

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: P257962

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257962
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-616-1)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-260-D-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 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: 29482.5 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G4

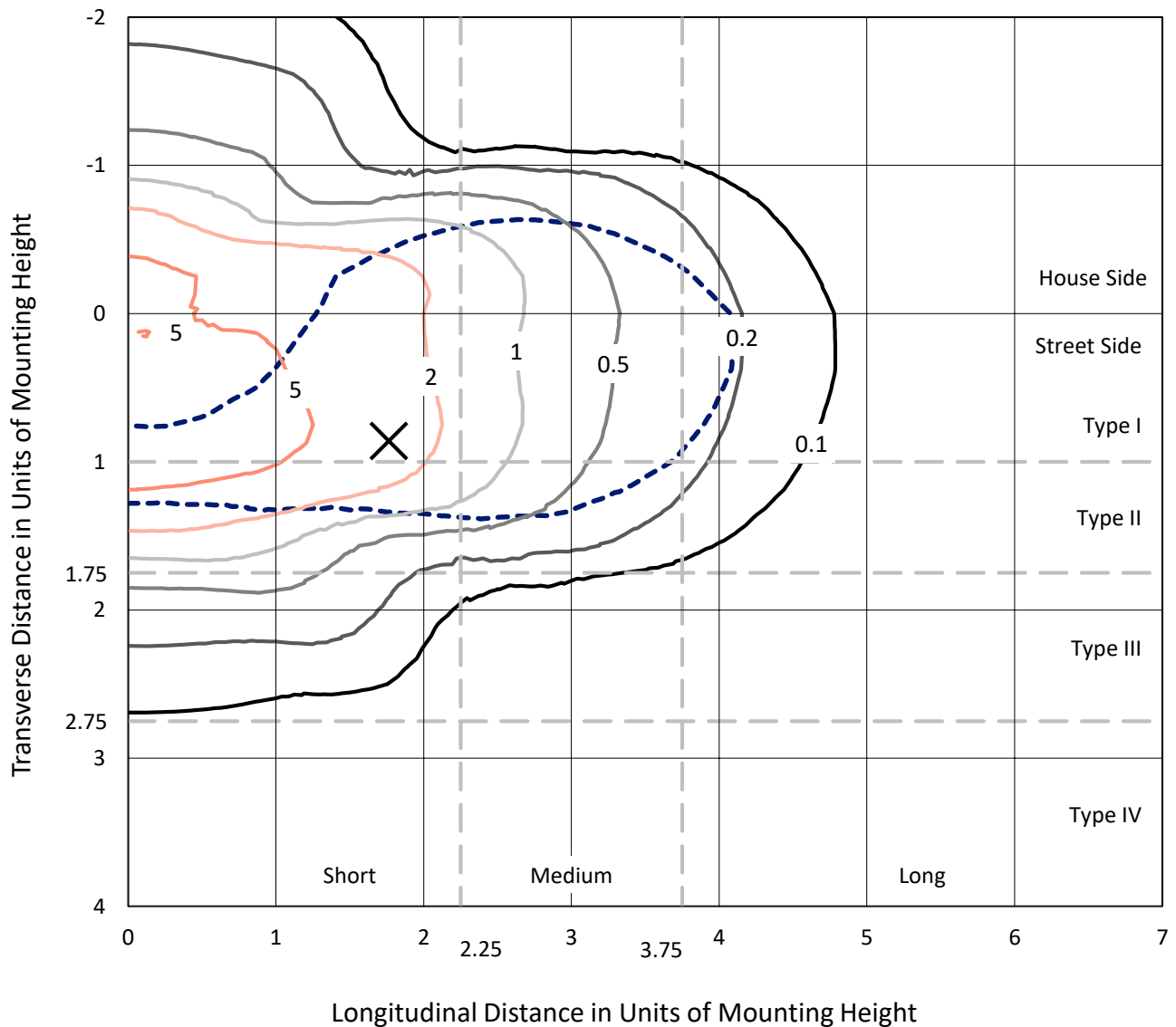
Input Watts (W): 261
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

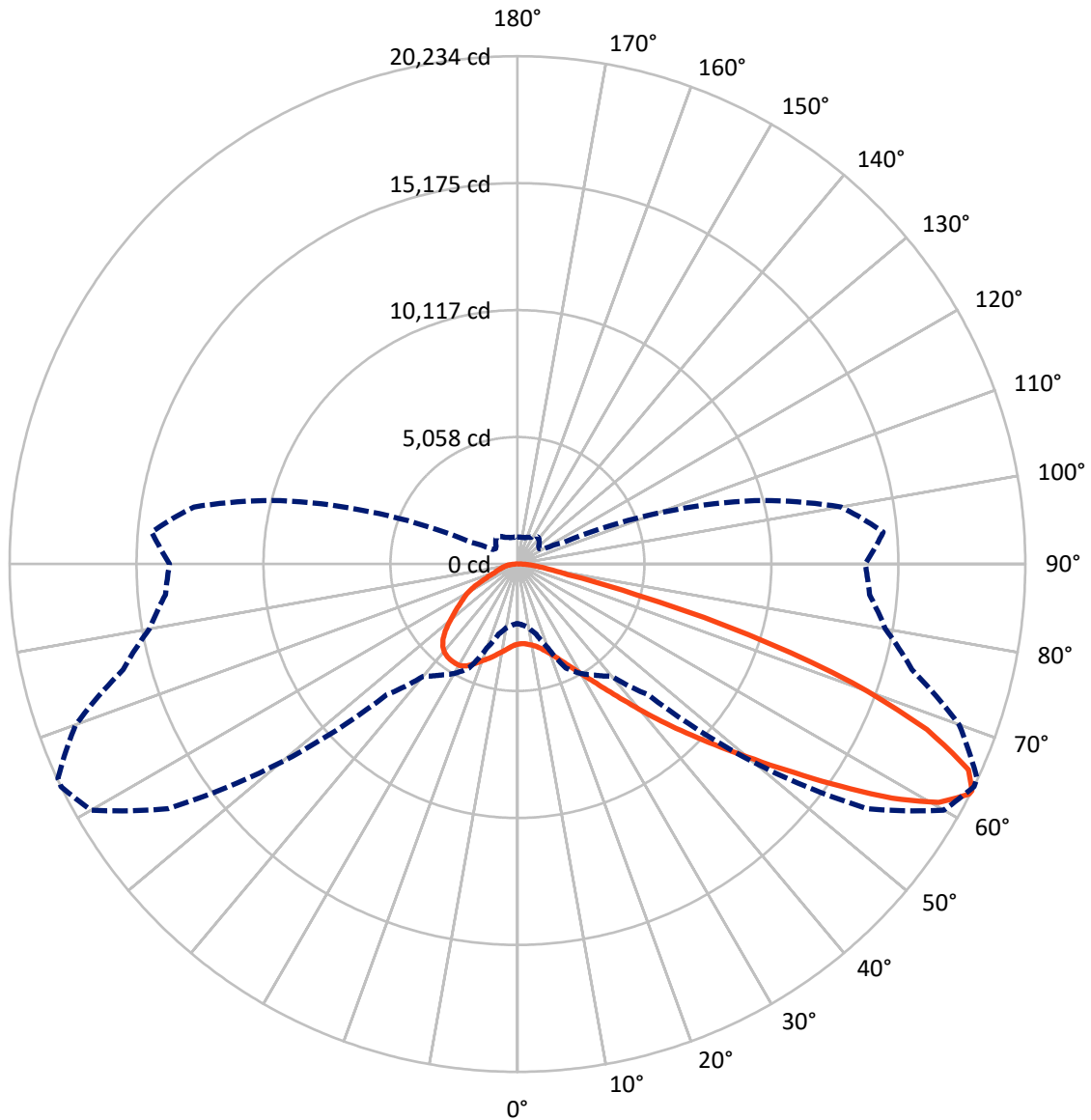
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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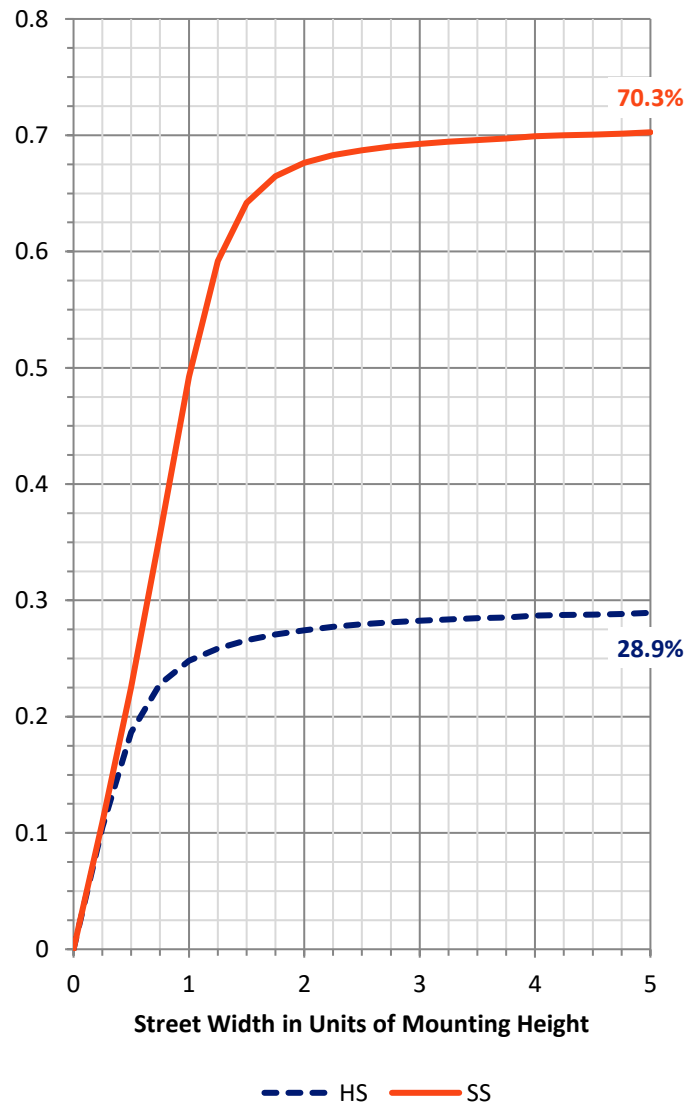
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8666.8	0.0	8666.8
	% Fixture	29.4	0.0	29.4
Street Side	Lumens	20815.7	0.0	20815.7
	% Fixture	70.6	0.0	70.6
Total	Lumens	29482.5	0.0	29482.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.8	1.1
10°-20°	1061.8	3.6
20°-30°	1993.2	6.8
30°-40°	3340.7	11.3
40°-50°	5605.0	19.0
50°-60°	7105.5	24.1
60°-70°	6268.1	21.3
70°-80°	3235.7	11.0
80°-90°	553.7	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°	29482.5	100.0
0°-180°	29482.5	100.0



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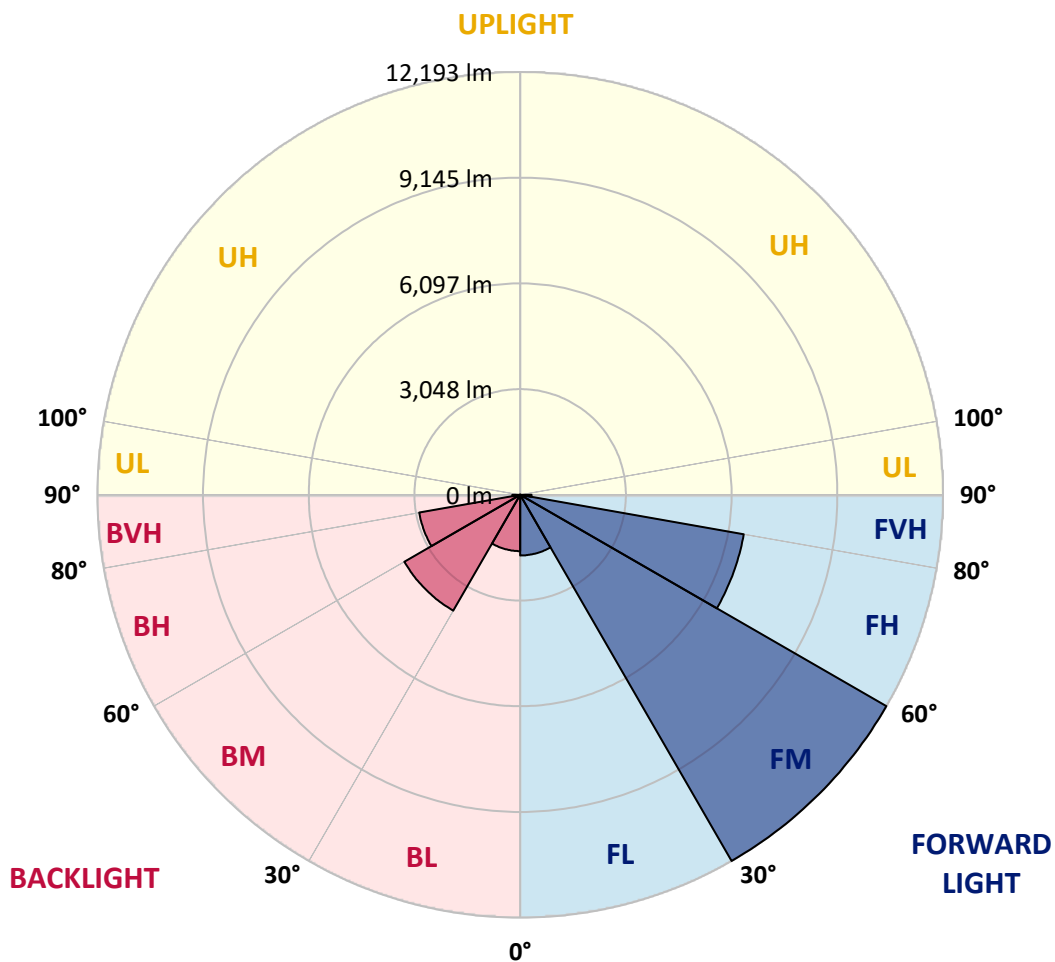
CATALOG NUMBER: ARCH-L-AF72-260-D-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1749.9	5.9			
FM	(30°-60°)	12193.2	41.4			
FH	(60°-80°)	6546.8	22.2			G3/7500
FVH	(80°-90°)	325.8	1.1			G3/500
BL	(0°-30°)	1623.9	5.5	B3/2500		
BM	(30°-60°)	3858.0	13.1	B3/5000		
BH	(60°-80°)	2957.0	10.0	B4/5000		G4/5000
BVH	(80°-90°)	227.8	0.8			G3/500
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°	3192.9	3192.9	3192.9	3192.9	3192.9	3192.9	3192.9	3192.9	3192.9	3192.9	3192.9
2.5°	3173.2	3168.3	3168.3	3168.3	3168.3	3163.4	3168.3	3178.1	3173.2	3168.3	3178.1
5°	3183.1	3178.1	3178.1	3178.1	3183.1	3178.1	3183.1	3197.8	3188.0	3188.0	3197.8
7.5°	3207.8	3202.9	3207.8	3202.9	3202.9	3202.9	3207.8	3222.5	3217.6	3222.5	3237.3
10°	3237.3	3237.3	3237.3	3237.3	3237.3	3237.3	3247.3	3257.1	3262.0	3267.0	3286.7
12.5°	3326.2	3326.2	3326.2	3321.2	3321.2	3306.5	3326.2	3336.0	3346.0	3355.8	3370.6
15°	3513.7	3513.7	3508.8	3489.1	3489.1	3459.4	3464.3	3469.3	3469.3	3479.2	3489.1
17.5°	3760.5	3755.6	3745.6	3730.8	3711.2	3676.6	3666.7	3656.8	3642.0	3637.1	3637.1
20°	4105.9	4101.0	4081.3	4041.8	4017.1	3962.8	3923.3	3883.8	3869.0	3844.4	3839.4
22.5°	4599.4	4599.4	4559.9	4500.7	4480.9	4367.5	4253.9	4170.1	4140.5	4105.9	4105.9
25°	5196.6	5191.6	5137.4	5068.2	4984.3	4865.9	4727.7	4614.2	4540.2	4461.2	4431.6
27.5°	5912.1	5897.3	5823.2	5739.4	5581.4	5433.4	5270.5	5152.1	5023.8	4925.1	4836.3
30°	6751.1	6736.2	6608.0	6450.0	6287.2	6139.1	5902.2	5759.1	5556.8	5438.3	5339.7
32.5°	7723.3	7708.4	7476.5	7323.5	7150.8	6968.2	6686.9	6459.9	6203.3	6035.5	5897.3
35°	8962.0	8902.7	8572.1	8359.9	8088.5	7905.9	7609.7	7303.8	7002.7	6765.9	6563.6
37.5°	10299.4	10230.2	9939.1	9623.2	9356.7	9134.6	8715.2	8330.3	7974.9	7649.2	7397.6
40°	11695.9	11513.3	11202.4	10970.5	10787.9	10575.7	10136.4	9731.8	9174.1	8808.9	8429.0
42.5°	12663.2	12485.5	12268.4	12115.4	12026.5	11863.7	11616.9	11266.6	10768.2	10778.0	9776.2
45°	13299.8	13038.2	12890.2	12900.0	12934.6	12934.6	12890.2	12835.9	12618.8	12766.8	11927.9
47.5°	13072.8	12900.0	12806.3	13003.6	13250.5	13497.2	13783.4	14094.3	14449.7	14869.1	13837.8
50°	11740.3	11804.5	11848.9	12268.4	12796.4	13359.0	14015.3	14864.2	15856.1	16048.6	15550.2
52.5°	9613.4	9751.6	9899.6	10541.1	11237.0	12209.1	13359.0	14760.6	16093.0	16877.7	16828.4
55°	7466.6	7639.4	7955.2	8433.9	8986.6	9904.5	11325.8	13487.3	15564.9	16813.5	17573.5
57.5°	5314.9	5566.7	5981.2	6647.4	7136.0	7654.1	8705.3	11103.7	13378.8	15703.1	17450.1
60°	3533.5	3651.9	3923.3	4752.4	5576.5	6119.4	6864.6	7733.1	9593.6	12796.4	16176.9
62.5°	2506.9	2585.9	2753.7	3128.8	3874.0	4856.0	5305.1	5704.9	6302.0	8231.6	12988.9
63°	2368.7	2437.9	2576.1	2891.9	3563.0	4579.6	5038.6	5403.8	5838.1	7363.0	12288.1
65°	1964.2	1993.7	2067.8	2220.7	2581.0	3424.8	4175.0	4397.1	4471.1	4732.7	7698.6
67.5°	1658.2	1677.9	1702.6	1747.0	1890.1	2280.0	3114.0	3395.3	3311.4	3133.7	3804.9
70°	1441.0	1455.9	1495.3	1549.6	1599.0	1697.6	2141.8	2561.3	2467.5	2225.6	2329.4
72.5°	1149.9	1174.6	1218.9	1312.8	1411.4	1539.7	1648.3	1909.8	1850.6	1618.7	1643.4
75°	908.1	922.8	962.3	1031.4	1125.1	1273.3	1485.4	1574.2	1411.4	1194.3	1194.3
77.5°	720.5	735.3	769.9	824.2	883.3	987.0	1135.1	1367.0	1268.3	898.2	893.2
80°	542.9	557.6	592.2	641.6	700.7	774.8	863.6	967.3	1164.6	838.9	671.2
82.5°	399.8	404.7	463.9	498.5	518.1	577.4	651.4	710.6	799.4	774.8	597.1
85°	301.1	296.1	335.6	360.3	365.2	380.0	424.4	483.7	523.1	503.4	463.9
87.5°	167.8	148.0	172.7	197.4	197.4	202.3	212.2	246.7	281.3	271.4	246.7
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°	3192.9	3192.9	3192.9	3192.9	3192.9	3192.9	3192.9	3192.9	3192.9	3192.9	3192.9
2.5°	3178.1	3178.1	3173.2	3173.2	3178.1	3178.1	3173.2	3188.0	3197.8	3197.8	3202.9
5°	3192.9	3197.8	3192.9	3192.9	3197.8	3197.8	3202.9	3217.6	3232.4	3242.2	3257.1
7.5°	3237.3	3242.2	3237.3	3237.3	3242.2	3247.3	3257.1	3276.8	3286.7	3306.5	3331.1
10°	3286.7	3291.7	3286.7	3291.7	3296.6	3301.5	3316.3	3331.1	3346.0	3365.7	3405.1
12.5°	3375.5	3380.4	3370.6	3375.5	3390.4	3390.4	3400.2	3410.1	3434.8	3459.4	3498.9
15°	3498.9	3498.9	3489.1	3494.0	3508.8	3508.8	3513.7	3523.6	3553.2	3582.8	3622.3
17.5°	3642.0	3651.9	3646.9	3651.9	3661.8	3666.7	3666.7	3676.6	3696.3	3716.1	3755.6
20°	3834.5	3839.4	3829.5	3839.4	3849.3	3839.4	3829.5	3824.6	3834.5	3844.4	3888.7
22.5°	4096.0	4091.1	4066.4	4066.4	4066.4	4046.7	4022.0	3992.4	3992.4	3977.6	4012.1
25°	4407.0	4392.1	4357.6	4362.6	4328.0	4298.3	4253.9	4209.5	4170.1	4155.2	4160.2
27.5°	4772.2	4742.5	4708.0	4698.1	4663.5	4609.3	4535.3	4451.4	4387.2	4337.8	4328.0
30°	5231.1	5166.9	5107.7	5097.9	5043.6	4954.8	4836.3	4722.8	4614.2	4530.3	4500.7
32.5°	5773.9	5675.2	5581.4	5571.6	5482.8	5364.4	5221.2	5063.3	4905.4	4772.2	4708.0
35°	6410.5	6262.5	6173.7	6149.0	6020.7	5872.7	5714.7	5512.4	5290.3	5102.8	4984.3
37.5°	7185.3	7032.4	6879.3	6884.4	6706.7	6533.9	6321.7	6075.0	5793.7	5532.1	5364.4
40°	8142.7	7925.6	7728.2	7683.8	7530.8	7288.9	7057.0	6770.8	6425.4	6079.9	5838.1
42.5°	9302.4	8947.1	8675.7	8636.3	8433.9	8137.8	7856.5	7476.5	7126.1	6706.7	6415.5
45°	10620.1	10052.5	9726.8	9667.6	9341.9	9040.9	8700.4	8295.7	7866.4	7392.7	7047.2
47.5°	12258.5	11449.2	10896.5	10797.8	10348.7	9953.9	9598.6	9149.5	8636.3	8108.2	7728.2
50°	14168.4	12974.1	12228.9	12075.9	11473.8	11009.9	10555.9	9993.3	9445.6	8892.8	8453.7
52.5°	16083.1	14800.1	13808.1	13620.6	12732.3	12110.5	11513.3	10950.8	10304.3	9756.5	9258.0
55°	17622.9	16769.1	15619.2	15357.7	14084.5	13240.6	12456.0	11814.4	11172.8	10738.5	10151.3
57.5°	18550.6	18506.2	17598.1	17237.9	15495.9	14247.4	13373.9	12643.5	12021.6	11839.0	11059.3
60°	18525.9	19675.8	19285.9	19014.5	16922.1	15278.7	14143.7	13354.1	12840.8	13048.1	11972.3
62.5°	17395.8	19725.2	20194.0	20119.9	18442.1	16107.8	14775.4	13961.1	13689.6	14306.6	12919.8
63°	16986.2	19611.6	20233.5	20203.9	18733.2	16265.7	14883.9	14079.5	13857.4	14627.3	13092.5
65°	14355.9	18619.8	19754.7	19888.0	19360.0	16808.6	15135.6	14380.5	14355.9	15342.9	13502.1
67.5°	8749.7	15732.8	17598.1	17854.8	18476.6	16981.3	14992.5	14276.9	14632.3	15446.6	13378.8
70°	3740.7	10383.3	14143.7	14558.2	16078.2	16122.6	14582.9	13852.5	14568.0	14637.2	12500.4
72.5°	2215.8	4895.5	9628.1	10531.3	12722.4	13872.2	13645.2	13112.3	13724.2	12855.6	10644.7
75°	1569.3	2289.9	4890.6	5852.9	8858.3	10590.5	11464.0	11710.7	11686.1	10195.6	7989.8
77.5°	1125.1	1470.6	2062.8	2433.0	4944.8	6800.4	7866.4	8586.9	8355.0	6825.1	4925.1
80°	784.7	1016.6	1263.3	1342.3	2294.8	3494.0	4145.4	4461.2	4323.1	3410.1	2205.9
82.5°	567.5	666.2	814.3	863.6	1154.8	1613.7	1919.7	1692.7	1623.6	1258.4	952.5
85°	439.3	429.3	508.3	528.0	676.1	843.9	863.6	671.2	587.3	523.1	533.0
87.5°	310.9	266.5	271.4	281.3	350.4	449.1	439.3	276.4	236.9	251.6	286.2
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°	3192.9	3192.9	3192.9	3192.9	3192.9	3192.9	3192.9	3192.9	3192.9	3192.9	3192.9
2.5°	3212.7	3217.6	3227.5	3232.4	3242.2	3242.2	3252.2	3257.1	3267.0	3276.8	3281.7
5°	3271.9	3286.7	3306.5	3316.3	3336.0	3350.9	3370.6	3380.4	3400.2	3415.0	3434.8
7.5°	3360.7	3385.4	3410.1	3439.7	3469.3	3494.0	3513.7	3538.4	3573.0	3597.6	3612.4
10°	3444.6	3479.2	3523.6	3558.1	3602.5	3637.1	3666.7	3711.2	3750.5	3785.1	3804.9
12.5°	3553.2	3597.6	3642.0	3696.3	3755.6	3800.0	3844.4	3903.6	3957.9	3997.4	4017.1
15°	3681.5	3735.8	3785.1	3849.3	3918.4	3977.6	4041.8	4105.9	4145.4	4145.4	4135.5
17.5°	3814.8	3859.2	3918.4	3992.4	4086.2	4160.2	4194.7	4204.6	4189.8	4155.2	4130.6
20°	3948.0	3987.5	4051.6	4140.5	4239.1	4253.9	4219.5	4175.0	4130.6	4071.3	4031.9
22.5°	4056.5	4110.8	4209.5	4313.2	4318.1	4234.2	4140.5	4066.4	3997.4	3928.2	3854.3
25°	4184.9	4258.9	4392.1	4431.6	4303.3	4145.4	4012.1	3903.6	3790.0	3676.6	3592.7
27.5°	4342.8	4451.4	4584.6	4471.1	4219.5	3997.4	3814.8	3651.9	3503.8	3346.0	3252.2
30°	4510.6	4678.4	4708.0	4411.9	4076.3	3790.0	3543.3	3296.6	3109.1	2965.9	2911.6
32.5°	4712.9	4930.0	4752.4	4308.3	3883.8	3508.8	3178.1	2882.1	2724.1	2635.3	2610.6
35°	5018.9	5196.6	4777.1	4199.7	3661.8	3173.2	2758.7	2521.8	2423.1	2363.8	2334.3
37.5°	5458.1	5453.1	4772.2	4066.4	3405.1	2808.0	2423.1	2255.3	2176.3	2127.0	2072.7
40°	5971.4	5650.6	4742.5	3874.0	3059.6	2457.6	2191.2	2033.2	1959.2	1899.9	1835.8
42.5°	6479.7	5783.8	4658.6	3587.7	2630.3	2205.9	2023.4	1880.2	1801.3	1737.1	1648.3
45°	6918.8	5838.1	4495.8	3192.9	2245.4	2008.6	1914.8	1791.4	1697.6	1599.0	1529.8
47.5°	7264.3	5828.3	4234.2	2729.0	1988.8	1870.4	1826.0	1742.1	1628.5	1505.2	1416.4
50°	7555.5	5754.2	3878.9	2319.4	1816.0	1747.0	1732.2	1707.5	1524.9	1421.3	1367.0
52.5°	7822.0	5645.7	3498.9	2043.0	1668.0	1608.8	1638.5	1613.7	1485.4	1396.6	1342.3
55°	8187.2	5571.6	3123.9	1830.9	1495.3	1480.5	1505.2	1539.7	1460.8	1376.9	1317.7
57.5°	8616.5	5611.1	2837.7	1594.0	1332.5	1342.3	1426.2	1475.6	1436.1	1347.2	1288.0
60°	9110.0	5729.5	2585.9	1367.0	1199.2	1223.9	1347.2	1416.4	1411.4	1307.7	1238.7
62.5°	9662.7	5852.9	2186.3	1194.3	1085.7	1125.1	1253.5	1342.3	1357.1	1268.3	1184.4
63°	9771.3	5862.7	2082.5	1159.7	1065.9	1110.4	1228.8	1322.6	1342.3	1258.4	1174.6
65°	10037.8	5773.9	1677.9	1065.9	987.0	1036.4	1154.8	1238.7	1278.2	1204.1	1135.1
67.5°	9815.7	5048.5	1263.3	952.5	922.8	957.4	1061.0	1140.0	1174.6	1140.0	1070.9
70°	8976.7	3671.7	987.0	848.8	853.8	878.4	957.4	1031.4	1070.9	1061.0	996.9
72.5°	7229.8	2082.5	824.2	760.0	774.8	804.4	858.7	927.8	962.3	957.4	913.0
75°	4762.2	1065.9	695.8	681.0	690.9	715.6	755.0	809.4	848.8	843.9	824.2
77.5°	2358.9	740.2	597.1	602.1	607.0	626.8	656.3	705.7	730.4	735.3	730.4
80°	972.2	577.4	513.2	518.1	523.1	537.9	557.6	602.1	616.8	626.8	631.7
82.5°	582.4	439.3	409.6	419.5	424.4	439.3	454.0	493.5	508.3	523.1	523.1
85°	384.9	306.0	296.1	306.0	315.9	325.7	330.6	355.3	380.0	399.8	409.6
87.5°	207.2	182.6	177.7	182.6	182.6	192.4	202.3	227.0	256.7	276.4	286.2
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):

	160°	165°	170°	175°	180°
0°	3192.9	3192.9	3192.9	3192.9	3192.9
2.5°	3271.9	3276.8	3271.9	3276.8	3281.7
5°	3434.8	3444.6	3439.7	3439.7	3459.4
7.5°	3622.3	3642.0	3642.0	3651.9	3661.8
10°	3824.6	3844.4	3859.2	3859.2	3874.0
12.5°	4026.9	4036.9	4051.6	4051.6	4051.6
15°	4130.6	4125.7	4120.8	4115.7	4115.7
17.5°	4115.7	4096.0	4086.2	4076.3	4081.3
20°	4007.2	3972.6	3962.8	3948.0	3957.9
22.5°	3819.7	3770.3	3750.5	3725.9	3735.8
25°	3538.4	3479.2	3469.3	3439.7	3454.5
27.5°	3212.7	3183.1	3178.1	3173.2	3197.8
30°	2906.7	2916.5	2921.5	2931.4	2956.0
32.5°	2625.4	2645.1	2650.1	2655.1	2689.5
35°	2349.1	2324.3	2349.1	2339.2	2368.7
37.5°	2048.0	2028.3	2008.6	1983.9	2003.7
40°	1796.3	1761.8	1702.6	1672.9	1677.9
42.5°	1599.0	1554.5	1505.2	1475.6	1475.6
45°	1470.6	1416.4	1371.9	1352.1	1352.1
47.5°	1371.9	1347.2	1322.6	1307.7	1307.7
50°	1332.5	1302.8	1288.0	1278.2	1278.2
52.5°	1302.8	1273.3	1258.4	1248.5	1238.7
55°	1278.2	1233.8	1218.9	1214.0	1214.0
57.5°	1243.6	1204.1	1184.4	1179.5	1179.5
60°	1189.3	1159.7	1140.0	1135.1	1135.1
62.5°	1135.1	1105.4	1085.7	1085.7	1085.7
63°	1125.1	1090.7	1075.8	1075.8	1075.8
65°	1080.7	1046.2	1031.4	1031.4	1026.4
67.5°	1021.5	987.0	977.1	977.1	967.3
70°	952.5	922.8	913.0	917.9	898.2
72.5°	883.3	853.8	838.9	838.9	819.2
75°	804.4	774.8	755.0	750.1	730.4
77.5°	715.6	690.9	671.2	651.4	641.6
80°	621.9	602.1	577.4	562.6	547.8
82.5°	523.1	503.4	488.6	508.3	434.2
85°	409.6	389.8	370.1	399.8	310.9
87.5°	301.1	291.1	271.4	236.9	207.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)