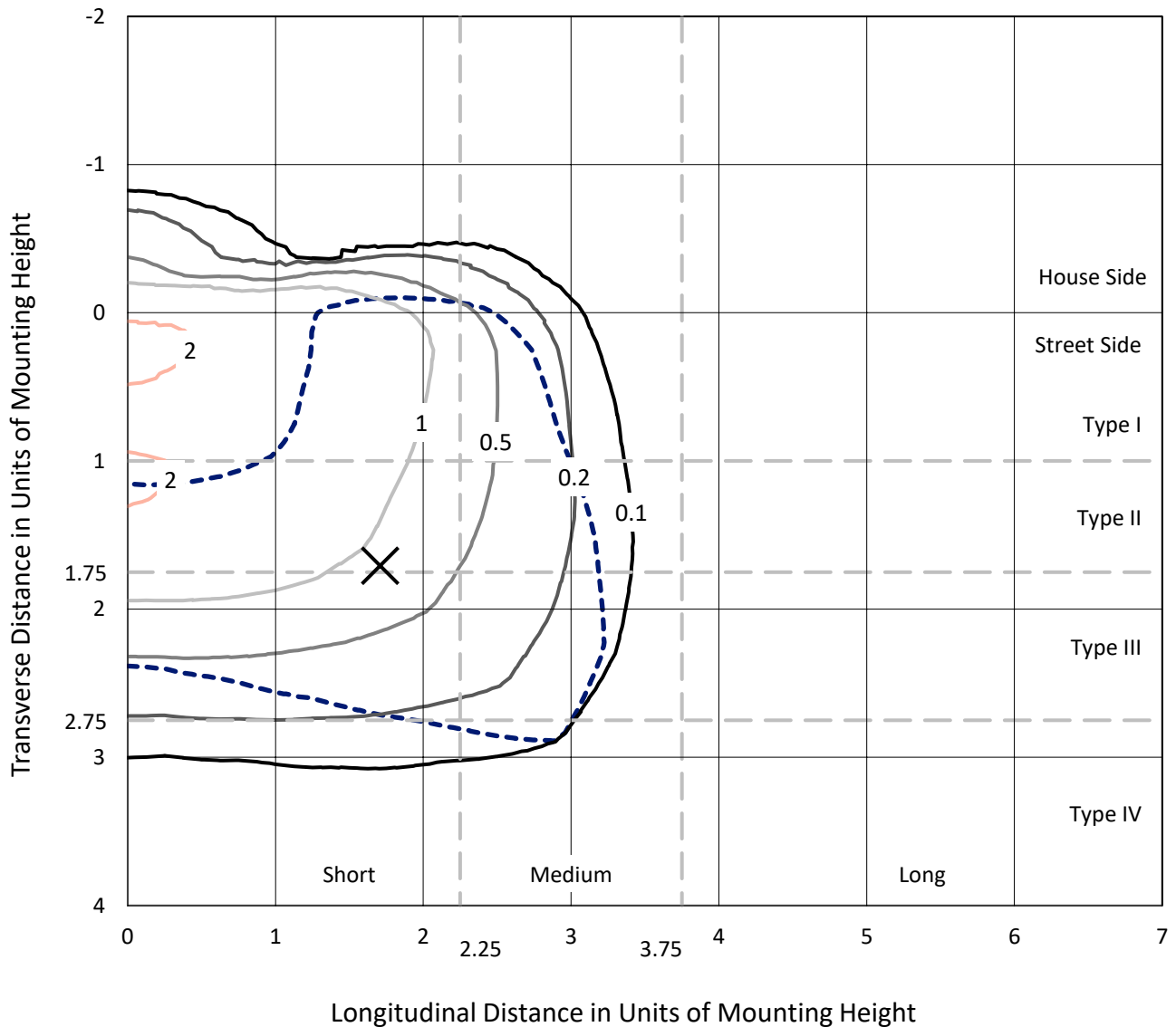
Input Watts (W): 122.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

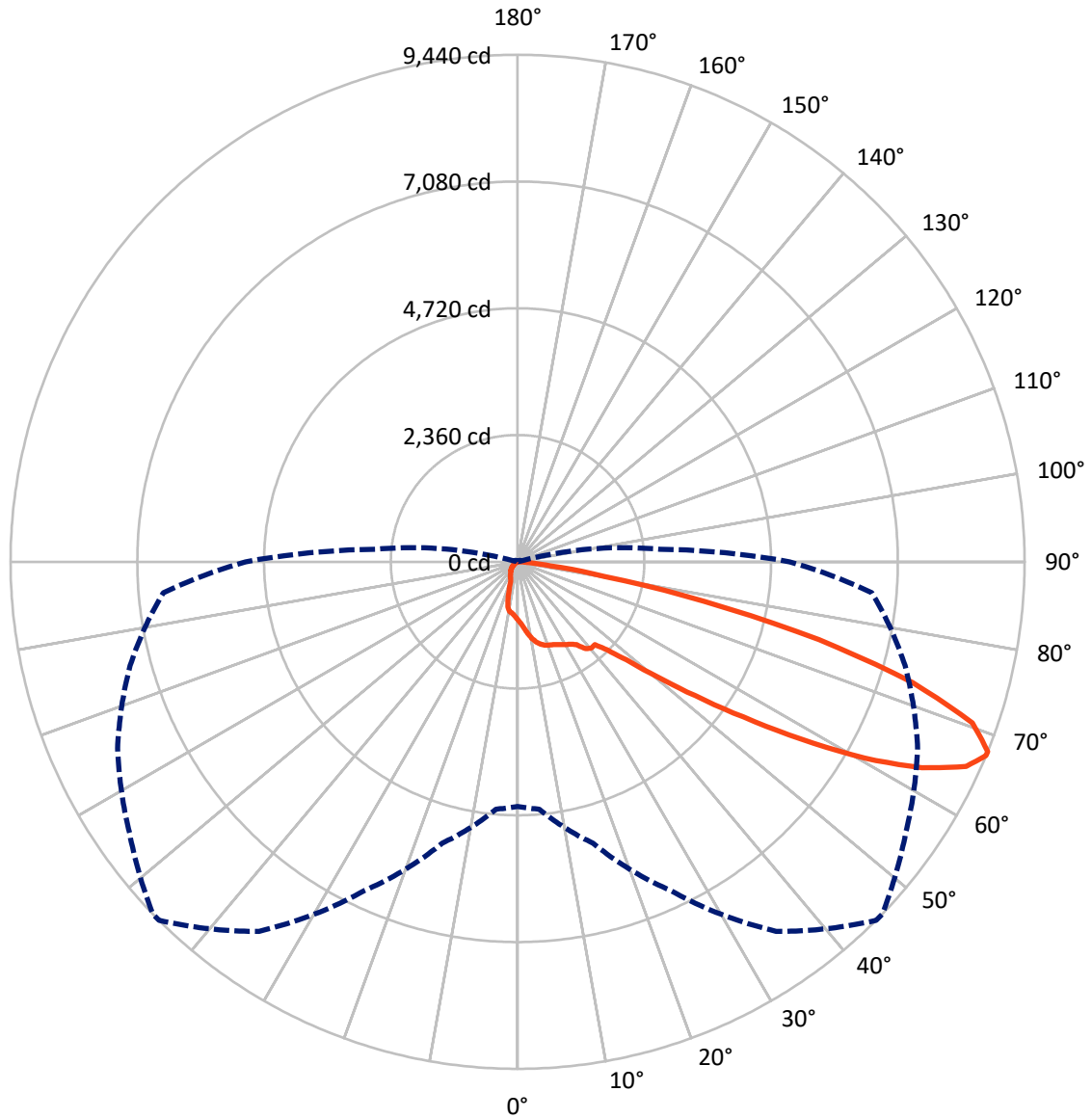
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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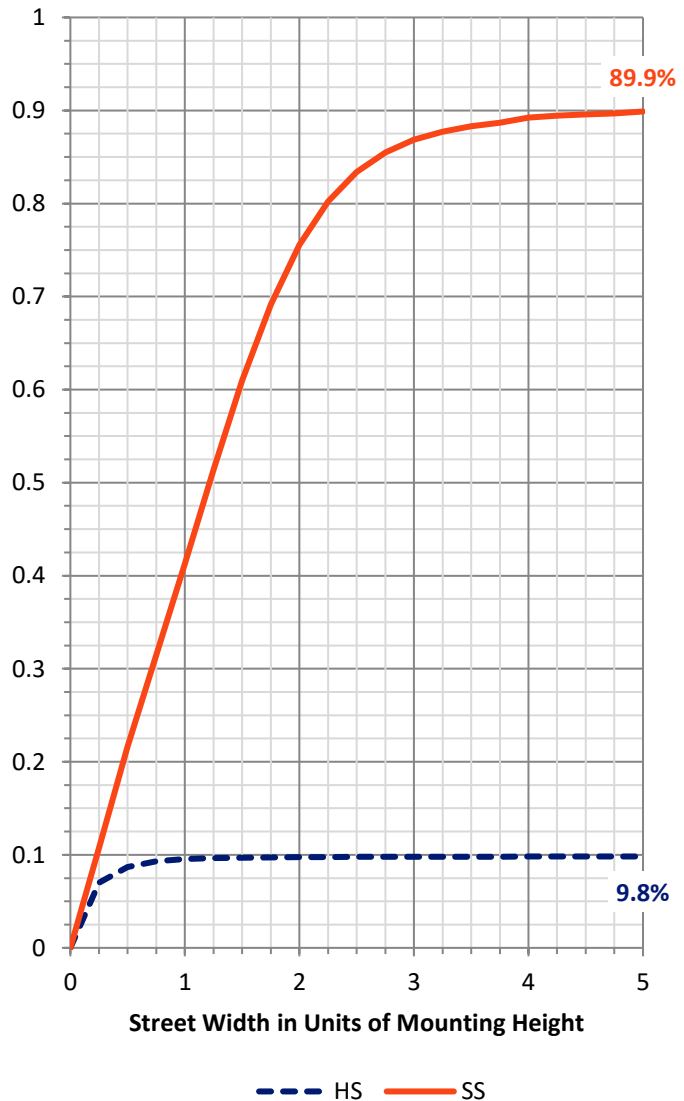
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1135.4	0.0	1135.4
	% Fixture	9.9	0.0	9.9
<b>Street Side</b>	Lumens	10323.6	0.0	10323.6
	% Fixture	90.1	0.0	90.1
<b>Total</b>	Lumens	11459.0	0.0	11459.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.8	0.9
10°-20°	328.8	2.9
20°-30°	526.0	4.6
30°-40°	757.0	6.6
40°-50°	1328.1	11.6
50°-60°	2798.3	24.4
60°-70°	3869.6	33.8
70°-80°	1620.0	14.1
80°-90°	122.5	1.1
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°	11459.0	100.0
0°-180°	11459.0	100.0

**Coefficient of Utilization**



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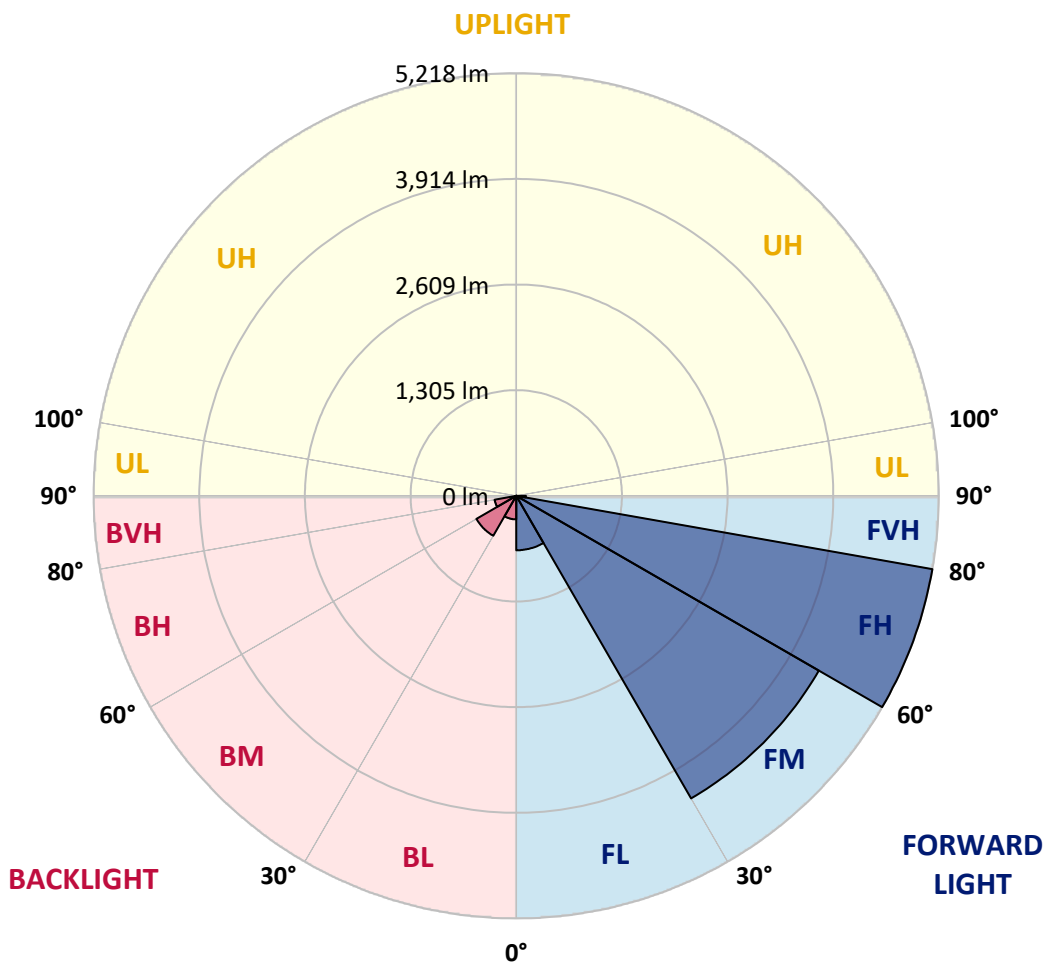
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	672.6	5.9			
FM (30°-60°)	4314.5	37.7			
FH (60°-80°)	5218.2	45.5			G3/7500
FVH (80°-90°)	118.4	1.0			G2/225
BL (0°-30°)	291.0	2.5	B1/500		
BM (30°-60°)	568.9	5.0	B1/1000		
BH (60°-80°)	271.4	2.4	B1/500		G1/500
BVH (80°-90°)	4.1	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1083.7	1083.7	1083.7	1083.7	1083.7	1083.7	1083.7	1083.7	1083.7	1083.7	1083.7
2.5°	1206.5	1185.3	1181.1	1176.8	1164.1	1147.2	1151.4	1138.7	1117.6	1104.9	1092.2
5°	1354.6	1333.5	1325.0	1299.6	1274.2	1236.1	1236.1	1202.2	1164.1	1130.3	1096.4
7.5°	1507.0	1490.1	1473.2	1435.1	1397.0	1346.2	1341.9	1291.1	1231.9	1181.1	1126.0
10°	1634.0	1621.3	1600.2	1553.6	1502.8	1447.8	1435.1	1388.5	1312.3	1244.6	1172.6
12.5°	1735.6	1722.9	1693.3	1646.7	1583.2	1528.2	1524.0	1464.7	1388.5	1316.5	1227.6
15°	1811.8	1790.7	1756.8	1706.0	1642.5	1591.7	1583.2	1532.4	1460.5	1380.0	1274.2
17.5°	1824.5	1811.8	1782.2	1727.2	1672.1	1629.8	1625.6	1587.5	1524.0	1439.3	1329.2
20°	1790.7	1786.4	1761.0	1718.7	1676.4	1655.2	1651.0	1625.6	1574.8	1498.6	1388.5
22.5°	1739.9	1735.6	1718.7	1697.5	1680.6	1676.4	1676.4	1667.9	1638.3	1566.3	1464.7
25°	1706.0	1701.8	1693.3	1680.6	1680.6	1706.0	1710.2	1718.7	1693.3	1638.3	1528.2
27.5°	1710.2	1701.8	1693.3	1680.6	1697.5	1744.1	1748.3	1769.5	1748.3	1697.5	1600.2
30°	1769.5	1756.8	1731.4	1701.8	1722.9	1786.4	1790.7	1816.1	1799.1	1773.7	1680.6
32.5°	1862.6	1854.2	1803.4	1752.6	1765.3	1828.8	1837.2	1883.8	1905.0	1866.9	1752.6
35°	1998.1	1968.5	1905.0	1854.2	1845.7	1892.3	1905.0	1981.2	2036.2	1943.1	1794.9
37.5°	2108.2	2082.8	1981.2	1900.7	1947.3	2053.1	2057.4	2150.5	2103.9	1951.5	1862.6
40°	2480.7	2476.5	2298.7	2044.7	1993.9	2112.4	2129.3	2146.3	2125.1	2048.9	2010.8
42.5°	3081.8	3031.0	2832.0	2442.6	2095.5	2108.2	2116.6	2205.5	2315.6	2281.7	2294.4
45°	3733.7	3691.4	3467.0	2976.0	2442.6	2336.8	2345.2	2489.2	2700.8	2743.1	2810.9
47.5°	4334.9	4267.1	4140.1	3644.8	3035.2	2726.2	2743.1	2916.7	3268.1	3361.2	3467.0
50°	4842.8	4796.3	4677.7	4351.8	3763.4	3340.0	3357.0	3500.9	3958.1	4106.3	4241.7
52.5°	5579.4	5515.9	5287.3	5134.9	4690.4	4140.1	4102.0	4254.4	4779.3	4876.7	5058.7
55°	6256.7	6125.5	5990.1	5926.6	5740.3	5096.8	5084.1	5113.8	5549.8	5600.6	5926.6
57.5°	6544.6	6519.2	6633.5	6845.2	6887.5	6222.9	6167.9	6053.6	6396.4	6392.2	6773.2
60°	6726.6	6726.6	7031.4	7556.4	7895.0	7425.1	7348.9	6993.3	7116.1	7120.3	7471.7
62.5°	6612.3	6642.0	7116.1	7907.7	8589.3	8445.3	8394.5	7797.7	7789.2	7691.8	7814.6
65°	5905.4	5956.2	6718.2	7713.0	8843.3	9181.9	9160.8	8483.4	8237.9	7882.3	7607.2
67°	4817.4	4910.6	5833.4	7010.3	8555.4	9435.9	9440.2	8779.8	8242.1	7564.8	6874.8
67.5°	4555.0	4622.7	5422.8	6756.3	8398.8	9440.2	9440.2	8817.9	8216.7	7467.5	6620.8
70°	2904.0	2920.9	3793.0	5228.1	7175.4	8983.0	9016.8	8530.0	7484.4	6045.1	4648.1
72.5°	1435.1	1397.0	2002.3	3365.4	5384.7	7687.6	7776.5	7285.4	5922.3	3949.6	2455.3
75°	563.0	601.1	872.1	1790.7	3373.9	5795.3	5863.1	5300.0	3809.9	2036.2	969.4
77.5°	249.8	249.8	372.5	804.3	1773.7	3555.9	3589.8	3234.2	2010.8	838.2	296.3
80°	135.5	143.9	194.7	351.4	893.2	1634.0	1782.2	1604.4	910.1	368.3	101.6
82.5°	67.7	72.0	118.5	199.0	448.7	618.1	651.9	681.6	419.1	228.6	42.3
85°	25.4	29.6	63.5	114.3	203.2	207.4	207.4	266.7	228.6	173.6	21.2
87.5°	4.2	8.5	29.6	46.6	80.4	72.0	63.5	84.7	127.0	110.1	12.7
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°	1083.7	1083.7	1083.7	1083.7	1083.7	1083.7	1083.7	1083.7	1083.7	1083.7	1083.7
2.5°	1083.7	1075.2	1058.3	1045.6	1037.1	1028.7	1020.2	1020.2	1016.0	1016.0	1020.2
5°	1083.7	1066.8	1032.9	1011.7	994.8	982.1	973.6	973.6	969.4	973.6	977.9
7.5°	1104.9	1079.5	1032.9	994.8	973.6	952.5	944.0	939.8	939.8	944.0	939.8
10°	1138.7	1104.9	1045.6	994.8	965.2	935.5	889.0	846.7	808.6	791.6	787.4
12.5°	1181.1	1138.7	1066.8	1007.5	960.9	859.4	732.4	651.9	601.1	575.7	567.3
15°	1227.6	1176.8	1092.2	1024.4	897.4	707.0	541.9	453.0	423.3	427.6	431.8
17.5°	1278.4	1223.4	1130.3	1016.0	770.5	524.9	397.9	376.8	389.5	402.2	402.2
20°	1329.2	1270.0	1168.4	952.5	605.4	389.5	355.6	359.8	372.5	385.2	385.2
22.5°	1397.0	1333.5	1206.5	842.4	448.7	338.7	338.7	347.1	355.6	368.3	368.3
25°	1468.9	1405.4	1231.9	707.0	334.4	317.5	321.7	330.2	338.7	351.4	351.4
27.5°	1545.1	1481.6	1227.6	546.1	292.1	292.1	296.3	309.0	317.5	330.2	330.2
30°	1629.8	1574.8	1181.1	397.9	270.9	266.7	266.7	279.4	292.1	300.6	304.8
32.5°	1701.8	1655.2	1100.6	300.6	254.0	245.5	241.3	245.5	258.2	266.7	270.9
35°	1761.0	1744.1	982.1	258.2	237.1	224.4	215.9	211.7	215.9	215.9	220.1
37.5°	1871.1	1875.3	842.4	241.3	224.4	207.4	190.5	177.8	169.3	165.1	160.9
40°	2078.5	2074.3	694.3	228.6	211.7	190.5	165.1	148.2	127.0	118.5	118.5
42.5°	2370.6	2307.1	529.2	215.9	199.0	173.6	139.7	114.3	93.1	88.9	88.9
45°	2895.5	2633.1	397.9	207.4	186.3	152.4	114.3	84.7	72.0	67.7	67.7
47.5°	3475.5	3009.8	317.5	194.7	173.6	135.5	88.9	67.7	55.0	55.0	55.0
50°	4114.7	3369.7	266.7	182.0	152.4	114.3	72.0	55.0	50.8	46.6	50.8
52.5°	4813.2	3653.3	232.8	165.1	131.2	93.1	59.3	50.8	42.3	42.3	42.3
55°	5439.7	3843.8	194.7	143.9	110.1	76.2	55.0	42.3	38.1	33.9	29.6
57.5°	6007.0	3945.4	156.6	122.8	84.7	63.5	46.6	33.9	29.6	21.2	21.2
60°	6299.1	3852.3	122.8	97.4	67.7	50.8	38.1	29.6	21.2	12.7	12.7
62.5°	6345.6	3611.0	97.4	76.2	59.3	42.3	29.6	21.2	12.7	8.5	8.5
65°	5939.3	3187.6	80.4	63.5	46.6	33.9	25.4	16.9	8.5	4.2	4.2
67°	5211.1	2743.1	72.0	55.0	42.3	29.6	21.2	12.7	8.5	4.2	0.0
67.5°	5067.2	2662.7	67.7	55.0	42.3	29.6	21.2	12.7	8.5	4.2	0.0
70°	3327.3	1841.5	63.5	50.8	38.1	25.4	16.9	12.7	4.2	0.0	0.0
72.5°	1816.1	927.1	59.3	46.6	33.9	25.4	16.9	8.5	4.2	0.0	0.0
75°	664.6	351.4	50.8	42.3	29.6	25.4	16.9	8.5	4.2	0.0	0.0
77.5°	224.4	122.8	46.6	42.3	33.9	25.4	16.9	8.5	4.2	0.0	0.0
80°	76.2	55.0	38.1	33.9	25.4	21.2	16.9	8.5	4.2	0.0	0.0
82.5°	29.6	16.9	12.7	12.7	12.7	16.9	16.9	12.7	4.2	0.0	0.0
85°	12.7	8.5	4.2	4.2	4.2	4.2	4.2	4.2	4.2	0.0	0.0
87.5°	12.7	8.5	4.2	4.2	4.2	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)