

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: P257943

Luminaire Tested: **ARCH-L-AF72-270-D-U-T2U-7030**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P257943
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-AF72-270-D-U-T2U-7030
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 1155mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28639.1 lumens
Efficiency: N/A
Efficacy: 104.9 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

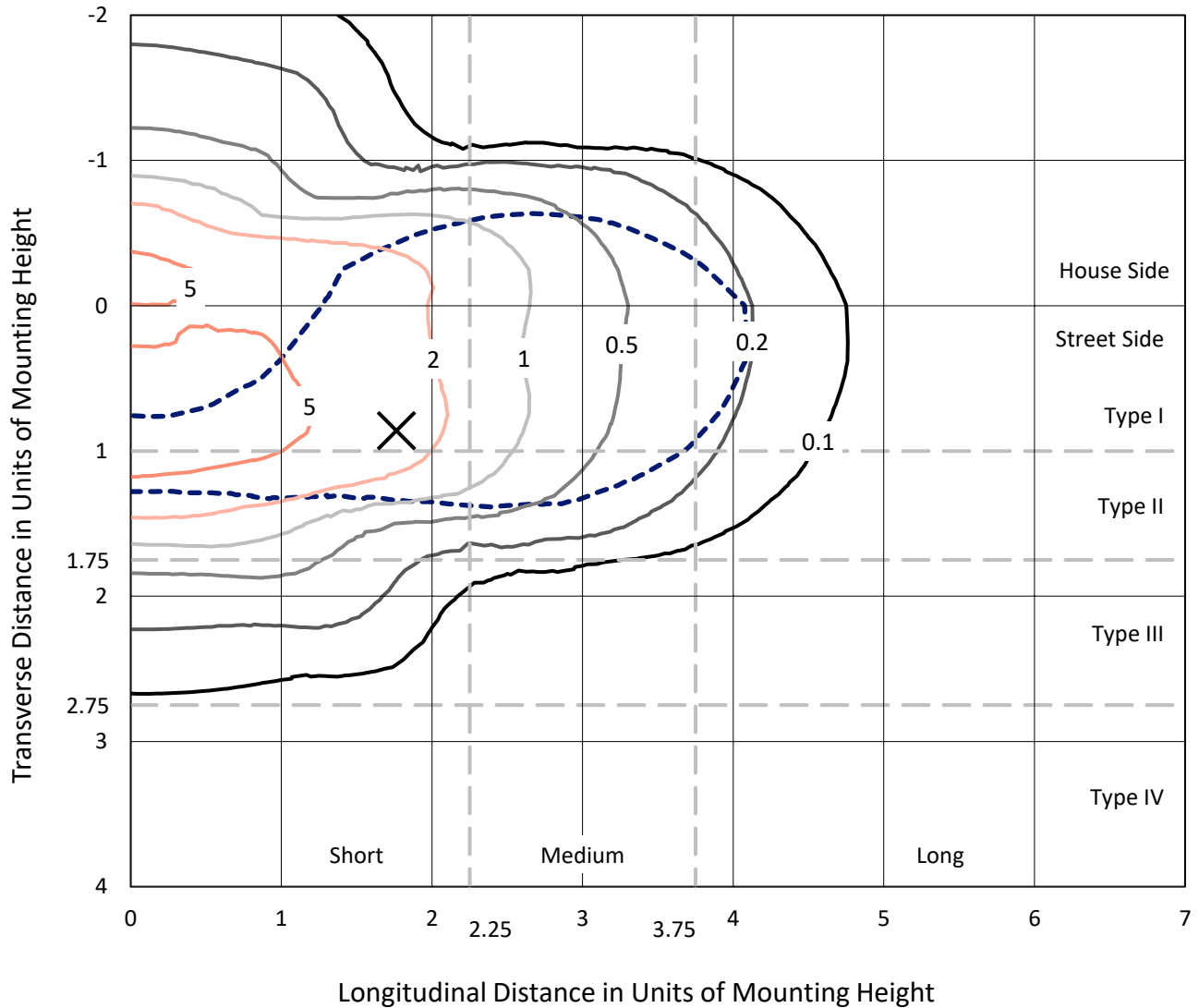
Input Watts (W): 273
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

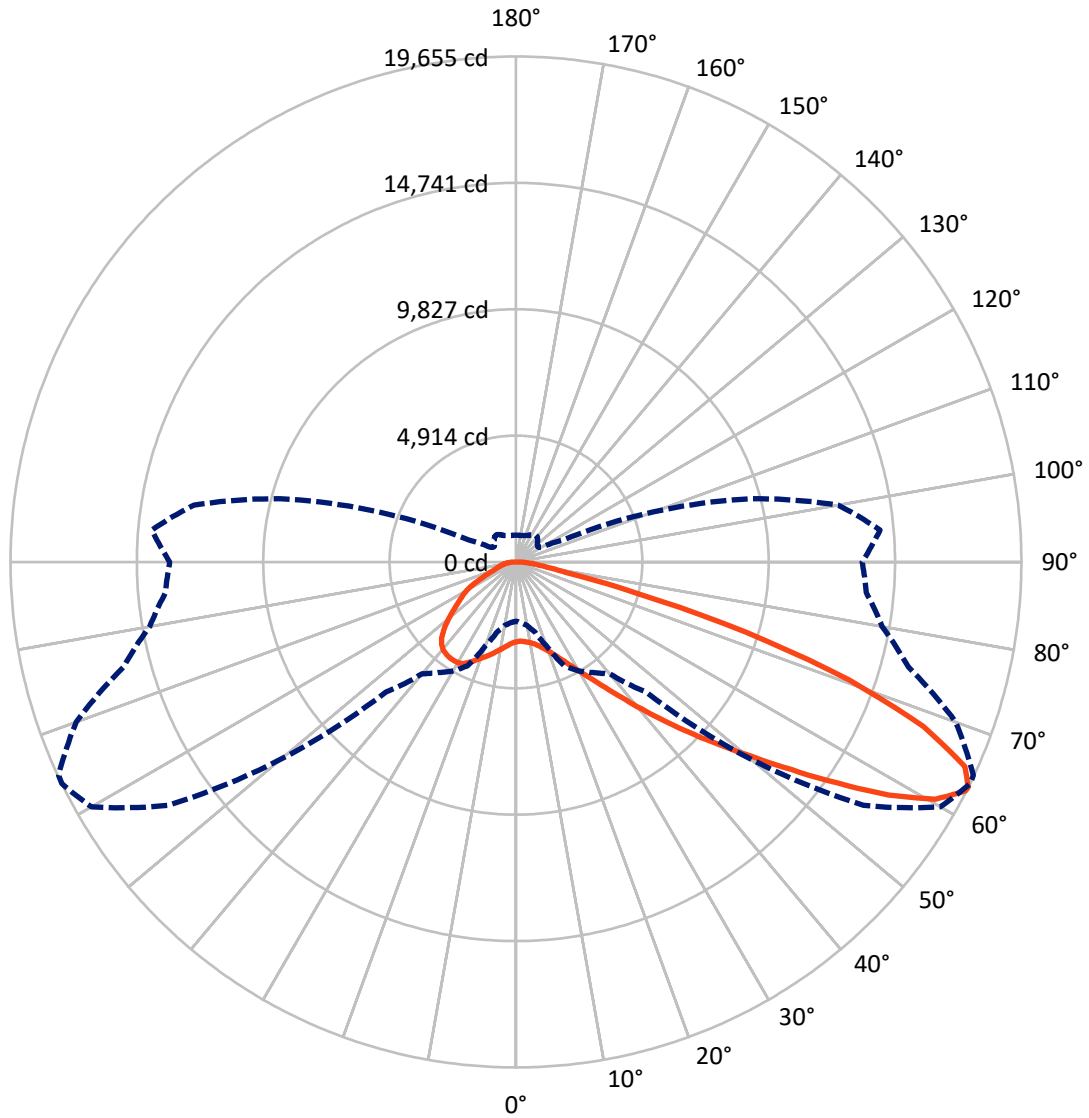
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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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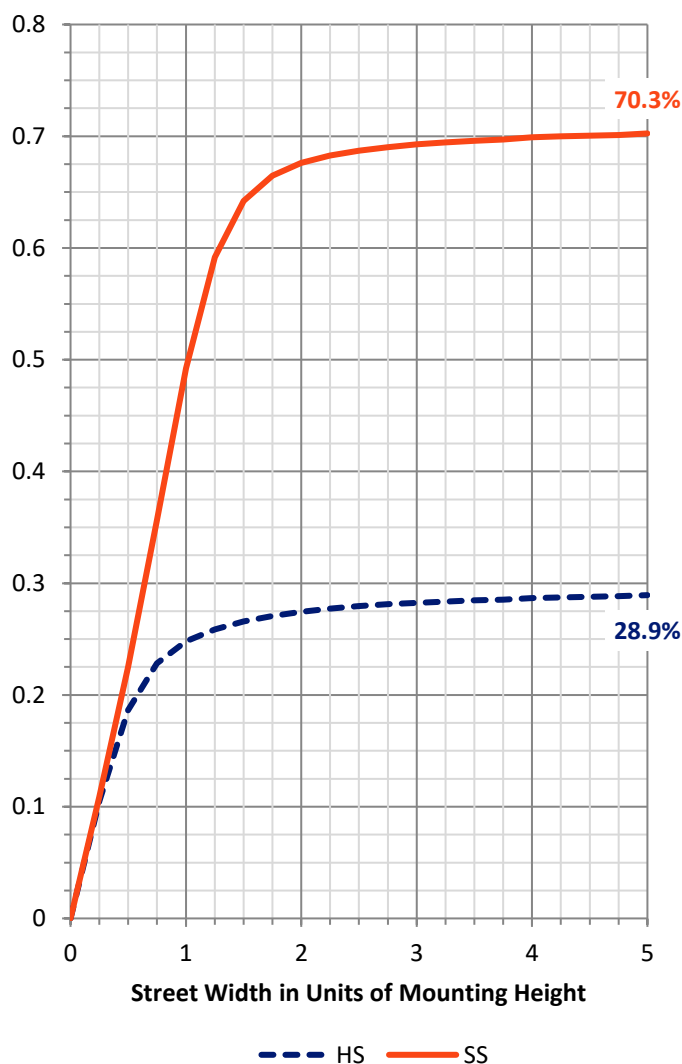
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8418.8	0.0	8418.8
	% Fixture	29.4	0.0	29.4
Street Side	Lumens	20220.2	0.0	20220.2
	% Fixture	70.6	0.0	70.6
Total	Lumens	28639.1	0.0	28639.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.7	1.1
10°-20°	1031.4	3.6
20°-30°	1936.1	6.8
30°-40°	3245.2	11.3
40°-50°	5444.7	19.0
50°-60°	6902.2	24.1
60°-70°	6088.8	21.3
70°-80°	3143.2	11.0
80°-90°	537.8	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°	28639.1	100.0
0°-180°	28639.1	100.0

Coefficient of Utilization

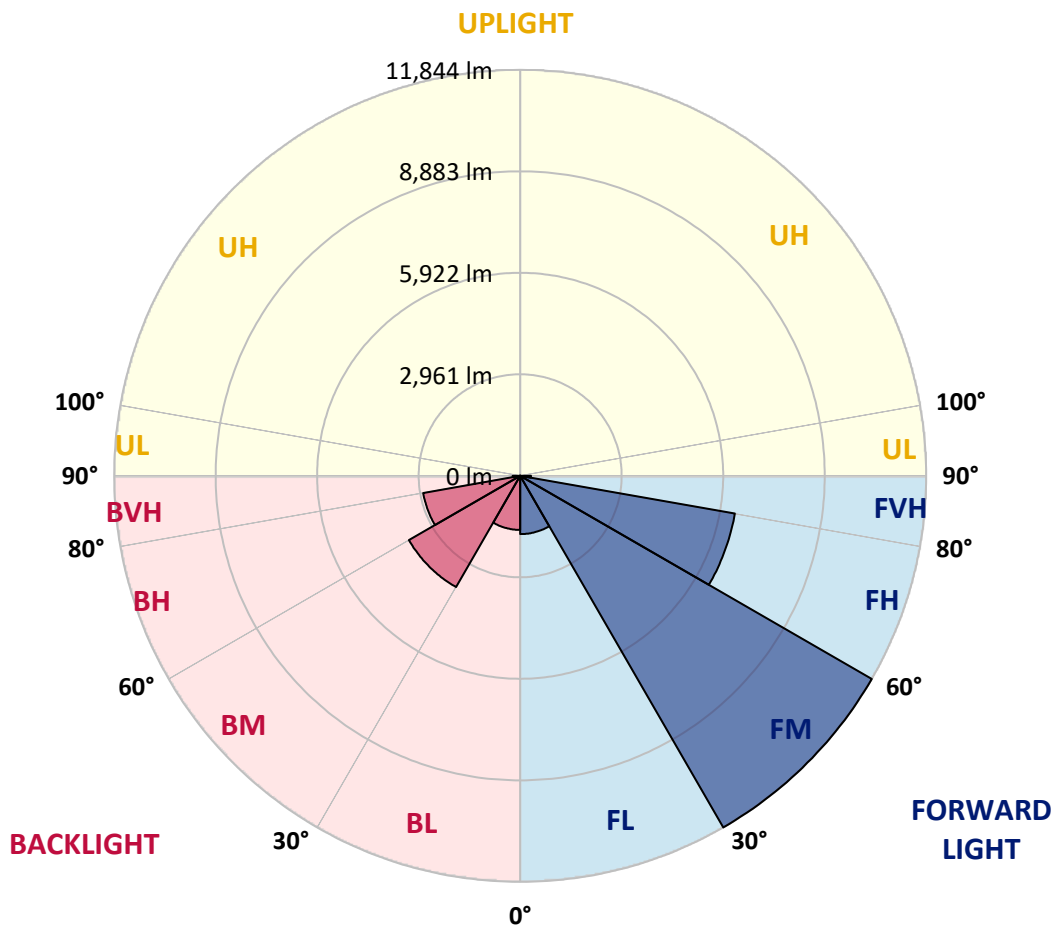


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1699.8	5.9			
FM (30°-60°)	11844.4	41.4			
FH (60°-80°)	6359.5	22.2			G3/7500
FVH (80°-90°)	316.5	1.1			G3/500
BL (0°-30°)	1577.4	5.5	B3/2500		
BM (30°-60°)	3747.7	13.1	B3/5000		
BH (60°-80°)	2872.5	10.0	B4/5000		G4/5000
BVH (80°-90°)	221.3	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°	3101.6	3101.6	3101.6	3101.6	3101.6	3101.6	3101.6	3101.6	3101.6	3101.6	3101.6
2.5°	3082.4	3077.7	3077.7	3077.7	3077.7	3072.8	3077.7	3087.2	3082.4	3077.7	3087.2
5°	3092.0	3087.2	3087.2	3087.2	3092.0	3087.2	3092.0	3106.3	3096.9	3096.9	3106.3
7.5°	3116.0	3111.1	3116.0	3111.1	3111.1	3111.1	3116.0	3130.4	3125.6	3130.4	3144.7
10°	3144.7	3144.7	3144.7	3144.7	3144.7	3144.7	3154.4	3163.9	3168.7	3173.6	3192.7
12.5°	3231.1	3231.1	3231.1	3226.2	3226.2	3211.9	3231.1	3240.6	3250.3	3259.7	3274.2
15°	3413.2	3413.2	3408.5	3389.2	3389.2	3360.5	3365.3	3370.1	3370.1	3379.6	3389.2
17.5°	3652.9	3648.0	3638.6	3624.1	3604.9	3571.3	3561.9	3552.2	3537.9	3533.0	3533.0
20°	3988.4	3983.7	3964.5	3926.1	3902.2	3849.4	3811.1	3772.7	3758.3	3734.4	3729.6
22.5°	4467.8	4467.8	4429.5	4372.0	4352.8	4242.5	4132.3	4050.8	4022.1	3988.4	3988.4
25°	5047.9	5043.1	4990.3	4923.2	4841.8	4726.7	4592.5	4482.3	4410.4	4333.7	4304.9
27.5°	5743.0	5728.6	5656.7	5575.2	5421.8	5278.0	5119.8	5004.7	4880.1	4784.3	4697.9
30°	6558.0	6543.5	6418.9	6265.5	6107.3	5963.5	5733.4	5594.4	5397.9	5282.8	5186.9
32.5°	7502.3	7488.0	7262.6	7114.0	6946.2	6768.8	6495.6	6275.1	6025.8	5862.9	5728.6
35°	8705.6	8648.1	8326.8	8120.7	7857.1	7679.8	7392.1	7094.9	6802.4	6572.3	6375.8
37.5°	10004.7	9937.5	9654.7	9347.9	9089.1	8873.4	8465.9	8092.0	7746.8	7430.4	7185.9
40°	11361.4	11184.0	10882.0	10656.6	10479.3	10273.1	9846.5	9453.4	8911.7	8556.9	8187.8
42.5°	12301.0	12128.4	11917.5	11768.8	11682.5	11524.3	11284.7	10944.3	10460.1	10469.7	9496.5
45°	12919.4	12665.3	12521.4	12531.1	12564.6	12564.6	12521.4	12468.6	12257.8	12401.6	11586.6
47.5°	12698.7	12531.1	12439.9	12631.7	12871.4	13111.1	13389.0	13691.2	14036.3	14443.7	13441.8
50°	11404.5	11466.8	11509.9	11917.5	12430.3	12976.8	13614.5	14438.9	15402.5	15589.4	15105.3
52.5°	9338.4	9472.6	9616.4	10239.6	10915.5	11859.9	12976.8	14338.3	15632.6	16394.8	16347.0
55°	7253.0	7420.8	7727.6	8192.6	8729.5	9621.2	11001.8	13101.5	15119.8	16332.5	17070.7
57.5°	5162.9	5407.5	5810.1	6457.2	6931.9	7435.2	8456.2	10786.1	12996.1	15253.9	16950.9
60°	3432.4	3547.4	3811.1	4616.4	5417.0	5944.4	6668.2	7511.9	9319.2	12430.3	15714.1
62.5°	2435.3	2512.0	2675.0	3039.3	3763.1	4717.2	5153.3	5541.6	6121.7	7996.0	12617.3
63°	2301.0	2368.2	2502.4	2809.2	3461.2	4448.7	4894.5	5249.3	5671.1	7152.3	11936.6
65°	1907.8	1936.7	2008.6	2157.3	2507.2	3327.0	4055.6	4271.3	4343.2	4597.3	7478.4
67.5°	1610.7	1629.9	1653.8	1697.1	1836.0	2214.8	3024.9	3298.1	3216.6	3044.1	3696.0
70°	1399.8	1414.2	1452.5	1505.3	1553.2	1649.0	2080.6	2488.0	2396.9	2162.0	2262.6
72.5°	1116.9	1140.8	1184.1	1275.2	1370.9	1495.6	1601.0	1855.2	1797.7	1572.4	1596.4
75°	882.0	896.5	934.8	1001.9	1093.0	1236.9	1443.0	1529.2	1370.9	1160.2	1160.2
77.5°	700.0	714.2	747.9	800.6	858.1	958.7	1102.5	1327.9	1232.0	872.4	867.6
80°	527.2	541.7	575.2	623.3	680.6	752.6	838.9	939.6	1131.4	815.0	651.9
82.5°	388.3	393.2	450.5	484.1	503.3	560.8	632.8	690.3	776.7	752.6	580.0
85°	292.4	287.7	326.0	349.9	354.8	369.1	412.2	469.9	508.2	488.9	450.5
87.5°	163.1	143.7	167.8	191.7	191.7	196.5	206.2	239.8	273.2	263.7	239.8
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):

	55°	60°	64°	65°	70°	75°	80°	85°	90°	95°	100°
0°	3101.6	3101.6	3101.6	3101.6	3101.6	3101.6	3101.6	3101.6	3101.6	3101.6	3101.6
2.5°	3087.2	3087.2	3082.4	3082.4	3087.2	3087.2	3082.4	3096.9	3106.3	3106.3	3111.1
5°	3101.6	3106.3	3101.6	3101.6	3106.3	3106.3	3111.1	3125.6	3139.9	3149.5	3163.9
7.5°	3144.7	3149.5	3144.7	3144.7	3149.5	3154.4	3163.9	3183.0	3192.7	3211.9	3235.8
10°	3192.7	3197.5	3192.7	3197.5	3202.3	3207.1	3221.4	3235.8	3250.3	3269.4	3307.8
12.5°	3279.0	3283.8	3274.2	3279.0	3293.4	3293.4	3302.9	3312.5	3336.4	3360.5	3398.8
15°	3398.8	3398.8	3389.2	3394.0	3408.5	3408.5	3413.2	3422.8	3451.5	3480.4	3518.7
17.5°	3537.9	3547.4	3542.6	3547.4	3557.1	3561.9	3561.9	3571.3	3590.6	3609.7	3648.0
20°	3724.7	3729.6	3720.0	3729.6	3739.2	3729.6	3720.0	3715.3	3724.7	3734.4	3777.5
22.5°	3978.9	3974.1	3950.0	3950.0	3950.0	3930.9	3907.0	3878.1	3878.1	3863.9	3897.4
25°	4280.9	4266.5	4232.9	4237.7	4204.2	4175.5	4132.3	4089.1	4050.8	4036.4	4041.2
27.5°	4635.7	4606.8	4573.3	4563.8	4530.1	4477.5	4405.6	4324.1	4261.6	4213.8	4204.2
30°	5081.4	5019.2	4961.6	4951.9	4899.3	4813.0	4697.9	4587.7	4482.3	4400.8	4372.0
32.5°	5608.8	5512.9	5421.8	5412.2	5326.0	5210.9	5071.9	4918.5	4765.1	4635.7	4573.3
35°	6227.1	6083.3	5997.0	5973.1	5848.4	5704.7	5551.3	5354.7	5139.0	4956.8	4841.8
37.5°	6979.8	6831.2	6682.7	6687.3	6514.8	6347.0	6140.9	5901.2	5628.0	5373.9	5210.9
40°	7909.9	7698.9	7507.1	7463.9	7315.4	7080.4	6855.2	6577.1	6241.6	5906.0	5671.1
42.5°	9036.3	8691.1	8427.5	8389.2	8192.6	7905.0	7631.8	7262.6	6922.2	6514.8	6231.9
45°	10316.3	9765.0	9448.6	9391.1	9074.6	8782.3	8451.5	8058.4	7641.4	7181.2	6845.5
47.5°	11907.8	11121.6	10584.7	10488.9	10052.6	9669.1	9323.9	8887.7	8389.2	7876.3	7507.1
50°	13763.1	12602.9	11879.1	11730.4	11145.6	10695.0	10254.0	9707.4	9175.4	8638.5	8211.8
52.5°	15623.0	14376.7	13413.1	13231.0	12368.0	11764.1	11184.0	10637.5	10009.5	9477.3	8993.2
55°	17118.7	16289.4	15172.4	14918.4	13681.6	12861.8	12099.6	11476.4	10853.2	10431.3	9860.8
57.5°	18019.9	17976.8	17094.7	16744.7	15052.5	13839.8	12991.3	12281.8	11677.7	11500.3	10742.9
60°	17996.0	19112.9	18734.2	18470.6	16437.9	14841.7	13739.1	12972.1	12473.5	12674.8	11629.8
62.5°	16898.1	19160.9	19616.3	19544.4	17914.4	15647.0	14352.7	13561.7	13298.1	13897.2	12550.2
63°	16500.4	19050.6	19654.6	19625.9	18197.3	15800.4	14458.2	13676.7	13461.1	14208.8	12718.0
65°	13945.2	18087.0	19189.6	19319.0	18806.1	16327.7	14702.6	13969.2	13945.2	14903.9	13115.9
67.5°	8499.4	15282.6	17094.7	17344.1	17948.0	16495.5	14563.6	13868.5	14213.6	15004.6	12996.1
70°	3633.8	10086.2	13739.1	14141.8	15618.3	15661.3	14165.7	13456.3	14151.4	14218.5	12142.7
72.5°	2152.4	4755.5	9352.7	10230.0	12358.5	13475.4	13254.9	12737.1	13331.6	12487.9	10340.3
75°	1524.3	2224.3	4750.7	5685.5	8604.9	10287.6	11136.0	11375.7	11351.7	9904.1	7761.2
77.5°	1093.0	1428.6	2003.9	2363.4	4803.4	6606.0	7641.4	8341.2	8115.9	6629.9	4784.3
80°	762.2	987.4	1227.2	1303.9	2229.1	3394.0	4026.7	4333.7	4199.4	3312.5	2142.8
82.5°	551.3	647.2	790.9	838.9	1121.8	1567.6	1864.8	1644.3	1577.1	1222.4	925.2
85°	426.6	417.1	493.8	513.0	656.7	819.8	838.9	651.9	570.5	508.2	517.8
87.5°	302.0	258.8	263.7	273.2	340.4	436.3	426.6	268.4	230.1	244.5	278.1
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°	3101.6	3101.6	3101.6	3101.6	3101.6	3101.6	3101.6	3101.6	3101.6	3101.6	3101.6
2.5°	3120.8	3125.6	3135.2	3139.9	3149.5	3149.5	3159.1	3163.9	3173.6	3183.0	3187.8
5°	3178.3	3192.7	3211.9	3221.4	3240.6	3255.1	3274.2	3283.8	3302.9	3317.3	3336.4
7.5°	3264.5	3288.6	3312.5	3341.2	3370.1	3394.0	3413.2	3437.2	3470.7	3494.6	3509.1
10°	3346.1	3379.6	3422.8	3456.3	3499.5	3533.0	3561.9	3604.9	3643.2	3676.9	3696.0
12.5°	3451.5	3494.6	3537.9	3590.6	3648.0	3691.3	3734.4	3792.0	3844.7	3883.0	3902.2
15°	3576.2	3628.9	3676.9	3739.2	3806.3	3863.9	3926.1	3988.4	4026.7	4026.7	4017.3
17.5°	3705.6	3748.8	3806.3	3878.1	3969.3	4041.2	4074.8	4084.3	4069.9	4036.4	4012.4
20°	3835.0	3873.3	3935.7	4022.1	4117.9	4132.3	4098.8	4055.6	4012.4	3954.8	3916.5
22.5°	3940.6	3993.2	4089.1	4189.8	4194.6	4113.1	4022.1	3950.0	3883.0	3815.9	3744.0
25°	4065.1	4137.1	4266.5	4304.9	4180.2	4026.7	3897.4	3792.0	3681.6	3571.3	3489.8
27.5°	4218.5	4324.1	4453.4	4343.2	4098.8	3883.0	3705.6	3547.4	3403.7	3250.3	3159.1
30°	4381.6	4544.5	4573.3	4285.7	3959.7	3681.6	3442.0	3202.3	3020.2	2881.0	2828.4
32.5°	4578.1	4789.1	4616.4	4184.9	3772.7	3408.5	3087.2	2799.5	2646.2	2560.0	2535.9
35°	4875.2	5047.9	4640.5	4079.5	3557.1	3082.4	2679.7	2449.6	2353.8	2296.2	2267.4
37.5°	5302.0	5297.1	4635.7	3950.0	3307.8	2727.6	2353.8	2190.7	2114.0	2066.1	2013.4
40°	5800.5	5488.9	4606.8	3763.1	2972.2	2387.4	2128.5	1975.1	1903.2	1845.6	1783.3
42.5°	6294.3	5618.3	4525.4	3485.2	2555.1	2142.8	1965.5	1826.5	1749.8	1687.4	1601.0
45°	6721.0	5671.1	4367.2	3101.6	2181.2	1951.1	1860.0	1740.2	1649.0	1553.2	1486.0
47.5°	7056.5	5661.5	4113.1	2650.9	1931.9	1816.9	1773.8	1692.2	1582.0	1462.1	1375.8
50°	7339.3	5589.6	3768.0	2253.2	1764.1	1697.1	1682.6	1658.7	1481.3	1380.6	1327.9
52.5°	7598.2	5484.2	3398.8	1984.5	1620.4	1562.7	1591.6	1567.6	1443.0	1356.7	1303.9
55°	7953.0	5412.2	3034.4	1778.5	1452.5	1438.2	1462.1	1495.6	1419.0	1337.5	1280.0
57.5°	8370.1	5450.6	2756.4	1548.4	1294.2	1303.9	1385.4	1433.4	1395.0	1308.7	1251.2
60°	8849.4	5565.6	2512.0	1327.9	1164.9	1188.8	1308.7	1375.8	1370.9	1270.3	1203.3
62.5°	9386.3	5685.5	2123.7	1160.2	1054.7	1093.0	1217.5	1303.9	1318.3	1232.0	1150.5
63°	9491.8	5695.0	2022.9	1126.6	1035.4	1078.6	1193.6	1284.8	1303.9	1222.4	1140.8
65°	9750.7	5608.8	1629.9	1035.4	958.7	1006.8	1121.8	1203.3	1241.6	1169.7	1102.5
67.5°	9534.8	4904.1	1227.2	925.2	896.5	930.1	1030.7	1107.4	1140.8	1107.4	1040.2
70°	8720.0	3566.6	958.7	824.6	829.3	853.4	930.1	1001.9	1040.2	1030.7	968.4
72.5°	7022.9	2022.9	800.6	738.3	752.6	781.4	834.0	901.3	934.8	930.1	886.8
75°	4626.0	1035.4	675.9	661.6	671.2	695.1	733.4	786.2	824.6	819.8	800.6
77.5°	2291.5	719.0	580.0	584.9	589.7	608.8	637.5	685.5	709.5	714.2	709.5
80°	944.3	560.8	498.6	503.3	508.2	522.5	541.7	584.9	599.2	608.8	613.6
82.5°	565.6	426.6	397.9	407.4	412.2	426.6	441.1	479.4	493.8	508.2	508.2
85°	373.8	297.1	287.7	297.1	306.8	316.5	321.2	345.2	369.1	388.3	397.9
87.5°	201.4	177.3	172.6	177.3	177.3	187.0	196.5	220.4	249.3	268.4	278.1
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°	3101.6	3101.6	3101.6	3101.6	3101.6
2.5°	3178.3	3183.0	3178.3	3183.0	3187.8
5°	3336.4	3346.1	3341.2	3341.2	3360.5
7.5°	3518.7	3537.9	3537.9	3547.4	3557.1
10°	3715.3	3734.4	3748.8	3748.8	3763.1
12.5°	3911.7	3921.4	3935.7	3935.7	3935.7
15°	4012.4	4007.6	4002.8	3998.1	3998.1
17.5°	3998.1	3978.9	3969.3	3959.7	3964.5
20°	3892.6	3859.0	3849.4	3835.0	3844.7
22.5°	3710.5	3662.5	3643.2	3619.3	3628.9
25°	3437.2	3379.6	3370.1	3341.2	3355.7
27.5°	3120.8	3092.0	3087.2	3082.4	3106.3
30°	2823.6	2833.1	2837.9	2847.6	2871.5
32.5°	2550.3	2569.4	2574.2	2579.1	2612.6
35°	2281.9	2257.9	2281.9	2272.3	2301.0
37.5°	1989.4	1970.3	1951.1	1927.2	1946.2
40°	1745.0	1711.4	1653.8	1625.1	1629.9
42.5°	1553.2	1510.1	1462.1	1433.4	1433.4
45°	1428.6	1375.8	1332.6	1313.6	1313.6
47.5°	1332.6	1308.7	1284.8	1270.3	1270.3
50°	1294.2	1265.5	1251.2	1241.6	1241.6
52.5°	1265.5	1236.9	1222.4	1212.9	1203.3
55°	1241.6	1198.5	1184.1	1179.2	1179.2
57.5°	1208.1	1169.7	1150.5	1145.7	1145.7
60°	1155.3	1126.6	1107.4	1102.5	1102.5
62.5°	1102.5	1073.8	1054.7	1054.7	1054.7
63°	1093.0	1059.4	1045.1	1045.1	1045.1
65°	1049.9	1016.3	1001.9	1001.9	997.1
67.5°	992.3	958.7	949.1	949.1	939.6
70°	925.2	896.5	886.8	891.7	872.4
72.5°	858.1	829.3	815.0	815.0	795.7
75°	781.4	752.6	733.4	728.6	709.5
77.5°	695.1	671.2	651.9	632.8	623.3
80°	603.9	584.9	560.8	546.6	532.1
82.5°	508.2	488.9	474.6	493.8	421.8
85°	397.9	378.7	359.6	388.3	302.0
87.5°	292.4	282.9	263.7	230.1	201.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)