

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: McGRAW-EDISON

Report Number: P651246

Luminaire Tested: **GALN-SA2D-840-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651246
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: McGRAW-EDISON
Catalog Number: GALN-SA2D-840-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 1200mA 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: 11277.8 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

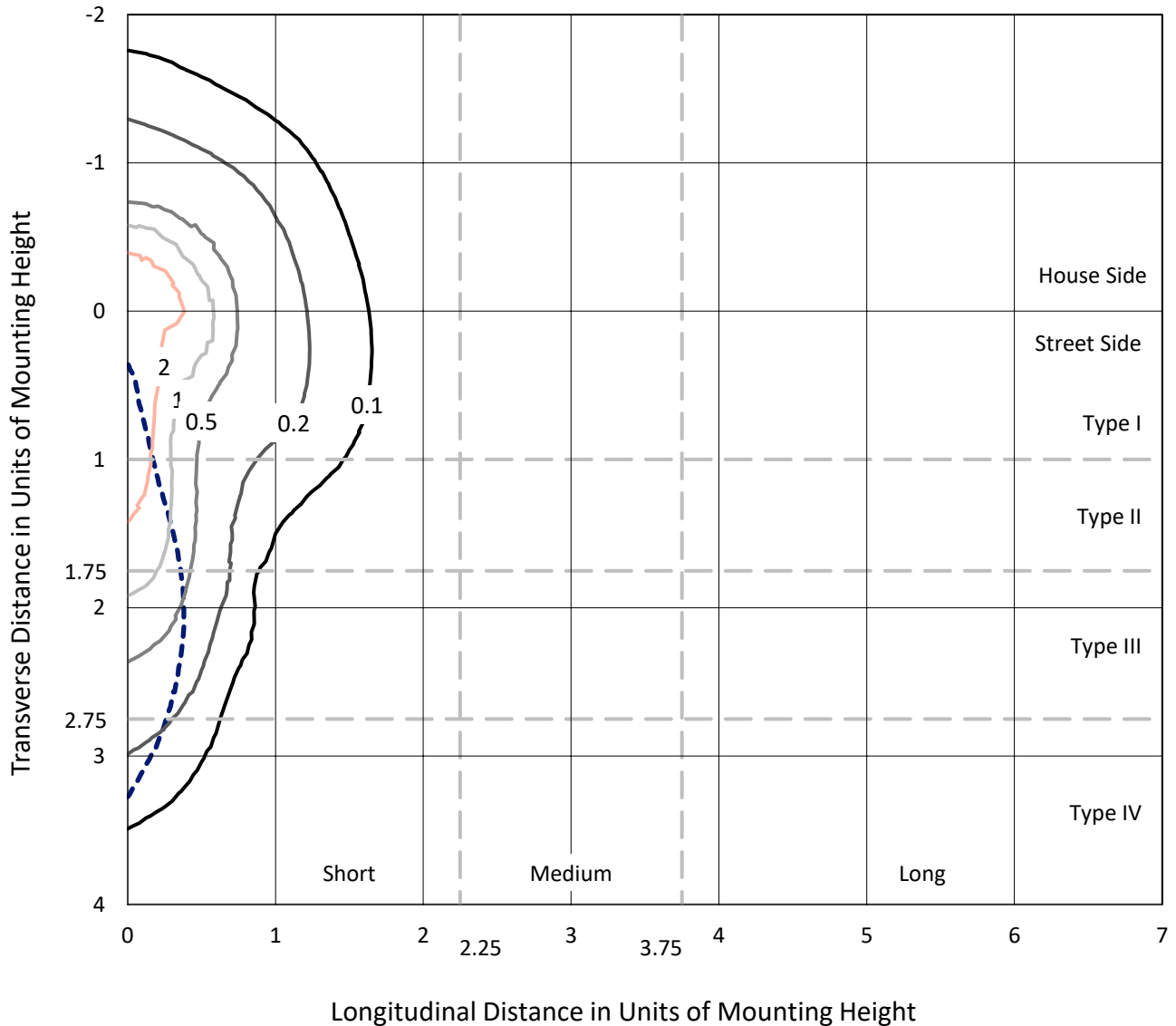
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

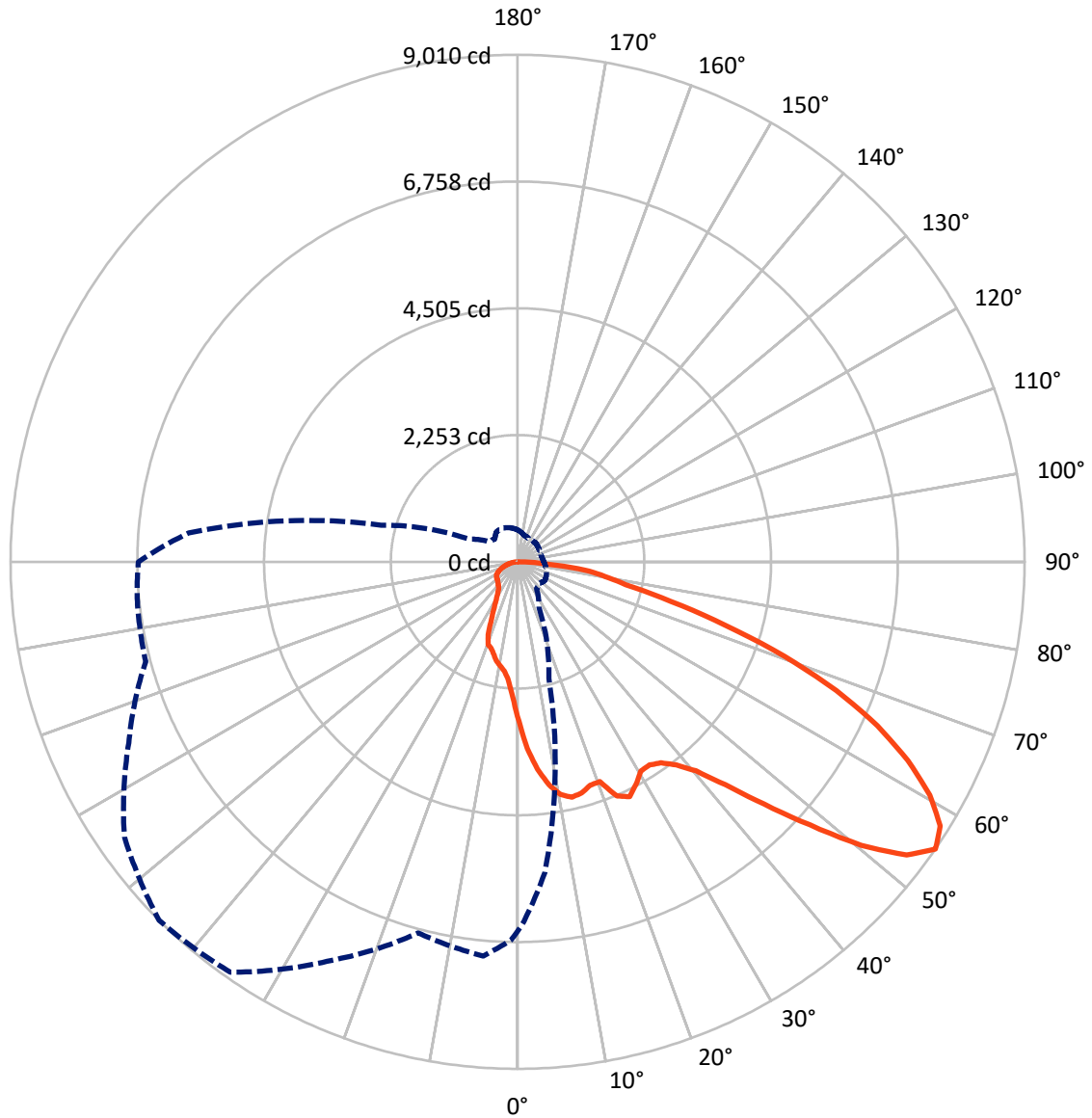
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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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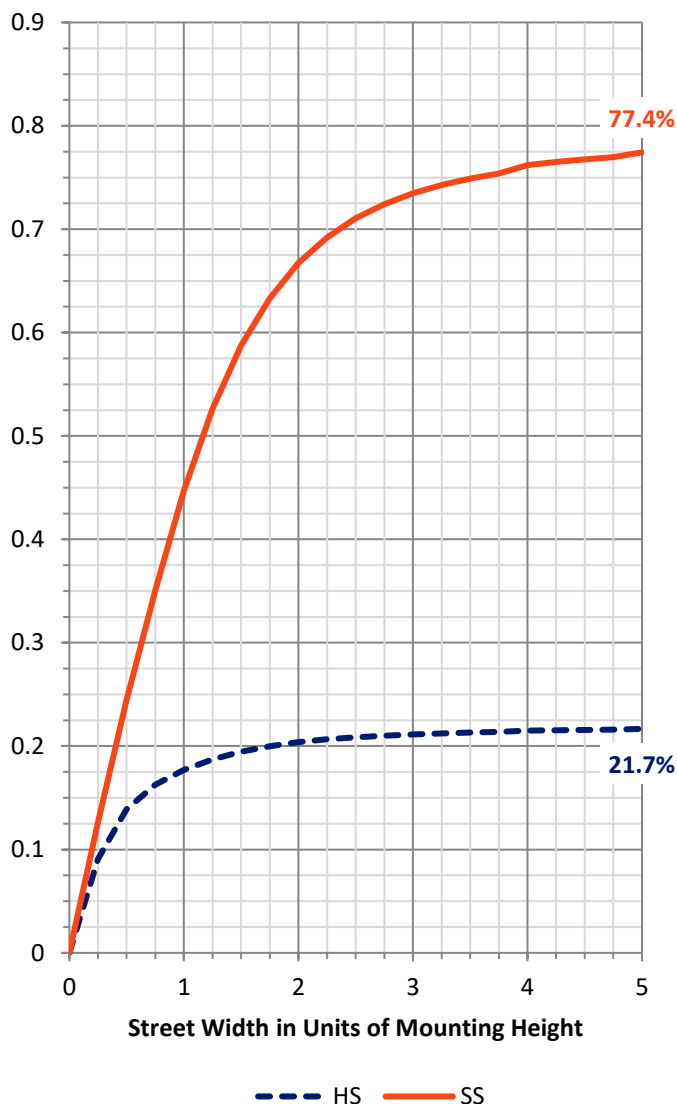
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2467.0	0.0	2467.0
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	8810.8	0.0	8810.8
	% Fixture	78.1	0.0	78.1
Total	Lumens	11277.8	0.0	11277.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.9	2.1
10°-20°	636.4	5.6
20°-30°	1099.4	9.7
30°-40°	1277.7	11.3
40°-50°	1782.6	15.8
50°-60°	2418.8	21.4
60°-70°	2301.2	20.4
70°-80°	1243.2	11.0
80°-90°	278.6	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°	11277.8	100.0
0°-180°	11277.8	100.0

Coefficient of Utilization

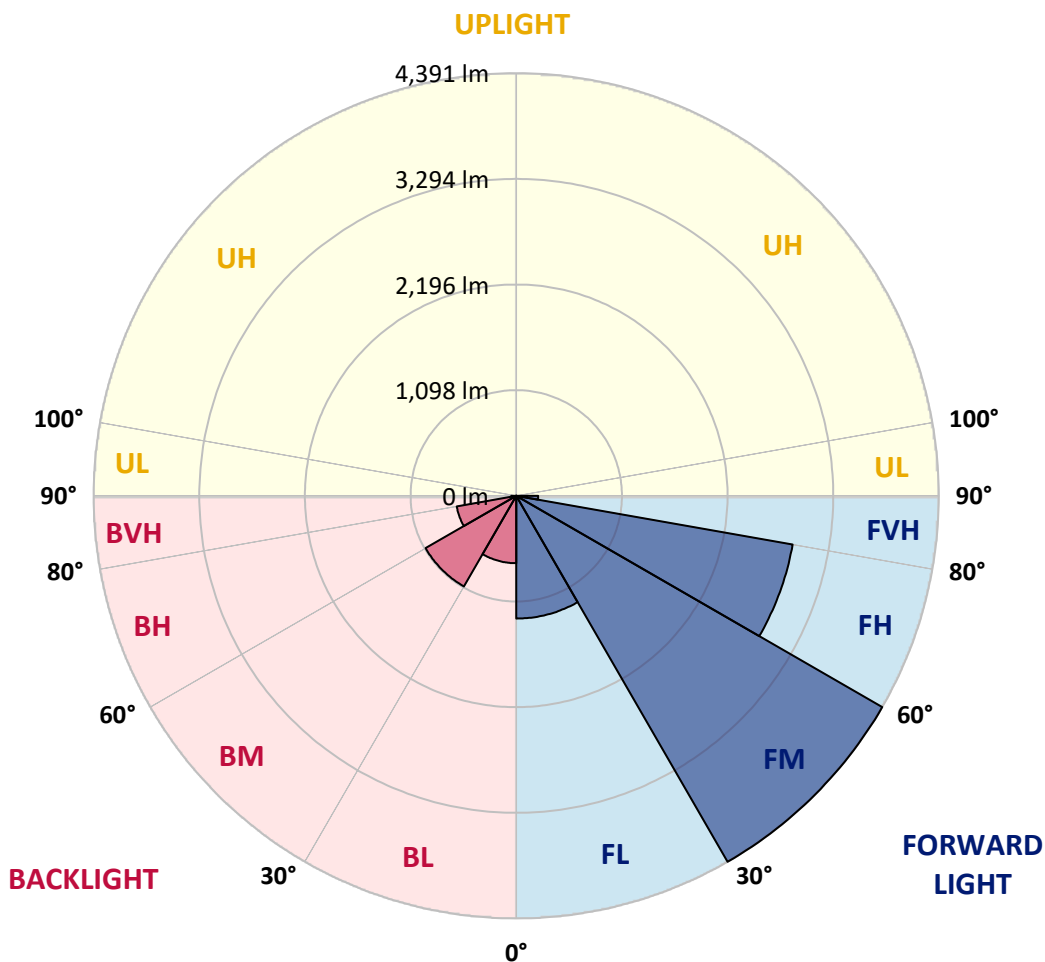


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1275.5	11.3			
FM (30°-60°)	4391.3	38.9			
FH (60°-80°)	2916.2	25.9			G2/5000
FVH (80°-90°)	227.7	2.0			G3/500
BL (0°-30°)	700.1	6.2	B2/1000		
BM (30°-60°)	1087.8	9.6	B2/2500		
BH (60°-80°)	628.1	5.6	B2/1000		G2/1000
BVH (80°-90°)	50.9	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2830.3	2830.3	2830.3	2830.3	2830.3	2830.3	2830.3	2830.3	2830.3	2830.3	2830.3
2.5°	3144.2	3132.4	3098.9	3011.1	2922.6	2832.5	2763.4	2677.0	2587.0	2538.6	2476.9
5°	3187.4	3174.0	3095.1	2897.2	2717.9	2529.7	2379.4	2247.7	2194.2	2115.3	2052.0
7.5°	3086.2	3080.2	2962.0	2677.7	2432.3	2185.9	2015.5	1909.9	1814.0	1778.2	1785.7
10°	2994.0	2970.2	2822.1	2450.8	2164.4	1964.2	1842.2	1738.8	1671.1	1653.2	1656.9
12.5°	2917.3	2885.4	2710.5	2298.3	2047.6	1887.6	1732.1	1624.2	1562.5	1579.6	1637.6
15°	2901.7	2858.6	2663.6	2246.2	1983.6	1777.5	1607.1	1482.9	1436.7	1473.9	1567.0
17.5°	3002.9	2948.6	2744.0	2263.3	1922.6	1665.2	1456.1	1314.0	1275.3	1334.8	1456.1
20°	3328.0	3247.7	2994.7	2362.3	1916.6	1609.3	1368.3	1225.4	1241.8	1354.9	1481.3
22.5°	3929.2	3808.7	3433.7	2506.6	1947.8	1595.2	1350.4	1276.0	1366.0	1462.0	1545.3
25°	4048.2	3953.8	3512.6	2539.4	1941.2	1585.5	1401.0	1438.2	1538.7	1586.3	1557.3
27.5°	4115.3	4007.4	3507.4	2377.2	1735.8	1438.2	1339.3	1401.0	1426.3	1380.2	1301.3
30°	4271.4	4159.2	3595.9	2206.8	1429.3	1067.0	935.3	910.0	927.0	935.9	907.7
32.5°	4486.5	4375.6	3762.5	2095.2	1235.8	882.5	752.9	717.2	709.0	699.4	688.2
35°	4764.8	4594.4	3926.2	2023.8	1156.2	816.2	697.2	669.6	658.5	645.0	633.2
37.5°	5047.5	4869.0	4133.1	1948.6	1103.4	770.1	659.9	647.3	628.0	613.8	596.7
40°	5348.1	5147.9	4321.3	1883.2	1052.1	740.3	633.2	631.7	606.4	590.0	569.9
42.5°	5608.5	5402.4	4489.5	1843.0	1012.6	709.0	616.8	621.2	595.3	570.7	544.6
45°	5815.3	5613.0	4645.0	1843.0	980.6	677.8	613.8	610.8	584.8	554.3	524.5
47.5°	5996.9	5787.8	4796.7	1889.8	960.5	651.8	597.4	602.7	575.9	537.2	508.1
50°	6137.5	5953.0	5001.3	1962.7	940.5	630.9	576.6	604.9	568.4	528.2	494.8
52.5°	6316.8	6151.7	5247.7	2062.5	923.3	607.9	558.0	604.9	567.7	529.0	492.6
55°	6565.4	6391.2	5544.5	2145.1	895.8	586.3	541.7	587.8	565.5	525.3	486.6
57.5°	6739.4	6609.3	5754.3	2200.1	856.4	558.8	526.8	571.4	555.8	511.2	468.8
58°	6747.6	6620.4	5784.8	2212.8	846.7	553.5	523.0	564.0	551.4	505.2	462.8
60°	6653.8	6544.5	5790.8	2194.9	791.6	527.5	503.7	533.4	527.5	470.2	430.8
62.5°	6313.1	6196.3	5550.4	2049.8	718.7	495.5	474.0	492.6	479.1	421.1	384.7
65°	5828.7	5613.7	5056.4	1822.1	666.7	461.3	433.8	435.2	421.1	379.5	347.5
67.5°	5183.7	4943.3	4281.1	1535.7	627.2	423.4	386.2	382.4	365.3	338.5	312.5
70°	4389.8	4225.4	3479.0	1249.2	583.3	381.6	332.6	330.3	319.9	299.8	276.8
72.5°	3557.9	3348.9	2809.4	999.9	529.7	341.5	282.7	287.2	273.8	259.7	238.8
75°	2625.7	2488.8	2171.8	802.1	457.6	297.6	235.8	237.3	231.4	216.5	200.2
77.5°	1729.1	1688.2	1553.5	526.8	352.0	236.6	192.7	194.2	189.7	176.4	159.2
80°	1163.7	1136.1	1052.8	339.3	235.1	171.1	148.8	150.3	149.5	135.4	112.4
82.5°	717.2	705.3	678.5	229.2	162.9	122.8	98.2	102.7	110.8	95.2	76.6
85°	338.5	339.3	410.0	125.0	96.0	78.9	53.6	57.3	57.3	57.3	43.1
87.5°	43.9	46.2	56.5	52.8	35.0	29.8	19.3	16.4	14.1	18.6	13.4
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2830.3	2830.3	2830.3	2830.3	2830.3	2830.3	2830.3	2830.3	2830.3	2830.3	2830.3
2.5°	2455.3	2440.4	2408.5	2401.0	2396.5	2409.1	2375.7	2384.7	2369.8	2411.4	2404.7
5°	2055.7	2057.3	2083.3	2100.4	2106.4	2100.4	2078.1	2039.4	2009.7	1997.7	2000.7
7.5°	1771.6	1797.6	1842.2	1892.1	1937.5	1950.9	1938.2	1864.5	1784.2	1733.6	1717.2
10°	1677.0	1712.0	1763.3	1802.8	1843.0	1874.9	1881.7	1824.4	1729.1	1609.3	1562.5
12.5°	1682.3	1729.9	1779.0	1791.6	1787.9	1800.6	1794.6	1784.9	1722.5	1569.9	1491.8
15°	1633.1	1689.7	1723.9	1717.2	1705.3	1694.2	1678.6	1654.0	1631.6	1524.5	1438.2
17.5°	1520.0	1578.1	1606.4	1608.6	1608.6	1605.6	1567.7	1558.7	1555.8	1503.7	1450.9
20°	1540.9	1572.8	1560.2	1539.4	1545.3	1565.4	1543.2	1538.7	1555.8	1578.8	1569.1
22.5°	1552.8	1541.6	1446.4	1354.1	1333.3	1395.8	1408.4	1458.3	1527.5	1610.9	1665.2
25°	1479.2	1389.1	1218.7	1114.6	1055.8	1113.8	1189.7	1281.9	1385.4	1492.5	1555.8
27.5°	1236.6	1168.1	1046.1	952.3	901.0	910.0	974.7	1058.7	1154.7	1226.9	1273.0
30°	931.5	901.0	837.8	805.8	774.6	767.1	794.7	826.6	869.0	877.9	889.9
32.5°	686.0	681.5	685.2	674.8	668.8	668.2	659.9	667.4	671.9	677.1	666.7
35°	620.5	614.6	604.2	601.1	597.4	599.0	595.3	591.5	594.5	599.0	601.9
37.5°	587.0	578.1	563.2	558.0	558.0	560.3	554.3	552.8	558.0	572.1	579.6
40°	561.0	550.6	533.4	526.8	531.3	537.2	529.0	526.0	538.7	553.5	565.5
42.5°	536.5	528.2	511.9	504.4	508.1	519.3	507.5	505.2	521.6	537.9	552.0
45°	515.6	507.5	492.6	488.8	490.3	500.7	492.6	492.6	508.1	526.0	538.7
47.5°	499.2	488.8	479.1	476.2	477.7	483.7	482.1	482.1	497.0	515.6	528.2
50°	482.9	474.0	461.3	462.8	466.5	474.7	474.0	476.2	491.1	514.1	527.5
52.5°	475.4	462.0	447.9	449.4	460.5	470.2	467.3	469.4	486.6	529.7	549.1
55°	467.3	449.4	433.0	435.2	447.9	462.0	458.3	461.3	481.4	540.2	566.9
57.5°	451.6	430.8	412.9	414.4	433.0	447.9	441.9	445.6	469.4	529.0	557.2
58°	444.9	427.1	410.0	410.7	428.6	444.9	438.2	441.2	465.7	526.0	552.8
60°	416.6	406.2	391.4	392.1	409.2	423.4	419.7	422.6	446.4	504.4	524.5
62.5°	377.9	372.0	368.3	368.3	378.7	392.1	395.9	399.6	421.1	456.1	474.0
65°	336.3	336.3	337.1	337.1	343.7	360.9	363.1	372.7	392.8	410.0	423.4
67.5°	308.1	306.5	308.1	304.3	307.3	317.7	328.8	337.8	358.6	370.5	375.0
70°	271.6	270.8	271.6	266.3	270.0	279.0	286.4	301.3	322.9	331.9	334.0
72.5°	235.8	235.8	237.3	233.6	233.6	243.3	248.5	264.9	284.9	290.1	290.9
75°	198.6	200.9	200.9	195.7	197.1	203.1	209.8	223.2	241.8	245.5	245.5
77.5°	157.8	165.9	165.9	160.7	162.9	163.7	172.6	179.3	193.4	194.9	189.0
80°	114.5	122.8	129.4	125.0	128.8	124.2	129.4	133.9	148.1	141.4	131.7
82.5°	81.8	87.8	93.0	93.8	90.0	81.8	88.6	89.3	96.0	87.0	81.8
85°	45.4	50.6	57.3	54.3	48.4	43.1	45.4	46.8	46.2	43.9	41.0
87.5°	11.9	12.6	14.1	10.4	9.7	8.2	11.2	11.2	12.6	13.4	12.6
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°	2830.3	2830.3	2830.3	2830.3	2830.3	2830.3	2830.3	2830.3	2830.3	2830.3	2830.3
2.5°	2409.9	2442.7	2513.3	2566.9	2632.4	2712.0	2805.7	2900.2	3002.2	3034.2	3078.8
5°	1994.0	2075.8	2110.1	2207.5	2304.3	2449.3	2604.1	2783.5	2979.8	3074.4	3165.1
7.5°	1703.9	1747.8	1783.4	1854.8	1971.0	2147.2	2341.4	2565.4	2843.7	2981.3	3114.5
10°	1547.6	1552.1	1596.0	1684.5	1785.7	1941.2	2125.0	2375.7	2686.0	2853.3	3009.6
12.5°	1444.2	1424.8	1472.4	1564.7	1679.3	1822.9	1991.7	2230.6	2572.1	2744.0	2933.0
15°	1353.4	1322.9	1358.6	1453.1	1566.2	1735.1	1916.6	2169.6	2527.5	2727.6	2937.4
17.5°	1355.6	1271.5	1284.2	1363.8	1476.1	1648.0	1868.3	2167.3	2595.2	2825.8	3074.4
20°	1523.1	1388.3	1331.1	1345.9	1454.6	1642.1	1890.6	2271.5	2817.6	3153.9	3419.6
22.5°	1687.5	1606.4	1514.1	1483.6	1543.2	1739.5	2032.7	2517.8	3301.3	3808.0	4287.8
25°	1630.2	1699.3	1676.3	1633.1	1646.5	1809.5	2129.4	2720.2	3677.0	4247.6	4698.6
27.5°	1304.3	1430.0	1455.4	1454.6	1459.8	1593.7	1915.1	2584.1	3723.9	4331.7	4762.5
30°	916.6	927.8	941.2	967.2	991.0	1110.9	1498.5	2268.5	3703.0	4369.7	4801.2
32.5°	661.4	676.3	694.9	730.7	787.2	939.7	1311.0	2168.1	3813.2	4526.7	4914.3
35°	604.9	622.0	639.8	680.8	734.4	875.7	1236.6	2126.5	3994.0	4781.2	5117.4
37.5°	587.0	606.4	622.0	651.8	694.9	829.6	1168.9	2098.1	4179.2	5050.5	5389.7
40°	574.4	596.7	609.4	633.2	663.0	787.2	1108.6	2075.8	4358.6	5296.8	5608.5
42.5°	563.2	586.3	602.7	619.8	644.3	749.2	1055.0	2053.6	4514.1	5535.5	5826.5
45°	549.8	578.9	599.7	613.1	634.6	717.2	1014.1	2035.6	4691.1	5747.6	6046.7
47.5°	538.7	570.7	596.7	612.3	620.5	694.9	981.4	2060.2	4903.9	5969.3	6251.3
50°	539.4	569.9	602.7	627.2	605.6	676.3	961.3	2157.7	5180.6	6232.7	6412.8
52.5°	563.2	600.5	626.5	632.4	584.8	654.0	950.8	2328.1	5508.0	6465.6	6575.7
55°	590.0	628.7	657.0	653.3	573.6	625.7	948.6	2509.6	5866.6	6737.2	6787.8
57.5°	580.4	636.9	680.0	660.7	574.4	598.2	939.0	2656.2	6166.5	6940.4	6997.6
58°	577.3	633.9	683.1	659.2	572.1	590.0	936.7	2668.8	6208.2	6954.5	7027.4
60°	548.3	607.9	680.8	648.1	559.5	567.7	912.1	2709.8	6197.0	6881.6	7045.2
62.5°	495.5	544.6	629.5	593.7	520.8	537.9	857.1	2659.2	5895.0	6530.4	6784.1
65°	436.0	472.5	529.0	522.3	465.7	507.5	782.0	2459.0	5290.1	5960.4	6227.5
67.5°	391.4	421.1	456.8	447.2	418.9	466.5	700.9	2120.5	4611.5	5275.9	5612.2
70°	346.0	369.0	386.9	380.2	371.3	426.3	628.7	1720.9	3961.2	4625.7	4951.6
72.5°	299.8	321.4	336.3	326.6	321.4	383.9	569.9	1335.5	3128.6	3816.1	4235.0
75°	250.7	272.3	282.7	271.6	268.6	338.5	482.9	997.8	2347.4	2941.9	3303.5
77.5°	194.2	217.2	230.7	226.9	228.4	278.3	389.9	683.1	1678.6	2005.2	2386.1
80°	136.2	161.5	170.4	166.7	177.1	212.0	275.3	433.8	1157.7	1301.3	1569.9
82.5°	84.1	107.9	109.4	113.1	120.5	157.0	207.6	264.2	726.9	751.4	946.4
85°	42.4	51.3	55.1	61.0	67.7	96.0	118.3	163.7	468.0	354.1	529.0
87.5°	14.1	14.9	17.8	22.3	27.5	39.4	50.6	66.9	116.1	64.0	163.7
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2830.3	2830.3	2830.3	2830.3	2830.3	2830.3	2830.3	2830.3	2830.3	2830.3
2.5°	3168.8	3232.0	3278.2	3320.6	3279.6	3275.9	3235.7	3171.1	3144.2	3144.2
5°	3355.6	3503.6	3623.4	3700.1	3667.3	3588.5	3458.3	3292.3	3203.0	3187.4
7.5°	3406.9	3699.3	3921.8	4000.6	3945.6	3771.5	3522.3	3242.5	3114.5	3086.2
10°	3375.7	3755.8	4082.5	4207.5	4130.8	3867.5	3527.4	3184.4	3026.7	2994.0
12.5°	3342.9	3763.3	4112.2	4293.1	4243.2	3944.9	3565.4	3146.5	2964.2	2917.3
15°	3366.8	3766.3	4075.8	4262.5	4294.6	4037.8	3627.9	3174.0	2951.6	2901.7
17.5°	3517.1	3822.8	4023.7	4174.7	4287.1	4164.3	3805.7	3305.7	3064.7	3002.9
20°	3831.0	3958.3	4053.5	4170.3	4351.1	4422.5	4169.5	3667.3	3382.3	3328.0
22.5°	4740.2	4717.2	4522.2	4520.0	4781.8	5068.4	5051.2	4402.5	3973.9	3929.2
25°	5081.0	4973.8	4691.9	4623.4	4738.7	5180.6	5116.7	4552.8	4156.9	4048.2
27.5°	4947.8	4682.2	4496.9	4481.3	4443.3	4860.7	5014.8	4613.7	4220.9	4115.3
30°	4939.6	4549.0	4284.1	4315.3	4351.8	4750.6	5071.3	4805.0	4384.6	4271.4
32.5°	4959.7	4567.6	4299.8	4305.7	4414.3	4767.0	5133.8	5013.3	4599.6	4486.5
35°	5040.8	4673.3	4399.4	4385.3	4554.9	4874.1	5240.2	5340.7	4893.5	4764.8
37.5°	5171.7	4883.8	4581.8	4578.0	4824.3	5067.6	5372.6	5671.0	5185.9	5047.5
40°	5364.5	5130.1	4906.1	4886.0	5190.3	5382.3	5544.5	6022.9	5525.9	5348.1
42.5°	5597.4	5425.5	5334.0	5413.6	5705.9	5735.7	5812.4	6348.0	5815.3	5608.5
45°	5813.1	5804.9	5932.2	6143.4	6313.8	6135.3	6092.1	6566.0	6040.1	5815.3
47.5°	6069.8	6291.5	6675.4	6984.9	7163.6	6600.3	6331.0	6708.2	6203.7	5996.9
50°	6330.2	6874.1	7487.2	7918.7	7956.6	7105.5	6495.4	6842.1	6352.5	6137.5
52.5°	6604.0	7339.1	8155.3	8656.7	8583.2	7545.2	6654.6	6932.9	6505.8	6316.8
55°	6842.1	7624.1	8528.8	9010.2	8902.3	7813.1	6826.5	7031.1	6724.6	6565.4
57.5°	6975.3	7647.9	8435.8	8856.2	8739.3	7761.0	6905.4	7104.0	6864.4	6739.4
58°	6994.6	7615.9	8353.2	8766.9	8647.8	7717.1	6904.6	7101.0	6873.3	6747.6
60°	6977.5	7408.3	8045.9	8414.2	8289.2	7441.8	6876.4	7045.2	6760.3	6653.8
62.5°	6819.0	7048.2	7515.4	7783.3	7747.5	7011.8	6760.3	6834.6	6415.7	6313.1
65°	6610.7	6557.1	6836.2	7025.9	7052.6	6689.6	6644.9	6379.3	5973.8	5828.7
67.5°	6357.7	6000.6	5999.9	6107.8	6152.4	6194.0	6404.6	5884.6	5336.9	5183.7
70°	5928.5	5142.7	4906.1	5033.4	4996.1	5348.1	5975.3	5189.6	4569.1	4389.8
72.5°	5141.3	4081.0	3702.3	3866.0	3772.2	4194.1	5228.3	4270.8	3778.2	3557.9
75°	4167.3	3052.7	2662.1	2812.5	2754.4	3181.5	4350.3	3101.9	2709.8	2625.7
77.5°	3235.7	2212.0	1985.1	1964.2	2007.4	2367.5	3191.2	2094.4	1786.5	1729.1
80°	2078.8	1583.3	1596.7	1569.9	1592.3	1492.5	1937.5	1336.3	1209.8	1163.7
82.5°	1368.3	1103.4	1315.4	1214.2	1153.3	1003.7	1270.8	875.0	742.5	717.2
85°	932.2	812.5	739.6	565.5	665.9	773.0	953.1	471.0	373.5	338.5
87.5°	421.1	282.7	207.6	128.0	202.3	233.6	462.8	55.1	42.4	43.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)