

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: P651959

Luminaire Tested: **GALN-SA6A-840-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651959
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6A-840-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16984.8 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 182
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

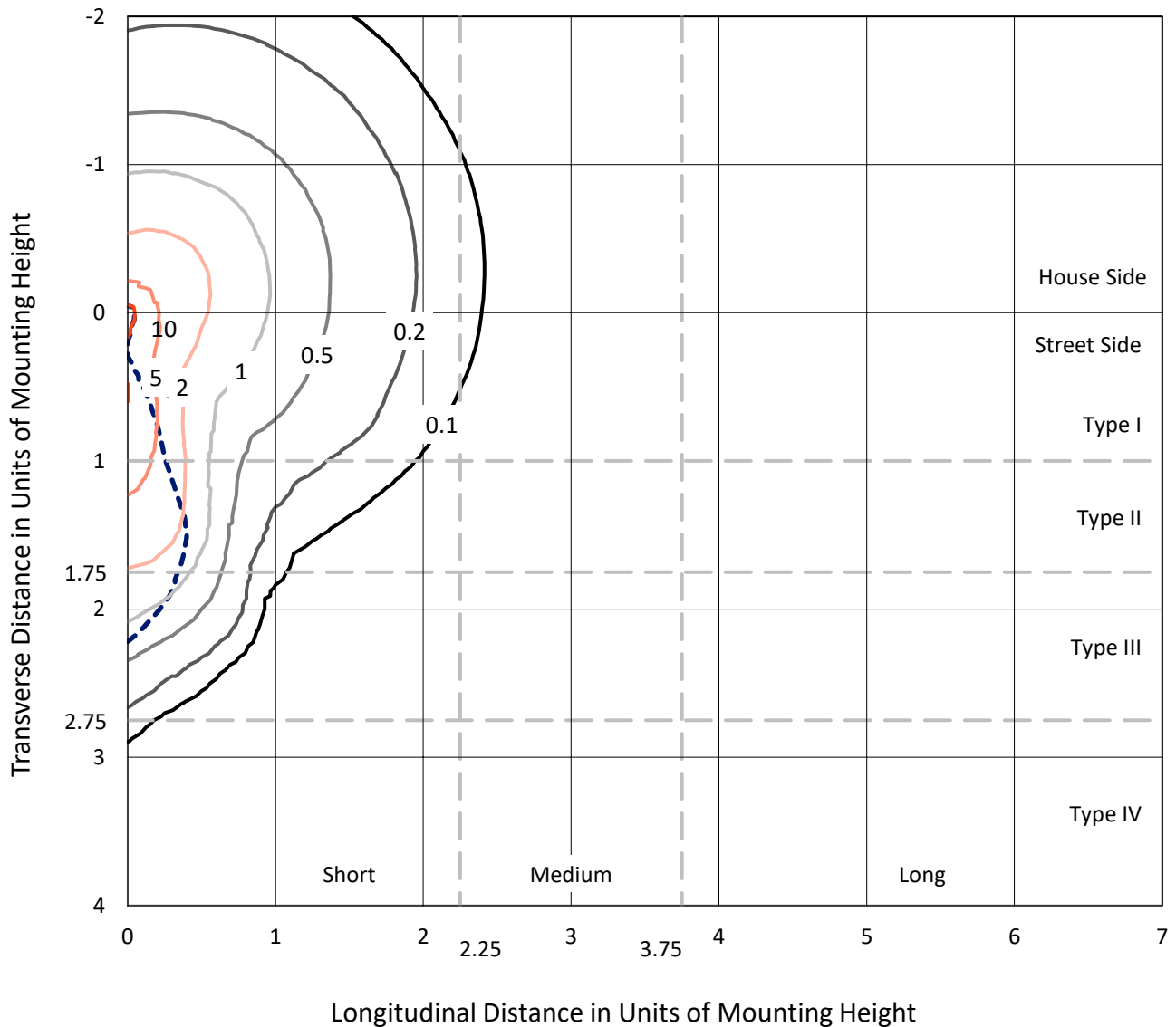




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Iso-Footcandle Lines of Horizontal Illumination

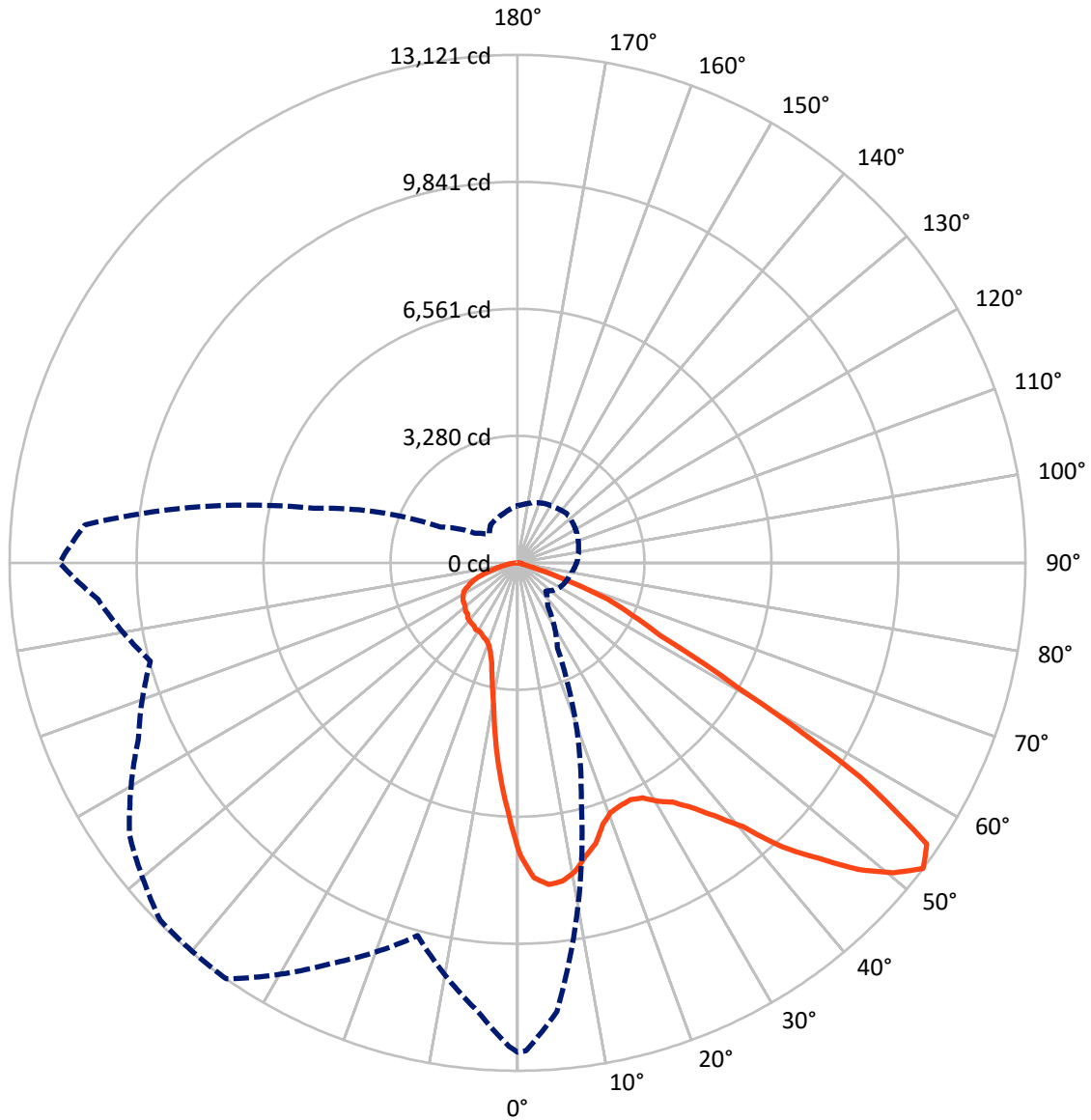
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 325-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5120.2	0.0	5120.2
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	11864.6	0.0	11864.6
	% Fixture	69.9	0.0	69.9
Total	Lumens	16984.8	0.0	16984.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	575.1	3.4
10°-20°	1246.7	7.3
20°-30°	1883.6	11.1
30°-40°	2722.0	16.0
40°-50°	3622.4	21.3
50°-60°	4051.8	23.9
60°-70°	2283.6	13.4
70°-80°	509.0	3.0
80°-90°	90.6	0.5
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°	16984.8	100.0
0°-180°	16984.8	100.0

Coefficient of Utilization



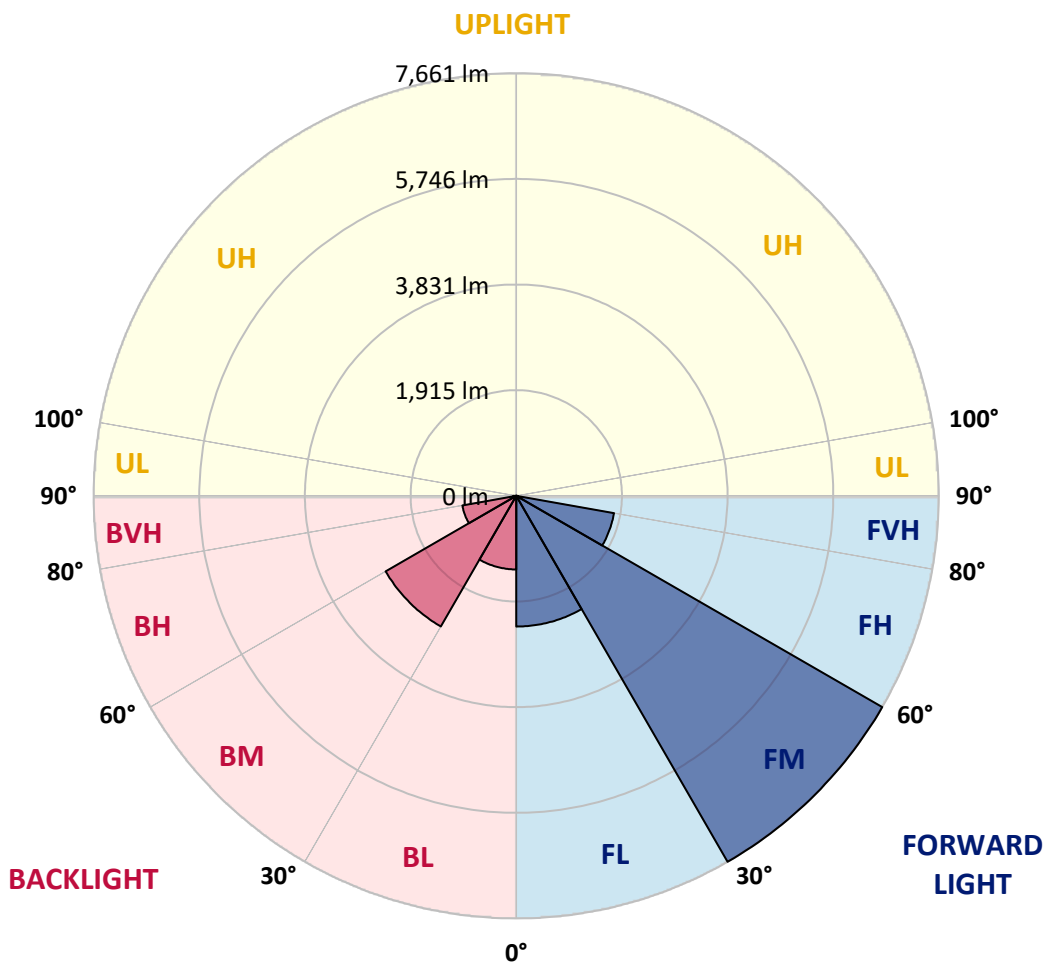
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2370.2	14.0			
FM (30°-60°)	7661.5	45.1			
FH (60°-80°)	1800.1	10.6			G2/5000
FVH (80°-90°)	32.8	0.2			G1/100
BL (0°-30°)	1335.2	7.9	B3/2500		
BM (30°-60°)	2734.7	16.1	B3/5000		
BH (60°-80°)	992.5	5.8	B2/1000		G2/1000
BVH (80°-90°)	57.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7538.0	7538.0	7538.0	7538.0	7538.0	7538.0	7538.0	7538.0	7538.0	7538.0	7538.0
2.5°	7663.5	7786.7	7653.7	7417.4	7249.9	7097.3	6937.3	6905.3	6696.0	6659.1	6506.5
5°	7227.8	7200.7	7038.2	6728.1	6385.9	6075.6	5846.7	5625.2	5475.0	5300.2	5287.9
7.5°	6698.5	6541.0	6447.4	5977.2	5553.8	5066.4	4857.1	4519.9	4414.0	4256.4	4175.1
10°	6225.8	6110.1	5891.0	5420.8	4830.0	4507.5	4283.5	4101.3	3978.3	3815.8	3611.4
12.5°	5992.0	5945.2	5699.0	4970.3	4532.1	4187.5	4029.9	3852.7	3643.5	3382.5	3281.6
15°	6033.8	5876.2	5689.2	4884.2	4278.6	3946.2	3695.1	3473.6	3205.2	2956.6	2811.4
17.5°	6346.4	6225.8	5851.7	4938.4	4182.5	3702.5	3247.1	2919.7	2678.4	2454.4	2353.5
20°	6961.9	6787.1	6366.2	5007.2	3975.7	3362.8	2840.9	2437.1	2178.7	2060.5	2026.1
22.5°	7643.8	7540.4	6868.4	5162.4	3810.8	3047.7	2410.1	2006.4	1910.3	1878.4	1942.4
25°	8473.4	8205.1	7648.7	5416.0	3682.8	2779.3	2045.7	1821.7	1772.5	1804.4	1878.4
27.5°	9103.7	9032.3	8195.3	5654.7	3508.1	2456.9	1841.5	1693.7	1708.5	1740.4	1809.4
30°	9852.1	9490.2	8724.5	5819.6	3350.5	2235.3	1698.7	1659.2	1674.0	1728.2	1762.7
32.5°	10302.6	10167.2	9056.9	6068.3	3168.3	2043.3	1587.8	1550.9	1573.1	1654.3	1735.6
35°	10876.1	10607.8	9468.0	6132.3	3040.3	1966.9	1509.1	1482.0	1533.7	1590.3	1681.4
37.5°	11545.8	11361.2	10036.7	6088.0	2971.3	1888.2	1442.6	1430.3	1467.2	1546.0	1651.9
40°	11942.1	11885.5	10334.5	6115.1	2863.0	1819.3	1366.3	1381.1	1457.4	1518.9	1622.3
42.5°	12323.7	11954.4	10775.2	6105.2	2794.1	1725.7	1373.7	1356.4	1415.5	1486.9	1585.4
45°	12407.4	12040.6	10878.6	6036.3	2710.5	1634.7	1317.1	1324.4	1395.8	1484.4	1548.4
47.5°	12353.2	12082.4	11070.7	6016.6	2631.7	1570.7	1233.3	1322.0	1363.8	1435.3	1526.3
50°	12316.3	12301.6	11233.1	6110.1	2525.8	1469.6	1132.4	1290.0	1331.8	1403.2	1501.7
52.5°	12641.2	12609.3	11639.3	6356.3	2442.1	1361.3	1029.0	1208.8	1309.7	1378.6	1474.6
55°	12838.2	12697.8	12336.0	6659.1	2301.7	1218.6	957.6	1107.8	1255.5	1317.1	1415.5
57.5°	11548.2	11452.2	11159.2	6216.0	2065.4	1031.5	869.0	1004.4	1181.7	1277.6	1378.6
60°	9608.3	9458.1	8707.3	5283.0	1523.8	802.6	814.8	923.2	1161.9	1198.8	1317.1
62.5°	9059.3	8687.6	7666.0	4251.5	1169.3	689.3	731.2	849.3	1058.6	1120.1	1238.3
65°	7188.4	6912.7	5484.8	3069.8	782.9	598.2	667.2	765.6	913.3	1033.9	1142.2
67.5°	4500.1	4236.7	2927.0	1452.5	546.5	512.1	595.8	699.1	819.8	928.1	1048.7
70°	2351.0	2063.0	1351.5	524.4	376.7	418.5	497.3	595.8	713.9	802.6	896.1
72.5°	876.4	711.5	440.7	226.5	261.0	320.0	403.8	475.2	558.8	667.2	718.8
75°	135.4	115.7	113.3	137.8	177.3	231.4	288.0	359.4	433.3	502.2	536.6
77.5°	64.0	61.6	69.0	91.1	118.2	164.9	209.2	278.2	337.2	381.6	401.2
80°	41.9	39.4	44.3	61.6	88.6	123.1	167.4	214.2	268.4	305.3	300.3
82.5°	24.6	27.1	27.1	41.9	61.6	88.6	120.6	162.5	199.4	231.4	211.7
85°	14.8	12.3	12.3	24.6	41.9	71.4	100.9	69.0	71.4	71.4	81.2
87.5°	5.0	5.0	5.0	2.4	5.0	5.0	7.4	12.3	14.8	17.2	22.1
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7538.0	7538.0	7538.0	7538.0	7538.0	7538.0	7538.0	7538.0	7538.0	7538.0	7538.0
2.5°	6501.6	6577.9	6550.8	6454.8	6528.7	6541.0	6491.7	6661.6	6693.6	6641.9	6656.7
5°	5270.7	5290.4	5334.7	5428.2	5494.7	5573.5	5573.5	5578.4	5511.9	5679.4	5630.1
7.5°	4106.3	4118.5	4170.3	4369.7	4426.3	4576.5	4640.5	4596.1	4463.2	4406.6	4453.3
10°	3545.0	3473.6	3456.3	3481.0	3609.0	3673.0	3727.1	3712.3	3690.2	3645.9	3596.6
12.5°	3170.7	3119.1	3077.2	3018.2	3025.5	3087.1	3128.9	3094.5	3104.3	3114.1	3128.9
15°	2764.6	2727.6	2705.5	2616.9	2607.0	2648.9	2663.6	2683.4	2720.3	2722.7	2705.5
17.5°	2333.8	2301.7	2351.0	2400.2	2365.7	2368.3	2395.3	2412.6	2402.7	2358.4	2336.2
20°	2038.3	2072.8	2122.1	2168.9	2205.8	2227.9	2237.7	2210.7	2178.7	2087.6	2085.1
22.5°	1952.2	1996.5	2038.3	2109.7	2144.2	2200.8	2149.2	2087.6	2043.3	1999.0	1947.3
25°	1888.2	1925.1	2008.8	2035.9	2102.3	2149.2	2112.2	2050.7	1974.3	1910.3	1871.0
27.5°	1841.5	1883.3	1937.4	2011.3	2063.0	2090.1	2053.1	2028.5	1949.7	1873.4	1816.8
30°	1811.9	1856.2	1954.7	2016.2	2060.5	2082.7	2018.7	1989.1	1932.5	1868.5	1819.3
32.5°	1792.2	1831.5	1915.3	1994.0	2023.6	2023.6	2033.5	1999.0	1920.2	1811.9	1770.1
35°	1728.2	1782.3	1851.3	1942.4	1996.5	2028.5	1979.3	1939.9	1888.2	1777.4	1701.1
37.5°	1691.3	1728.2	1816.8	1902.9	1949.7	1984.2	1964.5	1895.5	1826.7	1735.6	1674.0
40°	1651.9	1710.9	1789.7	1871.0	1922.6	1957.1	1942.4	1861.1	1777.4	1691.3	1649.4
42.5°	1624.8	1664.2	1745.4	1836.5	1898.1	1964.5	1920.2	1819.3	1760.2	1642.0	1595.2
45°	1602.6	1666.6	1752.8	1789.7	1853.7	1922.6	1843.9	1782.3	1713.4	1627.3	1587.8
47.5°	1575.5	1634.7	1691.3	1789.7	1819.3	1851.3	1836.5	1738.0	1679.0	1585.4	1558.3
50°	1565.7	1587.8	1691.3	1745.4	1787.3	1819.3	1779.9	1706.1	1649.4	1553.4	1494.3
52.5°	1526.3	1568.1	1634.7	1706.1	1757.7	1797.1	1733.1	1686.3	1610.0	1509.1	1472.2
55°	1477.0	1501.7	1619.9	1693.7	1720.8	1747.9	1723.2	1646.9	1568.1	1464.8	1427.8
57.5°	1413.0	1469.6	1565.7	1669.0	1703.5	1718.3	1679.0	1617.4	1518.9	1427.8	1368.7
60°	1346.6	1405.6	1511.5	1595.2	1629.7	1683.9	1624.8	1587.8	1474.6	1373.7	1309.7
62.5°	1280.1	1346.6	1425.4	1531.2	1560.7	1582.9	1568.1	1516.5	1425.4	1312.1	1233.3
65°	1201.4	1250.6	1349.0	1403.2	1422.9	1474.6	1422.9	1403.2	1322.0	1213.6	1147.2
67.5°	1083.2	1125.0	1211.2	1262.9	1277.6	1299.8	1297.3	1275.2	1184.1	1110.3	1051.2
70°	947.8	984.7	1038.9	1100.4	1107.8	1134.8	1110.3	1105.3	1046.3	945.3	913.3
72.5°	760.7	795.2	866.6	893.6	896.1	905.9	893.6	876.4	861.6	755.8	723.8
75°	583.4	603.2	637.6	662.2	662.2	674.6	667.2	649.9	610.5	544.0	512.1
77.5°	406.2	425.9	470.2	485.0	482.5	487.4	465.2	448.1	389.0	354.5	327.4
80°	295.4	307.7	329.8	339.8	342.2	349.6	322.5	307.7	273.2	233.9	221.5
82.5°	214.2	221.5	224.0	236.3	236.3	224.0	216.6	201.8	177.3	152.6	142.8
85°	88.6	91.1	93.5	108.3	110.8	133.0	123.1	115.7	100.9	86.2	78.8
87.5°	22.1	24.6	32.0	27.1	32.0	32.0	34.5	39.4	39.4	32.0	32.0
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°	7538.0	7538.0	7538.0	7538.0	7538.0	7538.0	7538.0	7538.0	7538.0	7538.0	7538.0
2.5°	6713.3	6733.0	6984.1	7016.0	7139.2	7264.7	7518.3	7700.4	7848.1	7944.2	7971.3
5°	5681.8	5807.4	5923.1	6110.1	6280.0	6521.3	6799.4	7144.1	7577.3	7798.9	7887.6
7.5°	4448.5	4596.1	4763.5	4945.8	5194.4	5627.6	5999.4	6398.2	6952.0	7181.0	7528.1
10°	3631.1	3796.1	4017.6	4158.0	4458.3	4871.8	5305.1	5765.5	6294.8	6624.6	7025.9
12.5°	3210.2	3345.6	3549.9	3845.3	4069.3	4337.6	4660.1	5241.1	5999.4	6312.0	6587.7
15°	2744.9	2895.1	3131.4	3458.8	3727.1	4047.1	4409.0	5041.7	5849.2	6331.7	6565.6
17.5°	2360.9	2469.2	2717.8	3000.9	3308.7	3658.2	4177.7	5031.9	6006.8	6624.6	7006.2
20°	2095.0	2109.7	2245.1	2486.4	2904.9	3360.3	4034.9	4982.7	6511.4	7129.3	7611.8
22.5°	1927.6	1912.8	1915.3	2119.6	2412.6	3067.4	3810.8	5150.0	7085.0	7931.9	8256.9
25°	1843.9	1804.4	1779.9	1824.2	2090.1	2720.3	3640.9	5371.6	7702.9	8594.1	8992.9
27.5°	1799.6	1730.6	1681.4	1688.8	1883.3	2545.5	3535.1	5467.6	8315.9	9517.3	9657.5
30°	1782.3	1696.1	1624.8	1600.2	1728.2	2301.7	3308.7	5632.6	8864.9	10024.4	10145.0
32.5°	1720.8	1614.9	1546.0	1523.8	1575.5	2087.6	3146.2	5750.8	9349.8	10575.8	10533.9
35°	1649.4	1560.7	1474.6	1432.7	1469.6	1949.7	3015.7	5694.1	9920.9	11004.1	10982.0
37.5°	1642.0	1526.3	1454.9	1386.0	1383.5	1779.9	2838.5	5748.2	10285.3	11772.2	11469.5
40°	1578.0	1504.1	1410.6	1354.0	1322.0	1693.7	2666.1	5620.2	10819.5	12082.4	11784.5
42.5°	1580.5	1469.6	1388.4	1322.0	1290.0	1568.1	2548.0	5585.8	11006.6	12587.1	11932.3
45°	1541.0	1432.7	1363.8	1285.0	1267.8	1472.2	2434.7	5425.8	11336.5	12611.7	11747.6
47.5°	1501.7	1405.6	1331.8	1238.3	1198.8	1437.7	2346.1	5292.8	11164.2	12380.3	11491.6
50°	1474.6	1363.8	1294.9	1228.4	1117.7	1378.6	2230.3	5260.8	10922.9	12067.7	11016.5
52.5°	1427.8	1329.4	1258.0	1206.2	1029.0	1324.4	2186.1	5447.9	11218.4	11833.8	10878.6
55°	1383.5	1282.6	1191.5	1090.6	955.2	1181.7	2063.0	5622.7	11649.1	12372.9	11503.9
57.5°	1336.8	1240.7	1142.2	1021.6	883.8	1033.9	1935.0	5654.7	10841.7	11435.0	10920.5
60°	1275.2	1152.1	1078.2	920.7	807.4	856.7	1533.7	4985.1	8409.4	9549.2	9566.5
62.5°	1206.2	1073.4	1009.4	824.7	728.7	738.6	1250.6	4189.9	6821.6	7904.8	8375.0
65°	1115.2	987.2	910.9	763.1	672.0	640.1	915.8	3069.8	5182.1	6413.0	6947.2
67.5°	997.0	876.4	780.4	664.6	600.6	549.0	625.3	1728.2	3060.0	4305.7	4468.1
70°	871.4	768.1	667.2	571.1	499.7	462.8	457.9	765.6	1462.3	2316.5	2636.5
72.5°	686.8	613.0	531.8	460.4	413.6	359.4	327.4	317.6	494.8	942.8	1302.3
75°	492.3	430.8	384.0	337.2	302.8	273.2	248.6	226.5	206.8	236.3	325.0
77.5°	310.2	288.0	251.1	238.8	219.1	211.7	201.8	189.6	174.8	164.9	164.9
80°	209.2	194.4	182.2	179.7	172.3	169.9	172.3	160.0	145.2	133.0	137.8
82.5°	140.4	137.8	135.4	133.0	135.4	137.8	142.8	140.4	128.0	120.6	123.1
85°	83.7	88.6	93.5	98.5	108.3	96.0	78.8	66.4	59.1	54.2	51.7
87.5°	32.0	44.3	39.4	36.9	39.4	36.9	34.5	32.0	27.1	24.6	24.6
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7538.0	7538.0	7538.0	7538.0	7538.0	7538.0	7538.0	7538.0	7538.0	7538.0
2.5°	8151.0	8200.2	8242.1	8232.2	8146.0	8030.4	7983.5	7744.8	7695.6	7663.5
5°	8261.7	8547.3	8608.8	8571.9	8347.9	8064.8	7789.1	7439.5	7235.2	7227.8
7.5°	8057.4	8409.4	8520.3	8603.9	8306.1	7813.7	7341.0	6816.6	6688.6	6698.5
10°	7538.0	8099.3	8372.5	8458.7	8116.5	7690.6	7035.8	6504.0	6230.8	6225.8
12.5°	7249.9	7690.6	7766.9	7887.6	7786.7	7355.8	6858.5	6262.8	5996.9	5992.0
15°	6993.9	7284.4	7306.6	7476.4	7530.6	7240.1	6905.3	6270.2	6056.0	6033.8
17.5°	7218.0	7016.0	6932.4	6954.6	7114.5	7220.4	7176.1	6688.6	6469.6	6346.4
20°	7368.1	6917.6	6664.1	6688.6	6878.2	7264.7	7579.8	7294.2	6947.2	6961.9
22.5°	7769.4	6932.4	6536.0	6508.9	6809.3	7496.1	8035.3	8059.9	7725.1	7643.8
25°	8370.1	7102.2	6496.6	6489.2	6777.3	7744.8	8567.0	8965.8	8623.6	8473.4
27.5°	8852.5	7368.1	6619.8	6644.3	6878.2	7946.6	9020.0	9549.2	9288.3	9103.7
30°	9276.0	7643.8	6792.1	6678.8	7149.0	8052.5	9214.4	10213.9	10004.7	9852.1
32.5°	9450.7	8035.3	7065.3	6878.2	7373.0	8180.5	9618.2	10858.9	10679.2	10302.6
35°	9746.2	8254.3	7213.0	7198.3	7764.4	8488.2	9807.7	11284.8	11211.0	10876.1
37.5°	9982.5	8475.9	7737.4	7574.9	8301.1	9005.2	10113.0	11873.2	11703.3	11545.8
40°	10164.7	8872.3	8227.3	8441.5	8960.9	9475.4	10393.7	11910.1	12400.0	11942.1
42.5°	9997.3	9226.8	9032.3	9544.3	10036.7	10012.1	10425.6	12195.7	12562.4	12323.7
45°	9955.4	9827.4	10305.0	10770.3	10883.5	10457.7	10196.7	11880.6	12513.2	12407.4
47.5°	9854.5	10418.2	11250.3	12008.6	11836.2	10755.5	9923.5	11824.0	12542.8	12353.2
50°	9820.0	10546.3	11949.5	12688.0	12584.6	11014.0	9795.5	11459.6	12333.5	12316.3
52.5°	9817.6	10809.7	12240.0	13057.3	13121.3	11422.6	9970.2	11644.2	12496.0	12641.2
55°	9928.3	10725.9	12203.1	12852.9	12828.4	11240.5	9989.9	11767.4	12695.4	12838.2
57.5°	9364.6	9608.3	10071.1	10585.7	10452.7	9310.5	8921.5	10878.6	11651.6	11548.2
60°	8087.0	7323.8	6801.9	6777.3	6518.8	6161.8	7301.6	9709.3	9709.3	9608.3
62.5°	7082.6	4807.8	4130.9	3938.8	4123.5	4534.6	7043.1	9443.4	9175.1	9059.3
65°	6193.9	3670.5	2986.1	2932.0	3252.0	3872.4	6368.6	8045.1	7572.4	7188.4
67.5°	3985.6	2688.3	2220.5	2124.5	2511.1	2843.3	4239.2	4948.2	4650.3	4500.1
70°	2570.1	1750.3	1235.8	1159.5	1309.7	1752.8	2707.9	2885.2	2451.9	2351.0
72.5°	1216.1	755.8	433.3	356.9	401.2	669.6	1070.8	1152.1	957.6	876.4
75°	386.5	278.2	177.3	152.6	145.2	172.3	246.2	189.6	137.8	135.4
77.5°	172.3	164.9	140.4	118.2	103.4	86.2	71.4	59.1	61.6	64.0
80°	142.8	130.4	115.7	103.4	86.2	66.4	51.7	39.4	39.4	41.9
82.5°	125.6	113.3	100.9	86.2	73.8	54.2	39.4	27.1	24.6	24.6
85°	54.2	64.0	69.0	73.8	59.1	44.3	27.1	17.2	14.8	14.8
87.5°	22.1	19.7	17.2	14.8	12.3	12.3	9.8	7.4	5.0	5.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)