

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: P453598

Luminaire Tested: **GLAN-SA4C-827-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453598
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-SA4C-827-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1050mA 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: 17623 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 213
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

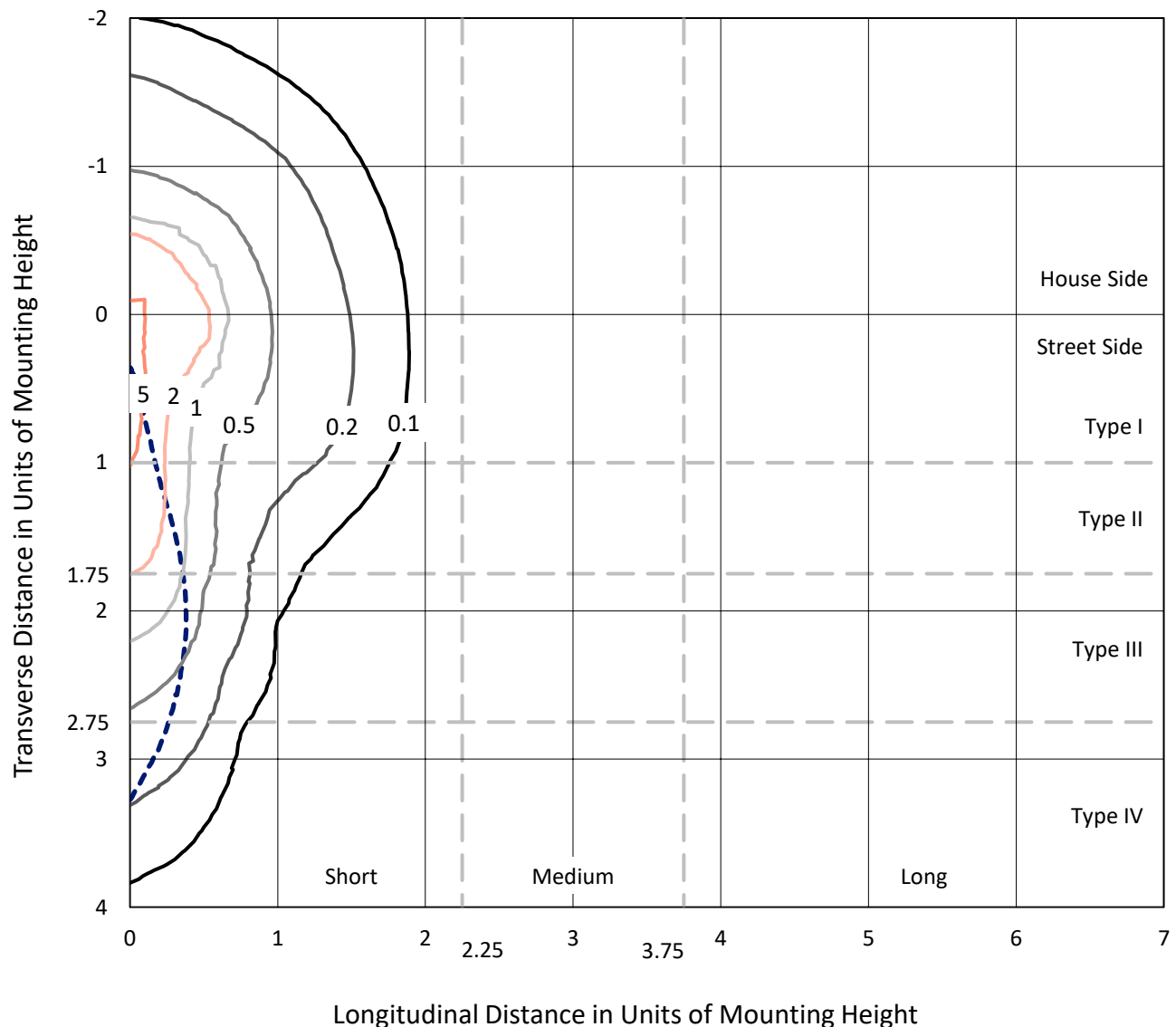


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

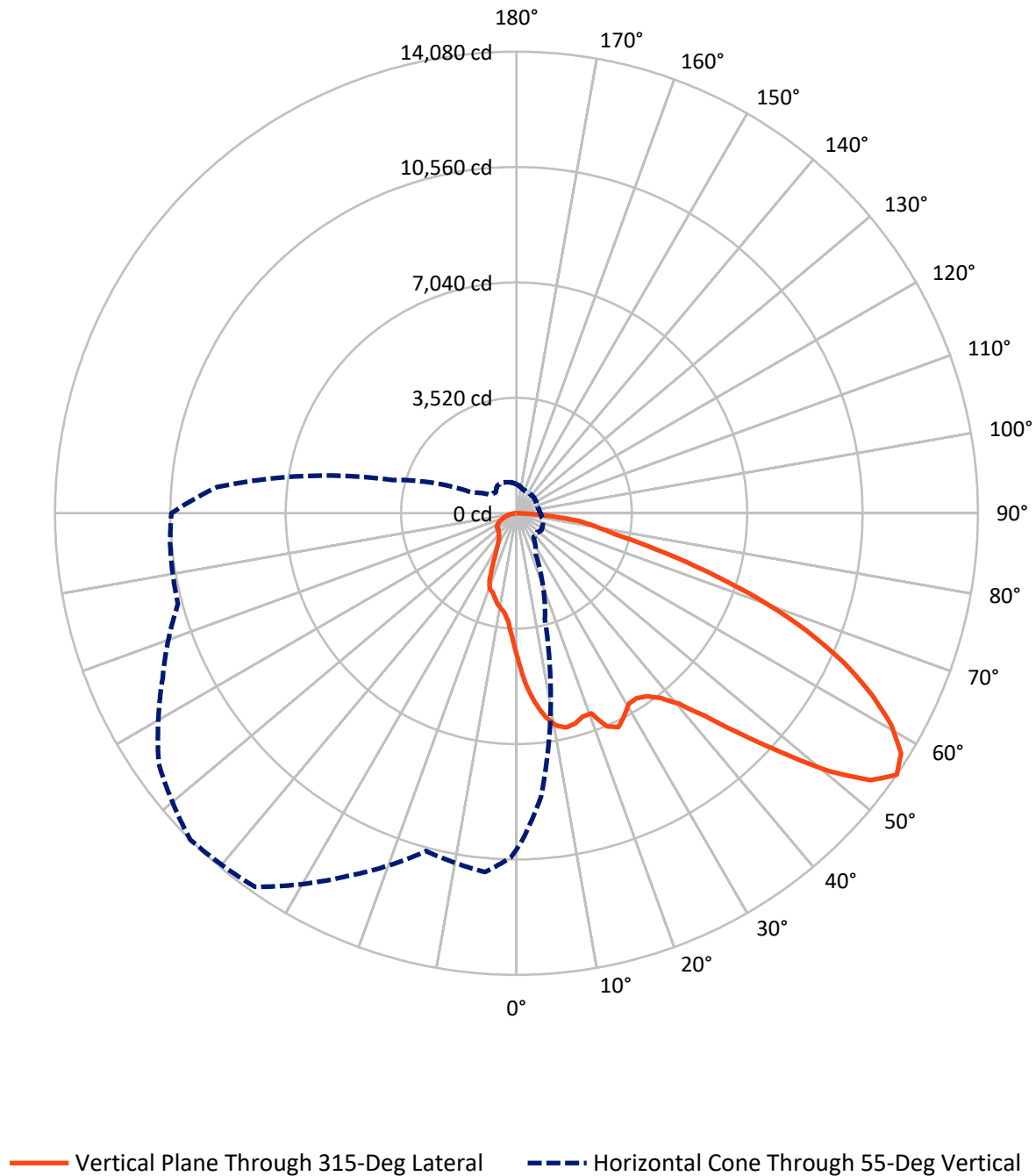


Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3855.0	0.0	3855.0
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	13768.0	0.0	13768.0
	% Fixture	78.1	0.0	78.1
Total	Lumens	17623.0	0.0	17623.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.8	2.1
10°-20°	994.4	5.6
20°-30°	1718.0	9.7
30°-40°	1996.5	11.3
40°-50°	2785.6	15.8
50°-60°	3779.7	21.4
60°-70°	3595.9	20.4
70°-80°	1942.6	11.0
80°-90°	435.4	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°	17623.0	100.0
0°-180°	17623.0	100.0

Coefficient of Utilization



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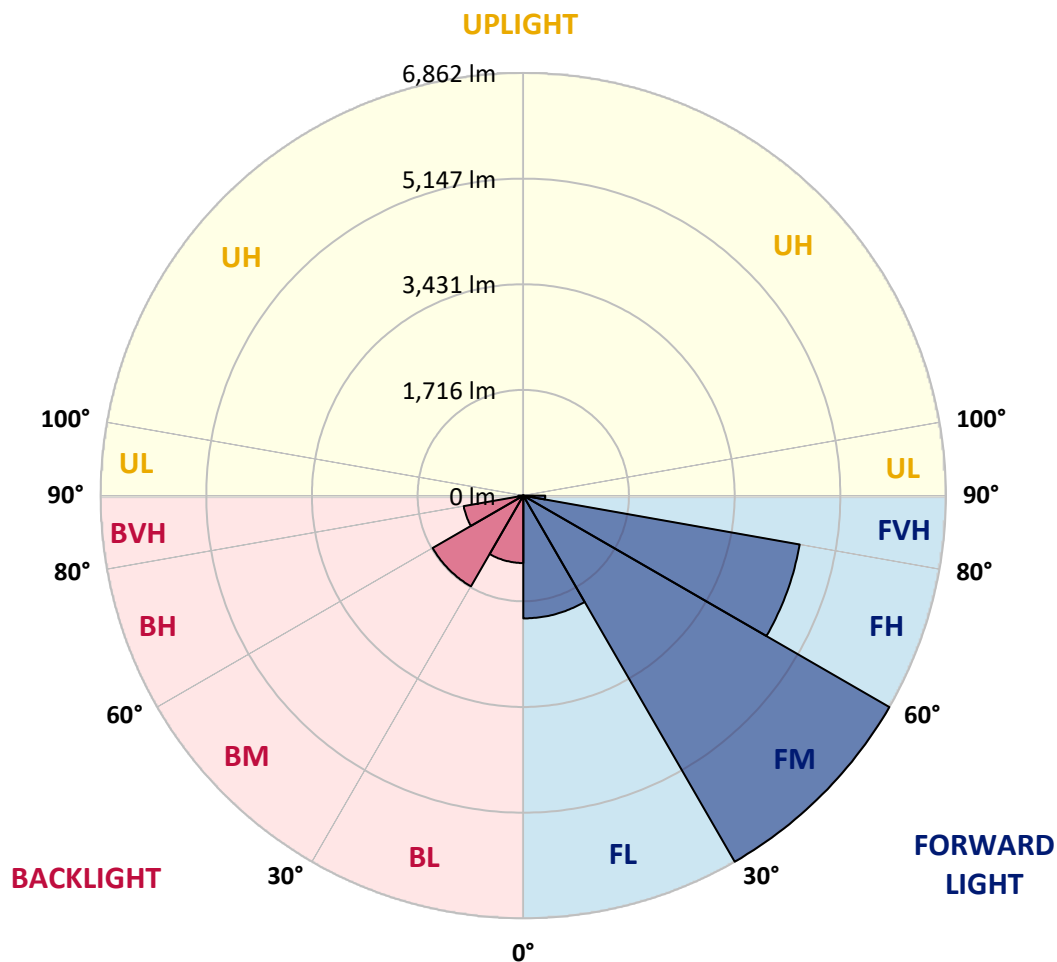
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1993.2	11.3			
FM	(30°-60°)	6862.0	38.9			
FH	(60°-80°)	4557.0	25.9			G2/5000
FVH	(80°-90°)	355.8	2.0			G3/500
BL	(0°-30°)	1094.0	6.2	B3/2500		
BM	(30°-60°)	1699.8	9.6	B2/2500		
BH	(60°-80°)	981.6	5.6	B2/1000		G2/1000
BVH	(80°-90°)	79.6	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°	4422.7	4422.7	4422.7	4422.7	4422.7	4422.7	4422.7	4422.7	4422.7	4422.7	4422.7
2.5°	4913.3	4894.7	4842.4	4705.2	4566.9	4426.2	4318.0	4183.2	4042.5	3966.9	3870.4
5°	4980.8	4959.8	4836.6	4527.3	4247.1	3953.0	3718.1	3512.3	3428.6	3305.4	3206.6
7.5°	4822.6	4813.3	4628.5	4184.3	3800.7	3415.8	3149.6	2984.5	2834.5	2778.7	2790.3
10°	4678.5	4641.3	4409.9	3829.7	3382.1	3069.4	2878.7	2717.1	2611.3	2583.4	2589.2
12.5°	4558.7	4508.7	4235.5	3591.4	3199.6	2949.6	2706.6	2538.0	2441.5	2468.3	2559.0
15°	4534.3	4466.9	4162.3	3510.0	3099.6	2777.5	2511.3	2317.1	2245.1	2303.2	2448.5
17.5°	4692.4	4607.5	4287.8	3536.8	3004.3	2602.0	2275.3	2053.2	1992.8	2085.8	2275.3
20°	5200.5	5074.9	4679.6	3691.4	2995.0	2514.8	2138.1	1914.9	1940.4	2117.2	2314.8
22.5°	6139.9	5951.6	5365.6	3916.9	3043.8	2492.7	2110.2	1993.9	2134.6	2284.6	2414.8
25°	6325.9	6178.3	5488.8	3968.1	3033.3	2477.6	2189.3	2247.4	2404.3	2478.7	2433.4
27.5°	6430.6	6262.0	5480.7	3714.6	2712.4	2247.4	2092.8	2189.3	2228.8	2156.7	2033.5
30°	6674.7	6499.2	5619.0	3448.4	2233.4	1667.2	1461.4	1421.9	1448.7	1462.6	1418.4
32.5°	7010.7	6837.5	5879.5	3274.0	1931.1	1378.9	1176.6	1120.8	1108.0	1092.9	1075.4
35°	7445.5	7179.3	6135.3	3162.4	1806.7	1275.4	1089.4	1046.4	1028.9	1008.0	989.4
37.5°	7887.4	7608.3	6458.5	3045.0	1724.2	1203.3	1031.3	1011.5	981.3	959.2	932.4
40°	8357.1	8044.3	6752.6	2942.6	1644.0	1156.8	989.4	987.1	947.6	922.0	890.6
42.5°	8764.0	8441.9	7015.4	2879.9	1582.4	1108.0	963.8	970.8	930.1	891.7	851.1
45°	9087.2	8771.0	7258.4	2879.9	1532.4	1059.2	959.2	954.5	913.8	866.2	819.7
47.5°	9370.9	9044.2	7495.5	2953.1	1501.0	1018.5	933.6	941.7	899.9	839.4	794.1
50°	9590.6	9302.3	7815.3	3067.0	1469.6	985.9	901.0	945.2	888.3	825.5	773.2
52.5°	9870.8	9612.7	8200.1	3222.8	1442.8	949.9	872.0	945.2	887.1	826.6	769.7
55°	10259.1	9987.1	8664.0	3351.9	1399.8	916.2	846.4	918.5	883.6	820.8	760.4
57.5°	10531.2	10327.7	8991.9	3437.9	1338.2	873.1	823.1	892.9	868.5	798.7	732.5
58°	10544.0	10345.2	9039.5	3457.7	1323.1	865.0	817.3	881.3	861.5	789.4	723.2
60°	10397.5	10226.6	9048.8	3429.8	1237.0	824.3	787.1	833.6	824.3	734.8	673.2
62.5°	9865.0	9682.5	8673.3	3203.1	1123.1	774.3	740.6	769.7	748.7	658.1	601.1
65°	9108.1	8772.1	7901.3	2847.3	1041.7	720.8	677.8	680.1	658.1	592.9	543.0
67.5°	8100.1	7724.6	6689.8	2399.7	980.1	661.5	603.4	597.6	570.9	529.0	488.3
70°	6859.6	6602.6	5436.5	1952.1	911.5	596.4	519.7	516.2	499.9	468.5	432.5
72.5°	5559.7	5233.0	4390.1	1562.6	827.8	533.7	441.8	448.8	427.9	405.8	373.2
75°	4103.0	3889.0	3393.7	1253.3	715.0	465.1	368.6	370.9	361.6	338.3	312.8
77.5°	2702.0	2638.0	2427.6	823.1	549.9	369.7	301.1	303.4	296.5	275.5	248.8
80°	1818.4	1775.4	1645.1	530.2	367.4	267.4	232.5	234.9	233.7	211.6	175.6
82.5°	1120.8	1102.2	1060.3	358.1	254.6	191.8	153.5	160.4	173.2	148.8	119.8
85°	529.0	530.2	640.6	195.3	150.0	123.2	83.7	89.5	89.5	89.5	67.4
87.5°	68.6	72.1	88.4	82.5	54.6	46.5	30.2	25.6	22.1	29.1	20.9
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4422.7	4422.7	4422.7	4422.7	4422.7	4422.7	4422.7	4422.7	4422.7	4422.7	4422.7
2.5°	3836.7	3813.5	3763.5	3751.8	3744.9	3764.6	3712.3	3726.3	3703.0	3768.1	3757.7
5°	3212.4	3214.7	3255.4	3282.1	3291.4	3282.1	3247.3	3186.8	3140.3	3121.7	3126.3
7.5°	2768.2	2808.9	2878.7	2956.6	3027.5	3048.4	3028.7	2913.6	2788.0	2709.0	2683.4
10°	2620.6	2675.2	2755.5	2817.1	2879.9	2929.9	2940.3	2850.8	2702.0	2514.8	2441.5
12.5°	2628.7	2703.1	2779.9	2799.6	2793.8	2813.6	2804.3	2789.2	2691.5	2453.2	2331.1
15°	2552.0	2640.4	2693.8	2683.4	2664.8	2647.3	2622.9	2584.5	2549.7	2382.3	2247.4
17.5°	2375.3	2466.0	2510.1	2513.6	2513.6	2509.0	2449.7	2435.7	2431.1	2349.7	2267.1
20°	2407.8	2457.8	2438.1	2405.5	2414.8	2446.2	2411.3	2404.3	2431.1	2467.1	2452.0
22.5°	2426.4	2409.0	2260.2	2116.0	2083.5	2181.1	2200.9	2278.8	2386.9	2517.1	2602.0
25°	2311.3	2170.6	1904.4	1741.6	1649.8	1740.5	1859.1	2003.2	2164.8	2332.3	2431.1
27.5°	1932.3	1825.3	1634.7	1488.2	1408.0	1421.9	1523.1	1654.4	1804.4	1917.2	1989.3
30°	1455.6	1408.0	1309.1	1259.1	1210.3	1198.7	1241.7	1291.7	1358.0	1371.9	1390.5
32.5°	1072.0	1065.0	1070.8	1054.5	1045.2	1044.1	1031.3	1042.9	1049.9	1058.0	1041.7
35°	969.6	960.3	944.1	939.4	933.6	935.9	930.1	924.3	928.9	935.9	940.6
37.5°	917.3	903.4	880.1	872.0	872.0	875.5	866.2	863.8	872.0	894.1	905.7
40°	876.6	860.4	833.6	823.1	830.1	839.4	826.6	822.0	841.8	865.0	883.6
42.5°	838.3	825.5	799.9	788.3	794.1	811.5	792.9	789.4	815.0	840.6	862.7
45°	805.7	792.9	769.7	763.9	766.2	782.5	769.7	769.7	794.1	822.0	841.8
47.5°	780.1	763.9	748.7	744.1	746.4	755.7	753.4	753.4	776.6	805.7	825.5
50°	754.6	740.6	720.8	723.2	729.0	741.8	740.6	744.1	767.3	803.4	824.3
52.5°	742.9	722.0	699.9	702.2	719.7	734.8	730.1	733.6	760.4	827.8	858.0
55°	730.1	702.2	676.7	680.1	699.9	722.0	716.2	720.8	752.2	844.1	885.9
57.5°	705.7	673.2	645.3	647.6	676.7	699.9	690.6	696.4	733.6	826.6	870.8
58°	695.3	667.4	640.6	641.8	669.7	695.3	684.8	689.4	727.8	822.0	863.8
60°	651.1	634.8	611.5	612.7	639.5	661.5	655.7	660.4	697.6	788.3	819.7
62.5°	590.6	581.3	575.5	575.5	591.8	612.7	618.5	624.3	658.1	712.7	740.6
65°	525.5	525.5	526.7	526.7	537.1	563.9	567.4	582.5	613.9	640.6	661.5
67.5°	481.3	479.0	481.3	475.5	480.2	496.4	513.9	527.8	560.4	579.0	586.0
70°	424.4	423.2	424.4	416.2	422.0	436.0	447.6	470.9	504.6	518.5	522.0
72.5°	368.6	368.6	370.9	365.1	365.1	380.2	388.3	413.9	445.3	453.4	454.6
75°	310.4	313.9	313.9	305.8	308.1	317.4	327.9	348.8	377.9	383.7	383.7
77.5°	246.5	259.3	259.3	251.1	254.6	255.8	269.7	280.2	302.3	304.6	295.3
80°	179.0	191.8	202.3	195.3	201.1	194.2	202.3	209.3	231.4	220.9	205.8
82.5°	127.9	137.2	145.3	146.5	140.7	127.9	138.4	139.5	150.0	136.0	127.9
85°	70.9	79.1	89.5	84.9	75.6	67.4	70.9	73.2	72.1	68.6	63.9
87.5°	18.6	19.8	22.1	16.3	15.1	12.8	17.4	17.4	19.8	20.9	19.8
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°	4422.7	4422.7	4422.7	4422.7	4422.7	4422.7	4422.7	4422.7	4422.7	4422.7	4422.7
2.5°	3765.8	3816.9	3927.4	4011.1	4113.4	4237.8	4384.3	4532.0	4691.3	4741.2	4811.0
5°	3115.9	3243.8	3297.2	3449.6	3600.7	3827.4	4069.2	4349.4	4656.4	4804.0	4945.9
7.5°	2662.4	2731.0	2786.8	2898.5	3079.8	3355.4	3658.8	4008.8	4443.6	4658.7	4866.8
10°	2418.3	2425.3	2493.9	2632.2	2790.3	3033.3	3320.5	3712.3	4197.1	4458.7	4702.9
12.5°	2256.7	2226.5	2300.9	2445.0	2624.1	2848.5	3112.4	3485.6	4019.2	4287.8	4583.1
15°	2114.8	2067.2	2123.0	2270.6	2447.4	2711.3	2995.0	3390.3	3949.5	4262.2	4590.1
17.5°	2118.3	1987.0	2006.7	2131.1	2306.7	2575.2	2919.4	3386.8	4055.3	4415.7	4804.0
20°	2379.9	2169.5	2080.0	2103.2	2273.0	2565.9	2954.3	3549.5	4402.9	4928.4	5343.5
22.5°	2636.9	2510.1	2366.0	2318.3	2411.3	2718.3	3176.3	3934.4	5158.6	5950.4	6700.3
25°	2547.3	2655.5	2619.4	2552.0	2572.9	2827.5	3327.5	4250.6	5745.8	6637.5	7342.1
27.5°	2038.1	2234.6	2274.1	2273.0	2281.1	2490.4	2992.6	4037.9	5819.0	6768.9	7442.1
30°	1432.4	1449.8	1470.7	1511.4	1548.6	1735.8	2341.6	3544.9	5786.5	6828.2	7502.5
32.5°	1033.6	1056.8	1085.9	1141.7	1230.1	1468.4	2048.6	3387.9	5958.5	7073.5	7679.2
35°	945.2	972.0	999.9	1063.8	1147.5	1368.4	1932.3	3322.8	6241.1	7471.1	7996.6
37.5°	917.3	947.6	972.0	1018.5	1085.9	1296.3	1826.5	3278.6	6530.6	7892.0	8422.2
40°	897.6	932.4	952.2	989.4	1035.9	1230.1	1732.3	3243.8	6810.7	8276.8	8764.0
42.5°	880.1	916.2	941.7	968.5	1006.8	1170.8	1648.6	3208.9	7053.7	8650.0	9104.6
45°	859.2	904.5	937.1	958.0	991.7	1120.8	1584.7	3181.0	7330.4	8981.4	9448.8
47.5°	841.8	891.7	932.4	956.9	969.6	1085.9	1533.5	3219.4	7663.0	9327.9	9768.5
50°	842.9	890.6	941.7	980.1	946.4	1056.8	1502.1	3371.7	8095.5	9739.4	10020.8
52.5°	880.1	938.3	978.9	988.2	913.8	1022.0	1485.9	3637.9	8607.0	10103.3	10275.4
55°	922.0	982.4	1026.6	1020.8	896.4	977.8	1482.4	3921.6	9167.4	10527.7	10606.8
57.5°	906.9	995.2	1062.7	1032.4	897.6	934.8	1467.3	4150.6	9636.0	10845.1	10934.6
58°	902.2	990.6	1067.3	1030.1	894.1	922.0	1463.8	4170.4	9701.1	10867.2	10981.1
60°	856.9	949.9	1063.8	1012.7	874.3	887.1	1425.4	4234.3	9683.6	10753.3	11009.0
62.5°	774.3	851.1	983.6	927.8	813.8	840.6	1339.4	4155.3	9211.6	10204.5	10601.0
65°	681.3	738.3	826.6	816.2	727.8	792.9	1221.9	3842.5	8266.4	9313.9	9731.3
67.5°	611.5	658.1	713.9	698.7	654.6	729.0	1095.2	3313.5	7206.0	8244.3	8769.8
70°	540.6	576.7	604.6	594.1	580.2	666.2	982.4	2689.2	6189.9	7228.1	7737.4
72.5°	468.5	502.3	525.5	510.4	502.3	599.9	890.6	2086.9	4888.9	5963.2	6617.7
75°	391.8	425.5	441.8	424.4	419.7	529.0	754.6	1559.1	3668.1	4597.1	5162.1
77.5°	303.4	339.5	360.4	354.6	356.9	434.8	609.2	1067.3	2622.9	3133.3	3728.6
80°	212.8	252.3	266.2	260.4	276.7	331.4	430.2	677.8	1809.1	2033.5	2453.2
82.5°	131.4	168.6	170.9	176.7	188.3	245.3	324.4	412.7	1135.9	1174.3	1478.9
85°	66.3	80.2	86.0	95.3	105.8	150.0	184.9	255.8	731.3	553.4	826.6
87.5°	22.1	23.3	27.9	34.9	43.0	61.6	79.1	104.6	181.4	100.0	255.8
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°	4422.7	4422.7	4422.7	4422.7	4422.7	4422.7	4422.7	4422.7	4422.7	4422.7
2.5°	4951.7	5050.5	5122.6	5188.9	5124.9	5119.1	5056.3	4955.2	4913.3	4913.3
5°	5243.5	5474.9	5662.1	5781.8	5730.7	5607.4	5404.0	5144.7	5005.2	4980.8
7.5°	5323.7	5780.6	6128.3	6251.5	6165.5	5893.4	5503.9	5066.8	4866.8	4822.6
10°	5274.9	5869.0	6379.4	6574.7	6455.0	6043.4	5512.1	4976.1	4729.6	4678.5
12.5°	5223.7	5880.6	6425.9	6708.4	6630.5	6164.3	5571.4	4916.8	4632.0	4558.7
15°	5260.9	5885.3	6368.9	6660.8	6710.8	6309.7	5669.0	4959.8	4612.2	4534.3
17.5°	5495.8	5973.6	6287.6	6523.6	6699.1	6507.3	5946.9	5165.6	4788.9	4692.4
20°	5986.4	6185.2	6334.1	6516.6	6799.1	6910.7	6515.4	5730.7	5285.4	5200.5
22.5°	7407.2	7371.1	7066.5	7063.0	7472.3	7919.9	7893.2	6879.3	6209.7	6139.9
25°	7939.7	7772.3	7331.6	7224.6	7404.9	8095.5	7995.5	7114.2	6495.7	6325.9
27.5°	7731.6	7316.5	7027.0	7002.6	6943.3	7595.5	7836.2	7209.5	6595.7	6430.6
30°	7718.8	7108.4	6694.5	6743.3	6800.3	7423.5	7924.6	7508.3	6851.4	6674.7
32.5°	7750.2	7137.5	6718.9	6728.2	6897.9	7449.0	8022.2	7833.9	7187.4	7010.7
35°	7876.9	7302.5	6874.7	6852.6	7117.7	7616.5	8188.5	8345.4	7646.7	7445.5
37.5°	8081.5	7631.6	7159.5	7153.7	7538.6	7918.7	8395.4	8861.6	8103.6	7887.4
40°	8382.6	8016.4	7666.5	7635.1	8110.6	8410.5	8664.0	9411.6	8634.9	8357.1
42.5°	8746.5	8478.0	8335.0	8459.4	8916.3	8962.8	9082.5	9919.6	9087.2	8764.0
45°	9083.7	9070.9	9269.7	9599.9	9866.2	9587.1	9519.7	10260.3	9438.3	9087.2
47.5°	9484.8	9831.3	10431.2	10914.9	11193.9	10313.8	9892.9	10482.4	9694.1	9370.9
50°	9891.7	10741.6	11699.7	12374.0	12433.3	11103.2	10149.9	10691.6	9926.6	9590.6
52.5°	10319.6	11468.3	12743.7	13527.3	13412.2	11790.3	10398.7	10833.5	10166.1	9870.8
55°	10691.6	11913.6	13327.3	14079.6	13911.0	12208.9	10667.2	10987.0	10507.9	10259.1
57.5°	10899.8	11950.8	13182.0	13838.9	13656.4	12127.5	10790.5	11100.9	10726.5	10531.2
58°	10930.0	11900.8	13053.0	13699.4	13513.4	12058.9	10789.3	11096.2	10740.5	10544.0
60°	10903.2	11576.4	12572.8	13148.3	12953.0	11628.7	10745.1	11009.0	10563.8	10397.5
62.5°	10655.6	11013.7	11743.8	12162.4	12106.6	10956.7	10563.8	10680.0	10025.4	9865.0
65°	10330.1	10246.4	10682.3	10978.8	11020.7	10453.3	10383.5	9968.5	9334.8	9108.1
67.5°	9934.8	9376.7	9375.5	9544.1	9613.9	9679.0	10008.0	9195.3	8339.6	8100.1
70°	9263.9	8036.2	7666.5	7865.3	7807.1	8357.1	9337.2	8109.4	7139.8	6859.6
72.5°	8033.8	6377.1	5785.3	6041.1	5894.6	6553.8	8169.9	6673.6	5903.9	5559.7
75°	6511.9	4770.3	4159.9	4394.8	4304.1	4971.5	6798.0	4847.0	4234.3	4103.0
77.5°	5056.3	3456.5	3101.9	3069.4	3136.8	3699.5	4986.6	3272.8	2791.5	2702.0
80°	3248.4	2474.1	2495.0	2453.2	2488.1	2332.3	3027.5	2088.1	1890.5	1818.4
82.5°	2138.1	1724.2	2055.5	1897.4	1802.1	1568.4	1985.8	1367.3	1160.3	1120.8
85°	1456.8	1269.6	1155.7	883.6	1040.6	1208.0	1489.3	736.0	583.6	529.0
87.5°	658.1	441.8	324.4	200.0	316.2	365.1	723.2	86.0	66.3	68.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)