

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: P646899

Luminaire Tested: **GALN-SA4C-835-U-SLR-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646899  
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-835-U-SLR-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3500K, 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: 16218.3 lumens  
Efficiency: N/A  
Efficacy: 76.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G2

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

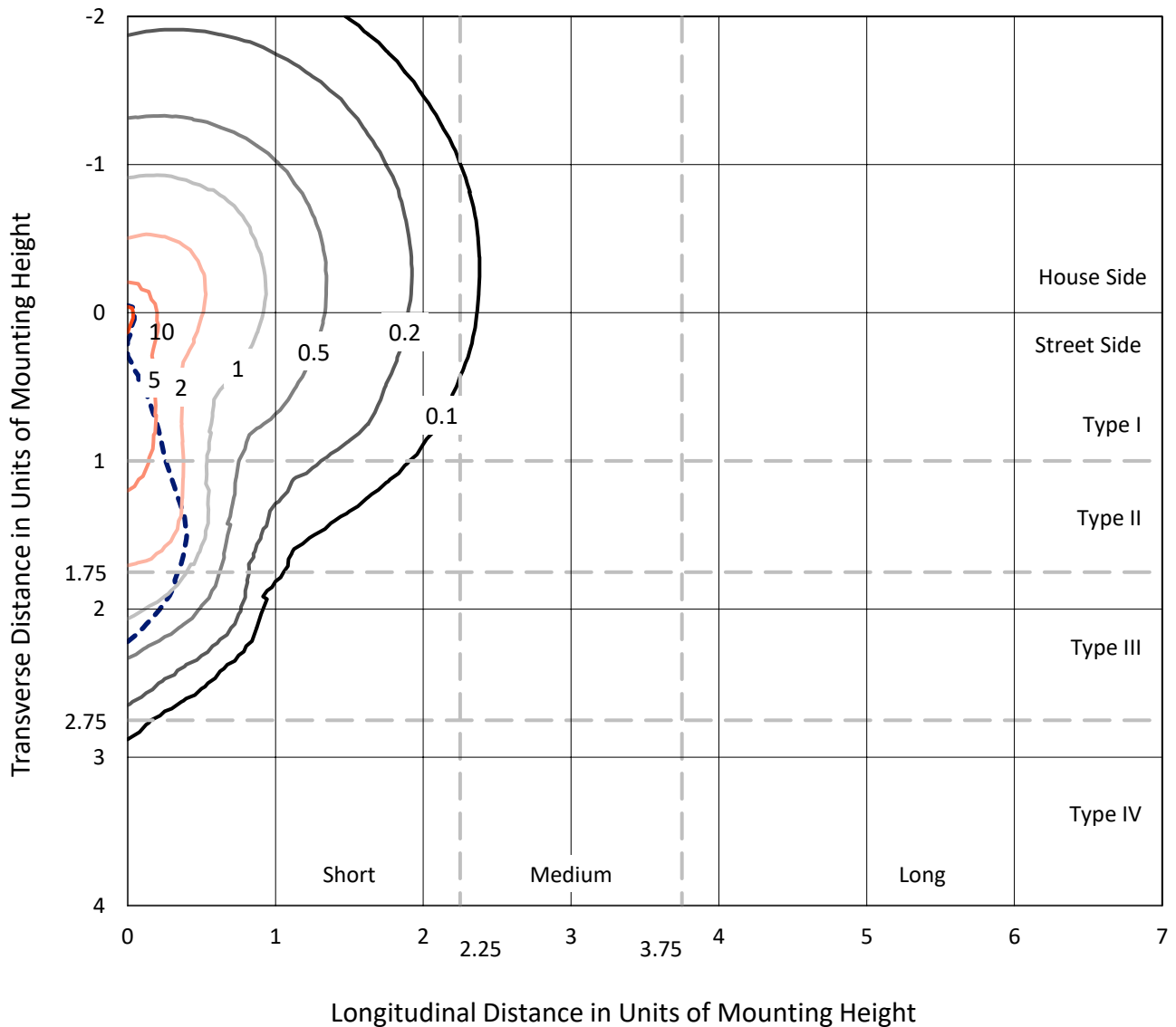




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### Iso-Footcandle Lines of Horizontal Illumination

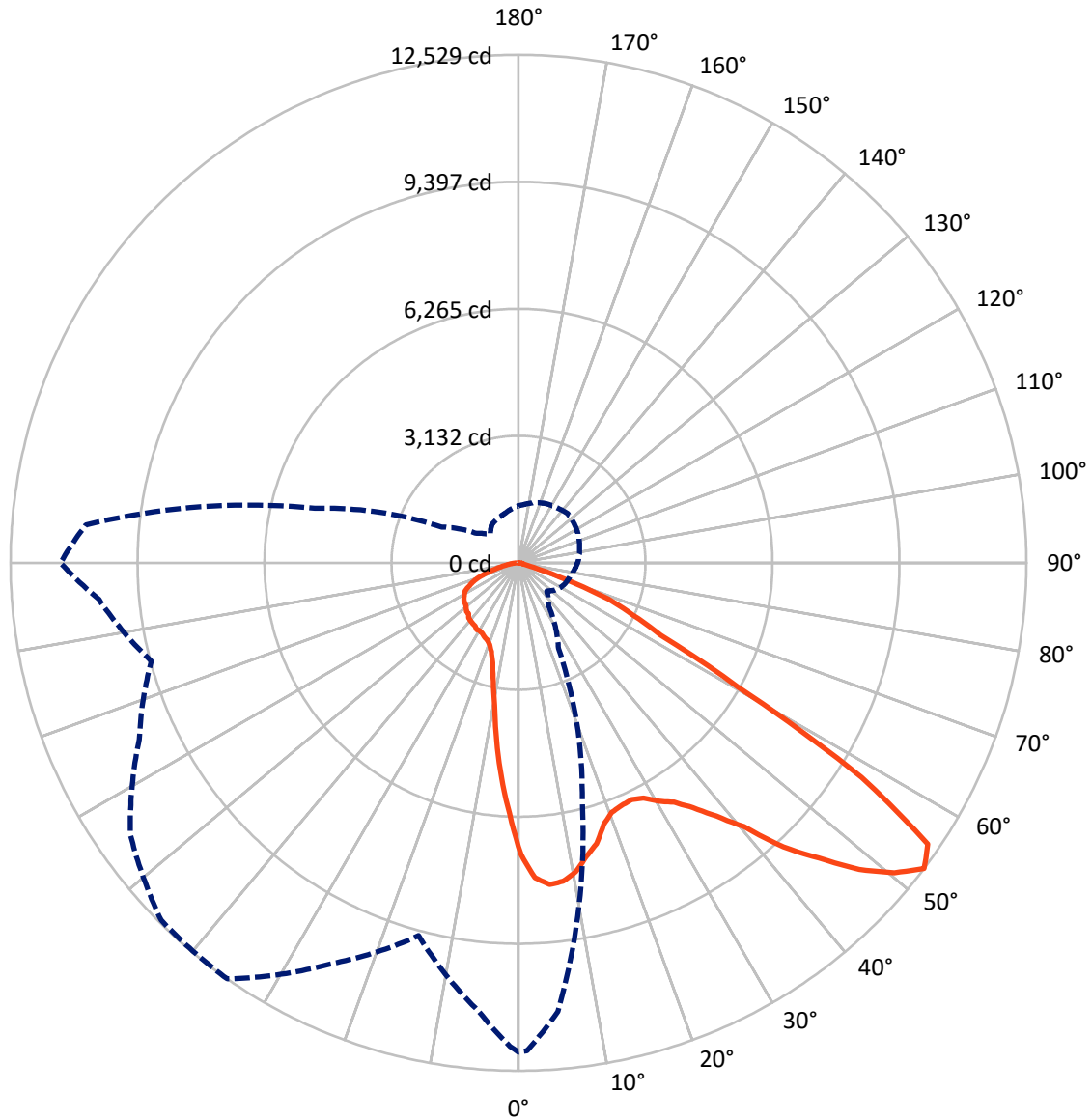
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 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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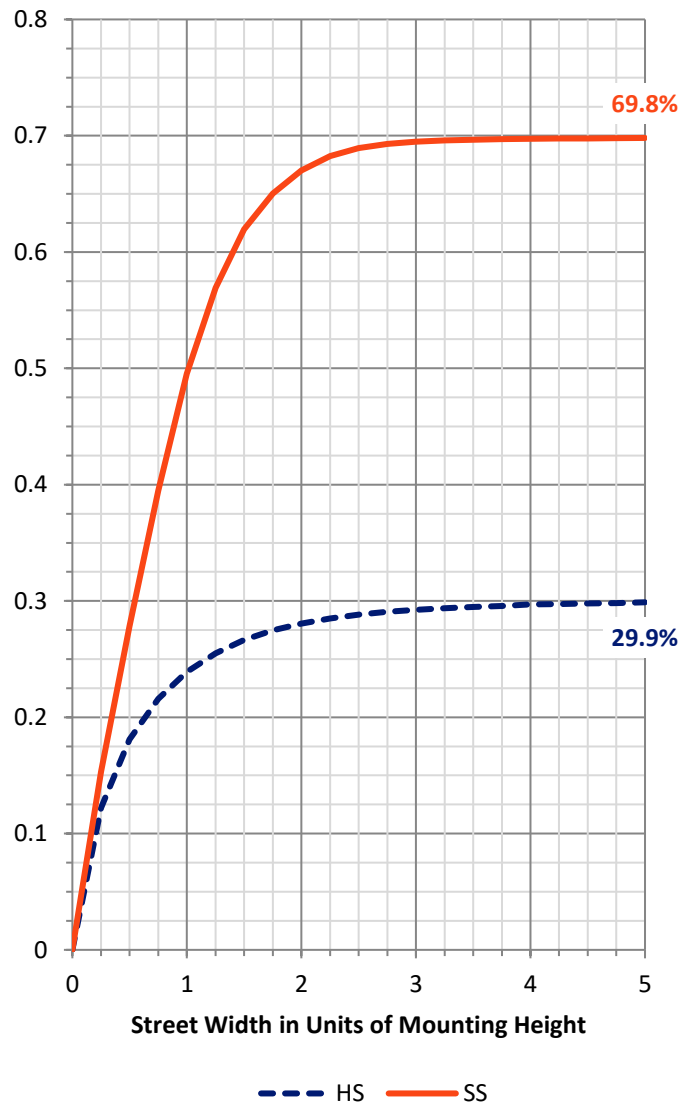
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4889.1	0.0	4889.1
	% Fixture	30.1	0.0	30.1
<b>Street Side</b>	Lumens	11329.1	0.0	11329.1
	% Fixture	69.9	0.0	69.9
<b>Total</b>	Lumens	16218.3	0.0	16218.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	549.1	3.4
10°-20°	1190.4	7.3
20°-30°	1798.6	11.1
30°-40°	2599.1	16.0
40°-50°	3458.9	21.3
50°-60°	3868.9	23.9
60°-70°	2180.5	13.4
70°-80°	486.1	3.0
80°-90°	86.5	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°	16218.3	100.0
0°-180°	16218.3	100.0

**Coefficient of Utilization**



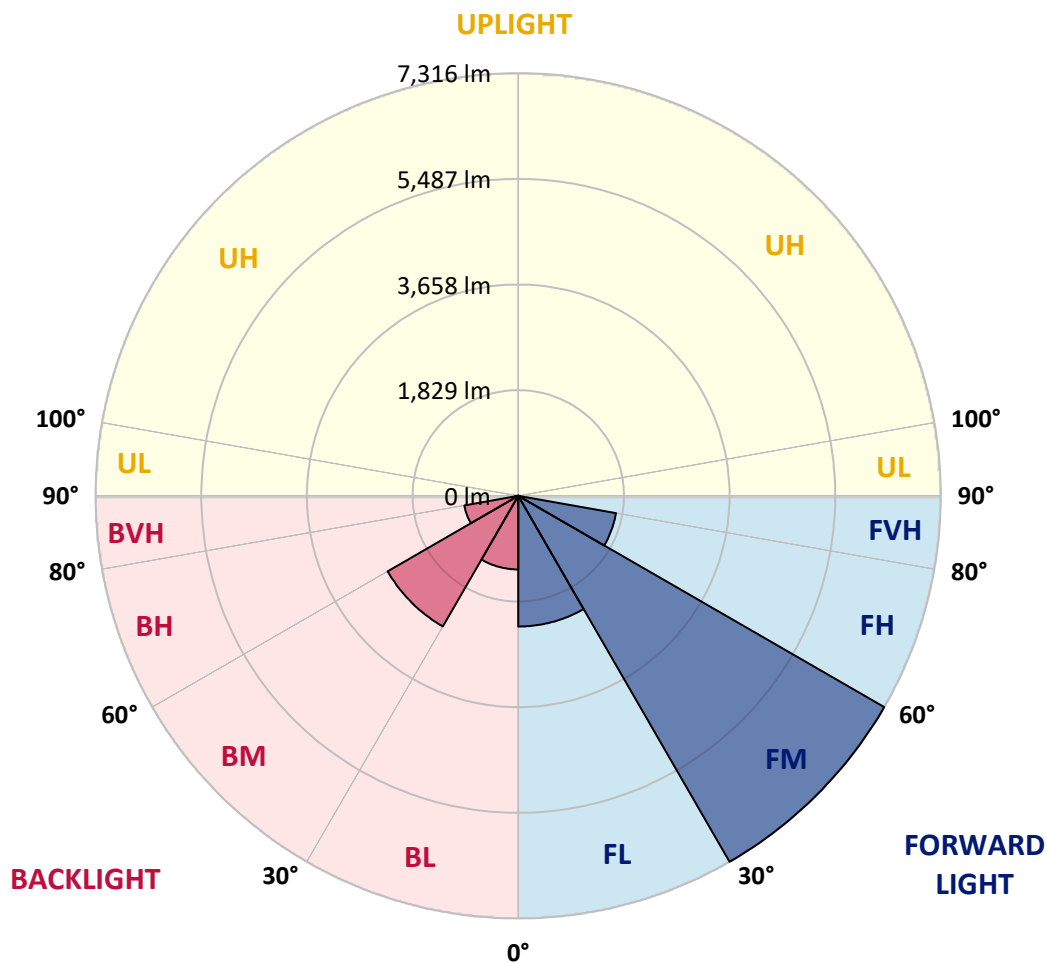
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2263.2	14.0			
FM (30°-60°)	7315.7	45.1			
FH (60°-80°)	1718.9	10.6			G1/1800
FVH (80°-90°)	31.3	0.2			G1/100
BL (0°-30°)	1275.0	7.9	B3/2500		
BM (30°-60°)	2611.3	16.1	B3/5000		
BH (60°-80°)	947.7	5.8	B2/1000		G2/1000
BVH (80°-90°)	55.2	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°	7197.8	7197.8	7197.8	7197.8	7197.8	7197.8	7197.8	7197.8	7197.8	7197.8	7197.8
2.5°	7317.7	7435.2	7308.3	7082.6	6922.7	6777.0	6624.2	6593.6	6393.8	6358.6	6212.9
5°	6901.6	6875.8	6720.6	6424.4	6097.7	5801.5	5582.9	5371.3	5227.9	5061.0	5049.3
7.5°	6396.2	6245.8	6156.4	5707.4	5303.1	4837.7	4637.9	4315.8	4214.7	4064.3	3986.7
10°	5944.8	5834.4	5625.2	5176.2	4612.0	4304.1	4090.2	3916.3	3798.7	3643.5	3448.4
12.5°	5721.5	5676.9	5441.8	4746.0	4327.6	3998.5	3848.1	3678.8	3479.0	3229.8	3133.5
15°	5761.5	5611.1	5432.4	4663.7	4085.5	3768.1	3528.4	3316.8	3060.6	2823.2	2684.4
17.5°	6060.0	5944.8	5587.6	4715.5	3993.8	3535.4	3100.5	2787.9	2557.5	2343.6	2247.2
20°	6647.7	6480.8	6078.8	4781.3	3796.4	3211.0	2712.7	2327.2	2080.4	1967.5	1934.6
22.5°	7298.8	7200.2	6558.4	4929.4	3638.8	2910.2	2301.3	1915.8	1824.2	1793.5	1854.7
25°	8091.1	7834.8	7303.6	5171.5	3516.6	2653.9	1953.4	1739.5	1692.5	1723.1	1793.5
27.5°	8692.8	8624.7	7825.4	5399.5	3349.8	2345.9	1758.3	1617.3	1631.4	1661.9	1727.8
30°	9407.4	9061.9	8330.8	5557.0	3199.3	2134.4	1622.0	1584.3	1598.5	1650.2	1683.1
32.5°	9837.6	9708.3	8648.2	5794.4	3025.4	1951.1	1516.2	1480.9	1502.1	1579.6	1657.2
35°	10385.3	10129.0	9040.7	5855.5	2903.1	1878.2	1441.0	1415.1	1464.4	1518.6	1605.5
37.5°	11024.6	10848.4	9583.7	5813.2	2837.3	1802.9	1377.5	1365.7	1401.0	1476.2	1577.3
40°	11403.1	11349.0	9868.1	5839.1	2733.8	1737.2	1304.6	1318.7	1391.6	1450.4	1549.1
42.5°	11767.5	11414.9	10288.9	5829.7	2668.0	1647.8	1311.7	1295.2	1351.6	1419.8	1513.9
45°	11847.4	11497.2	10387.7	5763.9	2588.1	1560.8	1257.6	1264.7	1332.8	1417.5	1478.5
47.5°	11795.7	11537.1	10571.0	5745.0	2512.9	1499.8	1177.7	1262.3	1302.3	1370.4	1457.4
50°	11760.4	11746.3	10726.2	5834.4	2411.8	1403.4	1081.3	1231.7	1271.7	1339.9	1433.9
52.5°	12070.7	12040.2	11114.0	6069.4	2331.9	1299.9	982.6	1154.2	1250.5	1316.4	1408.1
55°	12258.8	12124.8	11779.2	6358.6	2197.9	1163.6	914.4	1057.8	1198.9	1257.6	1351.6
57.5°	11027.0	10935.4	10655.6	5935.5	1972.2	984.9	829.8	959.1	1128.3	1220.0	1316.4
60°	9174.7	9031.3	8314.4	5044.6	1455.0	766.3	778.1	881.5	1109.5	1144.7	1257.6
62.5°	8650.5	8295.6	7320.0	4059.6	1116.6	658.2	698.1	811.0	1010.8	1069.6	1182.4
65°	6864.0	6600.7	5237.3	2931.3	747.5	571.2	637.0	731.1	872.1	987.3	1090.7
67.5°	4297.0	4045.5	2794.9	1386.9	521.9	488.9	568.8	667.6	782.8	886.2	1001.4
70°	2244.9	1969.9	1290.5	500.7	359.6	399.6	474.8	568.8	681.7	766.3	855.7
72.5°	836.9	679.3	420.8	216.3	249.2	305.6	385.5	453.7	533.6	637.0	686.4
75°	129.3	110.5	108.1	131.6	169.3	221.0	275.1	343.2	413.7	479.5	512.5
77.5°	61.2	58.8	65.9	87.0	112.8	157.5	199.8	265.6	322.0	364.3	383.1
80°	39.9	37.6	42.3	58.8	84.6	117.5	159.8	204.5	256.2	291.5	286.8
82.5°	23.5	25.8	25.8	39.9	58.8	84.6	115.2	155.1	190.4	221.0	202.2
85°	14.1	11.7	11.7	23.5	39.9	68.2	96.4	65.9	68.2	68.2	77.6
87.5°	4.7	4.7	4.7	2.3	4.7	4.7	7.0	11.7	14.1	16.4	21.1
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°	7197.8	7197.8	7197.8	7197.8	7197.8	7197.8	7197.8	7197.8	7197.8	7197.8	7197.8
2.5°	6208.2	6281.0	6255.2	6163.5	6234.0	6245.8	6198.7	6360.9	6391.5	6342.1	6356.2
5°	5032.8	5051.6	5093.9	5183.2	5246.7	5321.9	5321.9	5326.7	5263.2	5423.0	5376.0
7.5°	3921.0	3932.7	3982.0	4172.5	4226.6	4369.9	4431.0	4388.7	4261.8	4207.7	4252.4
10°	3385.0	3316.8	3300.3	3323.8	3446.1	3507.2	3558.9	3544.8	3523.7	3481.4	3434.3
12.5°	3027.7	2978.3	2938.4	2881.9	2889.0	2947.8	2987.7	2954.8	2964.2	2973.6	2987.7
15°	2639.8	2604.6	2583.4	2498.8	2489.4	2529.3	2543.4	2562.2	2597.5	2599.9	2583.4
17.5°	2228.4	2197.9	2244.9	2291.9	2259.0	2261.4	2287.2	2303.7	2294.3	2252.0	2230.8
20°	1946.4	1979.3	2026.2	2071.0	2106.2	2127.3	2136.7	2110.9	2080.4	1993.4	1991.0
22.5°	1864.1	1906.4	1946.4	2014.5	2047.5	2101.5	2052.2	1993.4	1951.1	1908.7	1859.4
25°	1802.9	1838.2	1918.1	1944.0	2007.5	2052.2	2016.9	1958.1	1885.2	1824.2	1786.5
27.5°	1758.3	1798.2	1850.0	1920.5	1969.9	1995.7	1960.5	1937.0	1861.7	1788.8	1734.8
30°	1730.1	1772.4	1866.4	1925.2	1967.5	1988.7	1927.6	1899.3	1845.3	1784.1	1737.2
32.5°	1711.3	1748.9	1828.9	1904.0	1932.3	1932.3	1941.7	1908.7	1833.6	1730.1	1690.1
35°	1650.2	1701.9	1767.7	1854.7	1906.4	1937.0	1889.9	1852.3	1802.9	1697.2	1624.3
37.5°	1614.9	1650.2	1734.8	1817.1	1861.7	1894.6	1875.8	1810.0	1744.2	1657.2	1598.5
40°	1577.3	1633.7	1709.0	1786.5	1835.9	1868.8	1854.7	1777.1	1697.2	1614.9	1574.9
42.5°	1551.4	1589.0	1666.6	1753.6	1812.4	1875.8	1833.6	1737.2	1680.7	1567.9	1523.2
45°	1530.3	1591.4	1673.7	1709.0	1770.0	1835.9	1760.7	1701.9	1636.1	1553.8	1516.2
47.5°	1504.5	1560.8	1614.9	1709.0	1737.2	1767.7	1753.6	1659.6	1603.2	1513.9	1488.0
50°	1495.1	1516.2	1614.9	1666.6	1706.6	1737.2	1699.5	1629.0	1574.9	1483.3	1426.9
52.5°	1457.4	1497.4	1560.8	1629.0	1678.4	1716.0	1654.9	1610.2	1537.3	1441.0	1405.7
55°	1410.4	1433.9	1546.7	1617.3	1643.1	1669.0	1645.5	1572.6	1497.4	1398.7	1363.4
57.5°	1349.3	1403.4	1495.1	1593.8	1626.7	1640.8	1603.2	1544.4	1450.4	1363.4	1307.0
60°	1285.8	1342.2	1443.3	1523.2	1556.1	1607.9	1551.4	1516.2	1408.1	1311.7	1250.5
62.5°	1222.3	1285.8	1361.0	1462.1	1490.4	1511.5	1497.4	1448.0	1361.0	1252.9	1177.7
65°	1147.1	1194.2	1288.2	1339.9	1358.7	1408.1	1358.7	1339.9	1262.3	1158.9	1095.4
67.5°	1034.3	1074.3	1156.6	1205.9	1220.0	1241.1	1238.8	1217.6	1130.7	1060.2	1003.7
70°	905.0	940.3	992.0	1050.8	1057.8	1083.7	1060.2	1055.5	999.0	902.6	872.1
72.5°	726.4	759.3	827.5	853.3	855.7	865.1	853.3	836.9	822.7	721.7	691.1
75°	557.1	575.9	608.9	632.4	632.4	644.1	637.0	620.6	582.9	519.5	488.9
77.5°	387.9	406.7	449.0	463.1	460.7	465.4	444.3	427.8	371.4	338.5	312.7
80°	282.1	293.9	315.0	324.4	326.7	333.8	308.0	293.9	260.9	223.3	211.6
82.5°	204.5	211.6	213.9	225.7	225.7	213.9	206.9	192.8	169.3	145.7	136.3
85°	84.6	87.0	89.3	103.4	105.8	126.9	117.5	110.5	96.4	82.3	75.2
87.5°	21.1	23.5	30.5	25.8	30.5	30.5	32.9	37.6	37.6	30.5	30.5
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°	7197.8	7197.8	7197.8	7197.8	7197.8	7197.8	7197.8	7197.8	7197.8	7197.8	7197.8
2.5°	6410.3	6429.1	6668.9	6699.4	6817.0	6936.8	7178.9	7352.9	7493.9	7585.6	7611.5
5°	5425.3	5545.3	5655.8	5834.4	5996.6	6227.0	6492.6	6821.7	7235.4	7447.0	7531.6
7.5°	4247.7	4388.7	4548.5	4722.5	4959.9	5373.7	5728.6	6109.4	6638.3	6856.9	7188.3
10°	3467.3	3624.7	3836.3	3970.3	4257.1	4652.0	5065.7	5505.3	6010.7	6325.7	6708.8
12.5°	3065.3	3194.6	3389.7	3671.7	3885.6	4141.9	4449.9	5004.6	5728.6	6027.1	6290.4
15°	2621.0	2764.4	2990.0	3302.7	3558.9	3864.5	4210.0	4814.2	5585.2	6045.9	6269.2
17.5°	2254.3	2357.7	2595.2	2865.5	3159.3	3493.1	3989.1	4804.8	5735.6	6325.7	6690.0
20°	2000.4	2014.5	2143.9	2374.2	2773.8	3208.7	3852.8	4757.7	6217.6	6807.6	7268.3
22.5°	1840.6	1826.5	1828.9	2023.9	2303.7	2929.0	3638.8	4917.6	6765.3	7573.9	7884.2
25°	1760.7	1723.1	1699.5	1741.9	1995.7	2597.5	3476.7	5129.2	7355.3	8206.2	8587.0
27.5°	1718.4	1652.5	1605.5	1612.6	1798.2	2430.6	3375.6	5220.9	7940.6	9087.7	9221.7
30°	1701.9	1619.6	1551.4	1527.9	1650.2	2197.9	3159.3	5378.3	8464.8	9571.9	9687.1
32.5°	1643.1	1542.0	1476.2	1455.0	1504.5	1993.4	3004.1	5491.2	8927.8	10098.5	10058.6
35°	1574.9	1490.4	1408.1	1368.1	1403.4	1861.7	2879.6	5437.2	9473.2	10507.5	10486.4
37.5°	1567.9	1457.4	1389.3	1323.4	1321.1	1699.5	2710.4	5488.8	9821.1	11240.9	10951.8
40°	1506.8	1436.3	1346.9	1292.9	1262.3	1617.3	2545.8	5366.6	10331.2	11537.1	11252.7
42.5°	1509.2	1403.4	1325.8	1262.3	1231.7	1497.4	2432.9	5333.7	10509.9	12019.0	11393.7
45°	1471.5	1368.1	1302.3	1227.0	1210.6	1405.7	2324.8	5180.9	10824.9	12042.5	11217.4
47.5°	1433.9	1342.2	1271.7	1182.4	1144.7	1372.8	2240.2	5054.0	10660.3	11821.6	10973.0
50°	1408.1	1302.3	1236.4	1173.0	1067.2	1316.4	2129.7	5023.4	10430.0	11523.0	10519.3
52.5°	1363.4	1269.4	1201.2	1151.8	982.6	1264.7	2087.4	5202.0	10712.1	11299.7	10387.7
55°	1321.1	1224.7	1137.7	1041.3	912.0	1128.3	1969.9	5369.0	11123.4	11814.5	10984.7
57.5°	1276.4	1184.8	1090.7	975.5	843.9	987.3	1847.6	5399.5	10352.4	10918.9	10427.6
60°	1217.6	1100.1	1029.6	879.2	771.0	818.0	1464.4	4760.1	8029.9	9118.3	9134.7
62.5°	1151.8	1024.9	963.8	787.5	695.8	705.2	1194.2	4000.8	6513.7	7548.0	7997.0
65°	1064.9	942.7	869.8	728.7	641.7	611.2	874.5	2931.3	4948.2	6123.5	6633.6
67.5°	952.0	836.9	745.2	634.7	573.5	524.2	597.0	1650.2	2921.9	4111.3	4266.5
70°	832.2	733.4	637.0	545.4	477.2	441.9	437.2	731.1	1396.3	2212.0	2517.6
72.5°	655.8	585.3	507.8	439.6	394.9	343.2	312.7	303.3	472.5	900.3	1243.5
75°	470.1	411.4	366.7	322.0	289.2	260.9	237.4	216.3	197.5	225.7	310.3
77.5°	296.2	275.1	239.8	228.0	209.2	202.2	192.8	181.0	166.9	157.5	157.5
80°	199.8	185.7	174.0	171.6	164.5	162.2	164.5	152.8	138.7	126.9	131.6
82.5°	134.0	131.6	129.3	126.9	129.3	131.6	136.3	134.0	122.2	115.2	117.5
85°	79.9	84.6	89.3	94.0	103.4	91.7	75.2	63.5	56.5	51.7	49.3
87.5°	30.5	42.3	37.6	35.2	37.6	35.2	32.9	30.5	25.8	23.5	23.5
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: P646899

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**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7197.8	7197.8	7197.8	7197.8	7197.8	7197.8	7197.8	7197.8	7197.8	7197.8
2.5°	7783.1	7830.1	7870.1	7860.7	7778.4	7667.9	7623.2	7395.2	7348.2	7317.7
5°	7888.9	8161.5	8220.3	8185.1	7971.2	7700.8	7437.6	7103.8	6908.6	6901.6
7.5°	7693.8	8029.9	8135.7	8215.6	7931.2	7461.1	7009.7	6509.0	6386.8	6396.2
10°	7197.8	7733.7	7994.7	8077.0	7750.2	7343.5	6718.2	6210.5	5949.5	5944.8
12.5°	6922.7	7343.5	7416.4	7531.6	7435.2	7023.8	6549.0	5980.1	5726.2	5721.5
15°	6678.3	6955.6	6976.8	7139.0	7190.8	6913.3	6593.6	5987.2	5782.7	5761.5
17.5°	6892.2	6699.4	6619.5	6640.6	6793.5	6894.5	6852.2	6386.8	6177.6	6060.0
20°	7035.6	6605.4	6363.3	6386.8	6567.8	6936.8	7237.7	6965.0	6633.6	6647.7
22.5°	7418.8	6619.5	6241.1	6215.2	6502.0	7157.8	7672.6	7696.1	7376.4	7298.8
25°	7992.3	6781.7	6203.5	6196.3	6471.4	7395.2	8180.4	8561.2	8234.4	8091.1
27.5°	8453.0	7035.6	6321.0	6344.5	6567.8	7588.0	8612.8	9118.3	8869.1	8692.8
30°	8857.4	7298.8	6485.5	6377.4	6826.4	7689.1	8798.6	9753.0	9553.1	9407.4
32.5°	9024.2	7672.6	6746.4	6567.8	7040.3	7811.3	9184.1	10368.8	10197.2	9837.6
35°	9306.3	7881.8	6887.5	6873.4	7414.1	8105.1	9365.1	10775.5	10705.0	10385.3
37.5°	9532.0	8093.4	7388.2	7233.0	7926.5	8598.7	9656.6	11337.3	11175.1	11024.6
40°	9705.9	8471.8	7856.0	8060.4	8556.5	9047.7	9924.5	11372.6	11840.4	11403.1
42.5°	9546.1	8810.3	8624.7	9113.6	9583.7	9560.2	9955.1	11645.2	11995.5	11767.5
45°	9506.2	9383.9	9840.0	10284.2	10392.4	9985.7	9736.5	11344.3	11948.5	11847.4
47.5°	9409.8	9948.1	10742.6	11466.6	11302.1	10270.1	9475.6	11290.3	11976.7	11795.7
50°	9376.8	10070.3	11410.2	12115.4	12016.6	10516.9	9353.3	10942.4	11776.9	11760.4
52.5°	9374.5	10321.8	11687.5	12468.0	12529.1	10907.1	9520.3	11118.7	11932.1	12070.7
55°	9480.3	10241.9	11652.3	12272.9	12249.4	10733.2	9539.1	11236.2	12122.4	12258.8
57.5°	8941.9	9174.7	9616.6	10107.9	9981.0	8890.3	8518.9	10387.7	11125.7	11027.0
60°	7721.9	6993.3	6494.9	6471.4	6224.6	5883.8	6972.1	9271.0	9271.0	9174.7
62.5°	6762.9	4590.9	3944.4	3761.1	3937.4	4329.9	6725.3	9017.2	8761.0	8650.5
65°	5914.3	3504.9	2851.4	2799.7	3105.2	3697.6	6081.2	7682.0	7230.7	6864.0
67.5°	3805.8	2566.9	2120.3	2028.6	2397.7	2715.1	4047.9	4724.9	4440.4	4297.0
70°	2454.1	1671.3	1180.1	1107.2	1250.5	1673.7	2585.8	2755.0	2341.2	2244.9
72.5°	1161.3	721.7	413.7	340.8	383.1	639.4	1022.5	1100.1	914.4	836.9
75°	369.0	265.6	169.3	145.7	138.7	164.5	235.1	181.0	131.6	129.3
77.5°	164.5	157.5	134.0	112.8	98.7	82.3	68.2	56.5	58.8	61.2
80°	136.3	124.6	110.5	98.7	82.3	63.5	49.3	37.6	37.6	39.9
82.5°	119.9	108.1	96.4	82.3	70.5	51.7	37.6	25.8	23.5	23.5
85°	51.7	61.2	65.9	70.5	56.5	42.3	25.8	16.4	14.1	14.1
87.5°	21.1	18.8	16.4	14.1	11.7	11.7	9.4	7.0	4.7	4.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)