

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: P200184

Luminaire Tested: **GAP-AF-02-LED-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200184
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24657)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAP-AF-02-LED-U-T2R
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13239 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 113
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

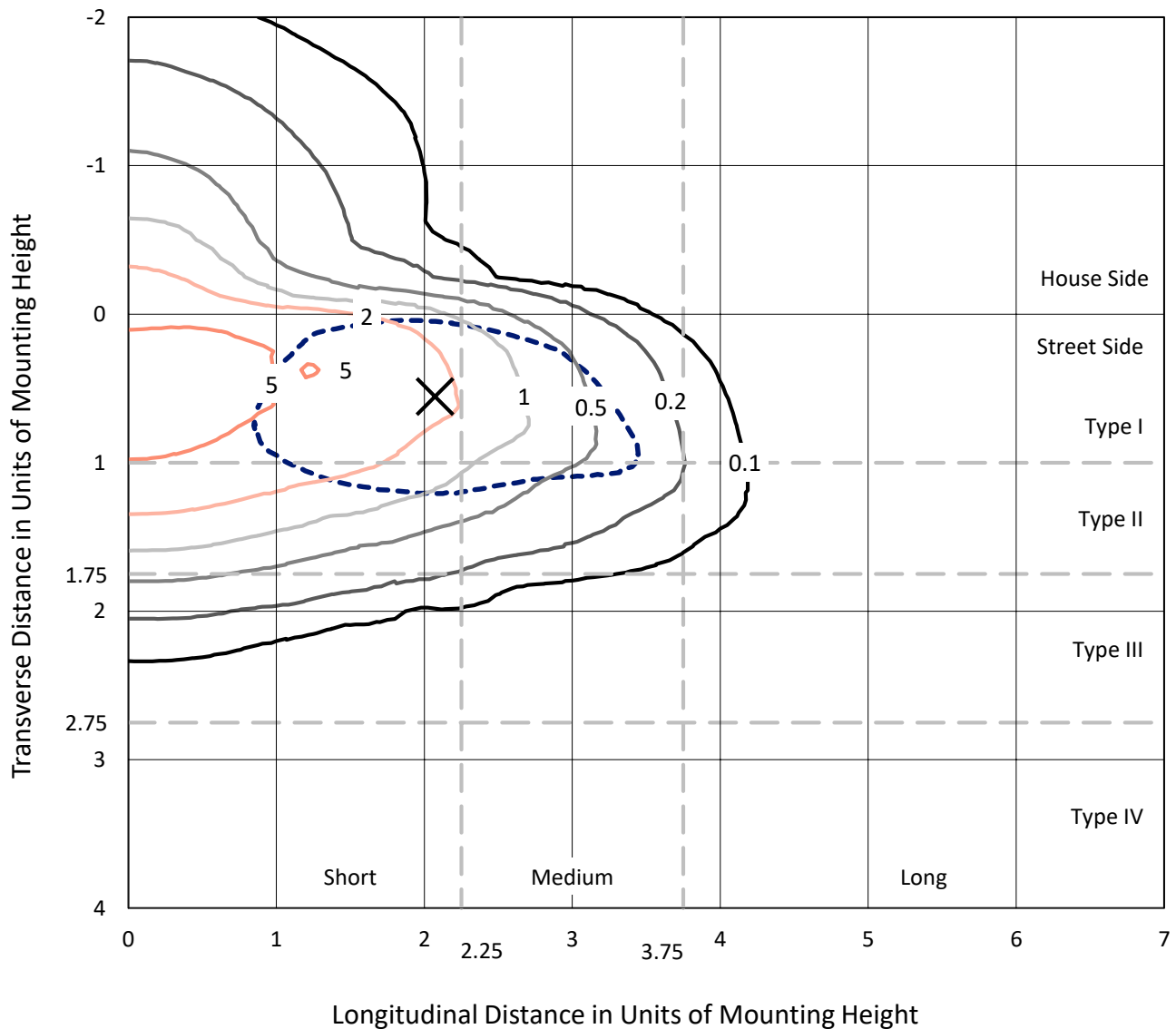


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

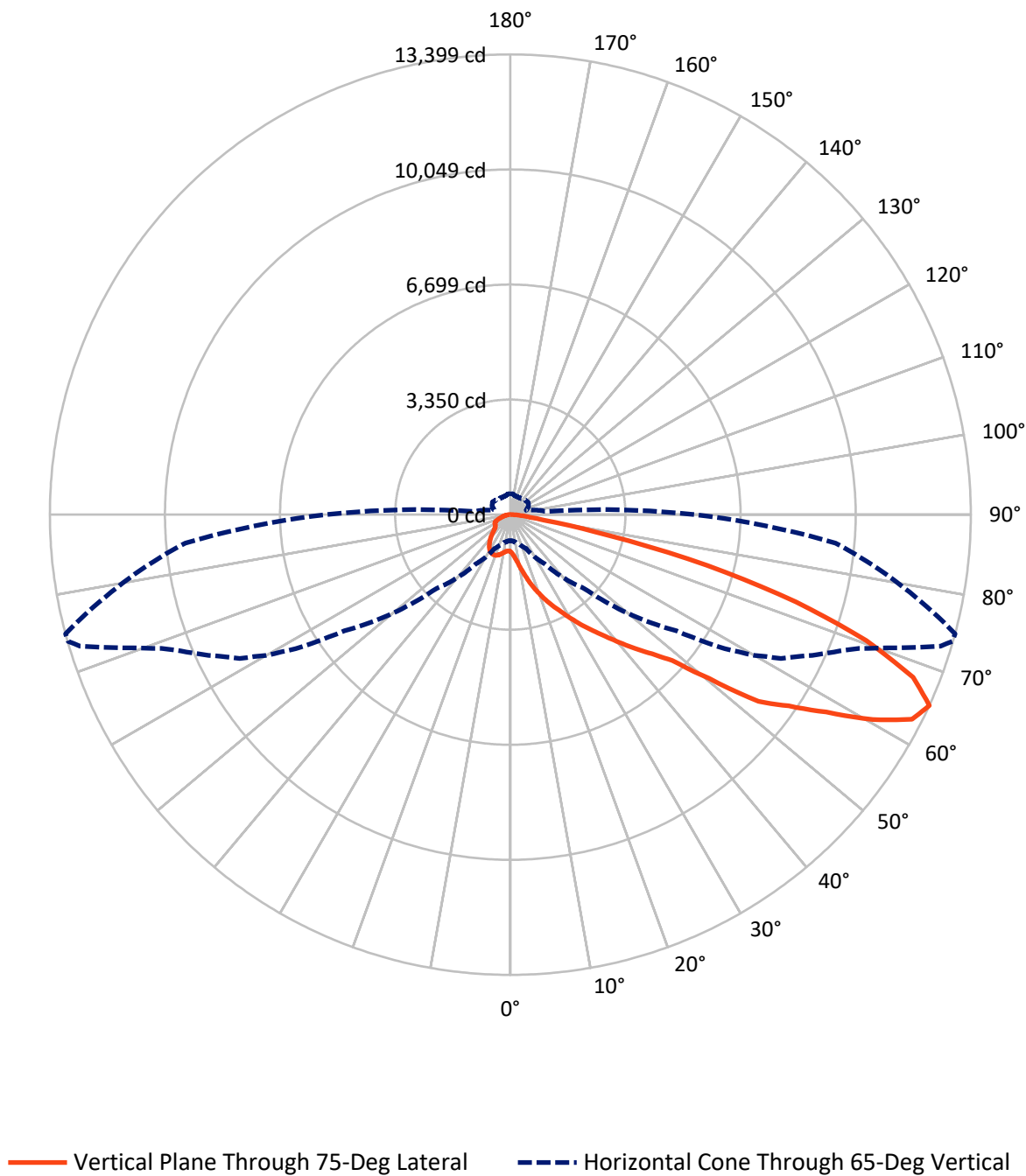


Based on 20 foot mounting height. Maximum calculated value = 8.3 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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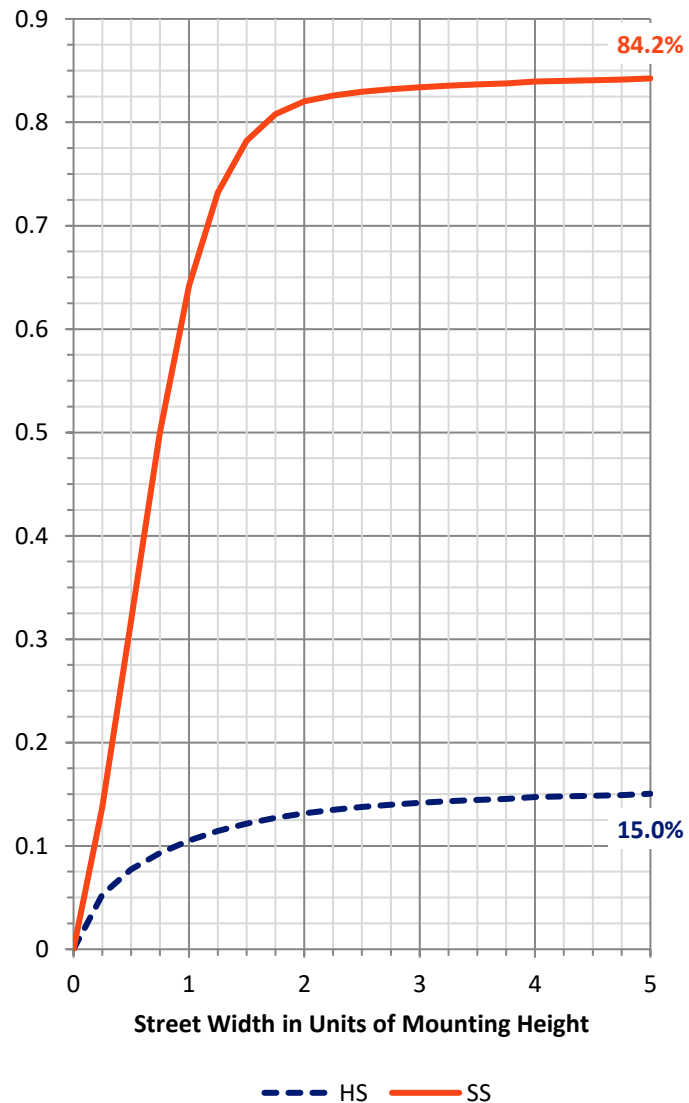
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2041.2	0.0	2041.2
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	11197.9	0.0	11197.9
	% Fixture	84.6	0.0	84.6
Total	Lumens	13239.0	0.0	13239.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.0	1.0
10°-20°	519.6	3.9
20°-30°	1066.1	8.1
30°-40°	1793.6	13.5
40°-50°	2478.3	18.7
50°-60°	3093.6	23.4
60°-70°	2783.9	21.0
70°-80°	1167.0	8.8
80°-90°	203.9	1.5
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°	13239.0	100.0
0°-180°	13239.0	100.0

Coefficient of Utilization



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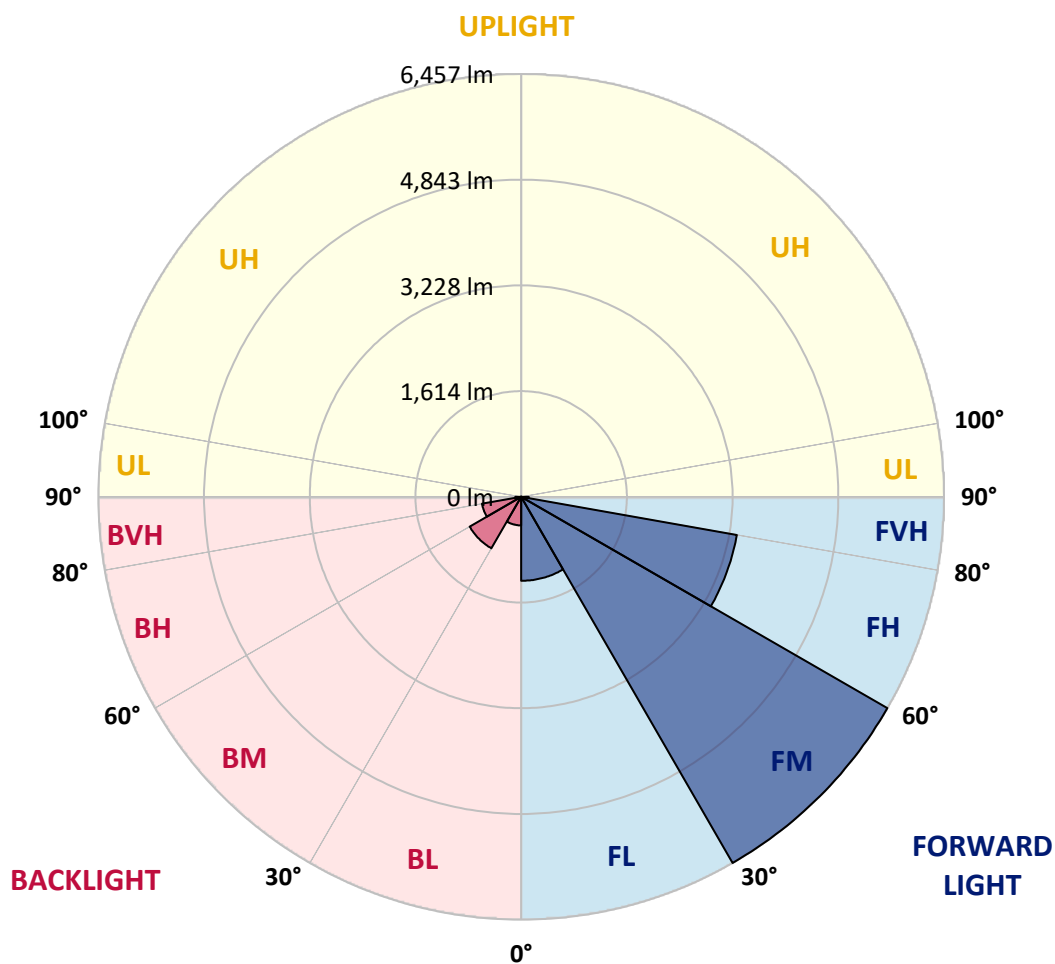
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1282.2	9.7			
FM	(30°-60°)	6457.0	48.8			
FH	(60°-80°)	3344.1	25.3			G2/5000
FVH	(80°-90°)	114.6	0.9			G2/225
BL	(0°-30°)	436.5	3.3	B1/500		
BM	(30°-60°)	908.5	6.9	B1/1000		
BH	(60°-80°)	606.8	4.6	B2/1000		G2/1000
BVH	(80°-90°)	89.3	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	1075.9	1075.9	1075.9	1075.9	1075.9	1075.9	1075.9	1075.9	1075.9	1075.9	1075.9
2.5°	1366.0	1351.0	1354.8	1329.7	1299.0	1258.9	1214.4	1213.8	1214.4	1210.0	1193.7
5°	1894.3	1876.1	1869.2	1812.9	1730.1	1612.3	1484.5	1470.7	1465.1	1450.6	1417.4
7.5°	2279.6	2269.6	2259.0	2216.4	2141.2	2009.6	1837.9	1808.5	1780.2	1773.4	1735.7
10°	2528.4	2526.0	2503.4	2492.1	2445.2	2331.1	2163.7	2135.5	2104.8	2094.2	2054.7
12.5°	2725.2	2724.6	2713.9	2717.1	2676.3	2593.6	2449.5	2423.8	2401.3	2368.6	2340.5
15°	2861.2	2861.8	2877.5	2895.1	2888.8	2833.0	2697.6	2686.4	2666.9	2644.4	2611.2
17.5°	2972.7	2975.9	2992.1	3024.1	3058.6	3054.2	2947.0	2937.6	2920.7	2890.0	2872.4
20°	3224.6	3236.5	3205.2	3205.2	3209.0	3225.9	3174.5	3167.0	3143.2	3126.9	3113.1
22.5°	3650.1	3663.9	3593.1	3521.0	3450.2	3398.9	3347.5	3356.8	3340.5	3329.3	3321.1
25°	4202.8	4213.4	4098.8	3977.2	3833.1	3645.1	3517.9	3512.3	3503.5	3496.5	3492.9
27.5°	4723.0	4727.3	4618.9	4440.9	4273.6	4003.5	3690.8	3684.0	3673.3	3660.1	3648.9
30°	5167.8	5166.6	5055.0	4885.2	4706.0	4407.1	3953.4	3932.1	3900.8	3865.0	3837.5
32.5°	5553.2	5551.3	5429.1	5253.1	5065.0	4806.8	4313.1	4269.2	4220.4	4150.8	4108.8
35°	5856.5	5855.3	5740.0	5556.4	5340.7	5183.5	4725.4	4671.5	4609.5	4516.1	4451.6
37.5°	5971.2	5971.2	5906.6	5781.3	5590.8	5483.0	5183.5	5118.3	5051.9	4946.0	4873.3
40°	5904.1	5905.4	5919.1	5896.0	5803.2	5720.5	5610.9	5572.0	5514.9	5419.7	5343.9
42.5°	5679.1	5686.1	5777.5	5889.7	5936.1	5922.9	5990.0	5972.4	5932.3	5859.0	5798.8
45°	5394.0	5415.3	5515.6	5727.4	5973.0	6097.7	6307.6	6309.6	6302.0	6262.5	6216.2
47.5°	5002.4	5032.5	5164.7	5451.1	5886.6	6267.5	6630.4	6647.3	6663.0	6637.3	6615.9
50°	4482.3	4518.0	4716.0	5095.7	5710.5	6443.7	7240.0	7316.6	7388.0	7379.2	7393.6
52.5°	3925.2	3967.2	4209.7	4632.6	5407.8	6484.4	7629.9	7754.6	7879.3	7981.4	8089.8
55°	3422.7	3400.1	3642.6	4088.1	4910.3	6300.8	7980.1	8130.5	8269.6	8394.9	8524.0
57.5°	2741.5	2778.4	3021.6	3462.2	4251.7	5782.5	8221.4	8441.3	8641.3	8848.6	9031.6
60°	2004.0	2040.9	2304.7	2752.1	3536.8	4996.7	8037.1	8370.5	8690.8	9008.4	9256.6
62.5°	1210.0	1237.6	1470.1	1896.1	2727.1	4065.0	7216.3	7653.6	8124.9	8504.6	8884.9
65°	753.2	768.8	854.7	1089.0	1751.4	3034.8	5896.0	6372.9	6880.4	7362.3	7757.6
67.5°	616.6	622.3	637.9	688.0	961.9	1978.9	4388.3	4810.6	5268.7	5735.0	6174.8
70°	554.5	550.9	550.9	553.9	616.6	1064.0	2873.1	3148.2	3529.8	3935.2	4337.5
72.5°	500.6	496.9	490.0	480.6	503.2	649.2	1485.1	1692.6	1967.6	2327.9	2713.3
75°	449.9	444.9	436.8	424.8	440.5	490.0	713.1	800.3	934.3	1126.1	1341.0
77.5°	397.3	391.0	383.5	374.7	394.8	380.9	418.0	449.3	500.6	562.1	642.9
80°	337.8	332.2	329.6	325.2	349.0	290.1	295.1	314.6	344.6	377.9	415.4
82.5°	264.4	264.4	274.5	276.3	302.7	208.7	220.5	237.5	253.2	270.7	288.3
85°	174.2	175.4	209.3	222.5	238.8	140.3	165.4	171.0	183.6	193.6	201.1
87.5°	54.5	58.9	127.9	141.6	137.3	79.6	101.5	104.0	112.8	119.7	125.9
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	1075.9	1075.9	1075.9	1075.9	1075.9	1075.9	1075.9	1075.9	1075.9	1075.9	1075.9
2.5°	1193.7	1186.2	1179.4	1178.6	1173.6	1166.8	1169.3	1158.6	1159.3	1153.6	1147.3
5°	1403.7	1398.7	1373.6	1366.7	1347.8	1336.0	1334.1	1309.1	1305.9	1291.5	1275.8
7.5°	1705.7	1689.4	1654.3	1637.3	1605.4	1581.6	1570.3	1537.1	1520.8	1483.3	1466.3
10°	2022.2	2001.5	1958.2	1934.4	1903.7	1865.5	1844.8	1796.5	1777.8	1743.3	1701.9
12.5°	2315.4	2294.7	2250.2	2232.1	2191.4	2150.5	2128.0	2073.5	2049.1	1993.9	1961.3
15°	2586.7	2566.1	2527.2	2508.4	2467.7	2434.4	2404.3	2350.5	2321.7	2270.2	2227.7
17.5°	2849.9	2827.9	2794.2	2777.2	2737.7	2703.9	2671.3	2620.6	2591.1	2539.8	2501.5
20°	3094.3	3078.1	3053.6	3031.0	2991.5	2960.8	2922.0	2878.1	2835.5	2797.9	2761.6
22.5°	3307.4	3301.1	3274.8	3264.7	3230.9	3204.6	3170.7	3127.5	3096.8	3049.2	3015.4
25°	3490.9	3489.1	3476.5	3473.4	3449.6	3424.5	3417.1	3381.3	3353.1	3311.1	3276.0
27.5°	3648.9	3650.7	3647.6	3656.4	3650.1	3638.8	3639.5	3627.6	3611.2	3576.1	3545.4
30°	3824.3	3814.3	3819.9	3832.5	3836.3	3837.5	3858.2	3865.0	3863.8	3840.6	3825.5
32.5°	4072.5	4048.6	4026.7	4024.8	4037.4	4042.4	4077.5	4095.7	4111.3	4117.0	4119.4
35°	4388.9	4341.3	4295.6	4271.1	4249.8	4255.5	4280.5	4310.0	4344.5	4368.2	4396.4
37.5°	4787.4	4729.2	4648.4	4590.7	4576.3	4545.0	4561.2	4584.5	4618.3	4655.2	4704.1
40°	5270.5	5182.3	5091.3	5014.9	4973.6	4915.9	4915.3	4910.9	4931.5	4966.0	5035.0
42.5°	5735.6	5657.2	5560.8	5480.5	5426.7	5349.5	5333.9	5293.2	5302.6	5332.6	5399.6
45°	6171.1	6106.5	6047.6	5954.9	5909.1	5825.8	5799.4	5751.2	5724.2	5738.0	5805.1
47.5°	6592.8	6551.4	6490.0	6429.9	6394.8	6320.2	6286.3	6251.9	6217.4	6216.2	6286.3
50°	7415.0	7393.0	7320.3	7257.6	7274.5	7183.1	7188.7	7096.0	7137.9	7143.0	7290.3
52.5°	8187.6	8264.0	8317.9	8383.7	8426.3	8434.4	8462.7	8504.6	8555.3	8655.6	8792.3
55°	8629.9	8725.9	8781.6	8831.7	8914.4	8932.0	8979.0	9034.8	9079.2	9192.0	9307.9
57.5°	9155.7	9333.7	9420.1	9499.7	9611.2	9653.9	9732.1	9793.0	9850.6	9984.1	10124.5
60°	9479.7	9696.4	9872.6	9998.5	10138.3	10238.5	10357.0	10452.2	10587.5	10747.3	10956.6
62.5°	9222.1	9540.4	9774.2	9990.3	10180.2	10372.0	10541.8	10719.8	10925.3	11167.1	11491.7
65°	8196.3	8520.3	8920.7	9145.1	9396.3	9692.0	9950.2	10238.5	10518.6	10870.8	11350.8
67.5°	6598.4	6975.0	7425.0	7651.2	7940.0	8270.3	8559.7	8911.9	9239.1	9665.8	10259.2
70°	4756.1	5243.0	5621.5	5857.7	6194.9	6535.1	6814.6	7224.4	7495.2	7932.5	8545.9
72.5°	3011.6	3395.7	3859.4	4157.1	4456.6	4801.2	5087.0	5440.4	5692.9	6091.5	6647.3
75°	1619.2	1902.5	2309.7	2592.4	2913.2	3207.8	3542.4	3779.2	3966.0	4281.2	4732.3
77.5°	758.8	931.2	1137.3	1354.8	1572.2	1799.1	2019.6	2211.4	2291.6	2472.1	2738.3
80°	460.5	516.4	576.5	643.5	734.4	807.7	904.9	975.1	980.1	1037.1	1118.5
82.5°	307.7	328.4	346.6	363.5	386.7	404.8	425.4	449.9	459.9	473.1	499.4
85°	209.9	219.9	223.7	234.4	231.9	238.1	246.2	254.4	258.8	258.2	270.1
87.5°	129.1	134.1	136.6	139.1	137.3	134.7	138.5	142.9	144.1	140.3	141.6
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):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	1075.9	1075.9	1075.9	1075.9	1075.9	1075.9	1075.9	1075.9	1075.9	1075.9	1075.9
2.5°	1148.6	1142.9	1137.3	1133.5	1132.3	1099.2	1084.7	1075.3	1055.3	1038.9	1025.8
5°	1267.0	1255.2	1245.7	1234.5	1228.2	1144.3	1113.5	1092.2	1057.1	1036.5	1017.6
7.5°	1457.5	1424.4	1404.9	1382.9	1364.2	1212.5	1161.8	1128.5	1079.7	1052.1	1030.8
10°	1673.8	1639.3	1608.6	1574.7	1545.3	1303.3	1229.5	1178.0	1113.5	1077.8	1049.6
12.5°	1915.0	1881.1	1842.3	1799.1	1761.4	1418.7	1315.9	1242.6	1154.3	1106.6	1067.1
15°	2200.1	2140.5	2093.6	2043.4	1999.6	1556.5	1416.8	1315.3	1197.5	1132.9	1080.3
17.5°	2465.2	2402.5	2338.6	2294.7	2243.9	1711.3	1518.4	1389.3	1233.2	1149.9	1082.8
20°	2723.9	2655.7	2600.5	2541.6	2488.3	1871.8	1626.7	1454.4	1256.4	1150.5	1067.1
22.5°	2952.0	2909.5	2848.0	2784.2	2730.3	2032.2	1728.3	1509.6	1265.2	1136.1	1039.6
25°	3211.5	3166.3	3091.2	3037.2	2977.1	2195.8	1827.9	1552.1	1260.2	1109.2	997.0
27.5°	3488.5	3438.3	3361.2	3304.8	3232.1	2365.6	1919.4	1582.9	1241.4	1065.3	940.0
30°	3777.3	3731.6	3655.7	3598.7	3525.4	2545.4	2021.6	1603.6	1203.7	1004.5	873.5
32.5°	4087.5	4049.2	3974.1	3914.5	3836.3	2740.3	2116.8	1609.8	1146.7	932.4	803.3
35°	4382.0	4355.7	4292.4	4236.7	4155.2	2924.5	2217.7	1606.6	1079.0	853.4	739.4
37.5°	4713.6	4697.8	4666.5	4595.7	4496.1	3174.5	2338.6	1593.6	996.4	775.2	690.6
40°	5067.0	5068.2	5034.4	4986.1	4893.4	3477.8	2482.7	1567.9	906.1	706.2	646.1
42.5°	5441.1	5460.4	5444.1	5409.7	5320.7	3783.6	2655.1	1536.5	818.4	639.1	602.2
45°	5869.7	5893.4	5918.5	5867.7	5781.3	4187.1	2881.9	1495.8	723.7	583.4	572.1
47.5°	6364.1	6401.6	6424.2	6424.8	6338.4	4687.2	3250.3	1471.3	639.8	545.7	557.7
50°	7407.4	7419.3	7472.6	7565.3	7498.8	5844.6	3893.9	1456.3	582.8	522.6	547.1
52.5°	8910.7	9041.7	9133.7	9127.5	9037.3	6579.6	4248.5	1378.6	548.9	513.8	542.1
55°	9522.9	9686.4	9856.8	9902.1	9831.8	7206.9	4583.8	1300.9	532.7	520.1	543.9
57.5°	10338.8	10614.4	10848.2	10946.6	10845.1	8009.6	5024.9	1260.2	527.6	537.0	555.9
60°	11291.8	11632.8	11939.8	12116.5	12116.5	8932.0	5482.4	1243.2	520.7	562.1	575.9
62.5°	11904.1	12404.8	12868.5	13127.3	13119.8	9574.3	5685.5	1185.6	505.0	579.6	603.4
65°	11906.6	12501.9	13092.8	13383.6	13398.6	9495.3	5350.1	1047.1	476.3	582.2	631.1
67.5°	10914.1	11548.8	12237.5	12562.7	12637.8	8740.9	4631.4	861.0	429.2	557.1	641.1
70°	9217.7	9837.5	10540.6	10860.2	10993.7	7451.3	3730.3	663.6	369.1	502.0	620.3
72.5°	7262.0	7869.9	8359.2	8593.0	8697.0	5695.5	2716.4	501.3	302.7	423.0	564.6
75°	5141.5	5597.7	5857.7	5909.8	5926.1	3433.3	1650.5	372.9	249.4	329.0	476.9
77.5°	2901.9	3097.4	3076.1	3099.3	2906.3	1325.3	718.7	267.0	205.5	250.0	369.7
80°	1132.9	1168.0	1097.2	1075.3	986.3	493.2	317.1	186.1	164.2	189.2	258.8
82.5°	499.4	515.7	500.6	504.4	482.5	254.4	189.9	134.7	125.3	138.5	171.7
85°	275.1	280.1	278.9	287.0	275.1	101.5	90.2	82.8	87.8	94.0	110.3
87.5°	134.1	135.3	130.9	137.9	133.5	51.4	44.5	47.0	51.4	52.7	52.7
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):

	135°	145°	155°	165°	175°	180°
0°	1075.9	1075.9	1075.9	1075.9	1075.9	1075.9
2.5°	1016.4	1011.4	1012.0	1010.8	1008.2	1008.2
5°	1007.6	1002.6	1002.6	1001.4	998.2	998.8
7.5°	1016.4	1008.2	1005.2	1000.8	996.4	996.4
10°	1026.4	1012.0	1003.2	995.7	990.1	990.1
12.5°	1033.9	1011.4	997.0	986.9	981.3	981.3
15°	1036.5	1007.0	986.9	975.1	970.1	969.3
17.5°	1028.3	990.1	965.7	951.9	945.6	943.7
20°	1003.2	959.3	930.0	914.2	905.5	902.3
22.5°	965.7	915.5	881.1	864.7	853.4	851.6
25°	913.0	859.1	825.3	809.6	803.3	801.5
27.5°	851.6	801.5	772.6	762.6	757.0	756.4
30°	793.3	750.7	729.4	721.9	714.9	713.7
32.5°	738.8	711.9	703.7	693.0	676.8	674.8
35°	699.9	697.4	691.8	668.0	647.9	642.3
37.5°	676.2	699.3	670.5	623.5	609.1	607.8
40°	662.4	679.9	630.3	614.1	615.3	614.1
42.5°	631.1	649.2	631.7	624.1	629.1	630.3
45°	599.7	619.7	641.1	636.1	647.9	647.9
47.5°	582.2	612.2	640.4	640.4	658.0	664.2
50°	562.1	606.0	630.3	639.1	652.9	647.9
52.5°	560.9	595.3	616.0	631.7	637.9	632.3
55°	562.7	586.6	601.6	619.1	626.7	627.3
57.5°	565.2	581.5	591.6	599.7	622.3	622.3
60°	571.5	577.1	582.8	587.2	616.6	617.2
62.5°	581.5	572.8	571.5	575.9	613.5	611.0
65°	597.2	566.5	557.1	561.5	610.3	602.8
67.5°	618.5	557.1	538.9	542.1	607.8	591.6
70°	637.9	542.1	516.4	513.2	584.0	555.2
72.5°	639.8	524.5	485.0	475.6	507.6	480.0
75°	608.5	512.6	450.5	423.0	419.2	415.4
77.5°	548.3	505.6	410.4	367.2	359.7	362.2
80°	458.7	480.0	362.2	310.8	351.6	347.2
82.5°	342.8	423.6	307.7	275.1	274.5	242.5
85°	190.5	330.2	250.6	206.1	143.5	139.1
87.5°	53.3	183.6	175.4	116.5	79.6	82.8
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)