

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: P200026

Luminaire Tested: **GAP-AF-02-LED-U-T2R-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200026
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-7030-1200
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13730.6 lumens
Efficiency: N/A
Efficacy: 106.4 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): 129
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

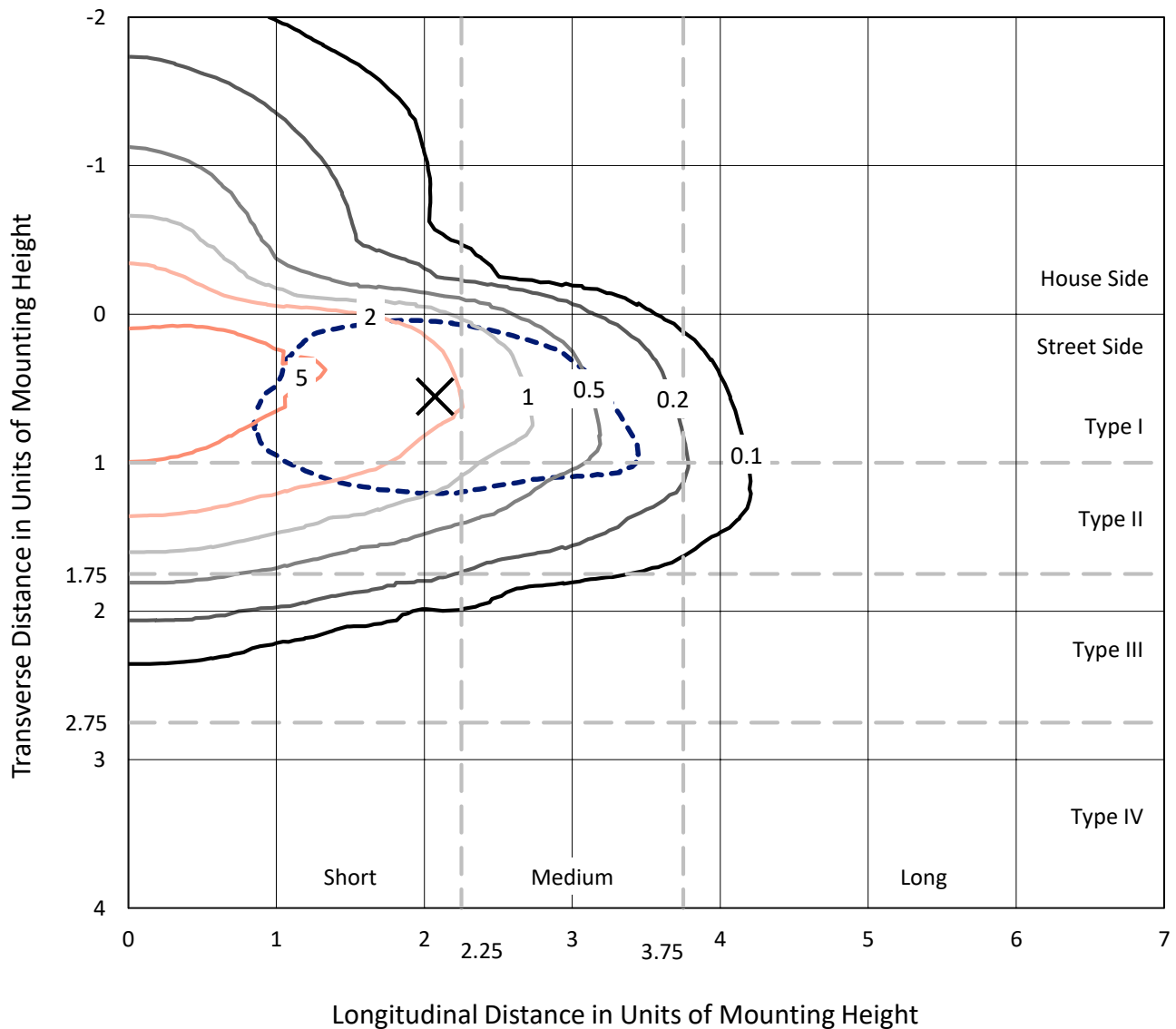


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

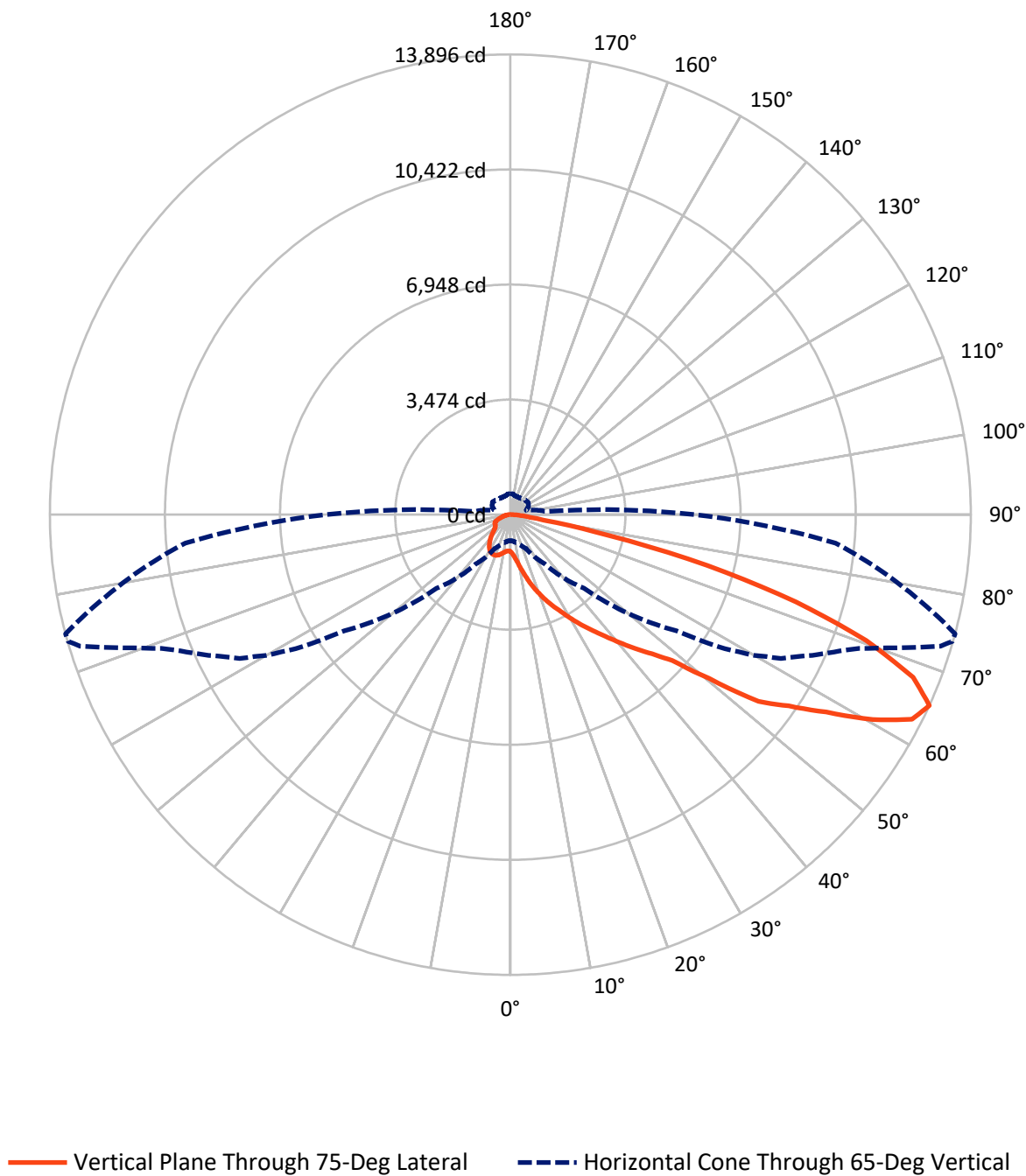


Based on 20 foot mounting height. Maximum calculated value = 8.7 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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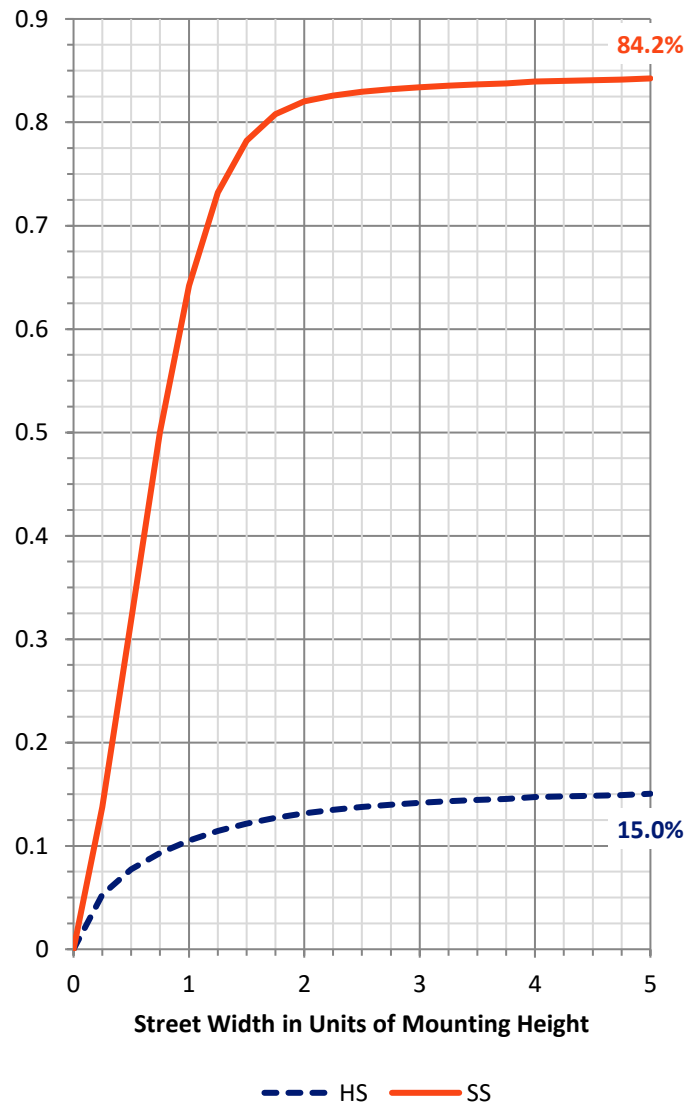
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2116.9	0.0	2116.9
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	11613.7	0.0	11613.7
	% Fixture	84.6	0.0	84.6
Total	Lumens	13730.6	0.0	13730.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.9	1.0
10°-20°	538.9	3.9
20°-30°	1105.7	8.1
30°-40°	1860.2	13.5
40°-50°	2570.3	18.7
50°-60°	3208.5	23.4
60°-70°	2887.3	21.0
70°-80°	1210.3	8.8
80°-90°	211.4	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°	13730.6	100.0
0°-180°	13730.6	100.0

Coefficient of Utilization



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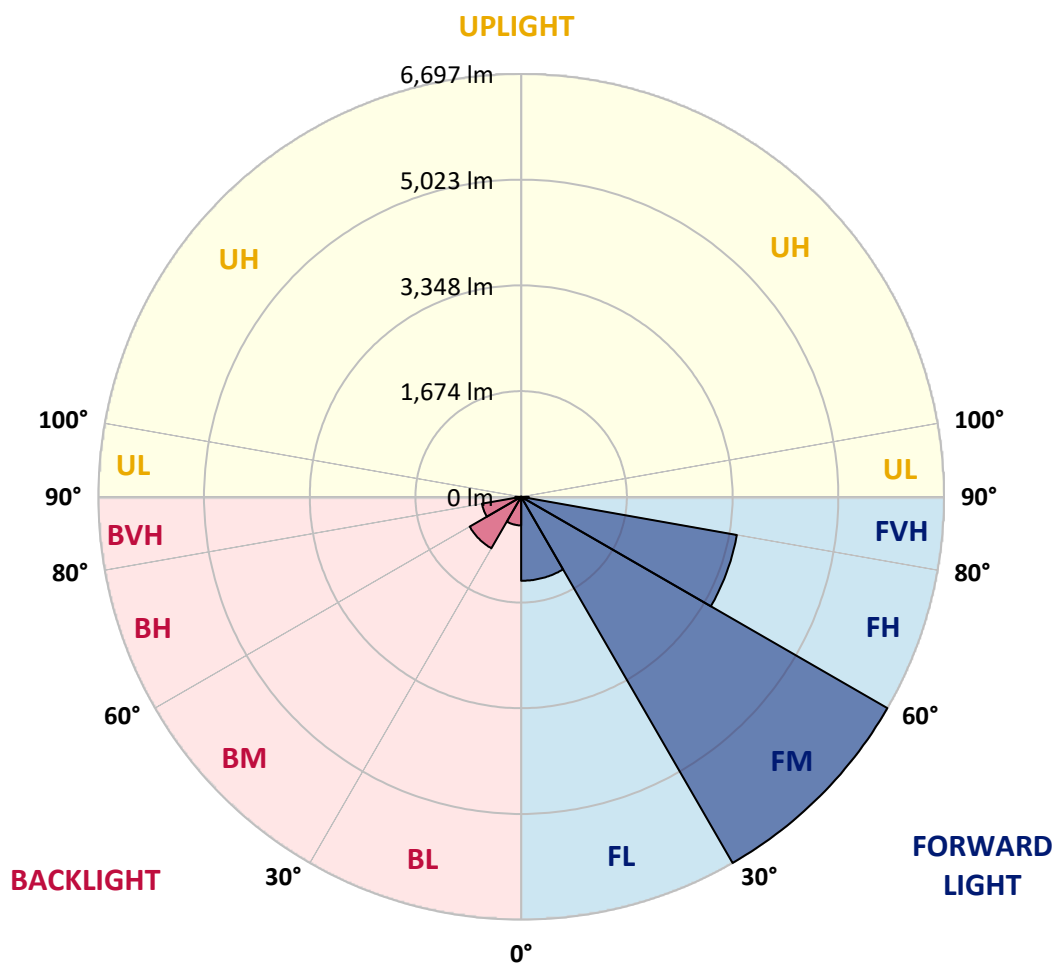
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1329.8	9.7			
FM	(30°-60°)	6696.7	48.8			
FH	(60°-80°)	3468.3	25.3			G2/5000
FVH	(80°-90°)	118.8	0.9			G2/225
BL	(0°-30°)	452.7	3.3	B1/500		
BM	(30°-60°)	942.3	6.9	B1/1000		
BH	(60°-80°)	629.3	4.6	B2/1000		G2/1000
BVH	(80°-90°)	92.6	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°	1115.9	1115.9	1115.9	1115.9	1115.9	1115.9	1115.9	1115.9	1115.9	1115.9	1115.9
2.5°	1416.8	1401.1	1405.1	1379.1	1347.2	1305.6	1259.5	1258.8	1259.5	1255.0	1238.0
5°	1964.6	1945.8	1938.7	1880.2	1794.4	1672.2	1539.6	1525.3	1519.5	1504.5	1470.1
7.5°	2364.4	2353.9	2342.8	2298.7	2220.7	2084.2	1906.1	1875.7	1846.4	1839.2	1800.3
10°	2622.3	2619.7	2596.3	2584.6	2535.9	2417.6	2244.0	2214.9	2183.0	2172.0	2131.0
12.5°	2826.4	2825.8	2814.7	2817.9	2775.7	2690.0	2540.5	2513.8	2490.4	2456.5	2427.4
15°	2967.5	2968.1	2984.3	3002.6	2996.0	2938.2	2797.8	2786.1	2766.0	2742.5	2708.1
17.5°	3083.1	3086.3	3103.3	3136.4	3172.2	3167.7	3056.4	3046.7	3029.2	2997.3	2979.2
20°	3344.4	3356.8	3324.2	3324.2	3328.1	3345.6	3292.4	3284.6	3259.9	3243.1	3228.7
22.5°	3785.7	3799.9	3726.5	3651.8	3578.3	3525.0	3471.7	3481.5	3464.6	3452.9	3444.5
25°	4358.9	4370.0	4250.9	4124.9	3975.4	3780.5	3648.5	3642.7	3633.5	3626.5	3622.5
27.5°	4898.3	4902.8	4790.4	4605.9	4432.3	4152.2	3827.9	3820.8	3809.7	3796.1	3784.3
30°	5359.7	5358.4	5242.7	5066.6	4880.7	4570.8	4100.2	4078.1	4045.7	4008.6	3980.0
32.5°	5759.4	5757.4	5630.6	5448.1	5253.0	4985.4	4473.3	4427.7	4377.0	4305.0	4261.3
35°	6073.9	6072.6	5953.1	5762.7	5539.1	5376.0	4901.0	4845.0	4780.6	4683.8	4616.9
37.5°	6193.0	6193.0	6125.9	5995.9	5798.4	5686.6	5376.0	5308.4	5239.5	5129.6	5054.3
40°	6123.3	6124.6	6138.9	6114.9	6018.6	5932.9	5819.1	5778.9	5719.7	5621.0	5542.2
42.5°	5890.0	5897.2	5992.1	6108.3	6156.4	6142.9	6212.4	6194.1	6152.6	6076.6	6014.1
45°	5594.3	5616.5	5720.4	5940.1	6194.8	6324.2	6541.9	6543.9	6536.0	6495.0	6447.0
47.5°	5188.1	5219.4	5356.4	5653.5	6105.2	6500.3	6876.6	6894.2	6910.3	6883.8	6861.6
50°	4648.8	4685.8	4891.1	5285.0	5922.5	6683.0	7509.0	7588.2	7662.3	7653.2	7668.2
52.5°	4071.0	4114.4	4366.0	4804.6	5608.6	6725.1	7913.2	8042.5	8171.8	8277.7	8390.2
55°	3549.8	3526.4	3777.8	4240.0	5092.6	6534.7	8276.5	8432.4	8576.8	8706.7	8840.6
57.5°	2843.3	2881.6	3133.8	3590.7	4409.6	5997.2	8526.7	8754.7	8962.1	9177.2	9367.1
60°	2078.3	2116.7	2390.4	2854.4	3668.1	5182.2	8335.6	8681.3	9013.5	9343.0	9600.3
62.5°	1255.0	1283.6	1524.7	1966.5	2828.4	4215.9	7484.3	7937.9	8426.6	8820.4	9214.9
65°	781.2	797.4	886.4	1129.5	1816.4	3147.4	6114.9	6609.4	7135.8	7635.7	8045.8
67.5°	639.5	645.4	661.6	713.6	997.6	2052.3	4551.2	4989.3	5464.4	5947.8	6404.1
70°	575.1	571.2	571.2	574.4	639.5	1103.5	2979.8	3265.1	3660.8	4081.4	4498.6
72.5°	519.3	515.3	508.3	498.4	521.8	673.2	1540.2	1755.4	2040.6	2414.4	2814.1
75°	466.6	461.4	453.0	440.7	456.9	508.3	739.5	830.0	969.0	1167.9	1390.8
77.5°	412.0	405.6	397.7	388.6	409.4	395.2	433.4	466.0	519.3	583.0	666.8
80°	350.2	344.5	341.9	337.3	361.9	300.9	306.2	326.2	357.5	391.9	430.9
82.5°	274.2	274.2	284.6	286.6	313.9	216.5	228.8	246.3	262.6	280.8	299.0
85°	180.8	182.0	217.1	230.7	247.6	145.6	171.5	177.4	190.4	200.8	208.5
87.5°	56.5	61.0	132.5	146.9	142.4	82.5	105.3	107.8	117.0	124.1	130.7
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	1115.9	1115.9	1115.9	1115.9	1115.9	1115.9	1115.9	1115.9	1115.9	1115.9	1115.9
2.5°	1238.0	1230.3	1223.1	1222.5	1217.2	1210.1	1212.7	1201.7	1202.3	1196.5	1190.0
5°	1455.8	1450.5	1424.5	1417.4	1398.0	1385.6	1383.7	1357.6	1354.4	1339.4	1323.2
7.5°	1769.0	1752.1	1715.7	1698.2	1665.0	1640.3	1628.6	1594.2	1577.2	1538.3	1520.8
10°	2097.2	2075.8	2030.9	2006.2	1974.5	1934.8	1913.3	1863.3	1843.7	1808.0	1765.1
12.5°	2401.4	2379.8	2333.8	2314.9	2272.7	2230.4	2207.0	2150.5	2125.2	2068.0	2034.2
15°	2682.8	2661.3	2621.0	2601.6	2559.3	2524.9	2493.7	2437.8	2407.8	2354.5	2310.4
17.5°	2955.7	2932.9	2897.9	2880.4	2839.4	2804.3	2770.5	2717.9	2687.3	2634.0	2594.4
20°	3209.2	3192.3	3167.0	3143.6	3102.6	3070.7	3030.6	2985.0	2940.8	2901.8	2864.1
22.5°	3430.2	3423.6	3396.4	3386.0	3350.9	3323.5	3288.4	3243.7	3211.7	3162.4	3127.3
25°	3620.7	3618.6	3605.7	3602.4	3577.7	3551.7	3544.0	3506.9	3477.6	3434.0	3397.6
27.5°	3784.3	3786.3	3783.1	3792.2	3785.7	3774.0	3774.6	3762.3	3745.4	3709.0	3677.1
30°	3966.3	3956.0	3961.7	3974.8	3978.6	3980.0	4001.4	4008.6	4007.3	3983.3	3967.6
32.5°	4223.6	4199.0	4176.2	4174.2	4187.3	4192.5	4228.9	4247.8	4264.0	4269.9	4272.5
35°	4551.8	4502.5	4455.0	4429.7	4407.6	4413.4	4439.4	4470.1	4505.8	4530.4	4559.7
37.5°	4965.2	4904.7	4820.9	4761.2	4746.2	4713.7	4730.6	4754.6	4789.7	4828.0	4878.8
40°	5466.2	5374.7	5280.4	5201.2	5158.2	5098.5	5097.8	5093.2	5114.7	5150.5	5221.9
42.5°	5948.5	5867.3	5767.1	5684.0	5628.2	5548.1	5531.9	5489.7	5499.4	5530.6	5600.2
45°	6400.2	6333.2	6272.1	6176.0	6128.6	6042.1	6014.8	5964.8	5936.8	5951.2	6020.6
47.5°	6837.6	6794.8	6731.0	6668.6	6632.2	6554.9	6519.8	6484.0	6448.3	6447.0	6519.8
50°	7690.2	7667.5	7592.1	7527.1	7544.7	7449.8	7455.7	7359.4	7403.0	7408.3	7561.0
52.5°	8491.5	8570.9	8626.8	8695.0	8739.2	8747.7	8776.9	8820.4	8873.1	8977.1	9118.7
55°	8950.4	9049.8	9107.7	9159.6	9245.4	9263.6	9312.3	9370.2	9416.4	9533.3	9653.6
57.5°	9495.6	9680.3	9770.0	9852.5	9968.2	10012.3	10093.6	10156.6	10216.4	10354.8	10500.4
60°	9831.7	10056.6	10239.1	10369.8	10514.7	10618.7	10741.5	10840.2	10980.7	11146.4	11363.5
62.5°	9564.5	9894.7	10137.1	10361.3	10558.3	10757.1	10933.2	11117.7	11330.9	11581.8	11918.4
65°	8500.7	8836.7	9252.0	9484.6	9745.3	10052.0	10319.7	10618.7	10909.2	11274.5	11772.2
67.5°	6843.5	7234.0	7700.6	7935.3	8234.9	8577.4	8877.7	9242.9	9582.1	10024.6	10640.1
70°	4932.7	5437.8	5830.2	6075.3	6424.9	6777.8	7067.7	7492.7	7773.5	8227.0	8863.3
72.5°	3123.4	3521.8	4002.7	4311.4	4622.1	4979.5	5275.9	5642.3	5904.4	6317.7	6894.2
75°	1679.4	1973.1	2395.5	2688.7	3021.3	3326.8	3673.9	3919.5	4113.2	4440.1	4908.0
77.5°	787.0	965.8	1179.6	1405.1	1630.5	1865.8	2094.6	2293.5	2376.7	2563.9	2840.0
80°	477.7	535.5	597.8	667.5	761.6	837.7	938.4	1011.2	1016.4	1075.5	1160.2
82.5°	319.1	340.6	359.4	377.0	401.0	419.9	441.3	466.6	477.0	490.7	518.0
85°	217.8	228.2	232.0	243.1	240.5	246.9	255.4	263.9	268.4	267.8	280.1
87.5°	133.9	139.1	141.7	144.3	142.4	139.8	143.6	148.1	149.4	145.6	146.9
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):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	1115.9	1115.9	1115.9	1115.9	1115.9	1115.9	1115.9	1115.9	1115.9	1115.9	1115.9
2.5°	1191.3	1185.5	1179.6	1175.6	1174.3	1139.9	1125.0	1115.2	1094.4	1077.6	1063.8
5°	1314.1	1301.8	1292.0	1280.3	1273.9	1186.7	1154.9	1132.8	1096.4	1074.9	1055.5
7.5°	1511.7	1477.1	1457.1	1434.3	1414.8	1257.6	1204.9	1170.5	1119.8	1091.2	1069.1
10°	1735.9	1700.2	1668.3	1633.2	1602.7	1351.7	1275.0	1221.8	1154.9	1117.8	1088.5
12.5°	1986.2	1951.1	1910.7	1865.8	1826.9	1471.4	1364.7	1288.7	1197.2	1147.8	1106.8
15°	2281.8	2220.0	2171.3	2119.3	2073.8	1614.3	1469.4	1364.1	1242.0	1175.0	1120.5
17.5°	2556.6	2491.6	2425.4	2379.8	2327.3	1774.9	1574.8	1440.8	1279.0	1192.6	1123.0
20°	2825.1	2754.3	2697.1	2636.0	2580.7	1941.2	1687.2	1508.5	1303.0	1193.2	1106.8
22.5°	3061.7	3017.5	2953.9	2887.5	2831.6	2107.6	1792.4	1565.5	1312.1	1178.3	1078.2
25°	3330.8	3283.9	3206.0	3150.1	3087.6	2277.3	1895.7	1609.8	1307.0	1150.3	1034.0
27.5°	3618.0	3566.0	3486.0	3427.6	3352.2	2453.4	1990.6	1641.6	1287.4	1104.8	974.8
30°	3917.6	3870.2	3791.6	3732.4	3656.4	2639.9	2096.5	1663.0	1248.5	1041.8	906.0
32.5°	4239.3	4199.6	4121.7	4060.0	3978.6	2842.1	2195.3	1669.6	1189.3	967.1	833.2
35°	4544.7	4517.5	4451.8	4394.0	4309.5	3033.0	2300.0	1666.3	1119.2	885.1	766.9
37.5°	4888.6	4872.3	4839.7	4766.3	4662.9	3292.4	2425.4	1652.6	1033.4	803.9	716.2
40°	5255.1	5256.4	5221.3	5171.2	5075.1	3606.9	2574.9	1626.0	939.7	732.5	670.1
42.5°	5643.0	5663.2	5646.3	5610.6	5518.2	3924.0	2753.7	1593.5	848.7	662.8	624.5
45°	6087.6	6112.3	6138.3	6085.6	5995.9	4342.6	2988.9	1551.3	750.6	605.1	593.4
47.5°	6600.4	6639.3	6662.7	6663.4	6573.7	4861.3	3370.9	1526.0	663.5	566.1	578.4
50°	7682.4	7694.8	7750.1	7846.2	7777.3	6061.6	4038.4	1510.4	604.4	542.0	567.4
52.5°	9241.5	9377.4	9472.9	9466.4	9372.8	6823.9	4406.3	1429.7	569.4	532.9	562.1
55°	9876.5	10046.2	10222.9	10269.8	10196.9	7474.4	4754.0	1349.3	552.5	539.4	564.1
57.5°	10722.7	11008.6	11251.1	11353.0	11247.8	8307.0	5211.5	1307.0	547.2	557.0	576.5
60°	11711.2	12064.7	12383.1	12566.5	12566.5	9263.6	5686.0	1289.4	540.1	583.0	597.2
62.5°	12346.1	12865.4	13346.3	13614.7	13606.9	9929.8	5896.5	1229.6	523.8	601.2	625.8
65°	12348.7	12966.2	13579.0	13880.6	13896.1	9847.9	5548.8	1085.9	494.0	603.7	654.5
67.5°	11319.3	11977.6	12691.9	13029.1	13107.2	9065.5	4803.4	892.9	445.2	577.8	664.9
70°	9559.9	10202.7	10931.9	11263.4	11401.9	7727.9	3868.9	688.3	382.9	520.6	643.4
72.5°	7531.7	8162.1	8669.6	8912.1	9019.9	5906.9	2817.4	520.0	313.9	438.6	585.5
75°	5332.4	5805.5	6075.3	6129.2	6146.1	3560.8	1711.9	386.7	258.6	341.2	494.6
77.5°	3009.6	3212.4	3190.4	3214.4	3014.3	1374.5	745.4	276.9	213.2	259.3	383.4
80°	1175.0	1211.3	1137.9	1115.2	1022.8	511.5	328.9	193.1	170.2	196.2	268.4
82.5°	518.0	534.9	519.3	523.2	500.4	263.9	196.8	139.8	130.0	143.6	178.1
85°	285.2	290.5	289.2	297.6	285.2	105.3	93.6	85.8	91.0	97.5	114.4
87.5°	139.1	140.4	135.8	143.0	138.4	53.3	46.1	48.7	53.3	54.6	54.6
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):

	135°	145°	155°	165°	175°	180°
0°	1115.9	1115.9	1115.9	1115.9	1115.9	1115.9
2.5°	1054.2	1048.9	1049.6	1048.3	1045.7	1045.7
5°	1045.1	1039.8	1039.8	1038.5	1035.3	1035.9
7.5°	1054.2	1045.7	1042.5	1037.9	1033.4	1033.4
10°	1064.5	1049.6	1040.4	1032.7	1026.8	1026.8
12.5°	1072.4	1048.9	1034.0	1023.5	1017.7	1017.7
15°	1074.9	1044.4	1023.5	1011.2	1006.1	1005.4
17.5°	1066.5	1026.8	1001.5	987.1	980.7	978.8
20°	1040.4	995.1	964.4	948.2	939.1	935.8
22.5°	1001.5	949.5	913.7	896.9	885.1	883.3
25°	947.0	891.0	855.9	839.6	833.2	831.3
27.5°	883.3	831.3	801.3	790.9	785.0	784.4
30°	822.7	778.6	756.5	748.7	741.6	740.2
32.5°	766.2	738.3	729.9	718.8	701.9	700.0
35°	725.9	723.3	717.5	692.8	672.0	666.2
37.5°	701.2	725.3	695.4	646.6	631.7	630.4
40°	686.9	705.2	653.8	636.9	638.2	636.9
42.5°	654.5	673.2	655.1	647.3	652.5	653.8
45°	621.9	642.8	664.9	659.6	672.0	672.0
47.5°	603.7	634.9	664.2	664.2	682.5	688.9
50°	583.0	628.5	653.8	662.8	677.2	672.0
52.5°	581.7	617.5	638.8	655.1	661.6	655.8
55°	583.7	608.3	623.9	642.1	649.9	650.5
57.5°	586.1	603.1	613.5	621.9	645.4	645.4
60°	592.7	598.5	604.4	608.9	639.5	640.1
62.5°	603.1	594.1	592.7	597.2	636.2	633.7
65°	619.4	587.5	577.8	582.4	633.0	625.2
67.5°	641.5	577.8	558.9	562.1	630.4	613.5
70°	661.6	562.1	535.5	532.3	605.8	575.8
72.5°	663.5	544.0	503.0	493.3	526.4	497.7
75°	631.1	531.6	467.3	438.6	434.8	430.9
77.5°	568.7	524.5	425.7	380.9	373.0	375.7
80°	475.8	497.7	375.7	322.4	364.6	360.0
82.5°	355.5	439.3	319.1	285.2	284.6	251.6
85°	197.5	342.5	259.9	213.8	148.8	144.3
87.5°	55.2	190.4	182.0	120.8	82.5	85.8
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)