

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: P265609

Luminaire Tested: **ARCH-L-AF72-130-D-U-T2R-7027-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P265609  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29623)  
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-T2R-7027-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2700K, 575mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12326.4 lumens  
Efficiency: N/A  
Efficacy: 92.7 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B1 - U0 - G2

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

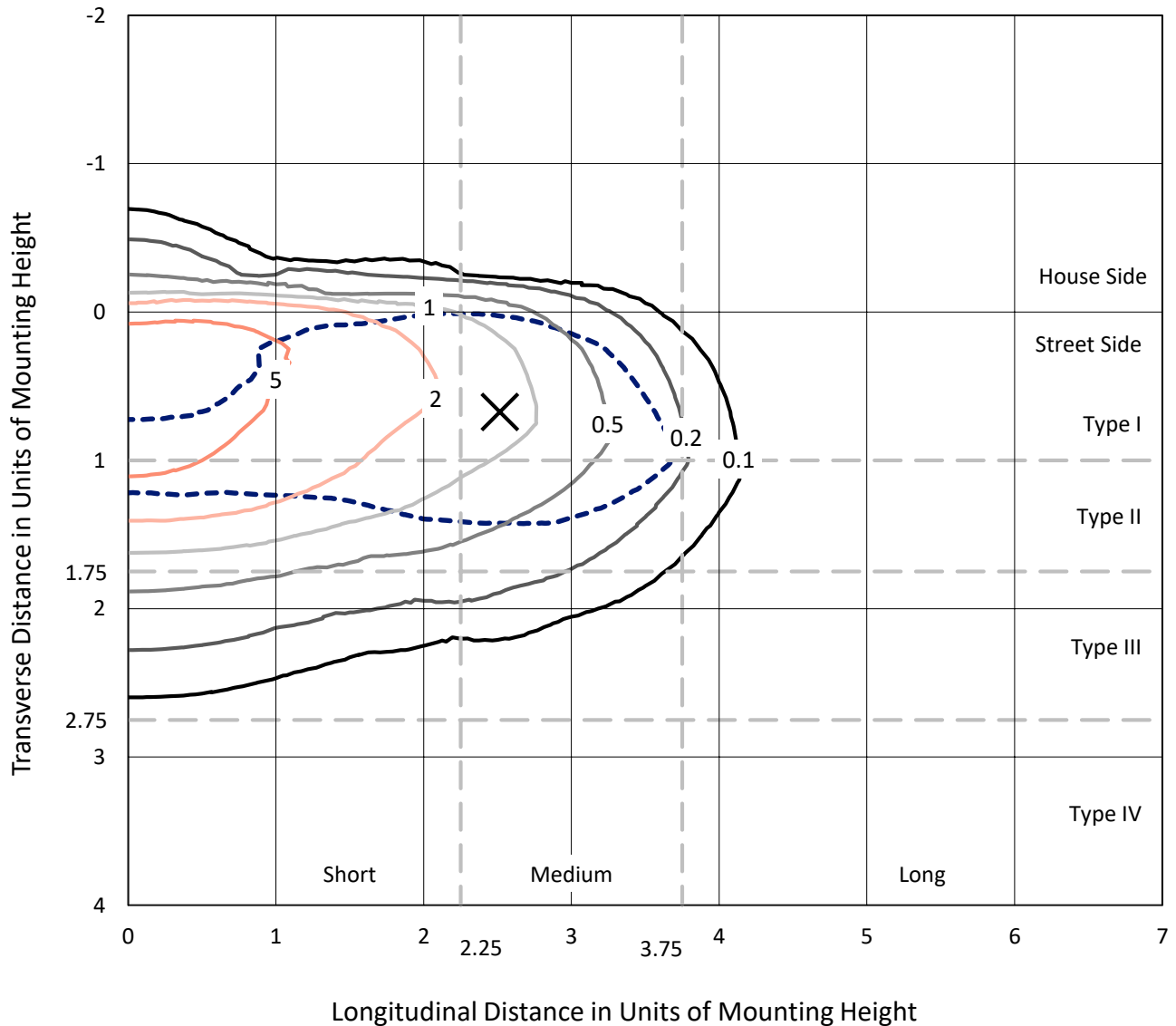


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

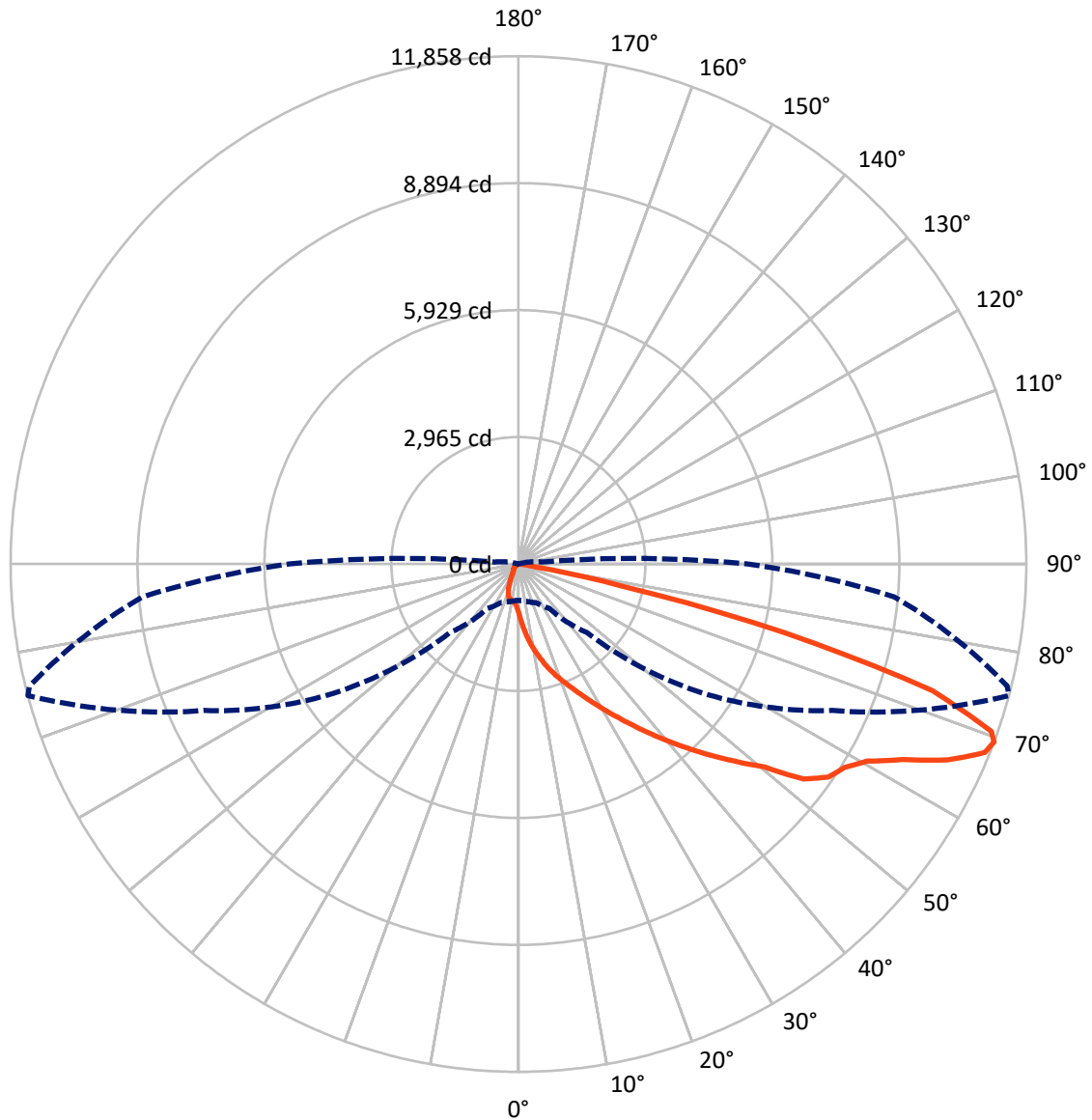


Based on 20 foot mounting height. Maximum calculated value = 7.9 fc  
 Type II - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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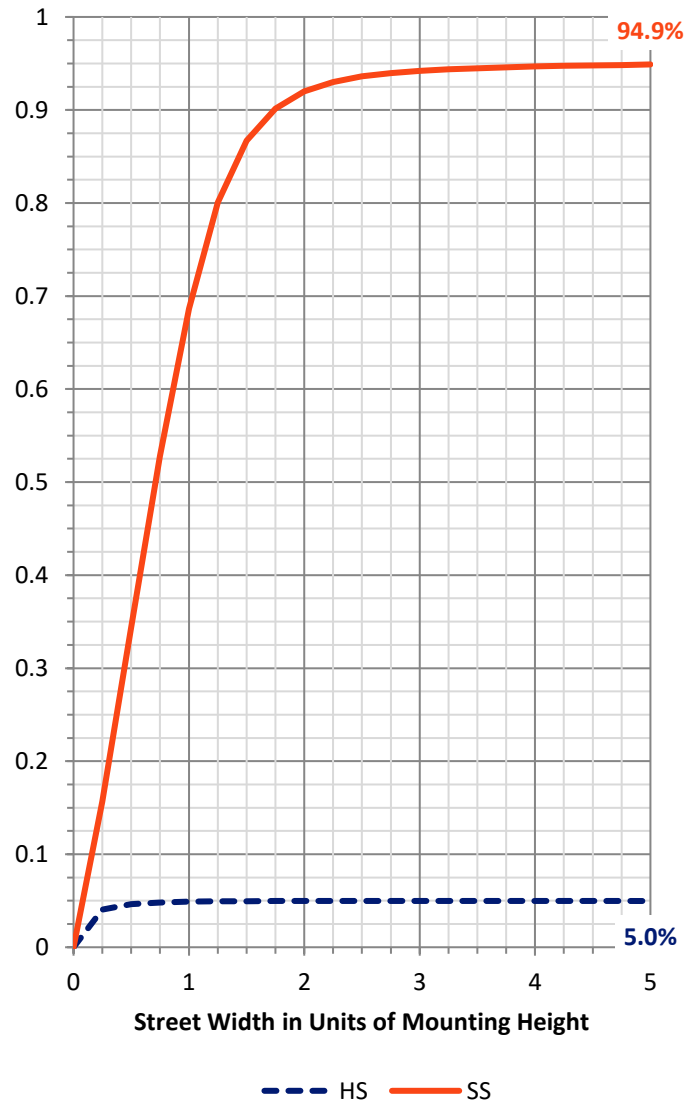
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	615.0	0.0	615.0
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	11711.4	0.0	11711.4
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	12326.4	0.0	12326.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.7	1.1
10°-20°	478.1	3.9
20°-30°	912.8	7.4
30°-40°	1637.4	13.3
40°-50°	2508.6	20.4
50°-60°	2915.6	23.7
60°-70°	2581.8	20.9
70°-80°	1113.6	9.0
80°-90°	44.6	0.4
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°	12326.4	100.0
0°-180°	12326.4	100.0

**Coefficient of Utilization**



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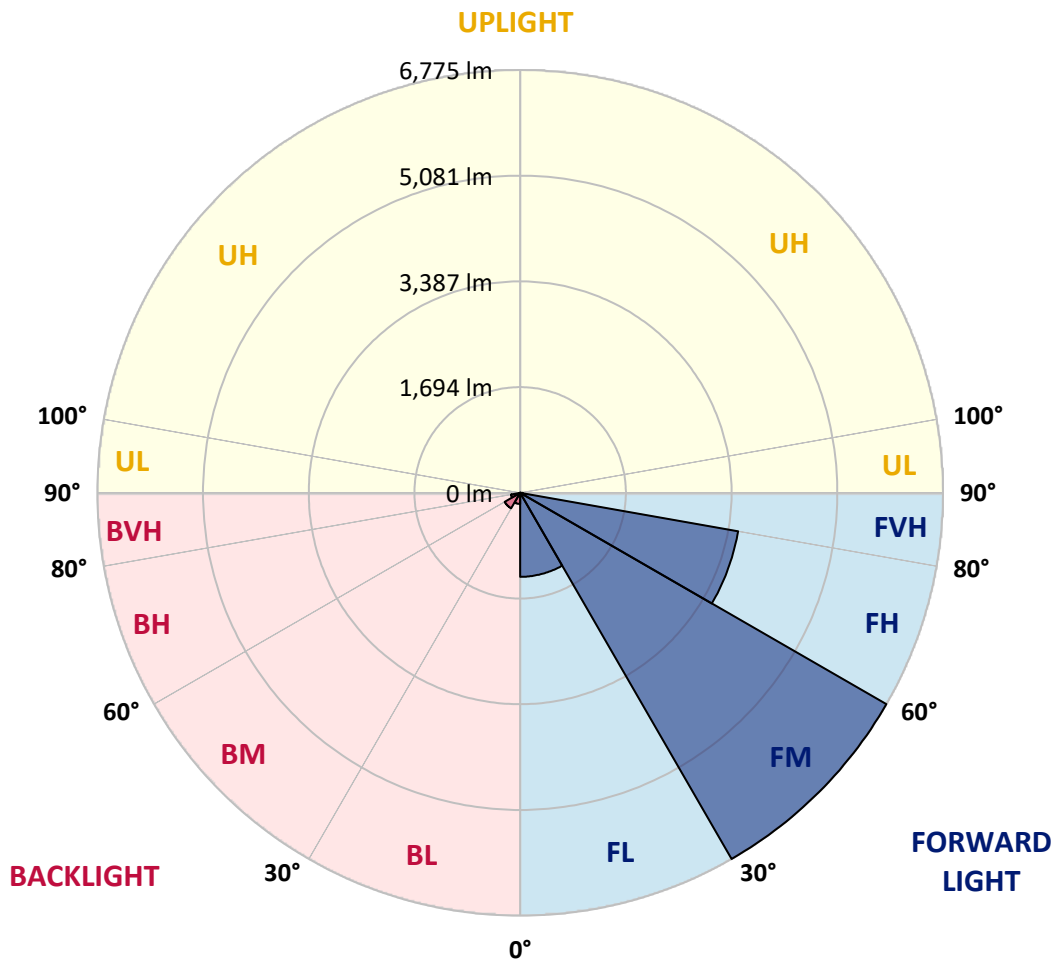
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1346.1	10.9			
FM (30°-60°)	6774.9	55.0			
FH (60°-80°)	3546.5	28.8			G2/5000
FVH (80°-90°)	44.0	0.4			G1/100
BL (0°-30°)	178.6	1.4	B1/500		
BM (30°-60°)	286.7	2.3	B1/1000		
BH (60°-80°)	149.0	1.2	B1/500		G1/500
BVH (80°-90°)	0.6	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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1147.0	1147.0	1147.0	1147.0	1147.0	1147.0	1147.0	1147.0	1147.0	1147.0	1147.0
2.5°	1889.4	1870.8	1852.1	1830.8	1783.0	1700.5	1596.6	1485.0	1346.6	1322.7	1210.8
5°	2293.9	2285.9	2267.3	2238.0	2184.9	2094.4	1977.3	1812.3	1580.7	1540.9	1304.0
7.5°	2578.7	2573.4	2557.4	2522.8	2474.9	2384.5	2262.0	2083.7	1814.9	1769.8	1421.1
10°	2834.2	2831.5	2818.3	2786.3	2738.4	2639.8	2509.4	2323.1	2038.4	1987.9	1556.9
12.5°	3065.6	3068.3	3063.0	3047.1	3012.5	2919.3	2770.4	2568.1	2253.9	2198.2	1719.1
15°	3201.4	3209.4	3230.7	3262.6	3273.2	3198.8	3044.4	2820.9	2474.9	2427.0	1905.5
17.5°	3156.1	3164.1	3230.7	3339.8	3443.6	3454.3	3315.9	3060.3	2693.1	2645.1	2089.0
20°	3047.1	3057.7	3126.9	3275.8	3478.1	3619.2	3563.3	3321.2	2900.6	2842.1	2264.6
22.5°	3169.5	3169.5	3190.8	3281.1	3464.9	3685.7	3760.2	3581.9	3113.5	3041.8	2440.2
25°	3589.9	3581.9	3536.6	3499.4	3557.9	3754.9	3909.2	3848.1	3363.8	3281.1	2626.6
27.5°	4122.1	4159.4	4074.3	3938.6	3805.5	3890.6	4042.4	4111.5	3640.6	3555.3	2818.3
30°	4718.3	4734.2	4633.1	4452.2	4218.0	4135.4	4199.3	4337.7	3941.3	3848.1	3017.8
32.5°	5255.9	5242.5	5157.3	4968.4	4678.4	4500.1	4401.5	4518.7	4268.6	4162.0	3222.7
35°	5732.2	5742.9	5639.0	5420.8	5136.1	4947.1	4713.0	4723.6	4635.8	4513.4	3459.6
37.5°	6160.7	6142.0	6043.5	5825.2	5567.2	5362.3	5114.8	4936.5	5037.6	4909.9	3725.6
40°	6509.3	6490.7	6386.8	6174.0	5931.8	5764.2	5569.9	5221.3	5460.7	5314.5	4010.5
42.5°	6786.1	6764.7	6676.9	6472.0	6237.8	6088.8	5995.6	5572.5	5913.2	5766.8	4329.7
45°	6921.7	6903.1	6849.8	6695.5	6490.7	6360.2	6405.5	5977.1	6397.5	6275.1	4681.0
47.5°	6762.0	6754.0	6815.4	6788.8	6671.6	6602.5	6759.3	6418.7	6905.8	6786.1	5085.6
50°	6277.7	6291.0	6469.4	6690.1	6746.1	6828.6	7049.4	6884.5	7451.4	7323.6	5551.3
52.5°	5082.9	5173.2	5710.9	6243.1	6655.6	6967.0	7390.0	7549.7	8340.1	8215.1	6277.7
55°	3794.8	3832.1	4417.5	5327.7	6291.0	6956.4	7642.9	7940.9	8779.2	8651.4	6469.4
57.5°	3009.9	3023.1	3313.2	4241.9	5540.6	6716.8	7776.0	8082.1	8970.8	8864.4	6754.0
60°	2363.1	2379.2	2589.4	3228.0	4484.1	6070.1	7584.4	8204.4	9346.1	9260.8	7251.7
62.5°	1838.9	1854.8	1982.6	2357.8	3363.8	5074.9	7198.5	8401.4	10059.3	10019.3	8066.1
65°	1423.8	1429.1	1516.9	1692.4	2376.5	3997.1	6727.4	8585.0	11022.7	10988.0	8726.0
67.5°	1051.1	1059.1	1120.4	1229.5	1604.7	2871.4	5955.8	8443.9	11749.1	11648.1	8965.5
69°	848.9	857.0	910.2	997.9	1266.7	2262.0	5250.6	8095.3	11858.3	11762.4	8813.8
70°	726.5	731.8	785.1	859.6	1080.4	1921.4	4691.7	7794.7	11714.5	11621.5	8468.0
72.5°	465.7	492.4	545.5	593.4	715.9	1272.0	3166.9	6464.1	10107.2	9947.6	6631.6
75°	258.2	266.1	361.8	420.4	476.3	827.6	1761.7	4031.8	6429.3	6317.6	3547.3
77.5°	212.9	218.2	255.5	319.3	319.3	463.0	665.3	1588.7	2445.6	2206.1	960.6
80°	148.9	154.4	194.3	210.3	228.9	260.8	215.6	348.6	377.8	335.2	143.6
82.5°	103.8	109.1	133.0	173.0	183.7	122.3	79.8	103.8	109.1	109.1	55.9
85°	18.7	26.6	98.5	143.6	109.1	37.3	45.3	37.3	34.6	37.3	13.4
87.5°	0.0	0.0	61.3	69.2	58.6	16.0	18.7	13.4	7.9	10.6	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°	1147.0	1147.0	1147.0	1147.0	1147.0	1147.0	1147.0	1147.0	1147.0	1147.0	1147.0
2.5°	1155.0	1099.0	1003.2	934.1	875.5	830.4	811.7	782.3	761.1	771.7	758.3
5°	1186.9	1088.4	934.1	835.7	766.4	707.9	660.0	622.7	593.4	588.1	582.8
7.5°	1237.4	1096.4	894.2	771.7	668.0	577.5	503.1	447.0	404.4	404.4	388.5
10°	1306.7	1117.8	870.2	707.9	553.5	431.0	356.5	303.4	282.1	279.5	274.2
12.5°	1402.4	1157.6	851.6	625.4	431.0	314.0	268.9	250.2	242.2	239.5	236.9
15°	1532.9	1216.1	830.4	524.3	327.3	258.2	239.5	223.6	215.6	212.9	210.3
17.5°	1657.9	1269.3	785.1	420.4	266.1	234.2	212.9	199.7	189.0	186.3	186.3
20°	1775.1	1314.6	707.9	327.3	239.5	210.3	189.0	173.0	162.4	159.7	159.7
22.5°	1897.4	1351.9	612.0	266.1	218.2	186.3	165.0	148.9	138.3	135.7	133.0
25°	2027.8	1378.4	503.1	236.9	196.9	165.0	141.0	127.6	119.7	117.0	114.4
27.5°	2168.9	1389.0	399.1	215.6	173.0	143.6	122.3	109.1	103.8	101.1	101.1
30°	2296.5	1378.4	308.7	191.6	151.6	125.0	106.4	95.8	90.5	87.9	87.9
32.5°	2429.6	1351.9	247.6	170.3	133.0	106.4	90.5	82.6	79.8	77.2	77.2
35°	2570.7	1317.3	212.9	151.6	114.4	93.2	79.8	74.5	71.9	69.2	69.2
37.5°	2735.7	1274.8	194.3	135.7	101.1	82.6	69.2	66.6	63.9	63.9	63.9
40°	2921.9	1221.4	181.0	122.3	90.5	71.9	61.3	58.6	55.9	55.9	55.9
42.5°	3118.9	1160.3	167.7	109.1	79.8	61.3	53.2	53.2	50.6	50.6	47.9
45°	3339.8	1099.0	154.4	95.8	69.2	53.2	45.3	42.6	42.6	40.0	40.0
47.5°	3600.5	1043.2	141.0	85.2	61.3	45.3	40.0	37.3	34.6	31.9	31.9
50°	3967.9	1037.8	125.0	74.5	55.9	37.3	31.9	29.3	26.6	24.0	24.0
52.5°	4332.3	989.9	106.4	61.3	45.3	31.9	24.0	21.3	18.7	18.7	16.0
55°	4414.9	910.2	93.2	53.2	34.6	24.0	18.7	13.4	13.4	10.6	10.6
57.5°	4595.9	872.9	79.8	42.6	26.6	18.7	10.6	7.9	7.9	7.9	7.9
60°	4952.4	862.3	69.2	37.3	18.7	13.4	7.9	5.3	5.3	2.6	2.6
62.5°	5444.7	851.6	58.6	31.9	13.4	7.9	5.3	2.6	0.0	0.0	0.0
65°	5716.3	779.6	47.9	24.0	10.6	7.9	2.6	0.0	0.0	0.0	0.0
67.5°	5644.4	644.1	42.6	16.0	7.9	5.3	2.6	0.0	0.0	0.0	0.0
69°	5343.7	542.8	34.6	13.4	7.9	5.3	2.6	0.0	0.0	0.0	0.0
70°	4981.7	468.3	31.9	10.6	5.3	2.6	2.6	0.0	0.0	0.0	0.0
72.5°	3536.6	244.8	21.3	7.9	5.3	2.6	0.0	0.0	0.0	0.0	0.0
75°	1652.6	109.1	13.4	5.3	2.6	2.6	0.0	0.0	0.0	0.0	0.0
77.5°	364.6	50.6	7.9	5.3	2.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	69.2	18.7	5.3	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	24.0	7.9	2.6	2.6	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°	2.6	0.0	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)