

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: P200344

Luminaire Tested: **GAP-AF-02-LED-U-T2R-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200344
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-7050
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 5000K, 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: 12942 lumens
Efficiency: N/A
Efficacy: 114.5 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

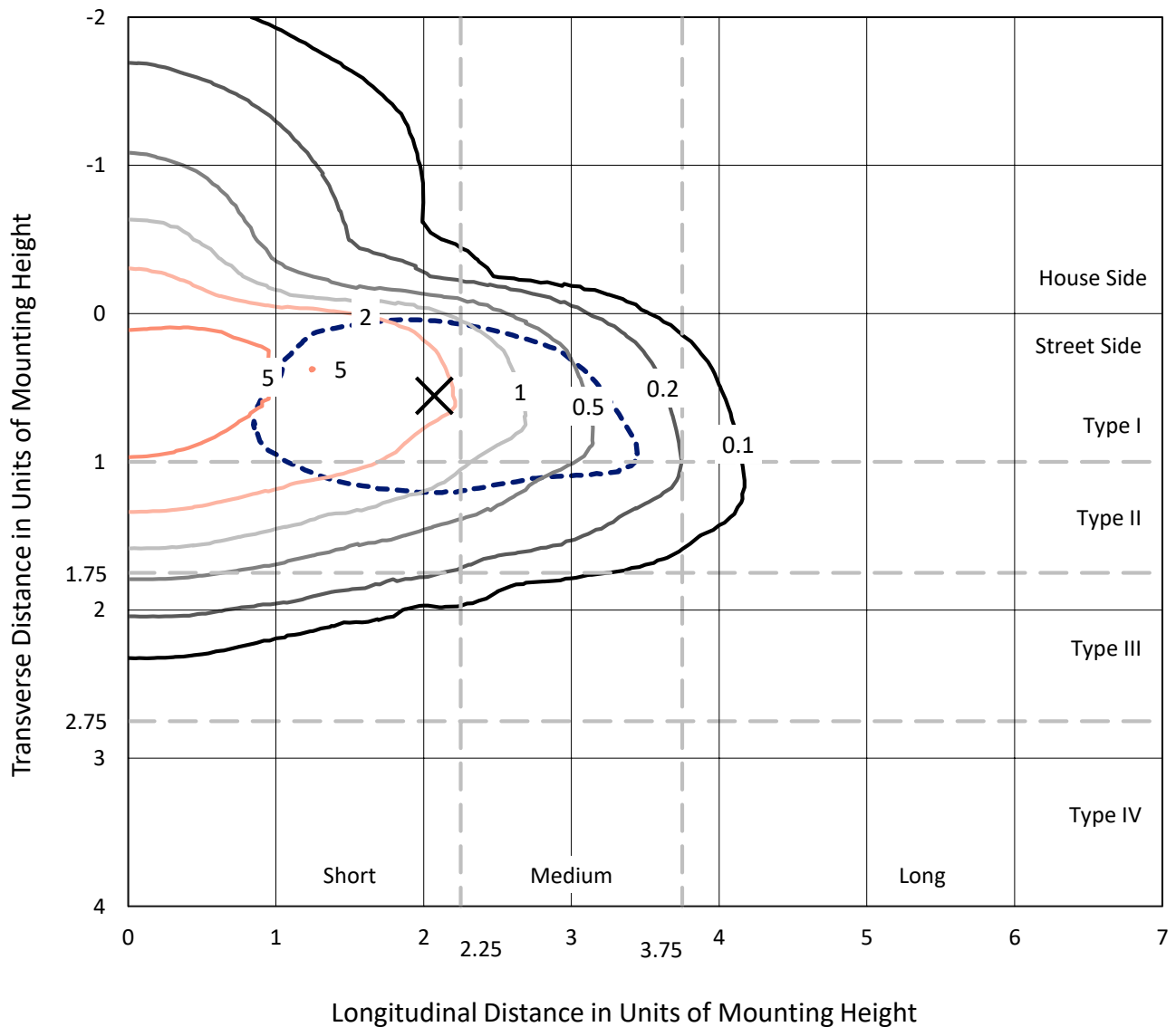


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Iso-Footcandle Lines of Horizontal Illumination

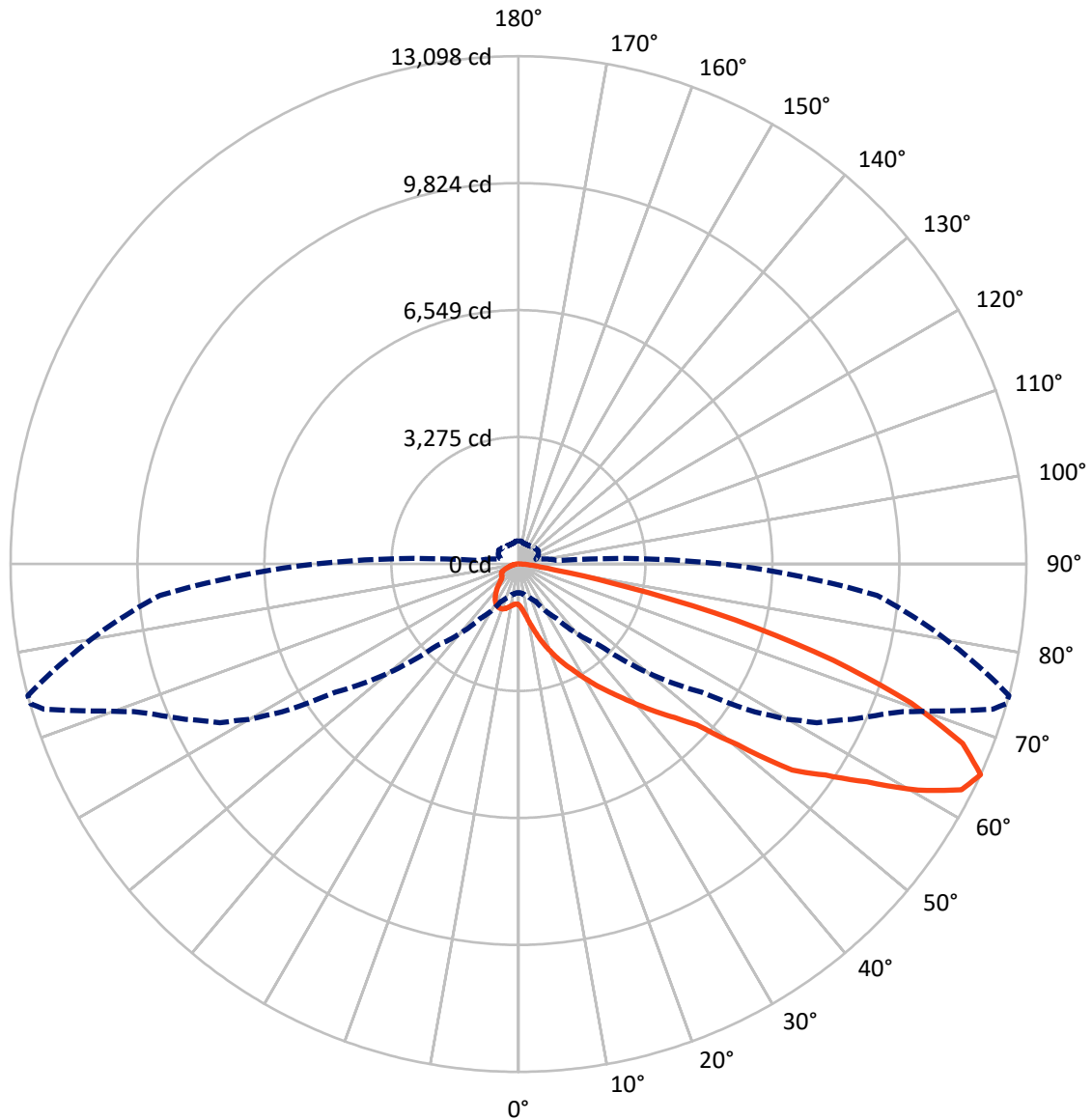
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.2 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



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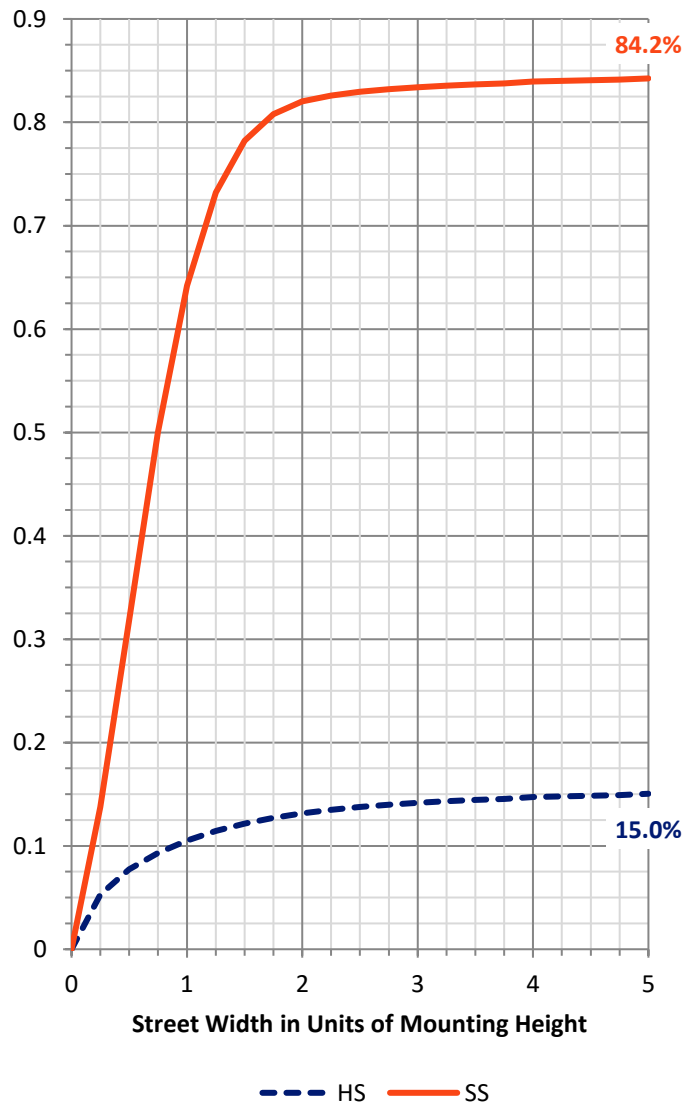
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1995.4	0.0	1995.4
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	10946.6	0.0	10946.6
	% Fixture	84.6	0.0	84.6
Total	Lumens	12942.0	0.0	12942.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.0	1.0
10°-20°	508.0	3.9
20°-30°	1042.2	8.1
30°-40°	1753.4	13.5
40°-50°	2422.7	18.7
50°-60°	3024.2	23.4
60°-70°	2721.5	21.0
70°-80°	1140.8	8.8
80°-90°	199.3	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°	12942.0	100.0
0°-180°	12942.0	100.0

Coefficient of Utilization



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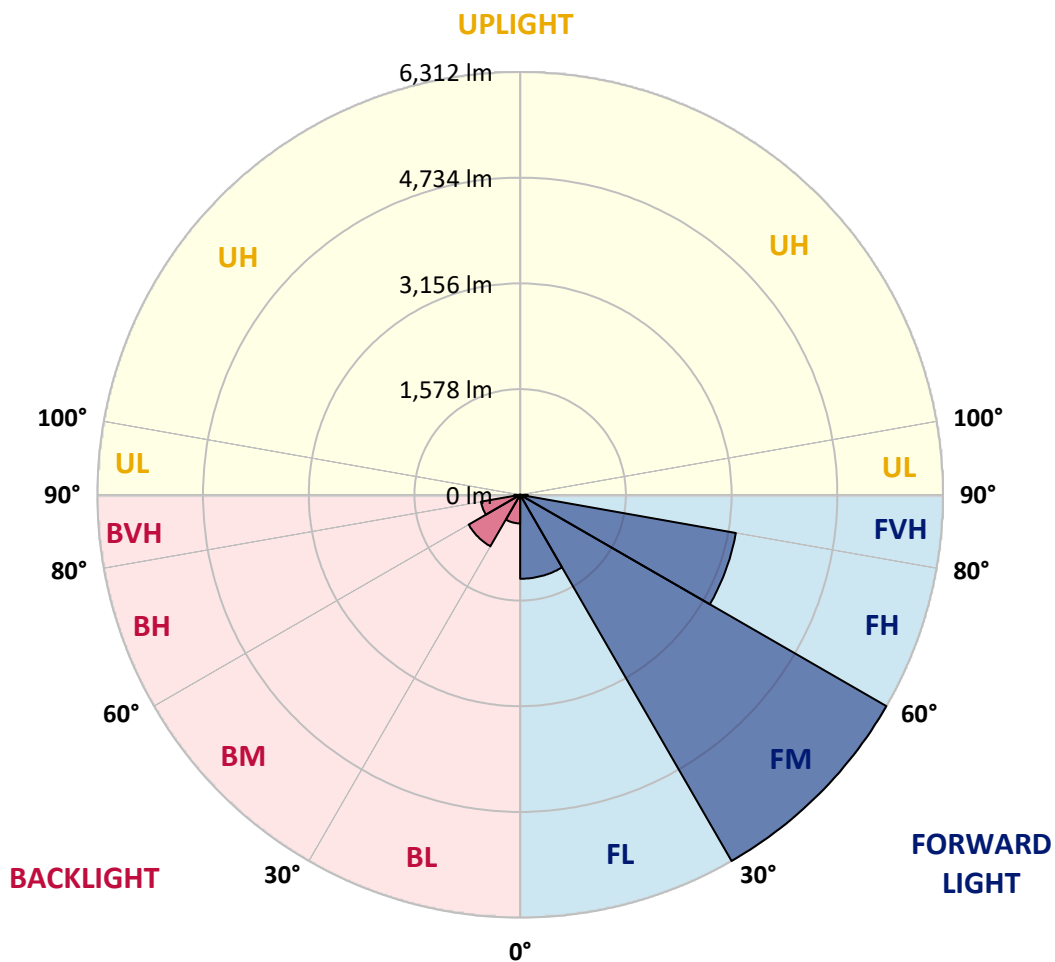
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1253.4	9.7			
FM (30°-60°)	6312.1	48.8			
FH (60°-80°)	3269.1	25.3			G2/5000
FVH (80°-90°)	112.0	0.9			G2/225
BL (0°-30°)	426.7	3.3	B1/500		
BM (30°-60°)	888.2	6.9	B1/1000		
BH (60°-80°)	593.2	4.6	B2/1000		G2/1000
BVH (80°-90°)	87.3	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°	1051.8	1051.8	1051.8	1051.8	1051.8	1051.8	1051.8	1051.8	1051.8	1051.8	1051.8
2.5°	1335.4	1320.7	1324.4	1299.9	1269.9	1230.7	1187.2	1186.6	1187.2	1182.9	1166.9
5°	1851.8	1834.0	1827.3	1772.2	1691.3	1576.1	1451.2	1437.7	1432.2	1418.1	1385.6
7.5°	2228.5	2218.7	2208.3	2166.7	2093.2	1964.5	1796.7	1767.9	1740.3	1733.6	1696.8
10°	2471.7	2469.3	2447.2	2436.2	2390.3	2278.8	2115.2	2087.6	2057.6	2047.2	2008.6
12.5°	2664.1	2663.5	2653.0	2656.1	2616.3	2535.4	2394.5	2369.4	2347.4	2315.5	2288.0
15°	2797.0	2797.6	2812.9	2830.1	2824.0	2769.4	2637.1	2626.1	2607.1	2585.1	2552.6
17.5°	2906.0	2909.1	2925.0	2956.3	2990.0	2985.7	2880.9	2871.7	2855.2	2825.2	2808.0
20°	3152.3	3163.9	3133.3	3133.3	3137.0	3153.5	3103.3	3095.9	3072.7	3056.7	3043.3
22.5°	3568.2	3581.7	3512.5	3442.0	3372.8	3322.6	3272.4	3281.5	3265.6	3254.6	3246.6
25°	4108.5	4118.9	4006.8	3888.0	3747.1	3563.3	3439.0	3433.5	3424.9	3418.1	3414.5
27.5°	4617.0	4621.2	4515.3	4341.3	4177.7	3913.7	3608.0	3601.3	3590.9	3578.0	3567.0
30°	5051.9	5050.7	4941.6	4775.6	4600.4	4308.2	3864.7	3843.9	3813.3	3778.3	3751.4
32.5°	5428.6	5426.8	5307.3	5135.2	4951.4	4699.0	4216.3	4173.4	4125.7	4057.7	4016.6
35°	5725.1	5723.9	5611.2	5431.7	5220.9	5067.2	4619.4	4566.7	4506.1	4414.8	4351.7
37.5°	5837.2	5837.2	5774.1	5651.6	5465.4	5360.0	5067.2	5003.5	4938.6	4835.0	4764.0
40°	5771.6	5772.9	5786.3	5763.7	5673.0	5592.2	5485.0	5447.0	5391.2	5298.1	5224.0
42.5°	5551.7	5558.5	5647.9	5757.6	5802.9	5790.0	5855.6	5838.4	5799.2	5727.5	5668.7
45°	5273.0	5293.8	5391.9	5598.9	5839.0	5960.9	6166.1	6168.0	6160.6	6122.0	6076.7
47.5°	4890.2	4919.6	5048.8	5328.8	5754.5	6126.9	6481.6	6498.2	6513.5	6488.4	6467.5
50°	4381.7	4416.6	4610.2	4981.4	5582.4	6299.1	7077.6	7152.4	7222.2	7213.6	7227.7
52.5°	3837.1	3878.2	4115.3	4528.7	5286.5	6338.9	7458.7	7580.6	7702.5	7802.3	7908.3
55°	3345.9	3323.8	3560.9	3996.4	4800.1	6159.4	7801.1	7948.1	8084.1	8206.6	8332.8
57.5°	2680.0	2716.1	2953.8	3384.5	4156.3	5652.8	8036.9	8251.9	8447.4	8650.1	8829.0
60°	1959.0	1995.1	2253.0	2690.4	3457.4	4884.6	7856.8	8182.7	8495.8	8806.3	9048.9
62.5°	1182.9	1209.8	1437.1	1853.6	2665.9	3973.8	7054.4	7481.9	7942.6	8313.8	8685.6
65°	736.3	751.6	835.5	1064.6	1712.1	2966.7	5763.7	6229.9	6726.0	7197.1	7583.6
67.5°	602.8	608.3	623.6	672.6	940.3	1934.5	4289.8	4702.7	5150.5	5606.3	6036.3
70°	542.1	538.5	538.5	541.5	602.8	1040.1	2808.6	3077.6	3450.6	3846.9	4240.2
72.5°	489.4	485.8	479.0	469.8	491.9	634.6	1451.8	1654.6	1923.5	2275.7	2652.4
75°	439.8	434.9	427.0	415.3	430.6	479.0	697.1	782.3	913.3	1100.8	1310.9
77.5°	388.4	382.2	374.9	366.3	385.9	372.4	408.6	439.2	489.4	549.5	628.5
80°	330.2	324.7	322.2	317.9	341.2	283.6	288.5	307.5	336.9	369.4	406.1
82.5°	258.5	258.5	268.3	270.1	295.9	204.0	215.6	232.2	247.5	264.6	281.8
85°	170.3	171.5	204.6	217.5	233.4	137.2	161.7	167.2	179.5	189.3	196.6
87.5°	53.3	57.6	125.0	138.4	134.2	77.8	99.2	101.7	110.3	117.0	123.1
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	1051.8	1051.8	1051.8	1051.8	1051.8	1051.8	1051.8	1051.8	1051.8	1051.8	1051.8
2.5°	1166.9	1159.6	1152.9	1152.2	1147.3	1140.6	1143.1	1132.6	1133.3	1127.7	1121.6
5°	1372.2	1367.3	1342.8	1336.0	1317.6	1306.0	1304.2	1279.7	1276.6	1262.5	1247.2
7.5°	1667.4	1651.5	1617.2	1600.6	1569.4	1546.1	1535.1	1502.6	1486.7	1450.0	1433.4
10°	1976.8	1956.6	1914.3	1891.0	1861.0	1823.6	1803.4	1756.2	1737.9	1704.2	1663.7
12.5°	2263.5	2243.2	2199.7	2182.0	2142.2	2102.3	2080.3	2027.0	2003.1	1949.2	1917.3
15°	2528.7	2508.5	2470.5	2452.1	2412.3	2379.8	2350.4	2297.8	2269.6	2219.3	2177.7
17.5°	2786.0	2764.5	2731.5	2714.9	2676.3	2643.2	2611.4	2561.8	2533.0	2482.8	2445.4
20°	3024.9	3009.0	2985.1	2963.0	2924.4	2894.4	2856.4	2813.5	2771.9	2735.1	2699.6
22.5°	3233.2	3227.0	3201.3	3191.5	3158.4	3132.7	3099.6	3057.3	3027.3	2980.8	2947.7
25°	3412.6	3410.8	3398.5	3395.5	3372.2	3347.7	3340.4	3305.4	3277.9	3236.8	3202.5
27.5°	3567.0	3568.8	3565.8	3574.4	3568.2	3557.2	3557.8	3546.2	3530.2	3495.9	3465.9
30°	3738.5	3728.7	3734.2	3746.5	3750.2	3751.4	3771.6	3778.3	3777.1	3754.4	3739.7
32.5°	3981.1	3957.8	3936.4	3934.5	3946.8	3951.7	3986.0	4003.8	4019.1	4024.6	4027.0
35°	4290.4	4243.9	4199.2	4175.3	4154.5	4160.0	4184.5	4213.3	4247.0	4270.2	4297.8
37.5°	4680.0	4623.1	4544.1	4487.7	4473.6	4443.0	4458.9	4481.6	4514.7	4550.8	4598.6
40°	5152.3	5066.0	4977.1	4902.4	4862.0	4805.6	4805.0	4800.7	4820.9	4854.6	4922.0
42.5°	5606.9	5530.3	5436.0	5357.5	5304.9	5229.5	5214.2	5174.4	5183.6	5213.0	5278.5
45°	6032.6	5969.5	5911.9	5821.3	5776.5	5695.1	5669.3	5622.2	5595.8	5609.3	5674.9
47.5°	6444.9	6404.4	6344.4	6285.6	6251.3	6178.4	6145.3	6111.6	6077.9	6076.7	6145.3
50°	7248.6	7227.1	7156.1	7094.8	7111.3	7021.9	7027.4	6936.8	6977.8	6982.7	7126.7
52.5°	8003.9	8078.6	8131.3	8195.6	8237.2	8245.2	8272.8	8313.8	8363.4	8461.4	8595.0
55°	8436.3	8530.1	8584.6	8633.6	8714.4	8731.6	8777.5	8832.1	8875.5	8985.8	9099.1
57.5°	8950.3	9124.3	9208.8	9286.6	9395.6	9437.3	9513.8	9573.3	9629.6	9760.1	9897.3
60°	9267.0	9478.9	9651.1	9774.2	9910.8	10008.8	10124.6	10217.7	10350.0	10506.2	10710.8
62.5°	9015.2	9326.4	9554.9	9766.2	9951.8	10139.3	10305.3	10479.3	10680.2	10916.6	11233.9
65°	8012.4	8329.1	8720.6	8939.9	9185.5	9474.6	9727.0	10008.8	10282.6	10626.9	11096.1
67.5°	6450.4	6818.5	7258.4	7479.5	7761.9	8084.7	8367.7	8712.0	9031.8	9448.9	10029.0
70°	4649.4	5125.4	5495.4	5726.3	6055.9	6388.5	6661.7	7062.3	7327.0	7754.5	8354.2
72.5°	2944.0	3319.5	3772.8	4063.8	4356.6	4693.5	4972.9	5318.3	5565.2	5954.8	6498.2
75°	1582.9	1859.8	2257.9	2534.2	2847.8	3135.8	3462.9	3694.4	3877.0	4185.1	4626.1
77.5°	741.8	910.3	1111.8	1324.4	1536.9	1758.7	1974.3	2161.8	2240.2	2416.6	2676.9
80°	450.2	504.8	563.6	629.1	717.9	789.6	884.6	953.2	958.1	1013.8	1093.4
82.5°	300.8	321.0	338.8	355.3	378.0	395.7	415.9	439.8	449.6	462.5	488.2
85°	205.2	215.0	218.7	229.1	226.7	232.8	240.7	248.7	253.0	252.4	264.0
87.5°	126.2	131.1	133.5	136.0	134.2	131.7	135.4	139.7	140.9	137.2	138.4
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°	1051.8	1051.8	1051.8	1051.8	1051.8	1051.8	1051.8	1051.8	1051.8	1051.8	1051.8
2.5°	1122.8	1117.3	1111.8	1108.1	1106.9	1074.5	1060.4	1051.2	1031.6	1015.6	1002.8
5°	1238.6	1227.0	1217.8	1206.8	1200.6	1118.6	1088.5	1067.7	1033.4	1013.2	994.8
7.5°	1424.8	1392.4	1373.4	1351.9	1333.6	1185.3	1135.7	1103.2	1055.5	1028.5	1007.7
10°	1636.2	1602.5	1572.5	1539.4	1510.6	1274.1	1201.9	1151.6	1088.5	1053.6	1026.1
12.5°	1872.0	1838.9	1801.0	1758.7	1721.9	1386.9	1286.4	1214.7	1128.4	1081.8	1043.2
15°	2150.7	2092.5	2046.6	1997.6	1954.7	1521.6	1385.0	1285.8	1170.6	1107.5	1056.1
17.5°	2409.9	2348.6	2286.1	2243.2	2193.6	1672.9	1484.3	1358.1	1205.5	1124.1	1058.5
20°	2662.8	2596.1	2542.2	2484.6	2432.5	1829.8	1590.2	1421.8	1228.2	1124.7	1043.2
22.5°	2885.8	2844.2	2784.1	2721.7	2669.0	1986.6	1689.5	1475.7	1236.8	1110.6	1016.3
25°	3139.4	3095.3	3021.8	2969.1	2910.3	2146.5	1786.9	1517.3	1231.9	1084.3	974.6
27.5°	3410.2	3361.2	3285.8	3230.7	3159.6	2312.5	1876.3	1547.4	1213.5	1041.4	918.9
30°	3692.6	3647.9	3573.7	3518.0	3446.3	2488.3	1976.2	1567.6	1176.7	982.0	853.9
32.5°	3995.8	3958.4	3884.9	3826.7	3750.2	2678.8	2069.3	1573.7	1121.0	911.5	785.3
35°	4283.7	4258.0	4196.1	4141.6	4062.0	2858.9	2167.9	1570.6	1054.8	834.3	722.8
37.5°	4607.8	4592.4	4561.8	4492.6	4395.2	3103.3	2286.1	1557.8	974.0	757.8	675.1
40°	4953.3	4954.5	4921.4	4874.2	4783.6	3399.8	2427.0	1532.7	885.8	690.4	631.6
42.5°	5319.0	5337.9	5322.0	5288.3	5201.3	3698.7	2595.5	1502.0	800.0	624.8	588.7
45°	5738.0	5761.2	5785.7	5736.1	5651.6	4093.2	2817.2	1462.2	707.5	570.3	559.3
47.5°	6221.3	6258.0	6280.1	6280.7	6196.2	4582.0	3177.4	1438.3	625.4	533.5	545.2
50°	7241.2	7252.8	7304.9	7395.6	7330.6	5713.5	3806.5	1423.6	569.7	510.9	534.8
52.5°	8710.8	8838.8	8928.8	8922.7	8834.5	6432.0	4153.2	1347.7	536.6	502.3	529.9
55°	9309.2	9469.1	9635.7	9679.9	9611.2	7045.2	4481.0	1271.7	520.7	508.4	531.7
57.5°	10106.8	10376.3	10604.8	10701.0	10601.8	7829.9	4912.2	1231.9	515.8	525.0	543.4
60°	11038.5	11371.8	11671.9	11844.7	11844.7	8731.6	5359.4	1215.3	509.0	549.5	563.0
62.5°	11637.0	12126.5	12579.8	12832.8	12825.4	9359.5	5557.9	1159.0	493.7	566.6	589.9
65°	11639.5	12221.4	12799.1	13083.3	13098.0	9282.3	5230.1	1023.6	465.6	569.1	616.9
67.5°	10669.2	11289.7	11962.9	12280.8	12354.3	8544.8	4527.5	841.7	419.6	544.6	626.7
70°	9010.9	9616.8	10304.1	10616.5	10747.0	7284.1	3646.6	648.7	360.8	490.7	606.4
72.5°	7099.1	7693.3	8171.7	8400.2	8501.9	5567.7	2655.5	490.1	295.9	413.5	551.9
75°	5026.1	5472.1	5726.3	5777.2	5793.1	3356.3	1613.5	364.5	243.8	321.6	466.2
77.5°	2836.8	3027.9	3007.1	3029.8	2841.1	1295.6	702.6	261.0	200.9	244.4	361.4
80°	1107.5	1141.8	1072.6	1051.2	964.2	482.1	310.0	181.9	160.5	185.0	253.0
82.5°	488.2	504.1	489.4	493.1	471.7	248.7	185.6	131.7	122.5	135.4	167.8
85°	268.9	273.8	272.6	280.6	268.9	99.2	88.2	80.9	85.8	91.9	107.8
87.5°	131.1	132.3	128.0	134.8	130.5	50.2	43.5	45.9	50.2	51.5	51.5
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°	1051.8	1051.8	1051.8	1051.8	1051.8	1051.8
2.5°	993.6	988.7	989.3	988.1	985.6	985.6
5°	985.0	980.1	980.1	978.9	975.8	976.4
7.5°	993.6	985.6	982.6	978.3	974.0	974.0
10°	1003.4	989.3	980.7	973.4	967.9	967.9
12.5°	1010.7	988.7	974.6	964.8	959.3	959.3
15°	1013.2	984.4	964.8	953.2	948.3	947.6
17.5°	1005.2	967.9	944.0	930.5	924.4	922.5
20°	980.7	937.8	909.1	893.7	885.2	882.1
22.5°	944.0	895.0	861.3	845.3	834.3	832.5
25°	892.5	839.8	806.8	791.4	785.3	783.5
27.5°	832.5	783.5	755.3	745.5	740.0	739.4
30°	775.5	733.9	713.0	705.7	698.9	697.7
32.5°	722.2	695.9	687.9	677.5	661.6	659.7
35°	684.2	681.8	676.3	653.0	633.4	627.9
37.5°	661.0	683.6	655.5	609.5	595.4	594.2
40°	647.5	664.6	616.2	600.3	601.5	600.3
42.5°	616.9	634.6	617.5	610.1	615.0	616.2
45°	586.2	605.8	626.7	621.8	633.4	633.4
47.5°	569.1	598.5	626.0	626.0	643.2	649.3
50°	549.5	592.4	616.2	624.8	638.3	633.4
52.5°	548.3	581.9	602.2	617.5	623.6	618.1
55°	550.1	573.4	588.1	605.2	612.6	613.2
57.5°	552.5	568.5	578.3	586.2	608.3	608.3
60°	558.7	564.2	569.7	574.0	602.8	603.4
62.5°	568.5	559.9	558.7	563.0	599.7	597.3
65°	583.8	553.8	544.6	548.9	596.6	589.3
67.5°	604.6	544.6	526.8	529.9	594.2	578.3
70°	623.6	529.9	504.8	501.7	570.9	542.7
72.5°	625.4	512.7	474.1	464.9	496.2	469.2
75°	594.8	501.1	440.4	413.5	409.8	406.1
77.5°	536.0	494.3	401.2	359.0	351.6	354.1
80°	448.4	469.2	354.1	303.8	343.7	339.4
82.5°	335.1	414.1	300.8	268.9	268.3	237.1
85°	186.2	322.8	245.0	201.5	140.3	136.0
87.5°	52.1	179.5	171.5	113.9	77.8	80.9
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)