

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: P257942

Luminaire Tested: **ARCH-L-AF72-260-D-U-T2U-7030**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P257942
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-AF72-260-D-U-T2U-7030
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 1110mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27874.2 lumens
Efficiency: N/A
Efficacy: 106.8 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

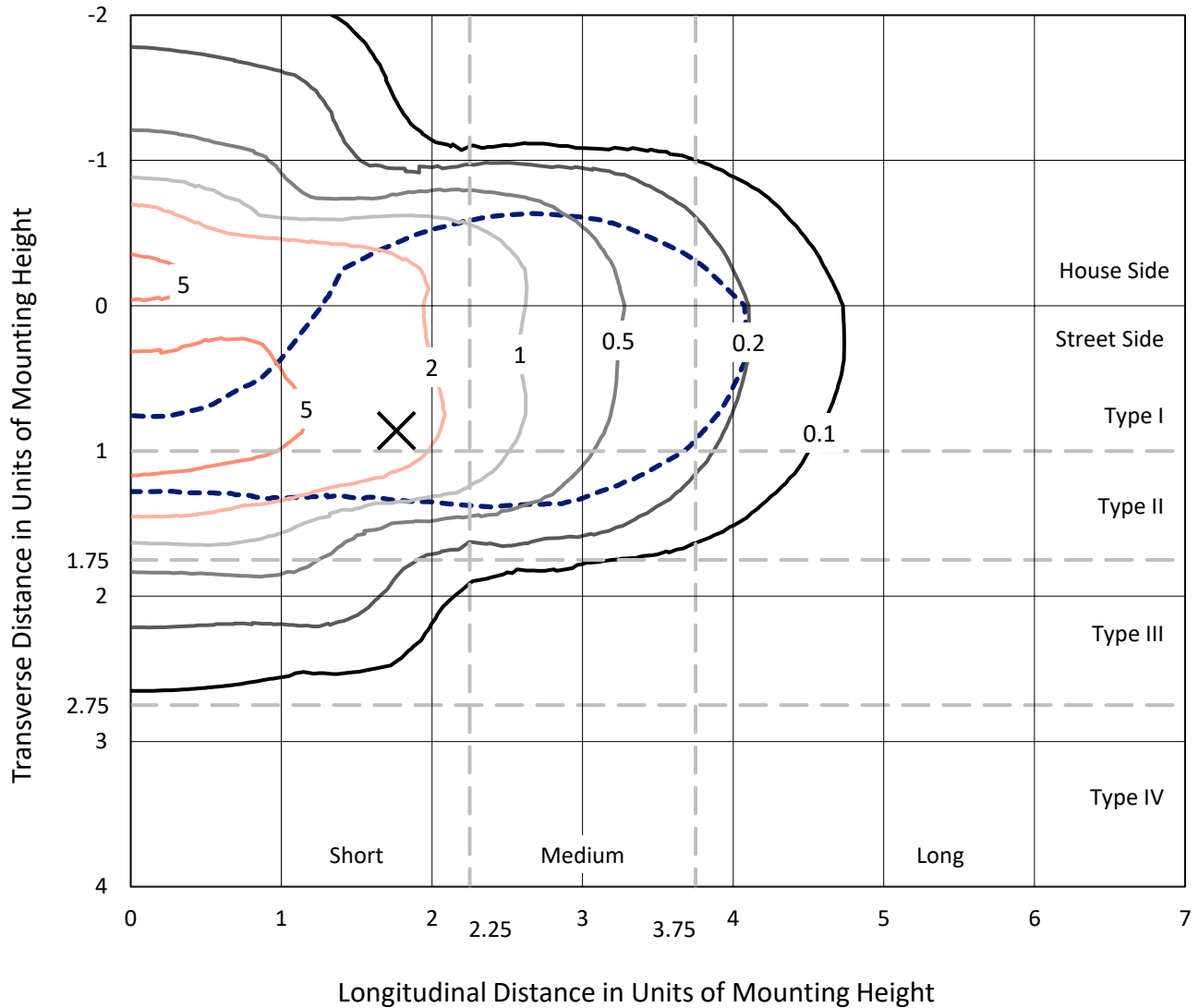
Input Watts (W): 261
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

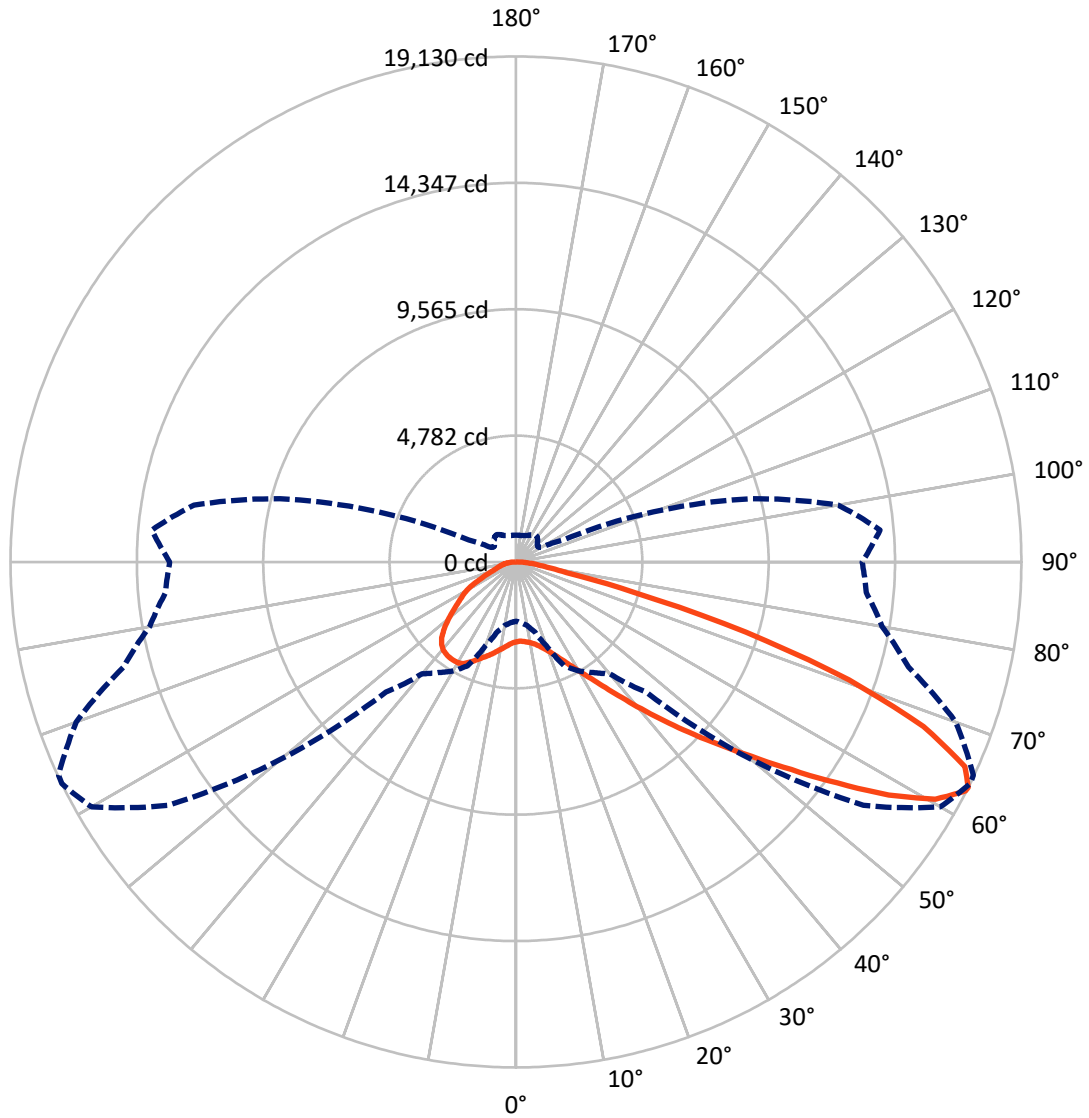
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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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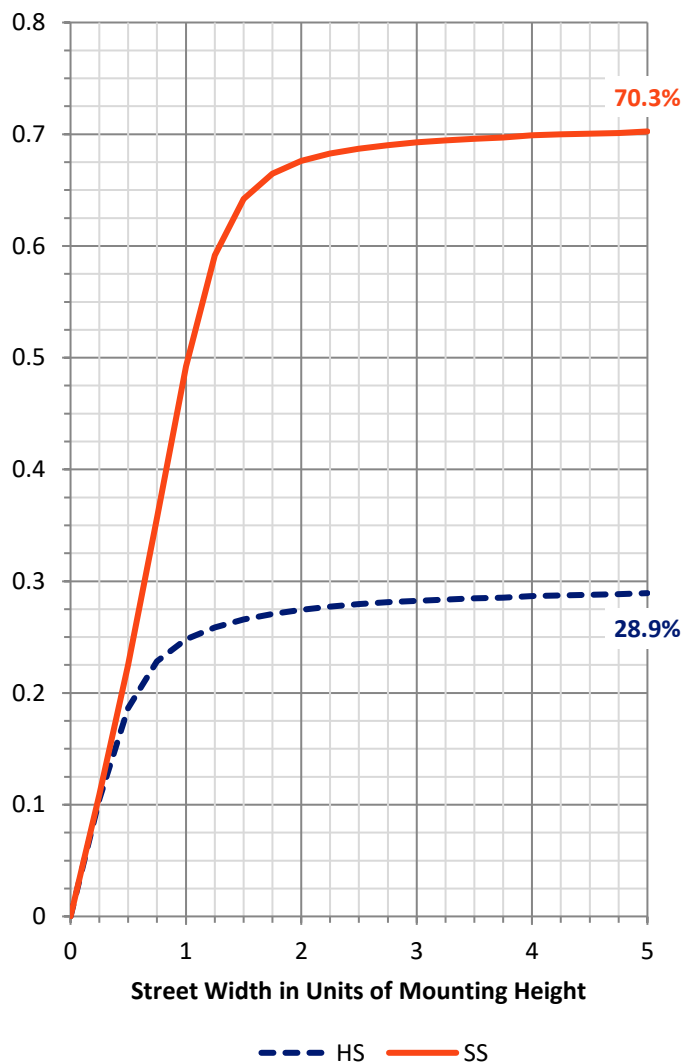
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8194.0	0.0	8194.0
	% Fixture	29.4	0.0	29.4
Street Side	Lumens	19680.2	0.0	19680.2
	% Fixture	70.6	0.0	70.6
Total	Lumens	27874.2	0.0	27874.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.4	1.1
10°-20°	1003.9	3.6
20°-30°	1884.4	6.8
30°-40°	3158.5	11.3
40°-50°	5299.3	19.0
50°-60°	6717.9	24.1
60°-70°	5926.2	21.3
70°-80°	3059.2	11.0
80°-90°	523.5	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°	27874.2	100.0
0°-180°	27874.2	100.0

Coefficient of Utilization



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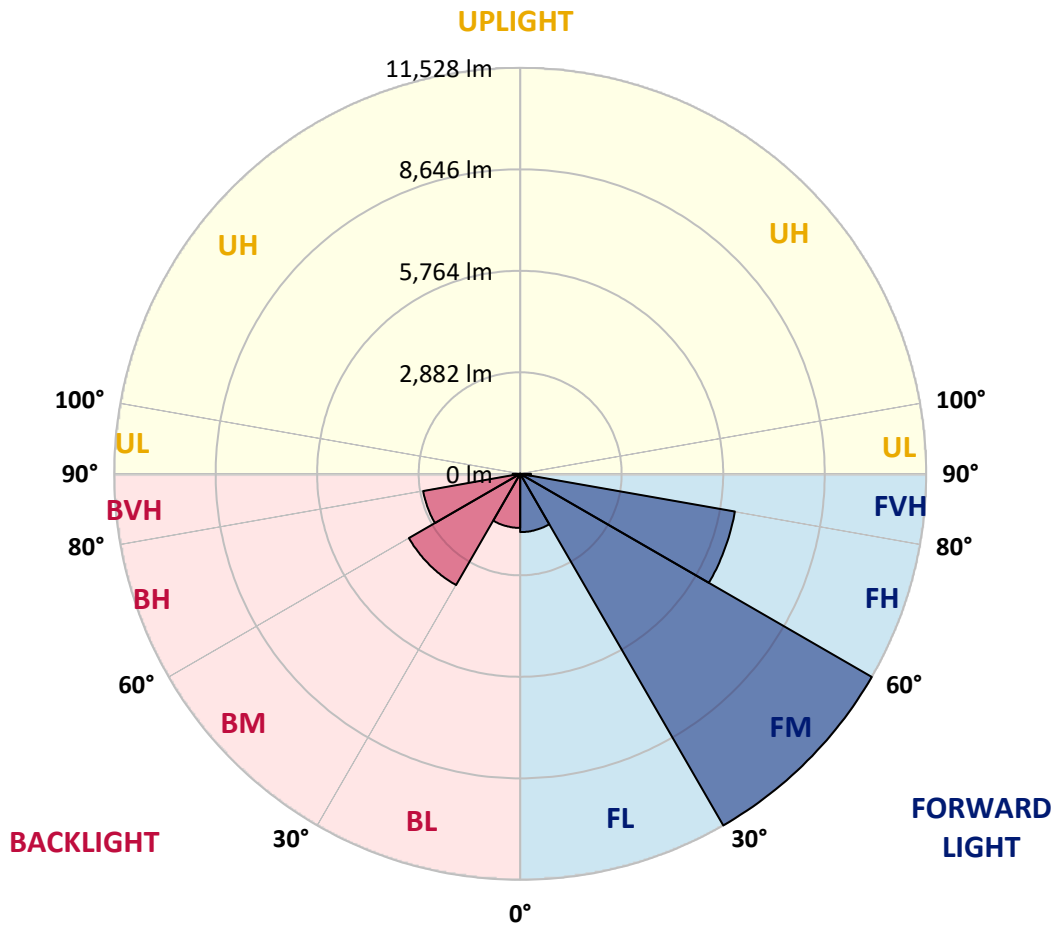
CATALOG NUMBER: ARCH-L-AF72-260-D-U-T2U-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1654.4	5.9			
FM (30°-60°)	11528.1	41.4			
FH (60°-80°)	6189.6	22.2			G3/7500
FVH (80°-90°)	308.1	1.1			G3/500
BL (0°-30°)	1535.3	5.5	B3/2500		
BM (30°-60°)	3647.6	13.1	B3/5000		
BH (60°-80°)	2795.8	10.0	B4/5000		G4/5000
BVH (80°-90°)	215.4	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°	3018.8	3018.8	3018.8	3018.8	3018.8	3018.8	3018.8	3018.8	3018.8	3018.8	3018.8
2.5°	3000.2	2995.5	2995.5	2995.5	2995.5	2990.8	2995.5	3004.7	3000.2	2995.5	3004.7
5°	3009.4	3004.7	3004.7	3004.7	3009.4	3004.7	3009.4	3023.4	3014.1	3014.1	3023.4
7.5°	3032.8	3028.1	3032.8	3028.1	3028.1	3028.1	3032.8	3046.8	3042.1	3046.8	3060.8
10°	3060.8	3060.8	3060.8	3060.8	3060.8	3060.8	3070.0	3079.5	3084.1	3088.8	3107.5
12.5°	3144.7	3144.7	3144.7	3140.1	3140.1	3126.1	3144.7	3154.1	3163.4	3172.8	3186.8
15°	3322.0	3322.0	3317.3	3298.7	3298.7	3270.6	3275.4	3280.1	3280.1	3289.4	3298.7
17.5°	3555.3	3550.7	3541.3	3527.3	3508.7	3476.0	3466.7	3457.4	3443.3	3438.7	3438.7
20°	3882.0	3877.3	3858.6	3821.3	3798.0	3746.6	3709.4	3671.9	3658.0	3634.6	3630.0
22.5°	4348.5	4348.5	4311.2	4255.2	4236.5	4129.2	4022.0	3942.6	3914.6	3882.0	3882.0
25°	4913.1	4908.4	4857.1	4791.8	4712.5	4600.5	4469.8	4362.5	4292.6	4217.9	4189.9
27.5°	5589.6	5575.6	5505.7	5426.4	5277.0	5137.1	4983.1	4871.1	4749.8	4656.4	4572.5
30°	6382.8	6368.8	6247.5	6098.2	5944.2	5804.3	5580.3	5444.9	5253.7	5141.7	5048.5
32.5°	7302.1	7287.9	7068.6	6924.1	6760.8	6588.2	6322.2	6107.5	5864.9	5706.3	5575.6
35°	8473.0	8417.2	8104.6	7903.9	7647.3	7474.7	7194.6	6905.4	6620.8	6396.8	6205.5
37.5°	9737.5	9672.1	9397.0	9098.3	8846.2	8636.4	8239.8	7875.9	7539.9	7232.0	6994.0
40°	11057.9	10885.3	10591.4	10372.1	10199.5	9998.8	9583.5	9200.9	8673.6	8328.4	7969.2
42.5°	11972.4	11804.5	11599.2	11454.5	11370.5	11216.5	10983.3	10652.0	10180.8	10190.1	9242.9
45°	12574.3	12327.0	12187.0	12196.4	12229.1	12229.1	12187.0	12135.8	11930.4	12070.4	11277.2
47.5°	12359.6	12196.4	12107.7	12294.4	12527.6	12760.9	13031.6	13325.5	13661.4	14058.1	13082.9
50°	11099.8	11160.7	11202.6	11599.2	12098.4	12630.3	13250.9	14053.4	14991.1	15173.2	14701.9
52.5°	9088.9	9219.7	9359.5	9966.1	10624.1	11543.1	12630.3	13955.3	15215.1	15957.0	15910.4
55°	7059.4	7222.7	7521.3	7973.8	8496.4	9364.3	10708.0	12751.6	14715.9	15896.3	16614.8
57.5°	5025.1	5263.0	5654.9	6284.8	6746.8	7236.7	8230.5	10498.0	12649.0	14846.5	16498.2
60°	3340.7	3452.7	3709.4	4493.2	5272.3	5785.6	6490.1	7311.3	9070.2	12098.4	15294.4
62.5°	2370.3	2444.9	2603.5	2958.0	3662.7	4591.2	5015.8	5393.7	5958.2	7782.5	12280.4
63°	2239.6	2305.0	2435.5	2734.1	3368.7	4329.8	4763.8	5109.1	5519.7	6961.4	11617.9
65°	1857.0	1884.9	1954.9	2099.6	2440.2	3238.0	3947.2	4157.2	4227.2	4474.5	7278.7
67.5°	1567.7	1586.3	1609.7	1651.7	1787.1	2155.5	2944.1	3210.0	3130.8	2962.8	3597.4
70°	1362.5	1376.4	1413.7	1465.0	1511.7	1605.0	2024.9	2421.5	2332.9	2104.3	2202.2
72.5°	1087.1	1110.5	1152.4	1241.0	1334.4	1455.8	1558.4	1805.6	1749.7	1530.4	1553.6
75°	858.6	872.6	909.8	975.1	1063.7	1203.8	1404.4	1488.4	1334.4	1129.0	1129.0
77.5°	681.2	695.2	727.8	779.2	835.2	933.2	1073.2	1292.4	1199.1	849.2	844.5
80°	513.2	527.2	559.9	606.6	662.5	732.6	816.5	914.5	1101.2	793.2	634.6
82.5°	377.9	382.6	438.5	471.2	489.9	545.9	615.9	671.8	755.8	732.6	564.6
85°	284.6	279.9	317.3	340.6	345.3	359.3	401.3	457.2	494.6	476.0	438.5
87.5°	158.7	140.0	163.4	186.7	186.7	191.3	200.6	233.3	265.9	256.6	233.3
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):

	55°	60°	64°	65°	70°	75°	80°	85°	90°	95°	100°
0°	3018.8	3018.8	3018.8	3018.8	3018.8	3018.8	3018.8	3018.8	3018.8	3018.8	3018.8
2.5°	3004.7	3004.7	3000.2	3000.2	3004.7	3004.7	3000.2	3014.1	3023.4	3023.4	3028.1
5°	3018.8	3023.4	3018.8	3018.8	3023.4	3023.4	3028.1	3042.1	3056.1	3065.4	3079.5
7.5°	3060.8	3065.4	3060.8	3060.8	3065.4	3070.0	3079.5	3098.0	3107.5	3126.1	3149.4
10°	3107.5	3112.0	3107.5	3112.0	3116.7	3121.4	3135.4	3149.4	3163.4	3182.0	3219.5
12.5°	3191.4	3196.1	3186.8	3191.4	3205.4	3205.4	3214.7	3224.0	3247.4	3270.6	3308.1
15°	3308.1	3308.1	3298.7	3303.4	3317.3	3317.3	3322.0	3331.5	3359.4	3387.4	3424.7
17.5°	3443.3	3452.7	3448.0	3452.7	3462.0	3466.7	3466.7	3476.0	3494.6	3513.3	3550.7
20°	3625.3	3630.0	3620.7	3630.0	3639.3	3630.0	3620.7	3615.9	3625.3	3634.6	3676.7
22.5°	3872.5	3867.9	3844.7	3844.7	3844.7	3825.9	3802.7	3774.6	3774.6	3760.6	3793.3
25°	4166.6	4152.5	4119.8	4124.5	4091.9	4063.9	4022.0	3979.9	3942.6	3928.6	3933.3
27.5°	4511.9	4483.8	4451.1	4441.8	4409.1	4357.8	4287.9	4208.5	4147.9	4101.3	4091.9
30°	4945.7	4885.1	4829.0	4819.8	4768.4	4684.5	4572.5	4465.2	4362.5	4283.2	4255.2
32.5°	5459.0	5365.6	5277.0	5267.7	5183.7	5071.7	4936.5	4787.0	4637.8	4511.9	4451.1
35°	6060.8	5920.9	5836.9	5813.5	5692.3	5552.3	5403.0	5211.6	5001.8	4824.5	4712.5
37.5°	6793.4	6648.8	6504.1	6508.8	6340.9	6177.5	5976.9	5743.5	5477.6	5230.3	5071.7
40°	7698.5	7493.2	7306.6	7264.6	7120.0	6891.4	6672.1	6401.5	6074.9	5748.2	5519.7
42.5°	8795.1	8459.1	8202.4	8165.2	7973.8	7693.9	7428.0	7068.6	6737.4	6340.9	6065.5
45°	10040.8	9504.3	9196.3	9140.3	8832.3	8547.7	8225.8	7843.1	7437.3	6989.4	6662.7
47.5°	11589.7	10824.7	10302.0	10208.7	9784.1	9410.9	9075.0	8650.4	8165.2	7665.8	7306.6
50°	13395.5	12266.3	11561.9	11417.1	10848.0	10409.3	9980.2	9448.2	8930.3	8407.7	7992.6
52.5°	15205.8	13992.8	13054.9	12877.7	12037.7	11449.9	10885.3	10353.4	9742.2	9224.3	8753.0
55°	16661.5	15854.4	14767.3	14519.9	13316.2	12518.3	11776.5	11169.9	10563.4	10152.8	9597.6
57.5°	17538.8	17496.7	16638.2	16297.6	14650.6	13470.1	12644.2	11953.7	11365.9	11193.3	10456.0
60°	17515.4	18602.5	18234.0	17977.3	15999.0	14445.2	13372.1	12625.7	12140.4	12336.4	11319.3
62.5°	16446.9	18649.1	19092.4	19022.5	17436.0	15229.1	13969.4	13199.5	12942.9	13526.1	12215.0
63°	16059.7	18541.9	19129.7	19101.8	17711.4	15378.5	14072.0	13311.5	13101.5	13829.4	12378.3
65°	13572.7	17604.1	18677.3	18803.2	18303.8	15891.6	14310.0	13596.1	13572.7	14506.0	12765.7
67.5°	8272.4	14874.5	16638.2	16880.9	17468.7	16055.0	14174.6	13498.1	13834.1	14603.9	12649.0
70°	3536.7	9816.8	13372.1	13764.1	15201.1	15243.1	13787.4	13096.9	13773.4	13838.8	11818.5
72.5°	2094.9	4628.4	9102.9	9956.8	12028.5	13115.6	12900.9	12397.0	12975.5	12154.4	10064.1
75°	1483.7	2165.0	4623.9	5533.7	8375.0	10012.7	10838.6	11071.9	11048.7	9639.5	7553.9
77.5°	1063.7	1390.5	1950.3	2300.2	4675.1	6429.5	7437.3	8118.5	7899.2	6452.8	4656.4
80°	741.9	961.2	1194.4	1269.0	2169.6	3303.4	3919.2	4217.9	4087.3	3224.0	2085.6
82.5°	536.6	629.9	769.8	816.5	1091.8	1525.7	1815.1	1600.3	1535.1	1189.8	900.6
85°	415.3	405.9	480.5	499.2	639.1	797.8	816.5	634.6	555.2	494.6	503.9
87.5°	293.9	252.0	256.6	265.9	331.3	424.6	415.3	261.2	224.0	237.9	270.6
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°	3018.8	3018.8	3018.8	3018.8	3018.8	3018.8	3018.8	3018.8	3018.8	3018.8	3018.8
2.5°	3037.4	3042.1	3051.4	3056.1	3065.4	3065.4	3074.8	3079.5	3088.8	3098.0	3102.8
5°	3093.4	3107.5	3126.1	3135.4	3154.1	3168.1	3186.8	3196.1	3214.7	3228.7	3247.4
7.5°	3177.4	3200.7	3224.0	3252.1	3280.1	3303.4	3322.0	3345.4	3378.1	3401.3	3415.3
10°	3256.7	3289.4	3331.5	3364.0	3406.0	3438.7	3466.7	3508.7	3546.0	3578.7	3597.4
12.5°	3359.4	3401.3	3443.3	3494.6	3550.7	3592.7	3634.6	3690.7	3741.9	3779.3	3798.0
15°	3480.7	3532.1	3578.7	3639.3	3704.7	3760.6	3821.3	3882.0	3919.2	3919.2	3910.0
17.5°	3606.6	3648.6	3704.7	3774.6	3863.3	3933.3	3965.9	3975.3	3961.3	3928.6	3905.3
20°	3732.7	3770.0	3830.6	3914.6	4007.9	4022.0	3989.3	3947.2	3905.3	3849.3	3811.9
22.5°	3835.3	3886.6	3979.9	4077.9	4082.6	4003.3	3914.6	3844.7	3779.3	3713.9	3644.1
25°	3956.6	4026.5	4152.5	4189.9	4068.6	3919.2	3793.3	3690.7	3583.3	3476.0	3396.7
27.5°	4105.9	4208.5	4334.6	4227.2	3989.3	3779.3	3606.6	3452.7	3312.7	3163.4	3074.8
30°	4264.5	4423.2	4451.1	4171.2	3853.9	3583.3	3350.0	3116.7	2939.4	2804.1	2752.8
32.5°	4455.8	4661.1	4493.2	4073.1	3671.9	3317.3	3004.7	2724.8	2575.6	2491.5	2468.1
35°	4745.1	4913.1	4516.4	3970.6	3462.0	3000.2	2608.1	2384.2	2290.9	2234.9	2206.9
37.5°	5160.4	5155.7	4511.9	3844.7	3219.5	2654.8	2290.9	2132.3	2057.6	2010.9	1959.7
40°	5645.7	5342.3	4483.8	3662.7	2892.7	2323.6	2071.7	1922.3	1852.3	1796.3	1735.7
42.5°	6126.1	5468.3	4404.5	3392.1	2486.8	2085.6	1913.0	1777.6	1703.1	1642.3	1558.4
45°	6541.5	5519.7	4250.5	3018.8	2122.9	1898.9	1810.3	1693.6	1605.0	1511.7	1446.4
47.5°	6868.0	5510.3	4003.3	2580.1	1880.4	1768.4	1726.3	1647.0	1539.7	1423.1	1339.1
50°	7143.4	5440.3	3667.3	2193.0	1717.0	1651.7	1637.7	1614.5	1441.6	1343.8	1292.4
52.5°	7395.3	5337.7	3308.1	1931.6	1577.0	1521.0	1549.1	1525.7	1404.4	1320.4	1269.0
55°	7740.6	5267.7	2953.5	1731.0	1413.7	1399.7	1423.1	1455.8	1381.0	1301.8	1245.8
57.5°	8146.5	5305.0	2682.9	1507.0	1259.8	1269.0	1348.4	1395.0	1357.8	1273.8	1217.8
60°	8613.0	5417.0	2444.9	1292.4	1133.8	1157.2	1273.8	1339.1	1334.4	1236.5	1171.1
62.5°	9135.6	5533.7	2066.9	1129.0	1026.5	1063.7	1185.1	1269.0	1283.1	1199.1	1119.8
63°	9238.3	5542.9	1969.0	1096.4	1007.8	1049.8	1161.8	1250.5	1269.0	1189.8	1110.5
65°	9490.3	5459.0	1586.3	1007.8	933.2	979.8	1091.8	1171.1	1208.4	1138.5	1073.2
67.5°	9280.3	4773.1	1194.4	900.6	872.6	905.2	1003.1	1077.9	1110.5	1077.9	1012.5
70°	8487.0	3471.3	933.2	802.5	807.2	830.5	905.2	975.1	1012.5	1003.1	942.5
72.5°	6835.4	1969.0	779.2	718.5	732.6	760.6	811.8	877.2	909.8	905.2	863.1
75°	4502.5	1007.8	657.8	643.9	653.3	676.6	713.9	765.2	802.5	797.8	779.2
77.5°	2230.2	700.0	564.6	569.2	573.9	592.5	620.6	667.2	690.5	695.2	690.5
80°	919.2	545.9	485.2	489.9	494.6	508.6	527.2	569.2	583.2	592.5	597.2
82.5°	550.5	415.3	387.3	396.6	401.3	415.3	429.3	466.5	480.5	494.6	494.6
85°	364.0	289.3	279.9	289.3	298.6	307.9	312.6	336.0	359.3	377.9	387.3
87.5°	196.0	172.6	167.9	172.6	172.6	181.9	191.3	214.5	242.7	261.2	270.6
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):

	160°	165°	170°	175°	180°
0°	3018.8	3018.8	3018.8	3018.8	3018.8
2.5°	3093.4	3098.0	3093.4	3098.0	3102.8
5°	3247.4	3256.7	3252.1	3252.1	3270.6
7.5°	3424.7	3443.3	3443.3	3452.7	3462.0
10°	3615.9	3634.6	3648.6	3648.6	3662.7
12.5°	3807.2	3816.7	3830.6	3830.6	3830.6
15°	3905.3	3900.5	3895.9	3891.3	3891.3
17.5°	3891.3	3872.5	3863.3	3853.9	3858.6
20°	3788.7	3756.0	3746.6	3732.7	3741.9
22.5°	3611.3	3564.7	3546.0	3522.6	3532.1
25°	3345.4	3289.4	3280.1	3252.1	3266.1
27.5°	3037.4	3009.4	3004.7	3000.2	3023.4
30°	2748.2	2757.4	2762.2	2771.5	2794.9
32.5°	2482.2	2500.8	2505.6	2510.2	2542.9
35°	2220.9	2197.6	2220.9	2211.6	2239.6
37.5°	1936.3	1917.6	1898.9	1875.7	1894.3
40°	1698.3	1665.6	1609.7	1581.7	1586.3
42.5°	1511.7	1469.7	1423.1	1395.0	1395.0
45°	1390.5	1339.1	1297.1	1278.5	1278.5
47.5°	1297.1	1273.8	1250.5	1236.5	1236.5
50°	1259.8	1231.8	1217.8	1208.4	1208.4
52.5°	1231.8	1203.8	1189.8	1180.4	1171.1
55°	1208.4	1166.5	1152.4	1147.8	1147.8
57.5°	1175.7	1138.5	1119.8	1115.1	1115.1
60°	1124.5	1096.4	1077.9	1073.2	1073.2
62.5°	1073.2	1045.2	1026.5	1026.5	1026.5
63°	1063.7	1031.2	1017.1	1017.1	1017.1
65°	1021.8	989.2	975.1	975.1	970.4
67.5°	965.9	933.2	923.8	923.8	914.5
70°	900.6	872.6	863.1	867.8	849.2
72.5°	835.2	807.2	793.2	793.2	774.5
75°	760.6	732.6	713.9	709.2	690.5
77.5°	676.6	653.3	634.6	615.9	606.6
80°	588.0	569.2	545.9	531.9	517.9
82.5°	494.6	476.0	461.9	480.5	410.6
85°	387.3	368.6	349.9	377.9	293.9
87.5°	284.6	275.4	256.6	224.0	196.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)