

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: P650859

Luminaire Tested: **GALN-SA4C-840-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650859
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-SA4C-840-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 1050mA 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: 17419.6 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

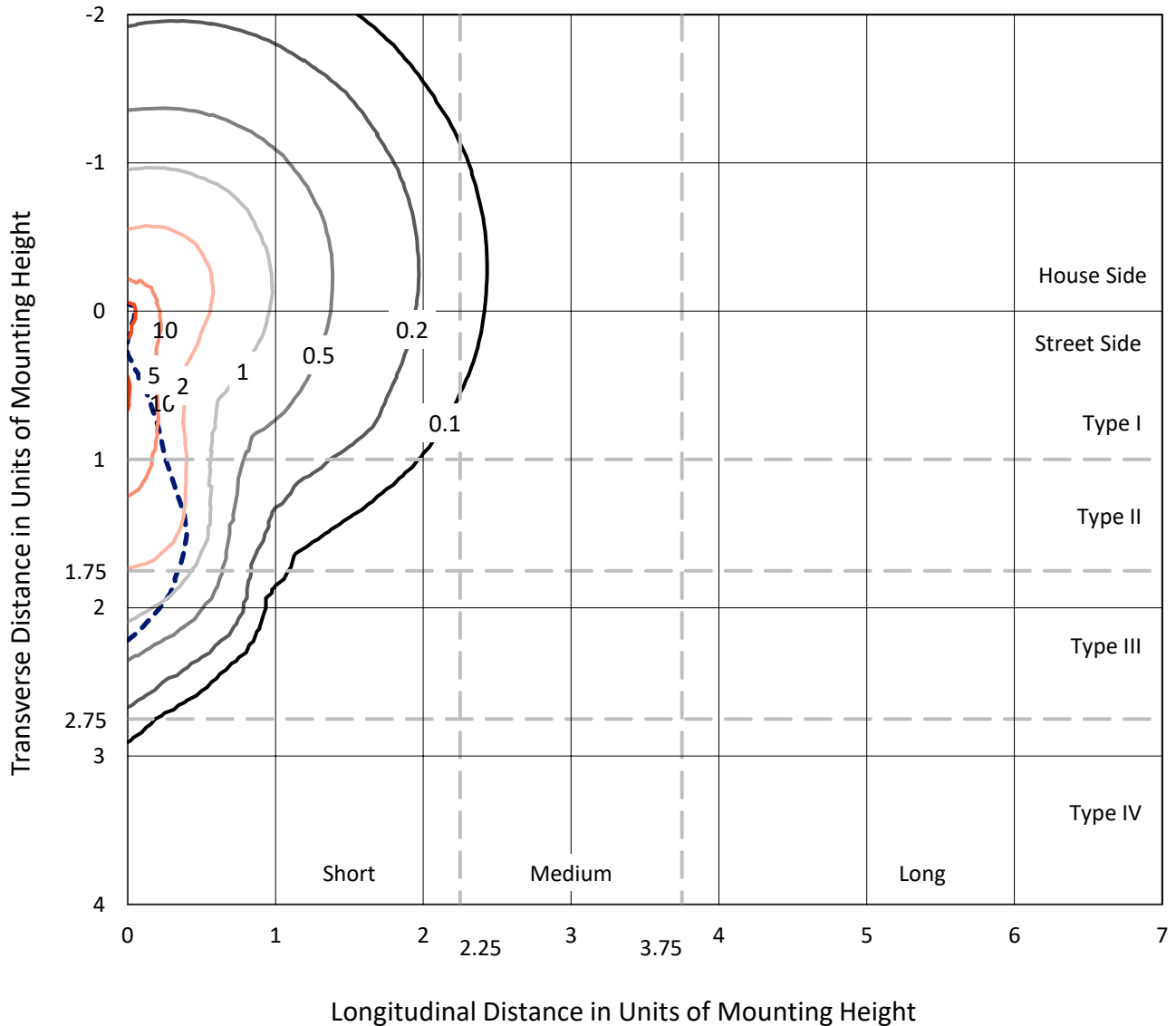
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

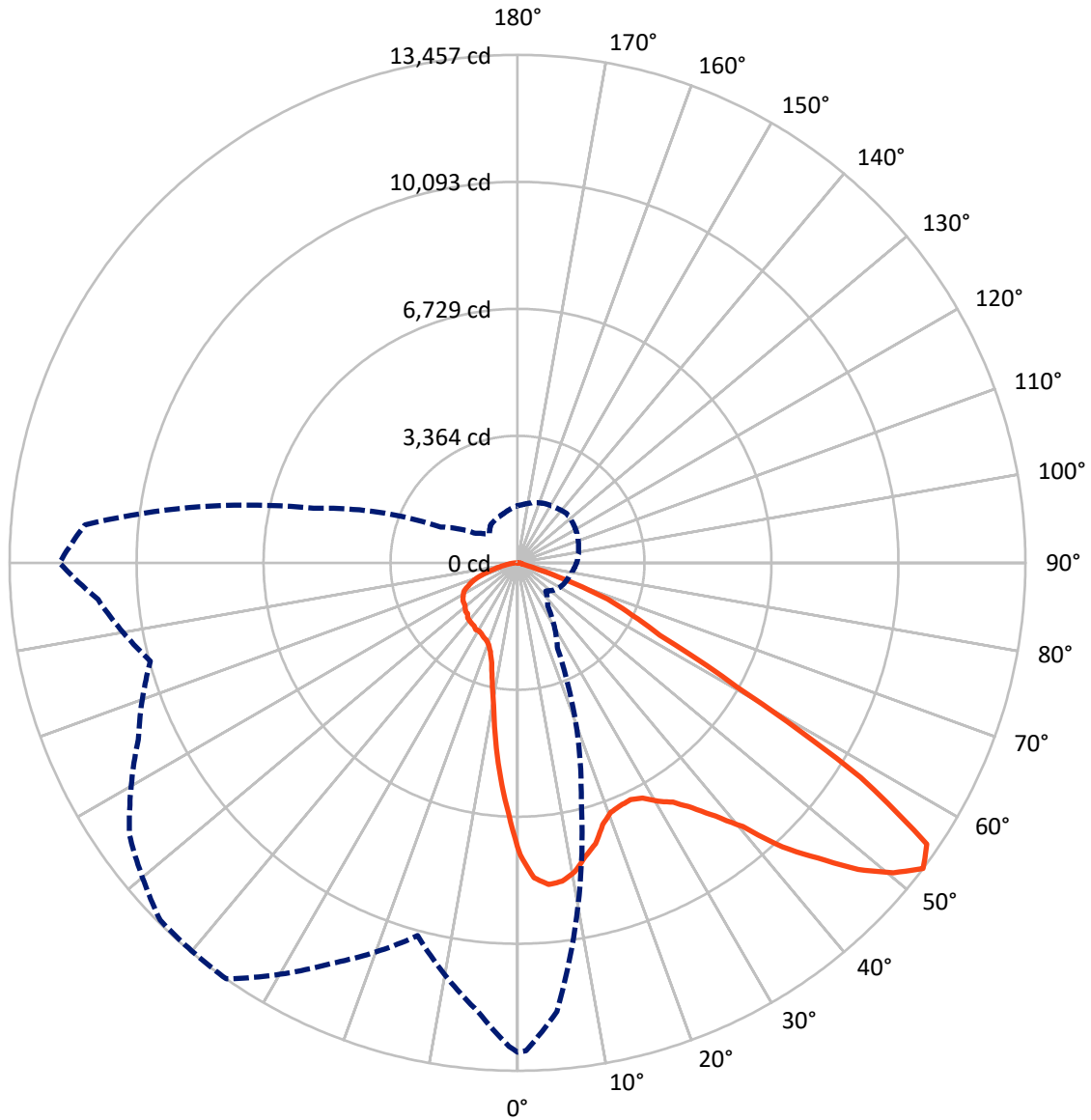
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 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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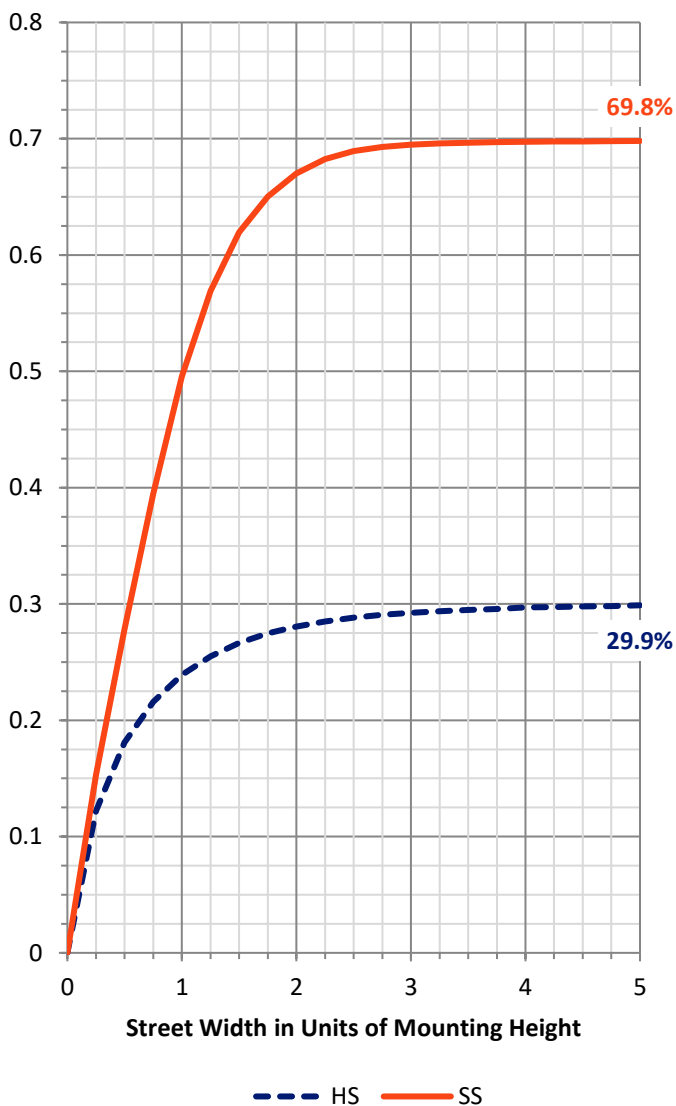
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5251.3	0.0	5251.3
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	12168.3	0.0	12168.3
	% Fixture	69.9	0.0	69.9
Total	Lumens	17419.6	0.0	17419.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	589.8	3.4
10°-20°	1278.6	7.3
20°-30°	1931.9	11.1
30°-40°	2791.6	16.0
40°-50°	3715.2	21.3
50°-60°	4155.5	23.9
60°-70°	2342.0	13.4
70°-80°	522.1	3.0
80°-90°	93.0	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°	17419.6	100.0
0°-180°	17419.6	100.0

Coefficient of Utilization



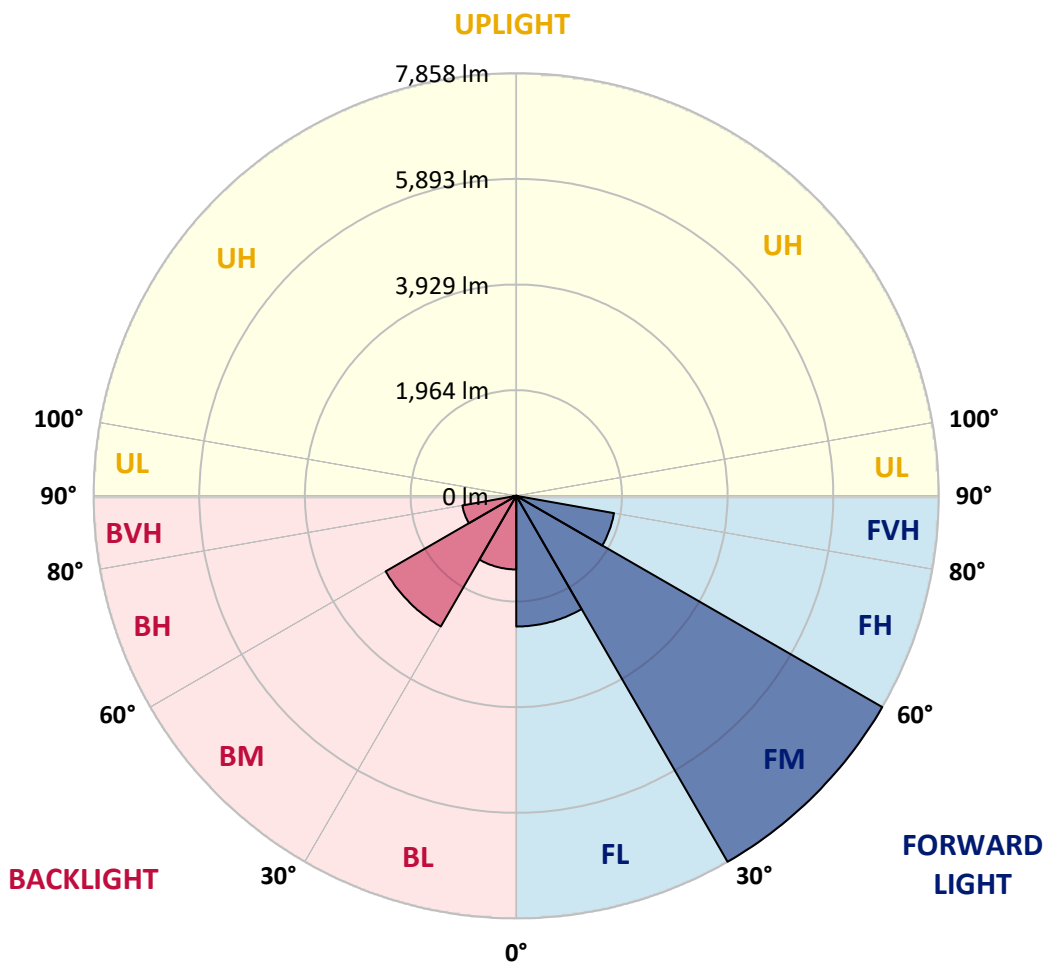
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2430.9	14.0			
FM (30°-60°)	7857.6	45.1			
FH (60°-80°)	1846.2	10.6			G2/5000
FVH (80°-90°)	33.7	0.2			G1/100
BL (0°-30°)	1369.4	7.9	B3/2500		
BM (30°-60°)	2804.7	16.1	B3/5000		
BH (60°-80°)	1017.9	5.8	B3/2500		G3/2500
BVH (80°-90°)	59.3	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7731.0	7731.0	7731.0	7731.0	7731.0	7731.0	7731.0	7731.0	7731.0	7731.0	7731.0
2.5°	7859.7	7986.0	7849.6	7607.3	7435.5	7279.0	7114.9	7082.1	6867.4	6829.6	6673.1
5°	7412.8	7385.1	7218.4	6900.3	6549.4	6231.2	5996.4	5769.2	5615.2	5435.9	5423.3
7.5°	6870.0	6708.4	6612.4	6130.2	5695.9	5196.0	4981.4	4635.5	4526.9	4365.4	4282.0
10°	6385.2	6266.5	6041.8	5559.6	4953.7	4622.9	4393.1	4206.3	4080.1	3913.4	3703.8
12.5°	6145.4	6097.4	5845.0	5097.6	4648.1	4294.7	4133.1	3951.4	3736.7	3469.0	3365.6
15°	6188.2	6026.7	5834.8	5009.2	4388.1	4047.2	3789.7	3562.5	3287.3	3032.3	2883.3
17.5°	6508.9	6385.2	6001.5	5064.8	4289.6	3797.3	3330.2	2994.4	2747.0	2517.2	2413.7
20°	7140.2	6960.9	6529.1	5135.5	4077.6	3448.9	2913.6	2499.5	2234.5	2113.3	2077.9
22.5°	7839.5	7733.5	7044.2	5294.5	3908.4	3125.7	2471.8	2057.7	1959.3	1926.4	1992.1
25°	8690.4	8415.1	7844.6	5554.6	3777.1	2850.5	2098.1	1868.4	1817.8	1850.7	1926.4
27.5°	9336.7	9263.5	8405.0	5799.5	3597.9	2519.7	1888.5	1737.1	1752.2	1785.0	1855.8
30°	10104.3	9733.1	8947.9	5968.7	3436.2	2292.5	1742.1	1701.7	1716.9	1772.4	1807.7
32.5°	10566.3	10427.4	9288.8	6223.7	3249.5	2095.6	1628.5	1590.6	1613.4	1696.6	1780.0
35°	11154.6	10879.3	9710.4	6289.3	3118.1	2017.3	1547.7	1519.9	1572.9	1631.0	1724.5
37.5°	11841.3	11652.0	10293.6	6243.8	3047.4	1936.5	1479.6	1466.9	1504.8	1585.5	1694.1
40°	12247.8	12189.7	10599.1	6271.6	2936.4	1865.8	1401.3	1416.4	1494.7	1557.8	1663.8
42.5°	12639.1	12260.4	11051.1	6261.5	2865.6	1769.9	1408.8	1391.2	1451.7	1525.0	1626.0
45°	12725.0	12348.8	11157.1	6190.9	2779.8	1676.4	1350.7	1358.4	1431.6	1522.5	1588.1
47.5°	12669.4	12391.7	11354.0	6170.6	2699.0	1610.9	1264.9	1355.8	1398.8	1471.9	1565.4
50°	12631.6	12616.4	11520.7	6266.5	2590.4	1507.3	1161.4	1323.0	1366.0	1439.1	1540.1
52.5°	12964.9	12932.1	11937.2	6519.0	2504.6	1396.2	1055.4	1239.7	1343.2	1413.9	1512.4
55°	13166.9	13022.9	12651.8	6829.6	2360.7	1249.8	982.1	1136.2	1287.7	1350.7	1451.7
57.5°	11843.8	11745.4	11444.9	6375.1	2118.3	1057.9	891.3	1030.1	1211.9	1310.4	1413.9
60°	9854.3	9700.3	8930.2	5418.2	1562.8	823.1	835.7	946.8	1191.7	1229.5	1350.7
62.5°	9291.3	8910.1	7862.3	4360.3	1199.3	706.9	749.8	871.0	1085.6	1148.8	1270.0
65°	7372.5	7089.6	5625.3	3148.5	802.9	613.5	684.2	785.2	936.7	1060.4	1171.5
67.5°	4615.3	4345.2	3001.9	1489.7	560.5	525.1	611.0	717.0	840.7	951.8	1075.6
70°	2411.1	2115.8	1386.1	537.8	386.3	429.2	510.0	611.0	732.2	823.1	919.0
72.5°	898.9	729.7	452.0	232.3	267.6	328.2	414.1	487.3	573.1	684.2	737.2
75°	138.8	118.7	116.1	141.4	181.8	237.3	295.4	368.6	444.4	515.0	550.4
77.5°	65.7	63.2	70.7	93.4	121.2	169.1	214.6	285.3	345.9	391.3	411.5
80°	42.9	40.4	45.4	63.2	90.9	126.2	171.6	219.7	275.2	313.1	308.1
82.5°	25.2	27.8	27.8	42.9	63.2	90.9	123.7	166.6	204.5	237.3	217.1
85°	15.1	12.6	12.6	25.2	42.9	73.3	103.5	70.7	73.3	73.3	83.3
87.5°	5.0	5.0	5.0	2.5	5.0	5.0	7.6	12.6	15.1	17.7	22.7
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°	7731.0	7731.0	7731.0	7731.0	7731.0	7731.0	7731.0	7731.0	7731.0	7731.0	7731.0
2.5°	6668.0	6746.2	6718.5	6620.0	6695.8	6708.4	6657.9	6832.1	6864.9	6811.9	6827.1
5°	5405.6	5425.8	5471.2	5567.2	5635.4	5716.1	5716.1	5721.2	5653.0	5824.7	5774.2
7.5°	4211.4	4224.0	4277.0	4481.5	4539.6	4693.6	4759.2	4713.8	4577.5	4519.4	4567.4
10°	3635.7	3562.5	3544.8	3570.0	3701.3	3767.0	3822.5	3807.4	3784.7	3739.3	3688.7
12.5°	3252.0	3198.9	3156.0	3095.4	3103.0	3166.1	3209.0	3173.7	3183.8	3193.9	3209.0
15°	2835.3	2797.5	2774.8	2683.9	2673.8	2716.7	2731.8	2752.0	2789.9	2792.5	2774.8
17.5°	2393.5	2360.7	2411.1	2461.7	2426.4	2428.9	2456.6	2474.3	2464.2	2418.8	2396.0
20°	2090.6	2125.9	2176.3	2224.4	2262.2	2284.9	2295.0	2267.3	2234.5	2141.0	2138.5
22.5°	2002.2	2047.6	2090.6	2163.7	2199.1	2257.2	2204.2	2141.0	2095.6	2050.1	1997.1
25°	1936.5	1974.4	2060.2	2088.0	2156.2	2204.2	2166.2	2103.2	2024.9	1959.3	1918.8
27.5°	1888.5	1931.4	1987.0	2062.7	2115.8	2143.5	2105.7	2080.5	1999.6	1921.3	1863.3
30°	1858.3	1903.7	2004.7	2067.9	2113.3	2136.0	2070.4	2040.0	1982.0	1916.3	1865.8
32.5°	1838.1	1878.5	1964.3	2045.1	2075.4	2075.4	2085.5	2050.1	1969.4	1858.3	1815.3
35°	1772.4	1828.0	1898.6	1992.1	2047.6	2080.5	2029.9	1989.6	1936.5	1822.9	1744.7
37.5°	1734.6	1772.4	1863.3	1951.7	1999.6	2035.0	2014.8	1944.1	1873.4	1780.0	1716.9
40°	1694.1	1754.7	1835.6	1918.8	1971.9	2007.2	1992.1	1908.7	1822.9	1734.6	1691.6
42.5°	1666.4	1706.7	1790.1	1883.5	1946.7	2014.8	1969.4	1865.8	1805.2	1684.0	1636.1
45°	1643.7	1709.2	1797.6	1835.6	1901.2	1971.9	1891.1	1828.0	1757.3	1668.9	1628.5
47.5°	1615.9	1676.4	1734.6	1835.6	1865.8	1898.6	1883.5	1782.5	1721.9	1626.0	1598.2
50°	1605.8	1628.5	1734.6	1790.1	1833.0	1865.8	1825.4	1749.7	1691.6	1593.2	1532.6
52.5°	1565.4	1608.3	1676.4	1749.7	1802.7	1843.1	1777.5	1729.5	1651.2	1547.7	1509.8
55°	1514.9	1540.1	1661.3	1737.1	1764.8	1792.6	1767.4	1689.1	1608.3	1502.3	1464.3
57.5°	1449.2	1507.3	1605.8	1711.9	1747.2	1762.3	1721.9	1658.8	1557.8	1464.3	1403.8
60°	1381.1	1441.6	1550.2	1636.1	1671.4	1727.0	1666.4	1628.5	1512.4	1408.8	1343.2
62.5°	1312.9	1381.1	1461.8	1570.4	1600.8	1623.5	1608.3	1555.3	1461.8	1345.7	1264.9
65°	1232.1	1282.6	1383.6	1439.1	1459.3	1512.4	1459.3	1439.1	1355.8	1244.8	1176.6
67.5°	1110.9	1153.9	1242.2	1295.2	1310.4	1333.1	1330.5	1307.8	1214.4	1138.7	1078.1
70°	972.0	1010.0	1065.5	1128.6	1136.2	1163.9	1138.7	1133.7	1073.0	969.5	936.7
72.5°	780.2	815.5	888.8	916.5	919.0	929.1	916.5	898.9	883.6	775.1	742.3
75°	598.4	618.6	654.0	679.2	679.2	691.8	684.2	666.6	626.1	558.0	525.1
77.5°	416.6	436.8	482.2	497.4	494.8	499.9	477.2	459.5	398.9	363.6	335.8
80°	303.0	315.6	338.3	348.4	350.9	358.5	330.8	315.6	280.2	239.9	227.2
82.5°	219.7	227.2	229.8	242.4	242.4	229.8	222.2	207.1	181.8	156.5	146.4
85°	90.9	93.4	96.0	111.1	113.6	136.3	126.2	118.7	103.5	88.4	80.8
87.5°	22.7	25.2	32.8	27.8	32.8	32.8	35.3	40.4	40.4	32.8	32.8
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°	7731.0	7731.0	7731.0	7731.0	7731.0	7731.0	7731.0	7731.0	7731.0	7731.0	7731.0
2.5°	6885.1	6905.4	7162.9	7195.7	7321.9	7450.7	7710.7	7897.6	8049.0	8147.5	8175.3
5°	5827.2	5956.0	6074.7	6266.5	6440.8	6688.2	6973.5	7327.0	7771.3	7998.6	8089.5
7.5°	4562.3	4713.8	4885.5	5072.3	5327.3	5771.7	6152.9	6562.0	7130.0	7364.8	7720.8
10°	3724.1	3893.2	4120.5	4264.4	4572.4	4996.5	5440.9	5913.1	6455.9	6794.3	7205.8
12.5°	3292.3	3431.2	3640.8	3943.7	4173.5	4448.7	4779.5	5375.3	6152.9	6473.6	6756.3
15°	2815.2	2969.2	3211.5	3547.3	3822.5	4150.8	4521.9	5170.8	5998.9	6493.8	6733.6
17.5°	2421.3	2532.3	2787.4	3077.7	3393.4	3751.9	4284.6	5160.7	6160.5	6794.3	7185.6
20°	2148.6	2163.7	2302.7	2550.1	2979.2	3446.3	4138.1	5110.2	6678.1	7311.8	7806.7
22.5°	1976.9	1961.8	1964.3	2173.8	2474.3	3145.9	3908.4	5281.9	7266.4	8134.9	8468.2
25°	1891.1	1850.7	1825.4	1870.9	2143.5	2789.9	3734.2	5509.1	7900.1	8814.1	9223.1
27.5°	1845.7	1774.9	1724.5	1732.0	1931.4	2610.6	3625.6	5607.6	8528.7	9760.9	9904.8
30°	1828.0	1739.6	1666.4	1641.1	1772.4	2360.7	3393.4	5776.7	9091.8	10281.0	10404.7
32.5°	1764.8	1656.3	1585.5	1562.8	1615.9	2141.0	3226.7	5897.9	9589.2	10846.5	10803.7
35°	1691.6	1600.8	1512.4	1469.4	1507.3	1999.6	3092.9	5839.9	10174.9	11285.9	11263.2
37.5°	1684.0	1565.4	1492.2	1421.5	1418.9	1825.4	2911.1	5895.4	10548.6	12073.6	11763.1
40°	1618.4	1542.6	1446.7	1388.7	1355.8	1737.1	2734.3	5764.1	11096.5	12391.7	12086.3
42.5°	1620.9	1507.3	1424.0	1355.8	1323.0	1608.3	2613.2	5728.8	11288.4	12909.3	12237.7
45°	1580.5	1469.4	1398.8	1317.9	1300.3	1509.8	2497.0	5564.6	11626.7	12934.6	12048.3
47.5°	1540.1	1441.6	1366.0	1270.0	1229.5	1474.5	2406.1	5428.3	11450.0	12697.2	11785.8
50°	1512.4	1398.8	1328.0	1259.9	1146.3	1413.9	2287.4	5395.5	11202.5	12376.6	11298.5
52.5°	1464.3	1363.4	1290.2	1237.1	1055.4	1358.4	2242.0	5587.4	11505.6	12136.7	11157.1
55°	1418.9	1315.4	1222.0	1118.4	979.6	1211.9	2115.8	5766.7	11947.3	12689.7	11798.4
57.5°	1371.0	1272.5	1171.5	1047.8	906.4	1060.4	1984.5	5799.5	11119.2	11727.7	11200.0
60°	1307.8	1181.6	1105.8	944.3	828.1	878.6	1572.9	5112.7	8624.7	9793.7	9811.4
62.5°	1237.1	1100.8	1035.2	845.8	747.3	757.4	1282.6	4297.2	6996.2	8107.2	8589.4
65°	1143.8	1012.5	934.2	782.7	689.3	656.5	939.2	3148.5	5314.7	6577.1	7125.0
67.5°	1022.6	898.9	800.4	681.7	616.0	563.0	641.3	1772.4	3138.4	4415.8	4582.5
70°	893.8	787.8	684.2	585.8	512.5	474.7	469.6	785.2	1499.8	2375.8	2704.1
72.5°	704.4	628.6	545.4	472.1	424.2	368.6	335.8	325.7	507.5	967.0	1335.6
75°	504.9	441.9	393.8	345.9	310.6	280.2	255.0	232.3	212.1	242.4	333.3
77.5°	318.2	295.4	257.5	244.9	224.7	217.1	207.1	194.4	179.3	169.1	169.1
80°	214.6	199.5	186.9	184.3	176.7	174.2	176.7	164.1	148.9	136.3	141.4
82.5°	143.9	141.4	138.8	136.3	138.8	141.4	146.4	143.9	131.3	123.7	126.2
85°	85.9	90.9	96.0	101.0	111.1	98.5	80.8	68.2	60.6	55.5	53.0
87.5°	32.8	45.4	40.4	37.8	40.4	37.8	35.3	32.8	27.8	25.2	25.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P650859

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7731.0	7731.0	7731.0	7731.0	7731.0	7731.0	7731.0	7731.0	7731.0	7731.0
2.5°	8359.6	8410.1	8453.1	8443.0	8354.6	8235.9	8187.9	7943.0	7892.5	7859.7
5°	8473.2	8766.1	8829.2	8791.4	8561.6	8271.2	7988.5	7630.0	7420.4	7412.8
7.5°	8263.7	8624.7	8738.3	8824.2	8518.7	8013.7	7529.0	6991.1	6859.9	6870.0
10°	7731.0	8306.6	8586.9	8675.3	8324.3	7887.5	7215.9	6670.6	6390.3	6385.2
12.5°	7435.5	7887.5	7965.8	8089.5	7986.0	7544.1	7034.1	6423.1	6150.4	6145.4
15°	7173.0	7470.9	7493.6	7667.8	7723.4	7425.4	7082.1	6430.7	6211.0	6188.2
17.5°	7402.7	7195.7	7109.8	7132.5	7296.7	7405.3	7359.8	6859.9	6635.2	6508.9
20°	7556.7	7094.7	6834.6	6859.9	7054.3	7450.7	7773.9	7480.9	7125.0	7140.2
22.5°	7968.3	7109.8	6703.4	6675.6	6983.6	7688.0	8241.0	8266.2	7922.8	7839.5
25°	8584.3	7284.1	6663.0	6655.3	6950.8	7943.0	8786.3	9195.3	8844.4	8690.4
27.5°	9079.2	7556.7	6789.2	6814.5	7054.3	8150.0	9250.8	9793.7	9526.1	9336.7
30°	9513.5	7839.5	6965.9	6849.8	7332.0	8258.6	9450.3	10475.4	10260.8	10104.3
32.5°	9692.7	8241.0	7246.1	7054.3	7561.8	8389.9	9864.4	11136.9	10952.6	10566.3
35°	9995.7	8465.7	7397.7	7382.6	7963.3	8705.5	10058.8	11573.7	11498.0	11154.6
37.5°	10238.1	8692.9	7935.4	7768.8	8513.6	9235.7	10371.9	12177.1	12002.9	11841.3
40°	10424.9	9099.4	8437.9	8657.5	9190.3	9717.9	10659.7	12215.0	12717.4	12247.8
42.5°	10253.2	9462.9	9263.5	9788.7	10293.6	10268.4	10692.6	12507.9	12884.0	12639.1
45°	10210.3	10079.0	10568.8	11046.0	11162.2	10725.4	10457.8	12184.7	12833.6	12725.0
47.5°	10106.8	10685.0	11538.4	12315.9	12139.2	11030.9	10177.4	12126.6	12863.9	12669.4
50°	10071.4	10816.3	12255.4	13012.8	12906.7	11296.0	10046.2	11753.0	12649.2	12631.6
52.5°	10068.9	11086.4	12553.3	13391.6	13457.2	11715.0	10225.5	11942.3	12815.9	12964.9
55°	10182.5	11000.5	12515.4	13182.0	13156.8	11528.3	10245.7	12068.5	13020.4	13166.9
57.5°	9604.3	9854.3	10329.0	10856.6	10720.3	9548.8	9149.9	11157.1	11949.9	11843.8
60°	8293.9	7511.3	6976.0	6950.8	6685.7	6319.6	7488.6	9957.8	9957.8	9854.3
62.5°	7263.9	4931.0	4236.6	4039.7	4229.1	4650.6	7223.4	9685.1	9409.9	9291.3
65°	6352.4	3764.5	3062.6	3007.1	3335.2	3971.5	6531.6	8251.1	7766.3	7372.5
67.5°	4087.7	2757.1	2277.3	2178.9	2575.3	2916.2	4347.7	5074.8	4769.3	4615.3
70°	2635.9	1795.1	1267.5	1189.2	1343.2	1797.6	2777.3	2959.1	2514.7	2411.1
72.5°	1247.3	775.1	444.4	366.1	411.5	686.8	1098.3	1181.6	982.1	898.9
75°	396.4	285.3	181.8	156.5	148.9	176.7	252.5	194.4	141.4	138.8
77.5°	176.7	169.1	143.9	121.2	106.1	88.4	73.3	60.6	63.2	65.7
80°	146.4	133.8	118.7	106.1	88.4	68.2	53.0	40.4	40.4	42.9
82.5°	128.8	116.1	103.5	88.4	75.8	55.5	40.4	27.8	25.2	25.2
85°	55.5	65.7	70.7	75.8	60.6	45.4	27.8	17.7	15.1	15.1
87.5°	22.7	20.2	17.7	15.1	12.6	12.6	10.1	7.6	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)