

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: P265629

Luminaire Tested: **ARCH-L-AF72-150-D-U-T2U-7027-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P265629  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-616-3)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-AF72-150-D-U-T2U-7027-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2700K, 665mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12030 lumens  
Efficiency: N/A  
Efficacy: 78.6 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 153  
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

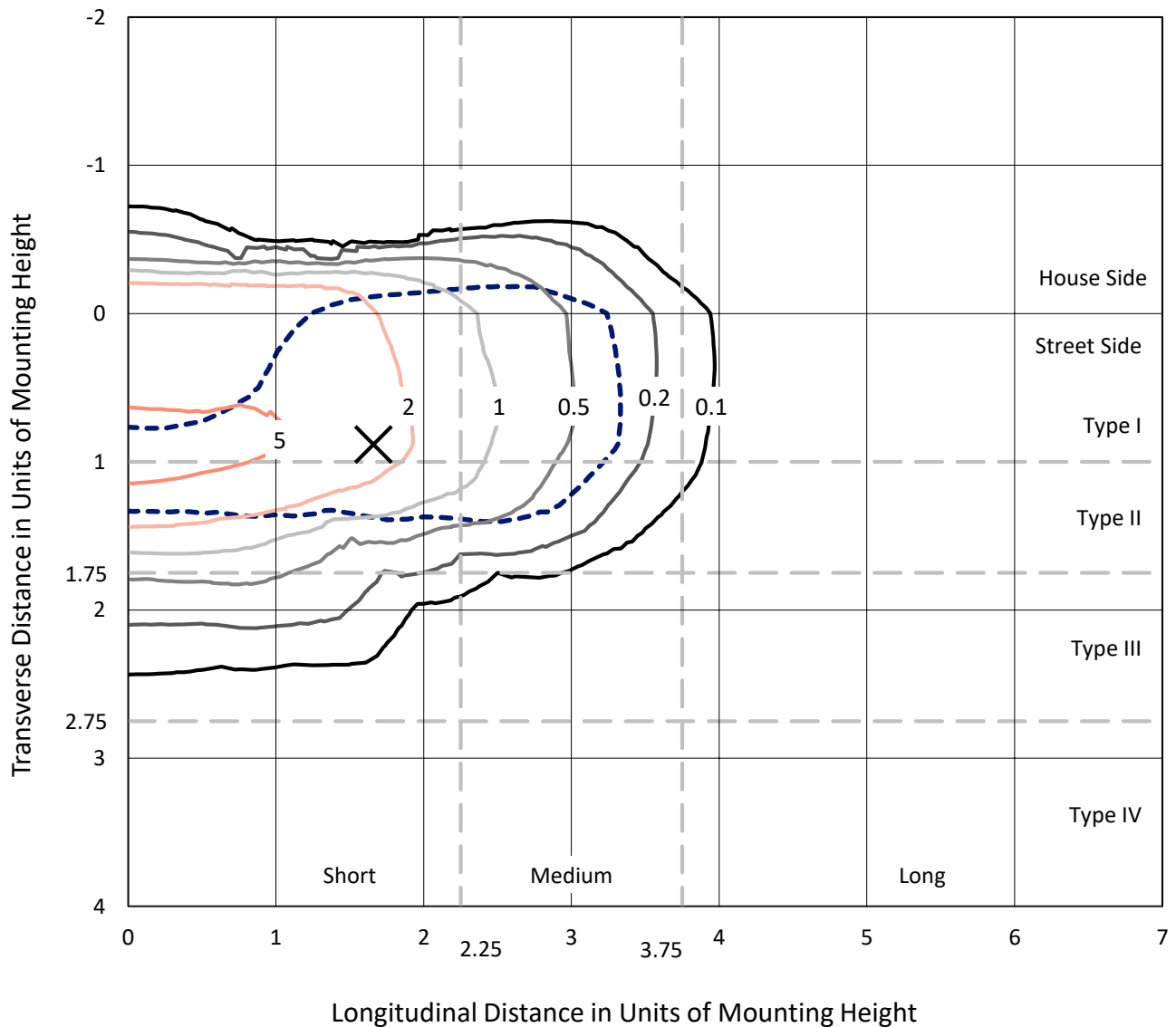


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

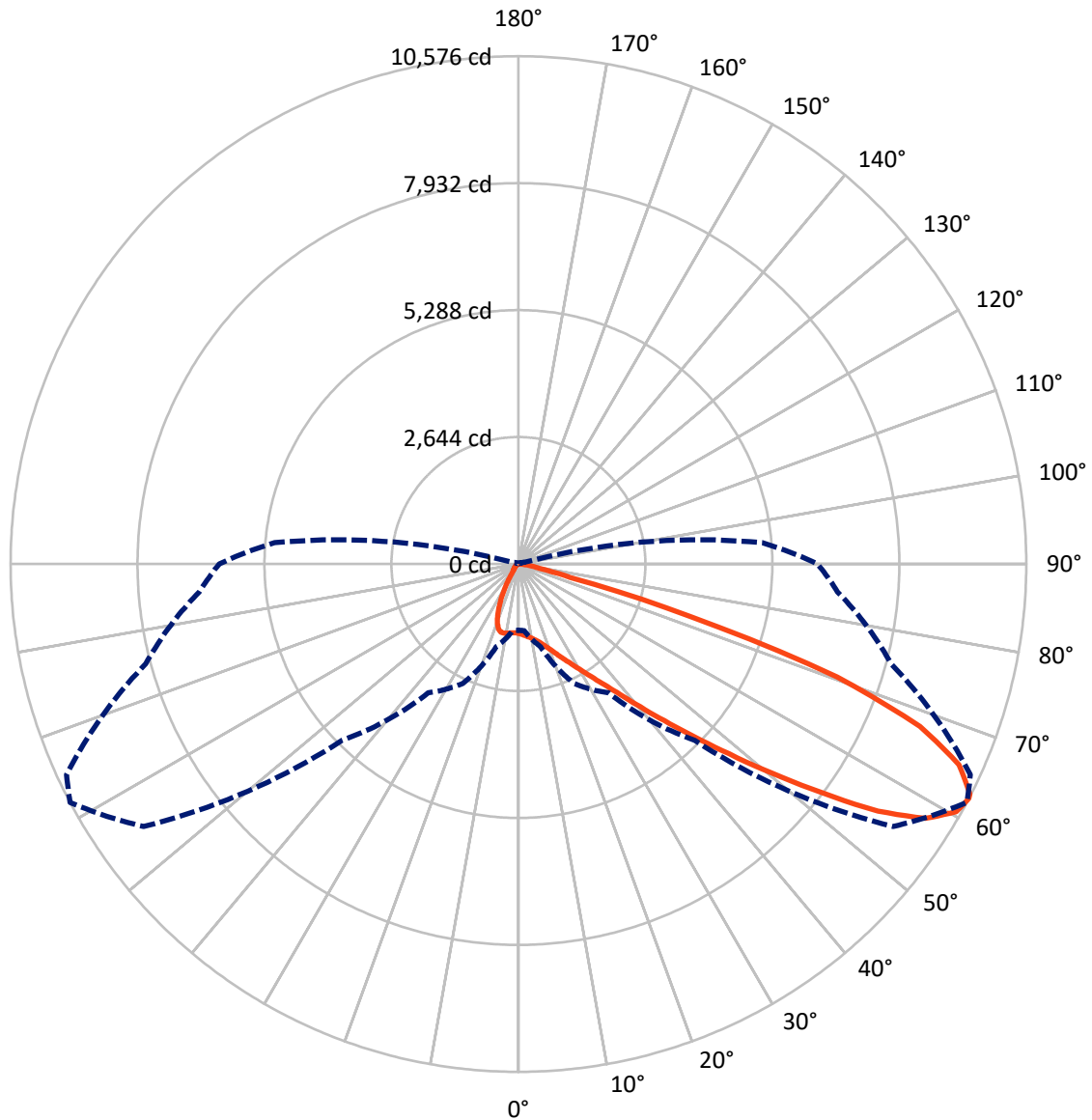


Based on 20 foot mounting height. Maximum calculated value = 6.9 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 62-Deg Lateral    - - - Horizontal Cone Through 62-Deg Vertical

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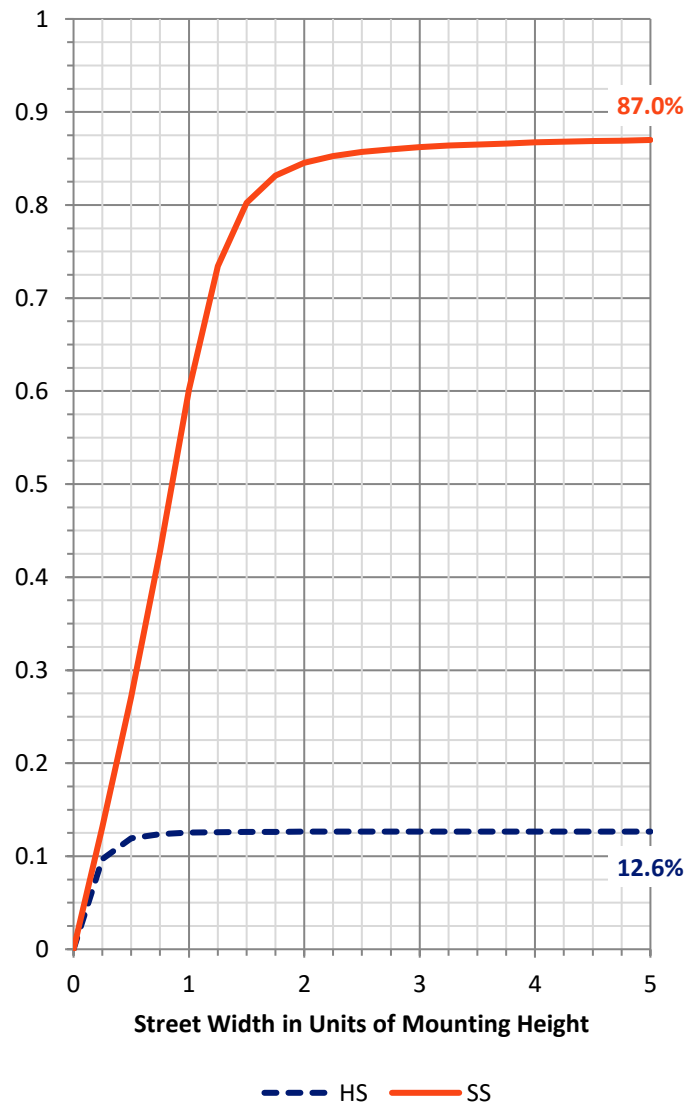
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1538.2	0.0	1538.2
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	10491.8	0.0	10491.8
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	12030.0	0.0	12030.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.5	1.2
10°-20°	389.5	3.2
20°-30°	654.1	5.4
30°-40°	1253.8	10.4
40°-50°	2560.9	21.3
50°-60°	3388.9	28.2
60°-70°	2632.6	21.9
70°-80°	950.2	7.9
80°-90°	60.6	0.5
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°	12030.0	100.0
0°-180°	12030.0	100.0

**Coefficient of Utilization**



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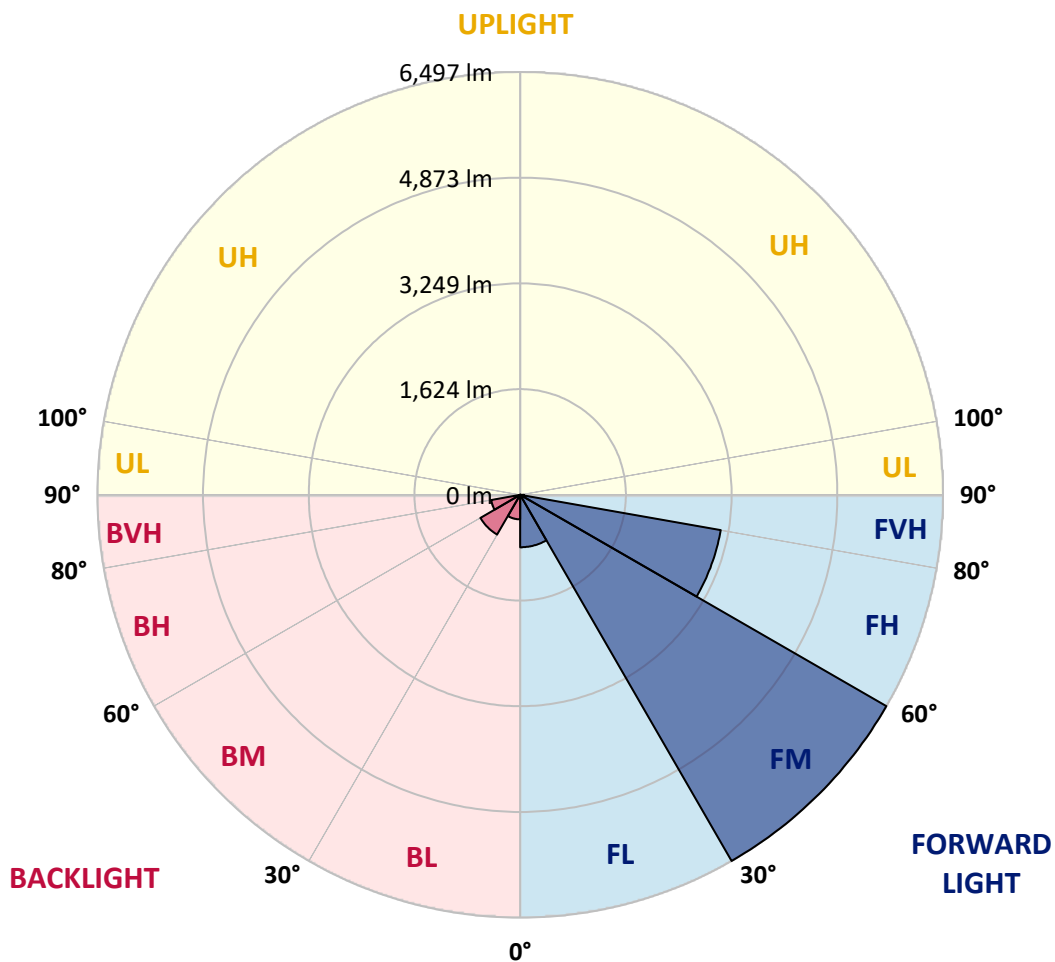
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	806.5	6.7			
FM	(30°-60°)	6497.5	54.0			
FH	(60°-80°)	3129.9	26.0			G2/5000
FVH	(80°-90°)	57.9	0.5			G1/100
BL	(0°-30°)	376.5	3.1	B1/500		
BM	(30°-60°)	706.1	5.9	B1/1000		
BH	(60°-80°)	452.9	3.8	B1/500		G1/500
BVH	(80°-90°)	2.6	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	62°	65°	75°	85°
0°	1449.1	1449.1	1449.1	1449.1	1449.1	1449.1	1449.1	1449.1	1449.1	1449.1	1449.1
2.5°	1487.7	1484.7	1481.8	1478.7	1478.7	1475.7	1472.9	1466.9	1461.1	1455.1	1452.1
5°	1514.3	1511.3	1508.3	1511.3	1508.3	1508.3	1505.4	1499.5	1493.5	1484.7	1475.7
7.5°	1534.9	1532.0	1529.1	1532.0	1534.9	1537.9	1540.9	1534.9	1532.0	1520.1	1511.3
10°	1561.6	1558.6	1555.7	1561.6	1561.6	1576.3	1579.3	1576.3	1573.4	1564.5	1549.8
12.5°	1600.1	1602.9	1602.9	1608.9	1614.9	1632.5	1638.5	1629.5	1629.5	1617.8	1600.1
15°	1670.9	1670.9	1670.9	1676.9	1679.9	1703.5	1709.5	1700.5	1706.5	1685.8	1668.1
17.5°	1738.9	1742.0	1747.9	1759.7	1759.7	1780.4	1792.3	1792.3	1804.1	1777.4	1753.9
20°	1807.0	1809.9	1818.9	1845.5	1845.5	1872.1	1892.8	1901.6	1913.5	1886.9	1845.5
22.5°	1881.1	1881.1	1895.8	1937.1	1928.3	1981.5	2020.0	2034.8	2046.6	2011.0	1946.0
25°	1993.3	1981.5	1993.3	2031.7	2025.9	2099.8	2170.8	2185.5	2200.4	2158.9	2061.4
27.5°	2206.2	2188.5	2147.2	2150.2	2150.2	2235.9	2336.4	2357.2	2366.0	2330.6	2209.2
30°	2632.2	2632.2	2478.3	2374.8	2306.8	2383.7	2525.8	2561.2	2573.0	2519.7	2360.0
32.5°	3374.6	3374.6	3090.6	2827.3	2570.1	2570.1	2732.7	2797.9	2809.5	2747.6	2561.2
35°	4320.8	4315.0	3889.1	3528.4	3025.5	2836.3	2975.2	3084.7	3120.2	3037.3	2821.4
37.5°	5326.4	5288.1	4829.6	4415.6	3726.4	3262.1	3303.5	3448.5	3481.0	3412.9	3158.6
40°	6142.7	6098.4	5728.8	5382.6	4631.4	3942.3	3776.7	3909.9	3948.3	3853.5	3560.8
42.5°	6882.1	6772.6	6518.3	6269.9	5672.4	5119.4	4406.6	4459.9	4501.2	4400.7	4013.3
45°	7417.3	7248.9	7118.7	7041.9	6725.3	6411.8	5222.9	5116.4	5131.3	5007.1	4507.2
47.5°	7432.1	7313.9	7325.7	7526.8	7657.0	7645.1	6284.7	5906.1	5849.9	5643.0	5033.7
50°	6722.3	6790.4	7006.3	7580.1	8283.9	8709.8	7547.5	6840.8	6672.2	6299.5	5557.2
52.5°	5539.4	5645.8	6051.1	7018.2	8375.6	9410.7	8857.6	7908.4	7606.7	6950.0	5959.4
55°	4338.6	4344.6	4770.4	5755.4	7763.4	9537.9	9904.6	9082.5	8621.2	7444.1	6225.6
57.5°	2984.1	3146.8	3688.0	4350.5	6382.3	8905.0	10298.0	9993.4	9399.0	7748.6	6411.8
60°	1954.9	1963.8	2593.8	3359.8	4344.6	7245.9	10058.4	10475.5	10028.9	7929.0	6539.0
62°	1378.2	1393.0	1783.3	2744.5	3274.0	5193.3	9529.0	10575.9	10383.8	8035.5	6672.2
62.5°	1277.6	1289.4	1617.8	2590.7	3075.7	4658.0	9339.8	10552.3	10437.0	8071.0	6719.4
65°	937.6	937.6	1058.8	1780.4	2253.6	2516.8	7914.2	10082.0	10366.0	8355.0	6896.8
67.5°	724.7	730.5	772.0	1097.2	1700.5	1526.1	5051.3	9023.4	9626.6	8775.0	6997.4
70°	624.1	621.1	650.6	727.5	1227.4	1014.5	2224.1	7041.9	8062.1	8668.5	6905.7
72.5°	461.4	464.3	532.3	638.9	854.6	659.5	1005.6	3738.2	5228.9	6784.4	5917.9
75°	295.7	298.6	375.6	502.8	615.2	431.7	579.6	1114.9	2141.2	3761.9	3620.0
77.5°	198.2	204.1	245.4	352.0	538.3	269.1	363.8	467.3	644.8	1410.7	1298.3
80°	133.0	133.0	156.8	236.7	340.1	224.8	195.2	310.5	334.2	437.7	218.8
82.5°	88.8	88.8	103.6	156.8	221.8	201.1	118.2	168.6	195.2	218.8	76.8
85°	53.2	53.2	71.0	97.6	144.9	112.4	76.8	94.6	100.6	139.0	41.4
87.5°	32.5	29.6	47.3	68.0	76.8	68.0	50.2	50.2	53.2	76.8	20.8
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°	1449.1	1449.1	1449.1	1449.1	1449.1	1449.1	1449.1	1449.1	1449.1	1449.1	1449.1
2.5°	1446.2	1443.2	1440.3	1434.4	1425.5	1419.6	1413.8	1407.7	1401.8	1401.8	1410.7
5°	1472.9	1464.0	1452.1	1440.3	1422.6	1410.7	1401.8	1389.9	1384.1	1384.1	1387.1
7.5°	1505.4	1496.4	1475.7	1455.1	1428.5	1407.7	1387.1	1360.5	1339.7	1330.8	1339.7
10°	1540.9	1529.1	1499.5	1466.9	1437.4	1384.1	1316.0	1233.3	1162.2	1129.8	1144.5
12.5°	1585.1	1570.4	1534.9	1490.6	1422.6	1292.4	1123.9	931.6	810.4	754.1	766.0
15°	1650.2	1629.5	1579.3	1511.3	1360.5	1079.6	804.4	582.6	470.3	422.9	428.9
17.5°	1727.3	1700.5	1632.5	1505.4	1200.8	777.8	479.2	340.1	292.8	281.0	281.0
20°	1809.9	1774.5	1685.8	1461.1	958.2	488.0	298.6	260.2	242.5	233.6	233.6
22.5°	1895.8	1848.4	1730.1	1357.5	683.3	304.6	245.4	218.8	198.2	189.4	189.4
25°	1999.3	1937.1	1774.5	1177.0	434.8	245.4	209.9	183.3	162.7	150.8	153.8
27.5°	2120.4	2040.7	1813.0	952.4	281.0	213.0	174.5	148.0	130.2	124.2	124.2
30°	2247.6	2153.1	1821.9	712.7	227.7	183.3	144.9	121.2	109.5	103.6	103.6
32.5°	2422.2	2298.0	1795.3	473.1	192.2	153.8	121.2	100.6	91.6	88.8	88.8
35°	2652.9	2487.2	1733.1	292.8	162.7	127.2	100.6	88.8	79.9	76.8	76.8
37.5°	2945.6	2750.5	1623.6	201.1	139.0	103.6	85.8	76.8	71.0	68.0	68.0
40°	3336.0	3069.9	1481.8	174.5	118.2	88.8	73.9	68.0	62.2	62.2	62.2
42.5°	3750.2	3457.2	1298.3	153.8	100.6	76.8	65.0	59.2	56.2	53.2	53.2
45°	4202.6	3853.5	1070.6	136.1	85.8	68.0	59.2	50.2	47.3	47.3	47.3
47.5°	4652.1	4261.7	822.2	118.2	73.9	59.2	50.2	44.3	41.4	38.4	38.4
50°	5113.5	4631.4	603.3	103.6	65.0	53.2	44.3	38.4	32.5	29.6	29.6
52.5°	5447.7	4853.3	440.7	88.8	56.2	44.3	35.6	29.6	23.6	20.8	20.8
55°	5693.2	4989.2	322.3	73.9	50.2	38.4	29.6	23.6	17.7	17.7	14.8
57.5°	5885.4	5054.4	242.5	65.0	44.3	32.5	23.6	17.7	14.8	11.9	11.9
60°	6033.2	5057.3	180.4	53.2	38.4	26.6	17.7	11.9	8.9	8.9	8.9
62°	6228.5	5095.7	148.0	44.3	35.6	23.6	14.8	8.9	5.8	3.0	3.0
62.5°	6284.7	5110.5	141.9	44.3	32.5	20.8	11.9	8.9	5.8	3.0	3.0
65°	6545.0	5137.1	109.5	35.6	26.6	17.7	8.9	5.8	0.0	0.0	0.0
67.5°	6781.6	5095.7	79.9	26.6	20.8	11.9	8.9	3.0	0.0	0.0	0.0
70°	6757.9	4811.9	56.2	17.7	14.8	8.9	5.8	0.0	0.0	0.0	0.0
72.5°	5569.0	3602.3	38.4	14.8	8.9	5.8	3.0	0.0	0.0	0.0	0.0
75°	3362.6	1576.3	26.6	8.9	8.9	5.8	3.0	0.0	0.0	0.0	0.0
77.5°	1103.2	570.9	17.7	5.8	5.8	3.0	3.0	0.0	0.0	0.0	0.0
80°	180.4	94.6	8.9	5.8	5.8	3.0	3.0	0.0	0.0	0.0	0.0
82.5°	56.2	23.6	5.8	5.8	3.0	3.0	0.0	0.0	0.0	0.0	0.0
85°	20.8	8.9	5.8	5.8	3.0	3.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.9	5.8	5.8	5.8	3.0	3.0	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)