

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: P257944

Luminaire Tested: **ARCH-L-AF72-280-D-U-T2U-7030**

Issue Date: 8/23/2018

**Test Information**

Test Method: LM-79-08  
Report Number: P257944  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-616-1)  
Test Lab: INNOVATIONS CENTER(G2)  
Issue Date: 8/23/2018  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-AF72-280-D-U-T2U-7030  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 3000K, 1180mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29064 lumens  
Efficiency: N/A  
Efficacy: 104.2 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4

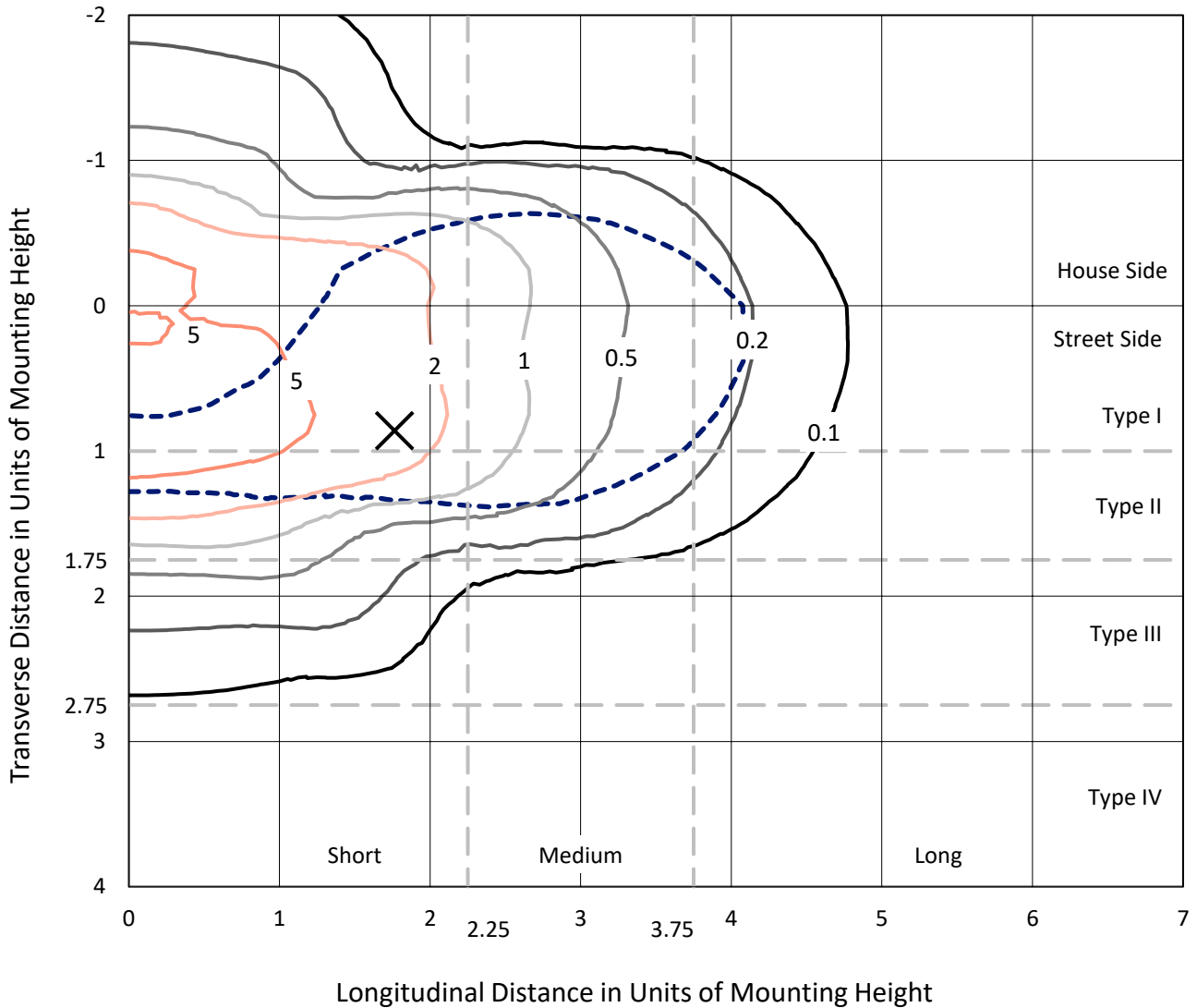
Input Watts (W): 279  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

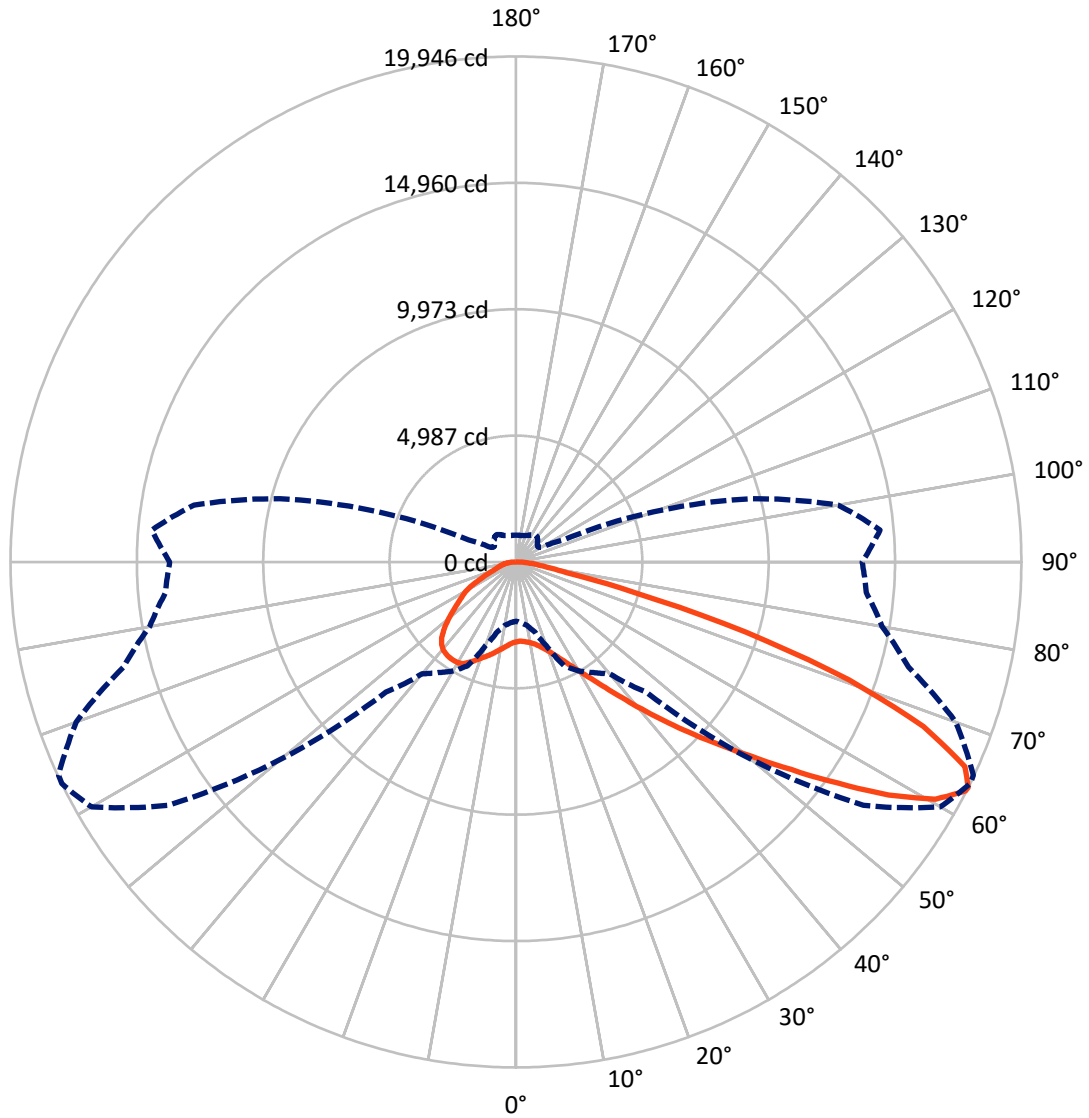
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral      - - - Horizontal Cone Through 63-Deg Vertical

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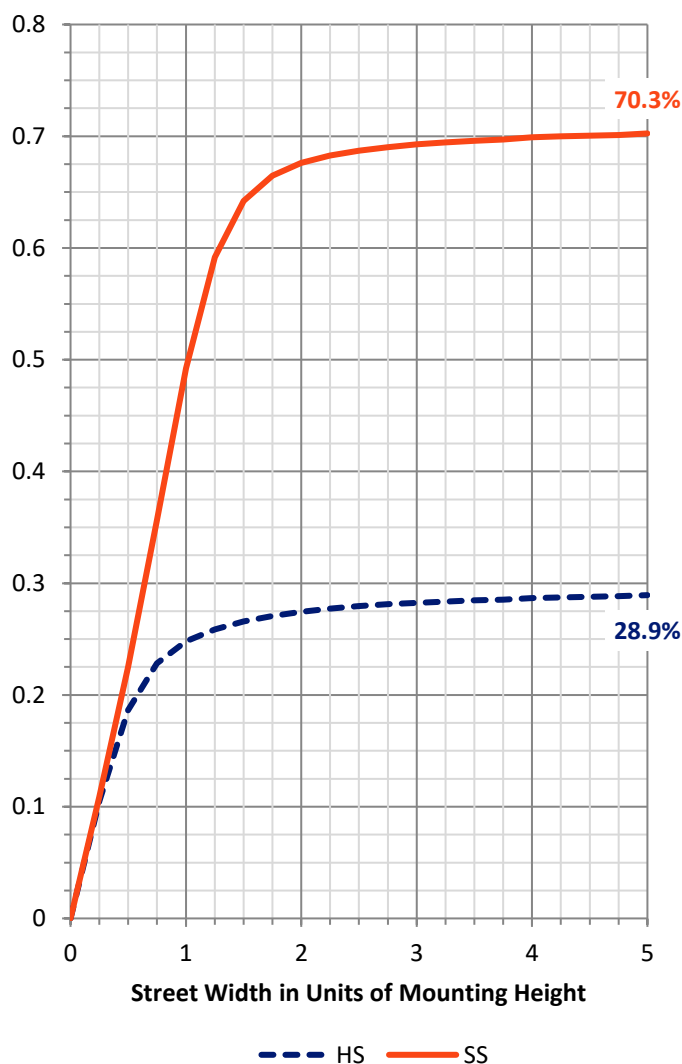
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8543.8	0.0	8543.8
	% Fixture	29.4	0.0	29.4
<b>Street Side</b>	Lumens	20520.3	0.0	20520.3
	% Fixture	70.6	0.0	70.6
<b>Total</b>	Lumens	29064.0	0.0	29064.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	314.3	1.1
10°-20°	1046.7	3.6
20°-30°	1964.9	6.8
30°-40°	3293.3	11.3
40°-50°	5525.5	19.0
50°-60°	7004.6	24.1
60°-70°	6179.1	21.3
70°-80°	3189.8	11.0
80°-90°	545.8	1.9
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°	29064.0	100.0
0°-180°	29064.0	100.0

**Coefficient of Utilization**

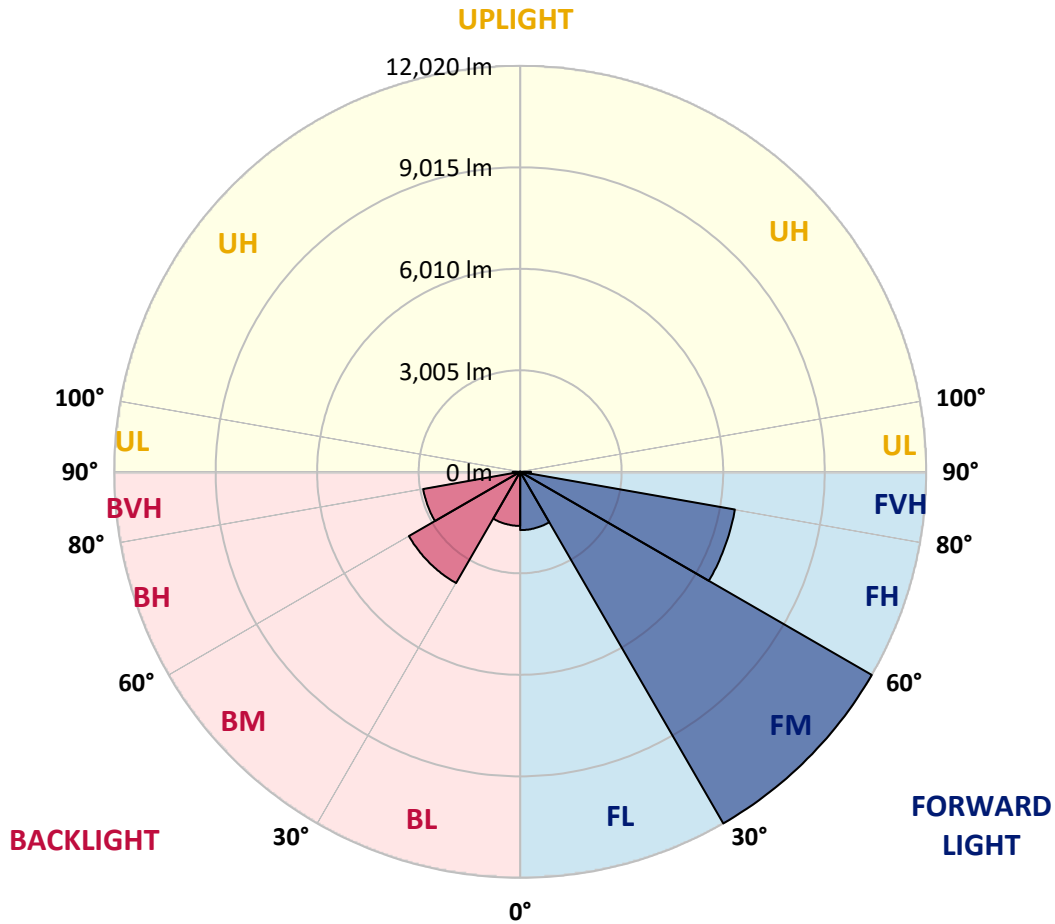


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 CATALOG NUMBER: ARCH-L-AF72-280-D-U-T2U-7030

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1725.1	5.9			
FM (30°-60°)	12020.1	41.4			
FH (60°-80°)	6453.9	22.2			G3/7500
FVH (80°-90°)	321.2	1.1			G3/500
BL (0°-30°)	1600.8	5.5	B3/2500		
BM (30°-60°)	3803.3	13.1	B3/5000		
BH (60°-80°)	2915.1	10.0	B4/5000		G4/5000
BVH (80°-90°)	224.6	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3147.6	3147.6	3147.6	3147.6	3147.6	3147.6	3147.6	3147.6	3147.6	3147.6	3147.6
2.5°	3128.2	3123.2	3123.2	3123.2	3123.2	3118.5	3123.2	3133.0	3128.2	3123.2	3133.0
5°	3137.9	3133.0	3133.0	3133.0	3137.9	3133.0	3137.9	3152.4	3142.8	3142.8	3152.4
7.5°	3162.2	3157.4	3162.2	3157.4	3157.4	3157.4	3162.2	3176.8	3171.9	3176.8	3191.5
10°	3191.5	3191.5	3191.5	3191.5	3191.5	3191.5	3201.2	3210.9	3215.7	3220.6	3240.1
12.5°	3279.0	3279.0	3279.0	3274.1	3274.1	3259.5	3279.0	3288.7	3298.4	3308.2	3322.8
15°	3463.8	3463.8	3458.9	3439.5	3439.5	3410.3	3415.2	3420.1	3420.1	3429.7	3439.5
17.5°	3707.0	3702.2	3692.5	3677.8	3658.4	3624.3	3614.7	3604.9	3590.4	3585.5	3585.5
20°	4047.6	4042.8	4023.4	3984.3	3960.1	3906.6	3867.7	3828.8	3814.1	3789.7	3785.0
22.5°	4534.2	4534.2	4495.3	4436.8	4417.4	4305.5	4193.6	4110.9	4081.7	4047.6	4047.6
25°	5122.8	5117.9	5064.3	4996.3	4913.6	4796.8	4660.7	4548.7	4475.8	4397.9	4368.7
27.5°	5828.2	5813.5	5740.6	5658.0	5502.3	5356.3	5195.9	5079.0	4952.5	4855.3	4767.6
30°	6655.3	6640.7	6514.1	6358.5	6197.9	6052.0	5818.5	5677.4	5477.9	5361.2	5263.9
32.5°	7613.6	7599.1	7370.4	7219.7	7049.3	6869.3	6592.0	6368.1	6115.2	5949.8	5813.5
35°	8834.7	8776.4	8450.4	8241.2	7973.6	7793.7	7501.7	7200.1	6903.3	6669.8	6470.5
37.5°	10153.1	10085.0	9798.1	9486.7	9224.0	9005.0	8591.5	8212.0	7861.7	7540.6	7292.6
40°	11529.9	11350.0	11043.5	10814.8	10634.8	10425.6	9992.7	9593.7	9043.9	8683.9	8309.3
42.5°	12483.4	12308.4	12094.2	11943.4	11855.9	11695.3	11452.1	11106.6	10615.3	10625.0	9637.4
45°	13111.0	12853.3	12707.3	12717.0	12751.0	12751.0	12707.3	12653.8	12439.7	12585.7	11758.6
47.5°	12887.2	12717.0	12624.6	12819.2	13062.4	13305.7	13587.8	13894.3	14244.5	14658.1	13641.3
50°	11573.8	11636.9	11680.8	12094.2	12614.8	13169.4	13816.5	14653.2	15631.0	15820.8	15329.5
52.5°	9476.9	9613.1	9759.1	10391.5	11077.5	12035.9	13169.4	14551.0	15864.7	16638.1	16589.5
55°	7360.7	7530.9	7842.3	8314.2	8859.1	9764.0	11165.1	13295.9	15344.1	16574.8	17324.1
57.5°	5239.5	5487.6	5896.2	6553.1	7034.7	7545.6	8581.8	10946.1	13188.9	15480.3	17202.5
60°	3483.3	3600.1	3867.7	4684.9	5497.4	6032.5	6767.2	7623.3	9457.5	12614.8	15947.4
62.5°	2471.5	2549.2	2714.6	3084.4	3818.9	4787.0	5229.8	5623.9	6212.6	8114.8	12804.5
63°	2335.2	2403.2	2539.5	2850.9	3512.4	4514.7	4967.2	5327.2	5755.2	7258.5	12113.7
65°	1936.3	1965.5	2038.4	2189.2	2544.3	3376.3	4115.8	4334.7	4407.6	4665.5	7589.3
67.5°	1634.6	1654.0	1678.4	1722.2	1863.3	2247.6	3069.7	3347.0	3264.3	3089.2	3750.9
70°	1420.6	1435.1	1474.1	1527.6	1576.3	1673.6	2111.4	2524.9	2432.4	2194.2	2296.3
72.5°	1133.6	1157.8	1201.7	1294.0	1391.4	1517.8	1624.9	1882.7	1824.4	1595.7	1620.0
75°	895.2	909.7	948.7	1016.7	1109.2	1255.2	1464.4	1551.9	1391.4	1177.3	1177.3
77.5°	710.3	724.8	759.0	812.5	870.8	973.0	1119.0	1347.6	1250.3	885.4	880.5
80°	535.2	549.8	583.8	632.4	690.8	763.8	851.3	953.5	1148.1	827.1	661.7
82.5°	394.1	398.9	457.4	491.3	510.8	569.2	642.2	700.6	788.1	763.8	588.7
85°	296.7	291.9	330.8	355.1	360.0	374.6	418.4	476.8	515.7	496.2	457.4
87.5°	165.4	146.0	170.2	194.6	194.6	199.5	209.2	243.2	277.3	267.5	243.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P257944

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	64°	65°	70°	75°	80°	85°	90°	95°	100°
0°	3147.6	3147.6	3147.6	3147.6	3147.6	3147.6	3147.6	3147.6	3147.6	3147.6	3147.6
2.5°	3133.0	3133.0	3128.2	3128.2	3133.0	3133.0	3128.2	3142.8	3152.4	3152.4	3157.4
5°	3147.6	3152.4	3147.6	3147.6	3152.4	3152.4	3157.4	3171.9	3186.5	3196.3	3210.9
7.5°	3191.5	3196.3	3191.5	3191.5	3196.3	3201.2	3210.9	3230.4	3240.1	3259.5	3283.9
10°	3240.1	3244.9	3240.1	3244.9	3249.8	3254.7	3269.2	3283.9	3298.4	3317.8	3356.8
12.5°	3327.6	3332.5	3322.8	3327.6	3342.2	3342.2	3352.0	3361.7	3386.1	3410.3	3449.2
15°	3449.2	3449.2	3439.5	3444.4	3458.9	3458.9	3463.8	3473.6	3502.8	3532.0	3570.9
17.5°	3590.4	3600.1	3595.1	3600.1	3609.8	3614.7	3614.7	3624.3	3643.8	3663.4	3702.2
20°	3780.1	3785.0	3775.2	3785.0	3794.7	3785.0	3775.2	3770.3	3780.1	3789.7	3833.6
22.5°	4037.9	4033.1	4008.7	4008.7	4008.7	3989.3	3964.9	3935.7	3935.7	3921.2	3955.1
25°	4344.3	4329.8	4295.7	4300.7	4266.6	4237.4	4193.6	4149.7	4110.9	4096.2	4101.1
27.5°	4704.3	4675.2	4641.2	4631.4	4597.4	4543.9	4470.9	4388.2	4324.9	4276.3	4266.6
30°	5156.8	5093.5	5035.2	5025.5	4972.0	4884.4	4767.6	4655.7	4548.7	4466.1	4436.8
32.5°	5692.0	5594.7	5502.3	5492.6	5404.9	5288.2	5147.1	4991.4	4835.9	4704.3	4641.2
35°	6319.5	6173.5	6086.1	6061.7	5935.3	5789.3	5633.6	5434.1	5215.3	5030.4	4913.6
37.5°	7083.4	6932.6	6781.7	6786.6	6611.5	6441.2	6232.0	5988.7	5711.4	5453.5	5288.2
40°	8027.2	7813.1	7618.5	7574.7	7423.9	7185.6	6956.9	6674.7	6334.2	5993.6	5755.2
42.5°	9170.4	8820.2	8552.6	8513.7	8314.2	8022.4	7745.0	7370.4	7025.1	6611.5	6324.5
45°	10469.3	9910.0	9588.8	9530.4	9209.4	8912.6	8577.0	8177.9	7754.7	7287.7	6947.1
47.5°	12084.5	11286.7	10741.9	10644.5	10201.7	9812.6	9462.3	9019.6	8513.7	7993.1	7618.5
50°	13967.2	12790.0	12055.3	11904.6	11311.1	10853.7	10406.2	9851.6	9311.5	8766.6	8333.6
52.5°	15854.8	14590.1	13612.2	13427.3	12551.6	11938.6	11350.0	10795.4	10158.1	9618.0	9126.7
55°	17372.8	16531.2	15397.6	15139.7	13884.5	13052.6	12279.1	11646.7	11014.2	10586.1	10007.2
57.5°	18287.4	18243.6	17348.4	16993.3	15276.0	14045.2	13184.0	12464.0	11851.1	11671.1	10902.3
60°	18263.0	19396.6	19012.2	18744.6	16681.9	15061.9	13943.0	13164.5	12658.6	12863.0	11802.4
62.5°	17149.0	19445.2	19907.4	19834.4	18180.3	15879.2	14565.7	13763.0	13495.3	14103.5	12736.5
63°	16745.2	19333.3	19946.3	19917.1	18467.3	16034.9	14672.8	13879.7	13660.8	14419.7	12906.7
65°	14152.2	18355.4	19474.4	19605.8	19085.2	16570.0	14920.8	14176.5	14152.2	15125.1	13310.5
67.5°	8625.6	15509.5	17348.4	17601.4	18214.4	16740.2	14779.7	14074.3	14424.6	15227.4	13188.9
70°	3687.6	10235.9	13943.0	14351.6	15850.0	15893.8	14375.9	13655.9	14361.4	14429.5	12323.0
72.5°	2184.3	4826.0	9491.6	10381.9	12541.9	13675.4	13451.6	12926.1	13529.5	12673.2	10493.7
75°	1547.0	2257.3	4821.2	5769.9	8732.5	10440.2	11301.3	11544.6	11520.2	10051.0	7876.4
77.5°	1109.2	1449.8	2033.6	2398.5	4874.7	6703.9	7754.7	8465.0	8236.4	6728.1	4855.3
80°	773.5	1002.1	1245.4	1323.2	2262.2	3444.4	4086.6	4397.9	4261.6	3361.7	2174.6
82.5°	559.5	656.7	802.7	851.3	1138.4	1590.9	1892.5	1668.7	1600.5	1240.5	939.0
85°	433.0	423.3	501.1	520.5	666.5	831.9	851.3	661.7	579.0	515.7	525.4
87.5°	306.5	262.7	267.5	277.3	345.4	442.7	433.0	272.4	233.5	248.1	282.2
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):**

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	3147.6	3147.6	3147.6	3147.6	3147.6	3147.6	3147.6	3147.6	3147.6	3147.6	3147.6
2.5°	3167.1	3171.9	3181.6	3186.5	3196.3	3196.3	3206.0	3210.9	3220.6	3230.4	3235.1
5°	3225.5	3240.1	3259.5	3269.2	3288.7	3303.4	3322.8	3332.5	3352.0	3366.5	3386.1
7.5°	3313.1	3337.4	3361.7	3390.9	3420.1	3444.4	3463.8	3488.2	3522.2	3546.5	3561.2
10°	3395.8	3429.7	3473.6	3507.7	3551.4	3585.5	3614.7	3658.4	3697.4	3731.4	3750.9
12.5°	3502.8	3546.5	3590.4	3643.8	3702.2	3746.1	3789.7	3848.2	3901.6	3940.7	3960.1
15°	3629.3	3682.8	3731.4	3794.7	3862.8	3921.2	3984.3	4047.6	4086.6	4086.6	4076.8
17.5°	3760.6	3804.4	3862.8	3935.7	4028.2	4101.1	4135.3	4145.0	4130.3	4096.2	4072.0
20°	3892.0	3930.9	3994.1	4081.7	4178.9	4193.6	4159.5	4115.8	4072.0	4013.6	3974.7
22.5°	3999.0	4052.5	4149.7	4252.0	4256.8	4174.1	4081.7	4008.7	3940.7	3872.4	3799.5
25°	4125.5	4198.5	4329.8	4368.7	4242.2	4086.6	3955.1	3848.2	3736.3	3624.3	3541.6
27.5°	4281.1	4388.2	4519.5	4407.6	4159.5	3940.7	3760.6	3600.1	3454.1	3298.4	3206.0
30°	4446.6	4612.0	4641.2	4349.3	4018.4	3736.3	3493.0	3249.8	3064.9	2923.9	2870.3
32.5°	4646.0	4860.1	4684.9	4247.1	3828.8	3458.9	3133.0	2841.2	2685.5	2597.8	2573.6
35°	4947.7	5122.8	4709.3	4140.1	3609.8	3128.2	2719.5	2485.9	2388.7	2330.3	2301.1
37.5°	5380.7	5375.8	4704.3	4008.7	3356.8	2768.2	2388.7	2223.3	2145.5	2096.8	2043.2
40°	5886.6	5570.4	4675.2	3818.9	3016.3	2422.8	2160.0	2004.4	1931.3	1873.0	1809.8
42.5°	6387.8	5701.7	4592.5	3536.8	2593.0	2174.6	1994.6	1853.6	1775.7	1712.4	1624.9
45°	6820.6	5755.2	4432.0	3147.6	2213.6	1980.0	1887.6	1765.9	1673.6	1576.3	1508.1
47.5°	7161.2	5745.5	4174.1	2690.3	1960.5	1843.9	1800.0	1717.3	1605.4	1483.8	1396.3
50°	7448.2	5672.5	3823.8	2286.6	1790.3	1722.2	1707.6	1683.2	1503.3	1401.1	1347.6
52.5°	7711.0	5565.5	3449.2	2014.0	1644.4	1586.0	1615.2	1590.9	1464.4	1376.7	1323.2
55°	8071.0	5492.6	3079.5	1804.9	1474.1	1459.4	1483.8	1517.8	1440.0	1357.3	1299.0
57.5°	8494.3	5531.5	2797.4	1571.3	1313.6	1323.2	1405.9	1454.6	1415.7	1328.1	1269.7
60°	8980.7	5648.1	2549.2	1347.6	1182.1	1206.5	1328.1	1396.3	1391.4	1289.3	1221.1
62.5°	9525.6	5769.9	2155.1	1177.3	1070.3	1109.2	1235.7	1323.2	1337.9	1250.3	1167.6
63°	9632.7	5779.6	2053.0	1143.3	1050.8	1094.7	1211.3	1303.8	1323.2	1240.5	1157.8
65°	9895.3	5692.0	1654.0	1050.8	973.0	1021.7	1138.4	1221.1	1260.0	1187.1	1119.0
67.5°	9676.4	4976.9	1245.4	939.0	909.7	943.8	1045.9	1123.8	1157.8	1123.8	1055.7
70°	8849.4	3619.5	973.0	836.8	841.7	866.0	943.8	1016.7	1055.7	1045.9	982.7
72.5°	7127.2	2053.0	812.5	749.2	763.8	793.0	846.5	914.6	948.7	943.8	900.0
75°	4694.7	1050.8	685.9	671.4	681.1	705.4	744.4	797.8	836.8	831.9	812.5
77.5°	2325.5	729.8	588.7	593.5	598.4	617.9	647.1	695.7	720.0	724.8	720.0
80°	958.4	569.2	506.0	510.8	515.7	530.2	549.8	593.5	608.1	617.9	622.7
82.5°	574.0	433.0	403.8	413.5	418.4	433.0	447.5	486.5	501.1	515.7	515.7
85°	379.4	301.7	291.9	301.7	311.4	321.1	325.9	350.2	374.6	394.1	403.8
87.5°	204.4	180.0	175.2	180.0	180.0	189.8	199.5	223.8	252.9	272.4	282.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P257944

CATALOG NUMBER: ARCH-L-AF72-280-D-U-T2U-7030

**CANDELA DISTRIBUTION (continued):**

	160°	165°	170°	175°	180°
0°	3147.6	3147.6	3147.6	3147.6	3147.6
2.5°	3225.5	3230.4	3225.5	3230.4	3235.1
5°	3386.1	3395.8	3390.9	3390.9	3410.3
7.5°	3570.9	3590.4	3590.4	3600.1	3609.8
10°	3770.3	3789.7	3804.4	3804.4	3818.9
12.5°	3969.8	3979.6	3994.1	3994.1	3994.1
15°	4072.0	4067.0	4062.3	4057.4	4057.4
17.5°	4057.4	4037.9	4028.2	4018.4	4023.4
20°	3950.4	3916.3	3906.6	3892.0	3901.6
22.5°	3765.5	3716.8	3697.4	3673.1	3682.8
25°	3488.2	3429.7	3420.1	3390.9	3405.5
27.5°	3167.1	3137.9	3133.0	3128.2	3152.4
30°	2865.5	2875.1	2880.1	2889.8	2914.1
32.5°	2588.2	2607.6	2612.5	2617.3	2651.4
35°	2315.8	2291.3	2315.8	2306.0	2335.2
37.5°	2019.0	1999.5	1980.0	1955.7	1975.2
40°	1770.9	1736.7	1678.4	1649.3	1654.0
42.5°	1576.3	1532.5	1483.8	1454.6	1454.6
45°	1449.8	1396.3	1352.4	1333.0	1333.0
47.5°	1352.4	1328.1	1303.8	1289.3	1289.3
50°	1313.6	1284.4	1269.7	1260.0	1260.0
52.5°	1284.4	1255.2	1240.5	1230.8	1221.1
55°	1260.0	1216.3	1201.7	1196.8	1196.8
57.5°	1226.0	1187.1	1167.6	1162.7	1162.7
60°	1172.5	1143.3	1123.8	1119.0	1119.0
62.5°	1119.0	1089.8	1070.3	1070.3	1070.3
63°	1109.2	1075.1	1060.6	1060.6	1060.6
65°	1065.4	1031.4	1016.7	1016.7	1012.0
67.5°	1007.1	973.0	963.2	963.2	953.5
70°	939.0	909.7	900.0	904.8	885.4
72.5°	870.8	841.7	827.1	827.1	807.5
75°	793.0	763.8	744.4	739.4	720.0
77.5°	705.4	681.1	661.7	642.2	632.4
80°	613.0	593.5	569.2	554.6	540.0
82.5°	515.7	496.2	481.7	501.1	428.1
85°	403.8	384.4	364.9	394.1	306.5
87.5°	296.7	287.1	267.5	233.5	204.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)