

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: P653886

Luminaire Tested: **GLAN-SA5A-840-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P653886
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-22)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA5A-840-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16602.2 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

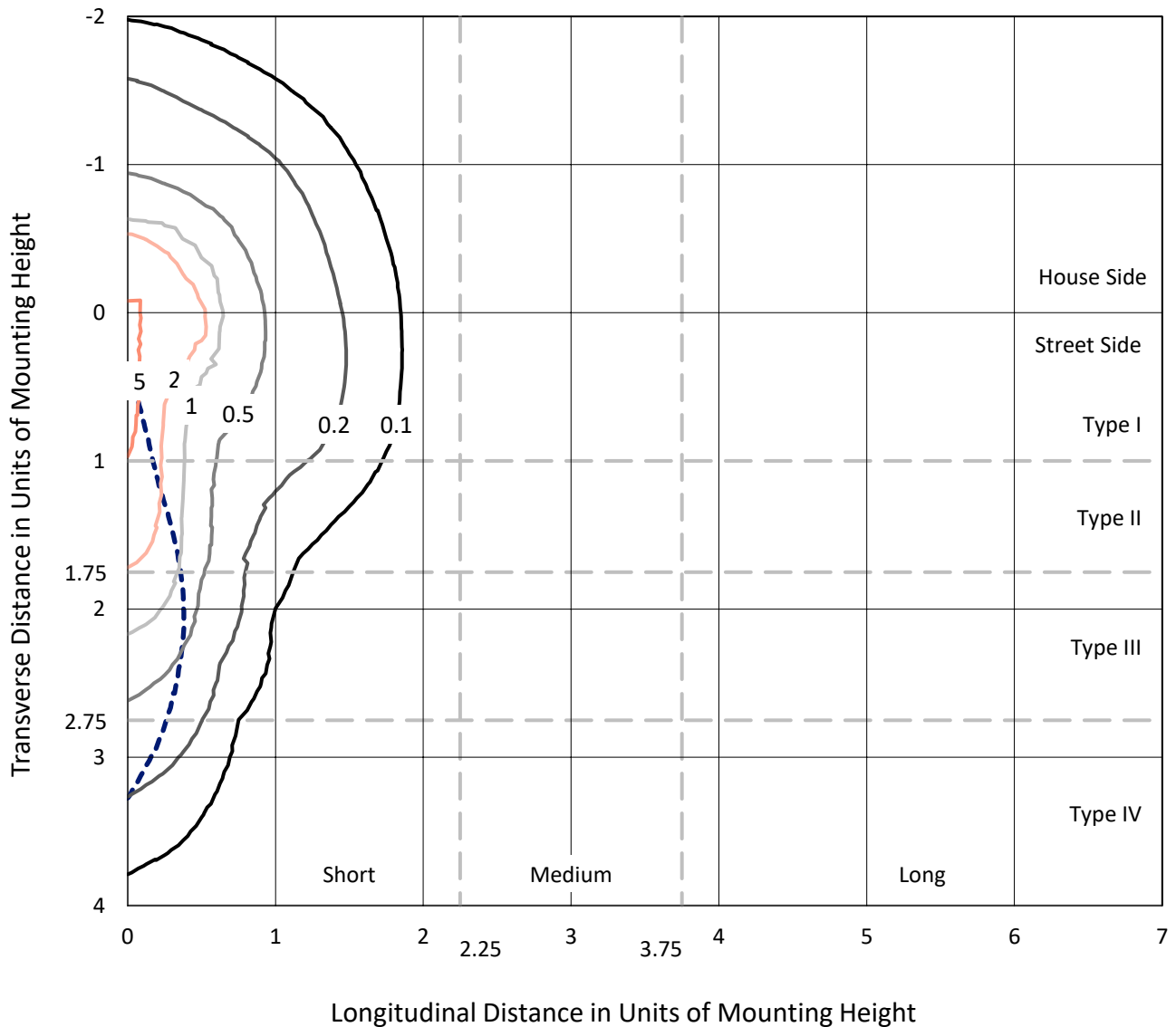
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

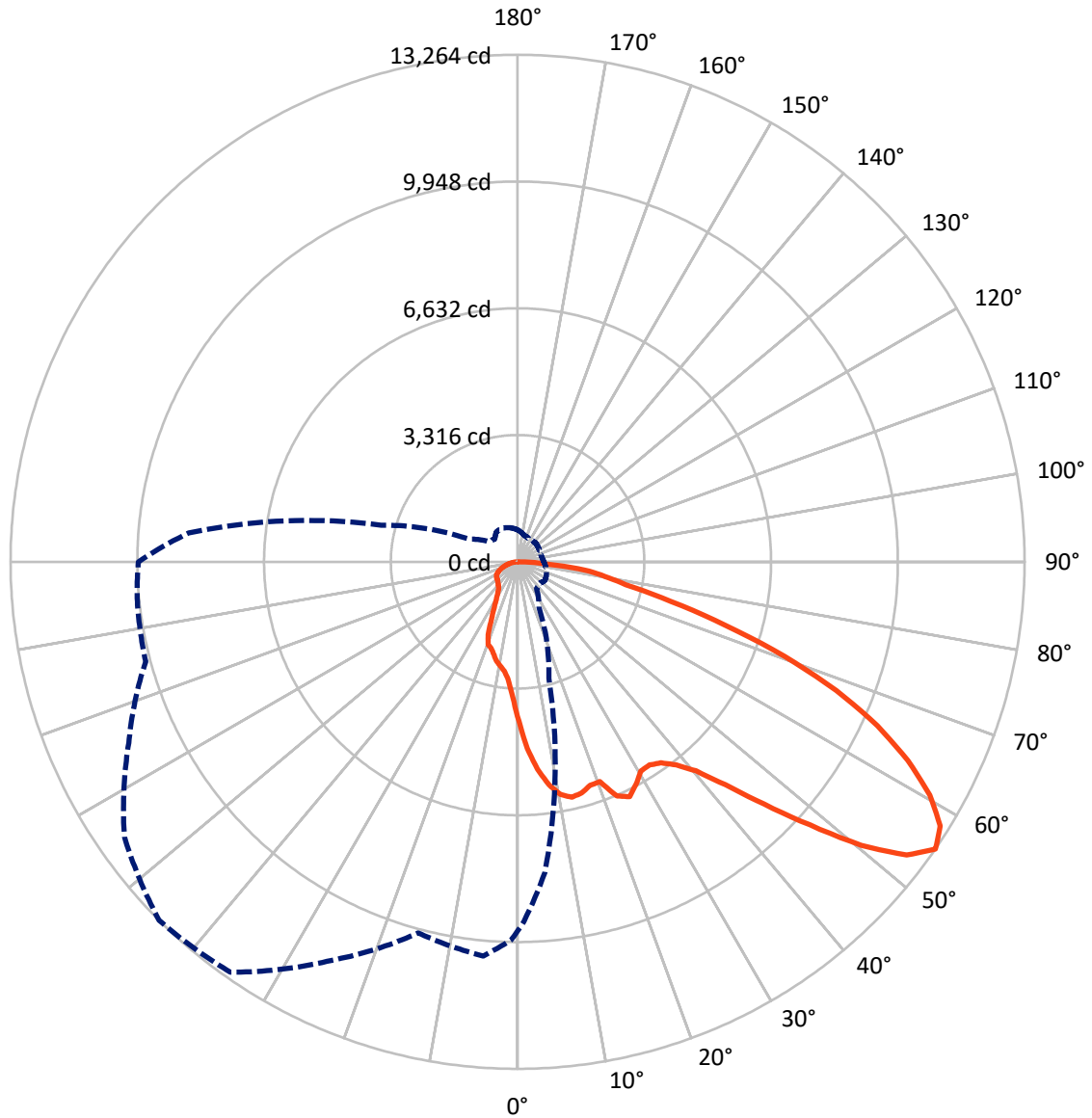
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3631.7	0.0	3631.7
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	12970.5	0.0	12970.5
	% Fixture	78.1	0.0	78.1
Total	Lumens	16602.2	0.0	16602.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.1	2.1
10°-20°	936.8	5.6
20°-30°	1618.4	9.7
30°-40°	1880.9	11.3
40°-50°	2624.2	15.8
50°-60°	3560.8	21.4
60°-70°	3387.7	20.4
70°-80°	1830.1	11.0
80°-90°	410.2	2.5
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°	16602.2	100.0
0°-180°	16602.2	100.0

Coefficient of Utilization



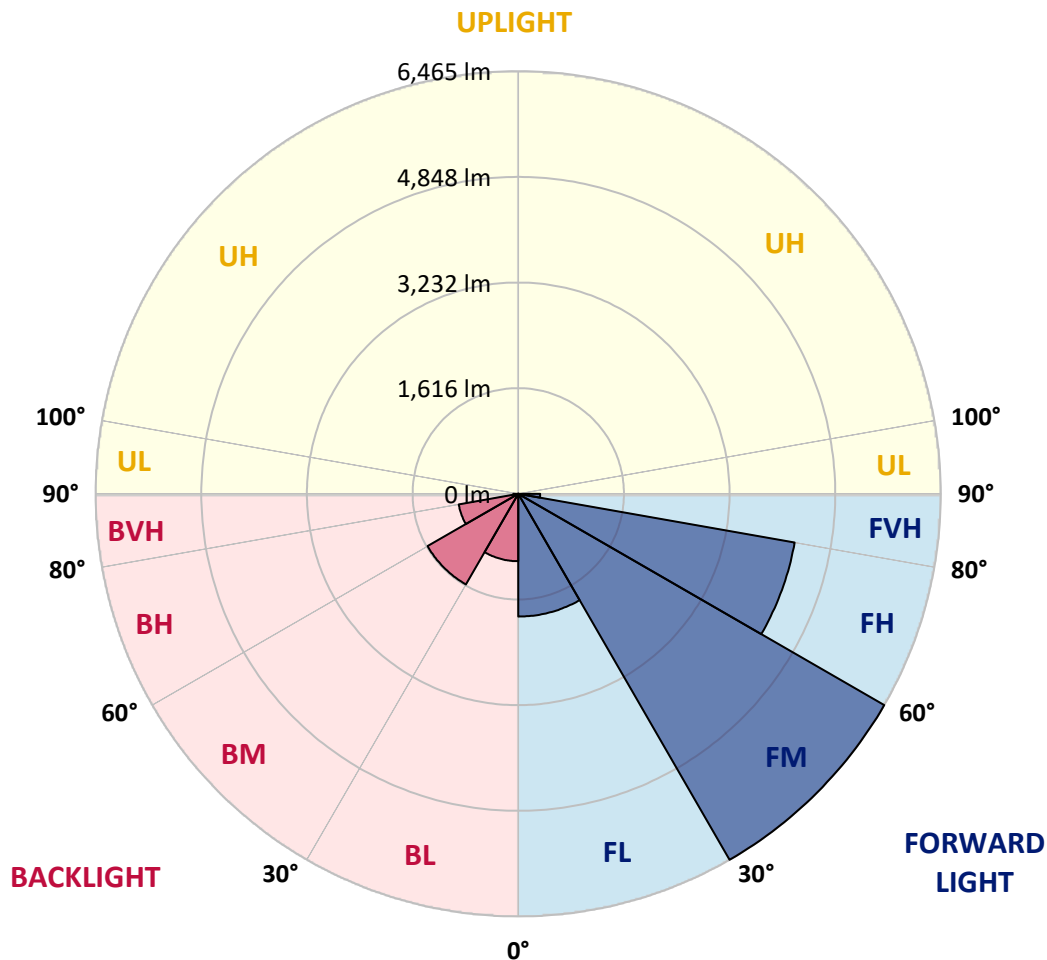
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1877.7	11.3			
FM (30°-60°)	6464.5	38.9			
FH (60°-80°)	4293.0	25.9			G2/5000
FVH (80°-90°)	335.2	2.0			G3/500
BL (0°-30°)	1030.7	6.2	B3/2500		
BM (30°-60°)	1601.3	9.6	B2/2500		
BH (60°-80°)	924.7	5.6	B2/1000		G2/1000
BVH (80°-90°)	75.0	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4166.5	4166.5	4166.5	4166.5	4166.5	4166.5	4166.5	4166.5	4166.5	4166.5	4166.5
2.5°	4628.7	4611.2	4561.9	4432.7	4302.3	4169.8	4067.9	3940.8	3808.3	3737.2	3646.2
5°	4692.3	4672.5	4556.5	4265.0	4001.1	3724.0	3502.8	3308.9	3230.0	3113.9	3020.8
7.5°	4543.3	4534.5	4360.3	3941.9	3580.6	3218.0	2967.1	2811.6	2670.3	2617.8	2628.7
10°	4407.4	4372.4	4154.5	3607.9	3186.2	2891.6	2712.0	2559.7	2460.0	2433.8	2439.2
12.5°	4294.7	4247.6	3990.1	3383.3	3014.2	2778.7	2549.8	2391.0	2300.1	2325.3	2410.7
15°	4271.6	4208.1	3921.2	3306.7	2920.0	2616.7	2365.8	2182.9	2115.0	2169.8	2306.7
17.5°	4420.6	4340.7	4039.4	3331.9	2830.2	2451.3	2143.5	1934.3	1877.4	1965.0	2143.5
20°	4899.2	4781.0	4408.5	3477.5	2821.5	2369.1	2014.3	1803.9	1828.1	1994.5	2180.7
22.5°	5784.2	5606.8	5054.7	3690.1	2867.5	2348.3	1988.0	1878.5	2011.0	2152.3	2274.9
25°	5959.5	5820.4	5170.9	3738.2	2857.6	2334.1	2062.5	2117.2	2265.1	2335.2	2292.5
27.5°	6058.1	5899.3	5163.2	3499.5	2555.3	2117.2	1971.6	2062.5	2099.6	2031.8	1915.6
30°	6288.1	6122.7	5293.6	3248.6	2104.1	1570.7	1376.8	1339.5	1364.8	1377.9	1336.3
32.5°	6604.6	6441.4	5538.9	3084.4	1819.3	1299.0	1108.4	1055.9	1043.8	1029.6	1013.2
35°	7014.3	6763.4	5779.9	2979.2	1702.1	1201.5	1026.3	985.7	969.3	949.7	932.1
37.5°	7430.5	7167.6	6084.4	2868.6	1624.3	1133.7	971.5	952.9	924.4	903.7	878.4
40°	7872.9	7578.3	6361.5	2772.2	1548.8	1089.9	932.1	929.9	892.6	868.6	839.0
42.5°	8256.3	7952.9	6609.0	2713.1	1490.7	1043.8	908.0	914.6	876.2	840.1	801.7
45°	8560.8	8262.9	6837.9	2713.1	1443.6	997.8	903.7	899.2	860.9	816.0	772.2
47.5°	8828.1	8520.3	7061.4	2782.0	1414.1	959.5	879.5	887.2	847.7	790.8	748.1
50°	9035.1	8763.5	7362.5	2889.4	1384.5	928.8	848.8	890.5	836.8	777.7	728.4
52.5°	9299.0	9055.9	7725.1	3036.2	1359.2	894.8	821.5	890.5	835.7	778.8	725.1
55°	9664.9	9408.6	8162.2	3157.7	1318.8	863.1	797.4	865.3	832.4	773.3	716.4
57.5°	9921.2	9729.5	8471.0	3238.8	1260.7	822.6	775.5	841.2	818.2	752.4	690.0
58°	9933.2	9745.9	8515.9	3257.4	1246.4	814.9	770.0	830.2	811.6	743.7	681.3
60°	9795.2	9634.2	8524.7	3231.1	1165.4	776.6	741.5	785.3	776.6	692.2	634.2
62.5°	9293.6	9121.6	8170.9	3017.5	1058.1	729.5	697.7	725.1	705.3	619.9	566.2
65°	8580.6	8264.0	7443.6	2682.4	981.4	679.1	638.6	640.8	619.9	558.6	511.5
67.5°	7630.9	7277.2	6302.3	2260.7	923.3	623.2	568.4	563.0	537.8	498.4	460.0
70°	6462.2	6220.2	5121.6	1839.0	858.7	561.9	489.6	486.4	471.0	441.4	407.5
72.5°	5237.7	4929.9	4135.9	1472.1	779.9	502.7	416.2	422.8	403.1	382.2	351.6
75°	3865.3	3663.7	3197.1	1180.8	673.6	438.1	347.2	349.4	340.6	318.7	294.6
77.5°	2545.5	2485.2	2287.0	775.5	518.1	348.3	283.7	285.9	279.3	259.6	234.4
80°	1713.0	1672.5	1549.9	499.5	346.1	251.9	219.1	221.3	220.2	199.3	165.4
82.5°	1055.9	1038.3	998.9	337.3	239.9	180.7	144.6	151.1	163.2	140.2	112.8
85°	498.4	499.5	603.5	184.0	141.3	116.1	78.9	84.4	84.4	84.4	63.5
87.5°	64.6	67.9	83.3	77.8	51.5	43.8	28.5	24.1	20.8	27.4	19.7
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4166.5	4166.5	4166.5	4166.5	4166.5	4166.5	4166.5	4166.5	4166.5	4166.5	4166.5
2.5°	3614.4	3592.6	3545.5	3534.6	3527.9	3546.6	3497.3	3510.4	3488.6	3549.9	3540.0
5°	3026.3	3028.5	3066.8	3092.0	3100.8	3092.0	3059.1	3002.2	2958.4	2940.9	2945.3
7.5°	2607.9	2646.2	2712.0	2785.3	2852.2	2871.8	2853.3	2744.8	2626.5	2552.0	2528.0
10°	2468.8	2520.3	2595.8	2653.9	2713.1	2760.2	2770.0	2685.6	2545.5	2369.1	2300.1
12.5°	2476.5	2546.5	2618.9	2637.5	2632.0	2650.6	2641.8	2627.6	2535.6	2311.1	2196.1
15°	2404.2	2487.4	2537.8	2528.0	2510.4	2494.0	2470.9	2434.9	2402.0	2244.3	2117.2
17.5°	2237.6	2323.1	2364.7	2368.0	2368.0	2363.6	2307.8	2294.7	2290.3	2213.6	2135.8
20°	2268.3	2315.4	2296.9	2266.2	2274.9	2304.5	2271.6	2265.1	2290.3	2324.2	2310.0
22.5°	2285.8	2269.4	2129.2	1993.4	1962.7	2054.7	2073.4	2146.7	2248.7	2371.3	2451.3
25°	2177.4	2044.9	1794.1	1640.8	1554.3	1639.6	1751.4	1887.2	2039.4	2197.2	2290.3
27.5°	1820.3	1719.6	1540.0	1401.9	1326.4	1339.5	1434.8	1558.6	1699.9	1806.1	1874.1
30°	1371.3	1326.4	1233.3	1186.2	1140.2	1129.2	1169.7	1216.8	1279.3	1292.4	1309.9
32.5°	1009.9	1003.3	1008.8	993.5	984.6	983.5	971.5	982.5	989.0	996.8	981.4
35°	913.5	904.7	889.4	885.0	879.5	881.7	876.2	870.8	875.1	881.7	886.1
37.5°	864.2	851.0	829.1	821.5	821.5	824.8	816.0	813.8	821.5	842.3	853.2
40°	825.9	810.6	785.3	775.5	782.0	790.8	778.8	774.4	793.0	814.9	832.4
42.5°	789.7	777.7	753.5	742.6	748.1	764.6	747.0	743.7	767.8	791.9	812.7
45°	759.0	747.0	725.1	719.6	721.8	737.1	725.1	725.1	748.1	774.4	793.0
47.5°	734.9	719.6	705.3	701.0	703.2	711.9	709.7	709.7	731.7	759.0	777.7
50°	710.8	697.7	679.1	681.3	686.8	698.8	697.7	701.0	722.9	756.8	776.6
52.5°	699.9	680.2	659.3	661.5	678.0	692.2	687.9	691.1	716.4	779.9	808.3
55°	687.9	661.5	637.5	640.8	659.3	680.2	674.7	679.1	708.6	795.2	834.6
57.5°	664.8	634.2	607.9	610.1	637.5	659.3	650.6	656.1	691.1	778.8	820.4
58°	655.0	628.7	603.5	604.6	630.9	655.0	645.1	649.5	685.7	774.4	813.8
60°	613.3	598.0	576.1	577.2	602.4	623.2	617.7	622.1	657.2	742.6	772.2
62.5°	556.4	547.7	542.2	542.2	557.5	577.2	582.7	588.2	619.9	671.5	697.7
65°	495.1	495.1	496.2	496.2	506.0	531.3	534.5	548.8	578.4	603.5	623.2
67.5°	453.5	451.3	453.5	448.0	452.4	467.7	484.1	497.3	527.9	545.5	552.0
70°	399.8	398.7	399.8	392.1	397.6	410.7	421.7	443.6	475.3	488.5	491.8
72.5°	347.2	347.2	349.4	343.9	343.9	358.2	365.8	389.9	419.5	427.1	428.2
75°	292.4	295.7	295.7	288.0	290.2	299.0	308.9	328.6	356.0	361.5	361.5
77.5°	232.2	244.2	244.2	236.6	239.9	240.9	254.2	264.0	284.8	286.9	278.2
80°	168.7	180.7	190.6	184.0	189.5	182.9	190.6	197.1	218.0	208.1	193.9
82.5°	120.5	129.3	136.9	138.0	132.5	120.5	130.4	131.4	141.3	128.2	120.5
85°	66.8	74.5	84.4	80.0	71.2	63.5	66.8	69.0	67.9	64.6	60.2
87.5°	17.5	18.6	20.8	15.3	14.2	12.0	16.4	16.4	18.6	19.7	18.6
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	4166.5	4166.5	4166.5	4166.5	4166.5	4166.5	4166.5	4166.5	4166.5	4166.5	4166.5
2.5°	3547.7	3595.9	3699.9	3778.8	3875.2	3992.3	4130.3	4269.4	4419.5	4466.6	4532.3
5°	2935.4	3055.9	3106.2	3249.7	3392.1	3605.7	3833.5	4097.5	4386.7	4525.8	4659.4
7.5°	2508.2	2572.9	2625.4	2730.6	2901.4	3161.0	3446.9	3776.6	4186.2	4388.8	4584.9
10°	2278.2	2284.7	2349.4	2479.8	2628.7	2857.6	3128.2	3497.3	3954.0	4200.5	4430.5
12.5°	2126.0	2097.5	2167.6	2303.4	2472.1	2683.5	2932.1	3283.7	3786.4	4039.4	4317.6
15°	1992.3	1947.4	2000.0	2139.1	2305.6	2554.2	2821.5	3193.9	3720.8	4015.4	4324.3
17.5°	1995.6	1871.9	1890.5	2007.6	2173.1	2426.1	2750.3	3190.6	3820.4	4159.9	4525.8
20°	2242.1	2043.8	1959.4	1981.4	2141.3	2417.3	2783.1	3343.9	4147.9	4643.0	5034.0
22.5°	2484.1	2364.7	2228.9	2184.0	2271.6	2560.8	2992.4	3706.5	4859.8	5605.7	6312.2
25°	2399.8	2501.6	2467.7	2404.2	2423.8	2663.8	3134.7	4004.4	5412.9	6253.0	6916.8
27.5°	1920.1	2105.2	2142.4	2141.3	2149.0	2346.1	2819.3	3803.9	5482.0	6376.8	7011.0
30°	1349.4	1365.9	1385.5	1423.9	1459.0	1635.2	2205.9	3339.5	5451.3	6432.6	7067.9
32.5°	973.7	995.7	1023.0	1075.6	1158.8	1383.4	1929.9	3191.7	5613.4	6663.7	7234.5
35°	890.5	915.7	941.9	1002.2	1081.0	1289.2	1820.3	3130.4	5879.5	7038.3	7533.4
37.5°	864.2	892.6	915.7	959.5	1023.0	1221.2	1720.7	3088.7	6152.3	7434.9	7934.3
40°	845.5	878.4	897.0	932.1	975.9	1158.8	1632.0	3055.9	6416.2	7797.4	8256.3
42.5°	829.1	863.1	887.2	912.4	948.6	1103.0	1553.2	3023.0	6645.2	8149.0	8577.3
45°	809.5	852.1	882.8	902.6	934.3	1055.9	1492.9	2996.7	6905.9	8461.1	8901.5
47.5°	793.0	840.1	878.4	901.5	913.5	1023.0	1444.7	3032.9	7219.1	8787.5	9202.6
50°	794.1	839.0	887.2	923.3	891.5	995.7	1415.2	3176.4	7626.5	9175.3	9440.3
52.5°	829.1	883.9	922.2	931.0	860.9	962.8	1399.8	3427.2	8108.5	9518.1	9680.2
55°	868.6	925.5	967.2	961.7	844.4	921.1	1396.5	3694.4	8636.4	9917.9	9992.3
57.5°	854.3	937.5	1001.1	972.6	845.5	880.6	1382.3	3910.2	9077.8	10216.9	10301.2
58°	849.9	933.2	1005.5	970.4	842.3	868.6	1379.0	3928.8	9139.1	10237.7	10345.1
60°	807.2	894.8	1002.2	954.0	823.7	835.7	1342.8	3989.0	9122.7	10130.3	10371.4
62.5°	729.5	801.7	926.6	874.1	766.7	791.9	1261.8	3914.6	8678.0	9613.4	9986.9
65°	641.9	695.5	778.8	768.9	685.7	747.0	1151.2	3619.9	7787.6	8774.4	9167.6
67.5°	576.1	619.9	672.5	658.3	616.6	686.8	1031.7	3121.6	6788.6	7766.7	8261.8
70°	509.3	543.3	569.5	559.7	546.6	627.6	925.5	2533.4	5831.3	6809.4	7289.2
72.5°	441.4	473.1	495.1	480.8	473.1	565.2	839.0	1966.1	4605.7	5617.8	6234.4
75°	369.1	400.9	416.2	399.8	395.4	498.4	710.8	1468.8	3455.7	4330.8	4863.1
77.5°	285.9	319.8	339.5	334.0	336.2	409.7	573.9	1005.5	2470.9	2951.8	3512.6
80°	200.4	237.7	250.8	245.3	260.7	312.2	405.3	638.6	1704.3	1915.6	2311.1
82.5°	123.8	158.8	161.0	166.5	177.5	231.1	305.6	388.8	1070.1	1106.3	1393.2
85°	62.4	75.6	81.1	89.8	99.7	141.3	174.2	240.9	688.9	521.3	778.8
87.5°	20.8	21.9	26.3	32.9	40.5	58.0	74.5	98.6	170.9	94.2	240.9
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4166.5	4166.5	4166.5	4166.5	4166.5	4166.5	4166.5	4166.5	4166.5	4166.5
2.5°	4664.9	4758.0	4825.8	4888.3	4828.1	4822.5	4763.4	4668.1	4628.7	4628.7
5°	4939.8	5157.8	5334.0	5446.9	5398.7	5282.6	5090.9	4846.7	4715.2	4692.3
7.5°	5015.4	5445.8	5773.3	5889.4	5808.4	5552.0	5185.1	4773.3	4584.9	4543.3
10°	4969.4	5529.1	6009.9	6193.9	6081.1	5693.3	5192.8	4687.8	4455.6	4407.4
12.5°	4921.2	5540.0	6053.7	6319.9	6246.4	5807.3	5248.7	4632.0	4363.6	4294.7
15°	4956.2	5544.4	6000.0	6275.0	6322.0	5944.2	5340.7	4672.5	4345.0	4271.6
17.5°	5177.4	5627.6	5923.3	6145.7	6311.1	6130.4	5602.4	4866.4	4511.5	4420.6
20°	5639.7	5827.0	5967.1	6139.1	6405.3	6510.4	6138.0	5398.7	4979.2	4899.2
22.5°	6978.1	6944.1	6657.2	6653.9	7039.4	7461.2	7436.0	6480.8	5850.0	5784.2
25°	7479.8	7322.1	6907.0	6806.1	6975.9	7626.5	7532.3	6702.1	6119.4	5959.5
27.5°	7283.7	6892.7	6619.9	6597.0	6541.1	7155.6	7382.3	6791.9	6213.6	6058.1
30°	7271.6	6696.6	6306.7	6352.7	6406.4	6993.4	7465.6	7073.4	6454.6	6288.1
32.5°	7301.2	6724.0	6329.7	6338.4	6498.4	7017.6	7557.6	7380.1	6771.1	6604.6
35°	7420.6	6879.5	6476.5	6455.7	6705.4	7175.2	7714.2	7862.0	7203.8	7014.3
37.5°	7613.4	7189.5	6744.8	6739.4	7101.9	7460.0	7909.1	8348.4	7634.2	7430.5
40°	7897.1	7552.0	7222.3	7192.8	7640.7	7923.4	8162.2	8866.4	8134.7	7872.9
42.5°	8239.9	7986.9	7852.2	7969.4	8399.8	8443.6	8556.4	9345.0	8560.8	8256.3
45°	8557.5	8545.5	8732.8	9043.9	9294.6	9031.8	8968.3	9665.9	8891.6	8560.8
47.5°	8935.4	9261.8	9827.0	10282.7	10545.5	9716.3	9319.9	9875.2	9132.6	8828.1
50°	9318.8	10119.4	11022.0	11657.2	11713.1	10460.0	9561.9	10072.3	9351.6	9035.1
52.5°	9721.8	10804.0	12005.5	12743.8	12635.4	11107.3	9796.3	10206.0	9577.2	9299.0
55°	10072.3	11223.5	12555.4	13264.0	13105.2	11501.7	10049.4	10350.5	9899.2	9664.9
57.5°	10268.4	11258.6	12418.5	13037.3	12865.4	11425.0	10165.4	10457.8	10105.2	9921.2
58°	10296.9	11211.5	12296.8	12905.8	12730.6	11360.4	10164.3	10453.5	10118.3	9933.2
60°	10271.6	10905.8	11844.5	12386.7	12202.7	10955.1	10122.7	10371.4	9951.8	9795.2
62.5°	10038.3	10375.8	11063.6	11457.9	11405.3	10322.0	9951.8	10061.4	9444.7	9293.6
65°	9731.7	9652.8	10063.6	10342.9	10382.3	9847.8	9782.1	9391.0	8794.1	8580.6
67.5°	9359.3	8833.5	8832.4	8991.3	9057.0	9118.3	9428.3	8662.7	7856.5	7630.9
70°	8727.3	7570.7	7222.3	7409.6	7354.9	7872.9	8796.3	7639.6	6726.2	6462.2
72.5°	7568.5	6007.7	5450.2	5691.1	5553.1	6174.2	7696.7	6287.0	5561.9	5237.7
75°	6134.8	4494.0	3919.0	4140.2	4054.8	4683.4	6404.2	4566.3	3989.0	3865.3
77.5°	4763.4	3256.3	2922.2	2891.6	2955.1	3485.2	4697.7	3083.3	2629.8	2545.5
80°	3060.2	2330.7	2350.5	2311.1	2344.0	2197.2	2852.2	1967.2	1781.0	1713.0
82.5°	2014.3	1624.3	1936.5	1787.5	1697.7	1477.6	1870.7	1288.1	1093.1	1055.9
85°	1372.4	1196.1	1088.8	832.4	980.3	1138.0	1403.0	693.3	549.8	498.4
87.5°	619.9	416.2	305.6	188.4	297.9	343.9	681.3	81.1	62.4	64.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)