

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: P529148

Luminaire Tested: **GALN-SA4B-735-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529148
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-SA4B-735-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 800mA 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: 15617 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

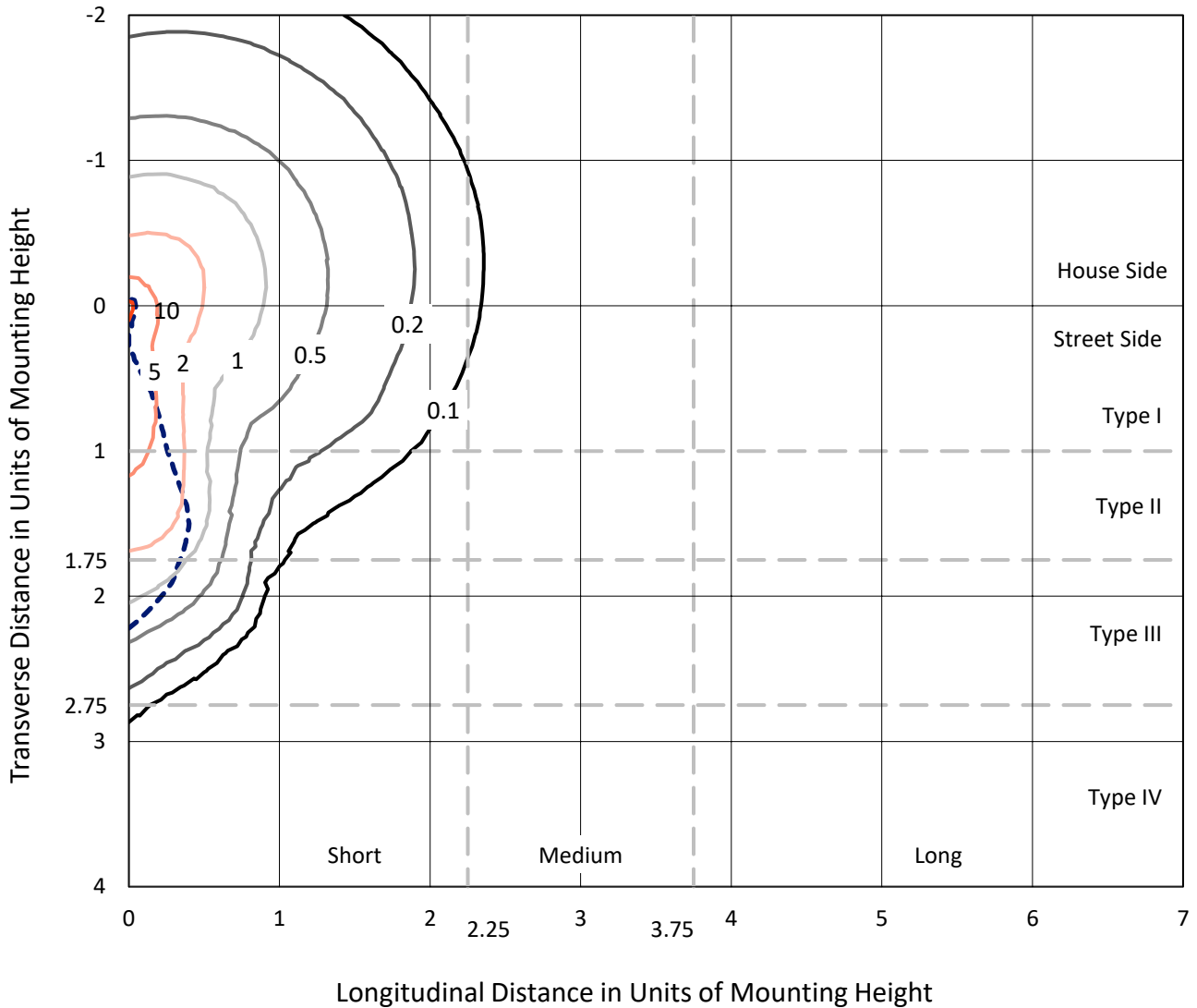
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

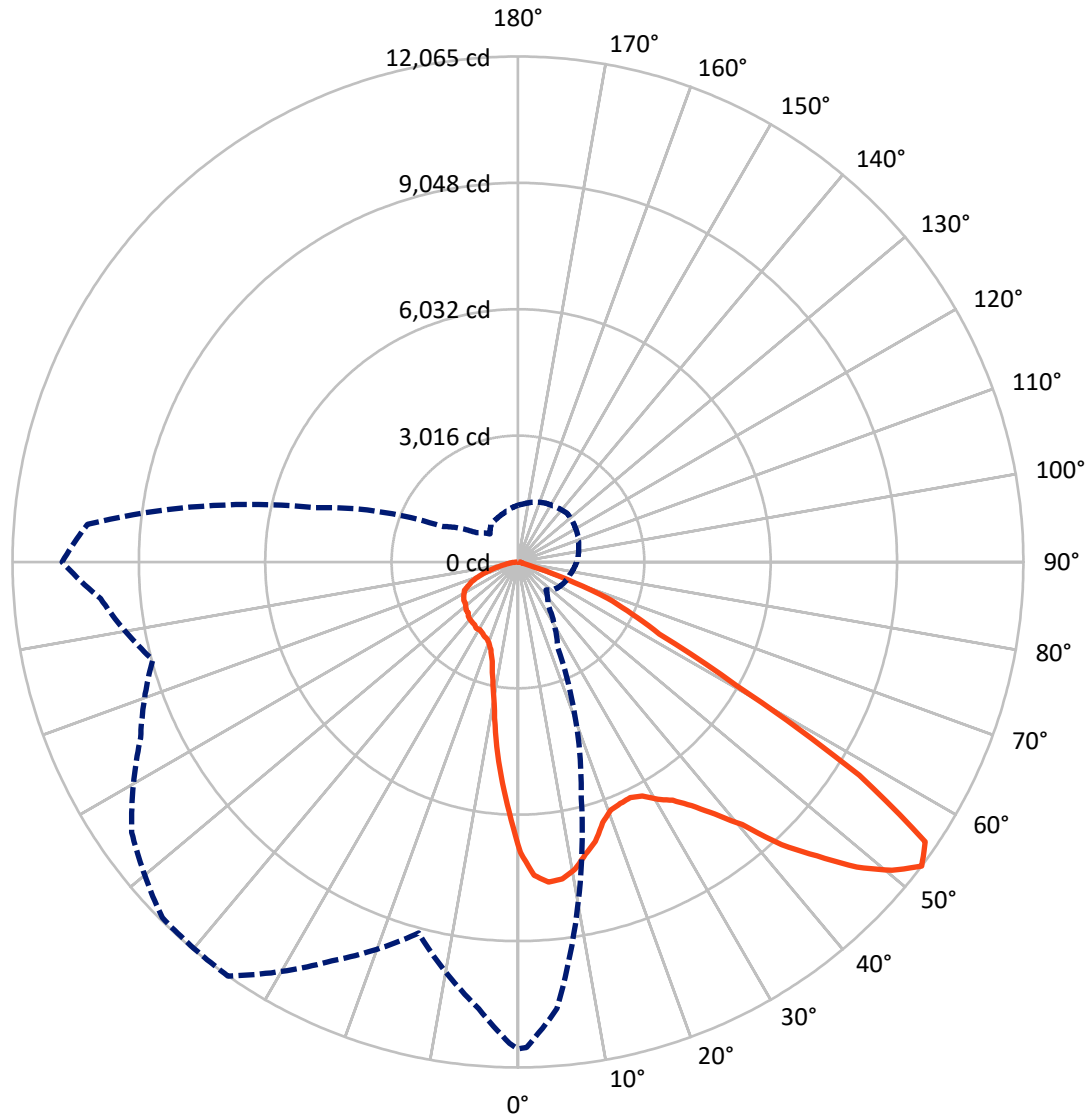
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 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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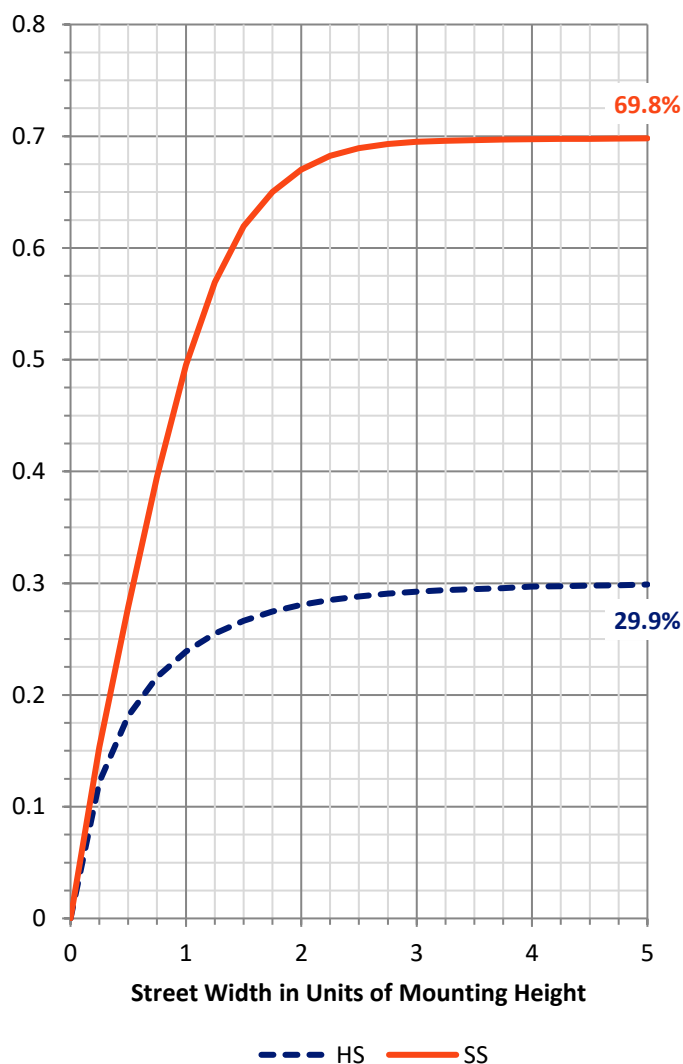
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4707.9	0.0	4707.9
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	10909.1	0.0	10909.1
	% Fixture	69.9	0.0	69.9
Total	Lumens	15617.0	0.0	15617.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	528.8	3.4
10°-20°	1146.3	7.3
20°-30°	1732.0	11.1
30°-40°	2502.7	16.0
40°-50°	3330.7	21.3
50°-60°	3725.5	23.9
60°-70°	2099.7	13.4
70°-80°	468.0	3.0
80°-90°	83.3	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°	15617.0	100.0
0°-180°	15617.0	100.0

Coefficient of Utilization



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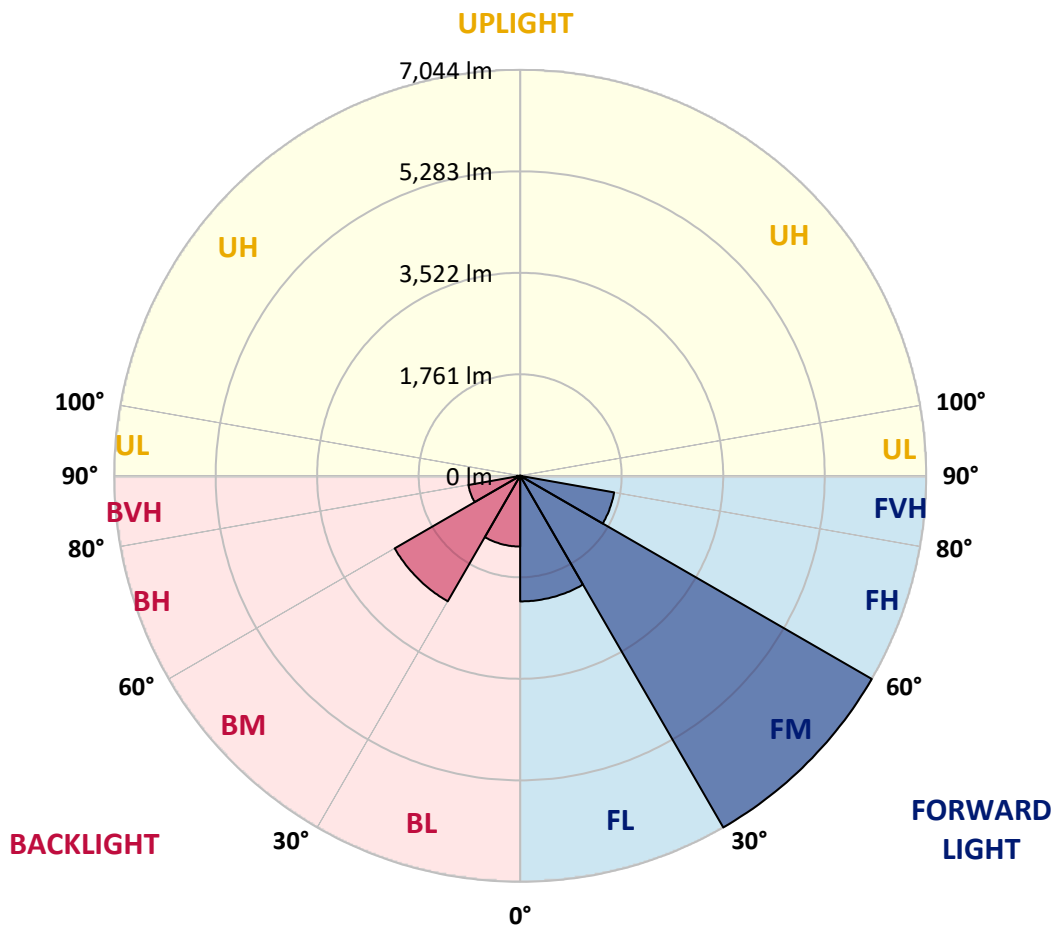
CATALOG NUMBER: GALN-SA4B-735-U-SLR-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2179.3	14.0			
FM (30°-60°)	7044.5	45.1			
FH (60°-80°)	1655.2	10.6			G1/1800
FVH (80°-90°)	30.2	0.2			G1/100
BL (0°-30°)	1227.7	7.9	B3/2500		
BM (30°-60°)	2514.5	16.1	B3/5000		
BH (60°-80°)	912.5	5.8	B2/1000		G2/1000
BVH (80°-90°)	53.2	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°	6930.9	6930.9	6930.9	6930.9	6930.9	6930.9	6930.9	6930.9	6930.9	6930.9	6930.9
2.5°	7046.4	7159.5	7037.3	6820.0	6666.1	6525.7	6378.6	6349.2	6156.8	6122.8	5982.5
5°	6645.7	6620.8	6471.4	6186.2	5871.6	5586.4	5375.9	5172.2	5034.1	4873.4	4862.1
7.5°	6159.1	6014.2	5928.2	5495.8	5106.5	4658.3	4465.9	4155.8	4058.5	3913.6	3838.9
10°	5724.5	5618.1	5416.6	4984.3	4441.0	4144.5	3938.5	3771.0	3657.9	3508.5	3320.6
12.5°	5509.4	5466.4	5240.1	4570.1	4167.2	3850.3	3705.4	3542.4	3350.0	3110.1	3017.3
15°	5547.9	5403.0	5231.0	4490.8	3934.0	3628.4	3397.6	3193.8	2947.1	2718.5	2584.9
17.5°	5835.4	5724.5	5380.4	4540.6	3845.7	3404.3	2985.6	2684.5	2462.7	2256.7	2163.9
20°	6401.3	6240.5	5853.5	4604.0	3655.6	3092.0	2612.1	2240.9	2003.2	1894.6	1862.9
22.5°	7028.3	6933.2	6315.2	4746.6	3503.9	2802.2	2216.0	1844.8	1756.5	1727.1	1785.9
25°	7791.1	7544.3	7032.8	4979.8	3386.2	2555.5	1881.0	1675.0	1629.7	1659.2	1727.1
27.5°	8370.5	8304.9	7535.3	5199.3	3225.5	2259.0	1693.1	1557.3	1570.9	1600.3	1663.7
30°	9058.6	8725.9	8021.9	5351.0	3080.7	2055.3	1561.8	1525.6	1539.2	1589.0	1620.7
32.5°	9472.9	9348.4	8327.5	5579.6	2913.2	1878.7	1460.0	1426.0	1446.4	1521.1	1595.8
35°	10000.3	9753.5	8705.5	5638.4	2795.5	1808.6	1387.5	1362.6	1410.2	1462.2	1546.0
37.5°	10615.9	10446.2	9228.4	5597.7	2732.1	1736.1	1326.4	1315.1	1349.1	1421.5	1518.8
40°	10980.4	10928.3	9502.3	5622.6	2632.5	1672.7	1256.3	1269.8	1340.0	1396.6	1491.7
42.5°	11331.2	10991.7	9907.5	5613.5	2569.1	1586.7	1263.0	1247.2	1301.5	1367.2	1457.7
45°	11408.2	11070.9	10002.5	5550.2	2492.1	1503.0	1211.0	1217.8	1283.4	1364.9	1423.8
47.5°	11358.4	11109.4	10179.1	5532.1	2419.7	1444.1	1134.0	1215.5	1254.0	1319.6	1403.4
50°	11324.4	11310.8	10328.5	5618.1	2322.4	1351.3	1041.2	1186.1	1224.6	1290.2	1380.8
52.5°	11623.2	11593.8	10702.0	5844.4	2245.4	1251.7	946.2	1111.4	1204.2	1267.6	1355.9
55°	11804.3	11675.3	11342.5	6122.8	2116.4	1120.4	880.5	1018.6	1154.4	1211.0	1301.5
57.5°	10618.2	10529.9	10260.6	5715.4	1899.1	948.4	799.0	923.5	1086.5	1174.8	1267.6
60°	8834.5	8696.5	8006.1	4857.5	1401.1	737.9	749.2	848.8	1068.4	1102.3	1211.0
62.5°	8329.8	7988.0	7048.6	3909.1	1075.2	633.8	672.3	780.9	973.3	1029.9	1138.6
65°	6609.5	6356.0	5043.1	2822.6	719.8	550.0	613.4	704.0	839.8	950.7	1050.3
67.5°	4137.7	3895.5	2691.3	1335.5	502.5	470.8	547.8	642.8	753.8	853.3	964.3
70°	2161.7	1896.8	1242.7	482.1	346.3	384.8	457.2	547.8	656.4	737.9	823.9
72.5°	805.8	654.2	405.2	208.2	239.9	294.3	371.2	436.9	513.8	613.4	660.9
75°	124.5	106.4	104.1	126.8	163.0	212.8	264.8	330.5	398.4	461.8	493.4
77.5°	58.9	56.6	63.4	83.8	108.6	151.7	192.4	255.8	310.1	350.8	369.0
80°	38.5	36.2	40.7	56.6	81.5	113.2	153.9	196.9	246.7	280.7	276.2
82.5°	22.6	24.9	24.9	38.5	56.6	81.5	110.9	149.4	183.3	212.8	194.7
85°	13.6	11.3	11.3	22.6	38.5	65.6	92.8	63.4	65.6	65.6	74.7
87.5°	4.5	4.5	4.5	2.3	4.5	4.5	6.8	11.3	13.6	15.8	20.4
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°	6930.9	6930.9	6930.9	6930.9	6930.9	6930.9	6930.9	6930.9	6930.9	6930.9	6930.9
2.5°	5978.0	6048.1	6023.2	5935.0	6002.9	6014.2	5968.9	6125.1	6154.5	6107.0	6120.6
5°	4846.2	4864.3	4905.1	4991.1	5052.2	5124.6	5124.6	5129.2	5068.0	5222.0	5176.7
7.5°	3775.6	3786.9	3834.4	4017.8	4069.8	4207.9	4266.7	4226.0	4103.8	4051.7	4094.7
10°	3259.5	3193.8	3178.0	3200.6	3318.3	3377.2	3427.0	3413.4	3393.0	3352.3	3307.0
12.5°	2915.4	2867.9	2829.4	2775.1	2781.9	2838.5	2876.9	2845.3	2854.3	2863.4	2876.9
15°	2541.9	2508.0	2487.6	2406.1	2397.1	2435.6	2449.1	2467.2	2501.2	2503.5	2487.6
17.5°	2145.8	2116.4	2161.7	2206.9	2175.2	2177.5	2202.4	2218.3	2209.2	2168.5	2148.1
20°	1874.2	1905.9	1951.2	1994.2	2028.1	2048.5	2057.5	2032.6	2003.2	1919.5	1917.2
22.5°	1795.0	1835.7	1874.2	1939.8	1971.5	2023.6	1976.1	1919.5	1878.7	1838.0	1790.5
25°	1736.1	1770.1	1847.0	1871.9	1933.1	1976.1	1942.1	1885.5	1815.3	1756.5	1720.3
27.5°	1693.1	1731.6	1781.4	1849.3	1896.8	1921.7	1887.8	1865.1	1792.7	1722.5	1670.5
30°	1666.0	1706.7	1797.2	1853.8	1894.6	1914.9	1856.1	1828.9	1776.9	1718.0	1672.7
32.5°	1647.8	1684.1	1761.0	1833.5	1860.6	1860.6	1869.7	1838.0	1765.6	1666.0	1627.5
35°	1589.0	1638.8	1702.2	1785.9	1835.7	1865.1	1819.9	1783.7	1736.1	1634.3	1564.1
37.5°	1555.0	1589.0	1670.5	1749.7	1792.7	1824.4	1806.3	1742.9	1679.5	1595.8	1539.2
40°	1518.8	1573.2	1645.6	1720.3	1767.8	1799.5	1785.9	1711.2	1634.3	1555.0	1516.6
42.5°	1493.9	1530.1	1604.8	1688.6	1745.2	1806.3	1765.6	1672.7	1618.4	1509.8	1466.8
45°	1473.6	1532.4	1611.6	1645.6	1704.4	1767.8	1695.4	1638.8	1575.4	1496.2	1460.0
47.5°	1448.7	1503.0	1555.0	1645.6	1672.7	1702.2	1688.6	1598.1	1543.7	1457.7	1432.8
50°	1439.6	1460.0	1555.0	1604.8	1643.3	1672.7	1636.5	1568.6	1516.6	1428.3	1374.0
52.5°	1403.4	1441.9	1503.0	1568.6	1616.2	1652.4	1593.5	1550.5	1480.3	1387.5	1353.6
55°	1358.1	1380.8	1489.4	1557.3	1582.2	1607.1	1584.5	1514.3	1441.9	1346.8	1312.8
57.5°	1299.3	1351.3	1439.6	1534.7	1566.4	1579.9	1543.7	1487.1	1396.6	1312.8	1258.5
60°	1238.1	1292.5	1389.8	1466.8	1498.5	1548.3	1493.9	1460.0	1355.9	1263.0	1204.2
62.5°	1177.0	1238.1	1310.6	1407.9	1435.1	1455.4	1441.9	1394.3	1310.6	1206.5	1134.0
65°	1104.6	1149.9	1240.4	1290.2	1308.3	1355.9	1308.3	1290.2	1215.5	1115.9	1054.8
67.5°	996.0	1034.4	1113.7	1161.2	1174.8	1195.1	1192.9	1172.5	1088.8	1020.9	966.5
70°	871.5	905.4	955.2	1011.8	1018.6	1043.5	1020.9	1016.3	962.0	869.2	839.8
72.5°	699.4	731.1	796.8	821.7	823.9	833.0	821.7	805.8	792.2	694.9	665.5
75°	536.5	554.6	586.3	608.9	608.9	620.2	613.4	597.6	561.4	500.2	470.8
77.5°	373.5	391.6	432.3	445.9	443.7	448.2	427.8	412.0	357.6	325.9	301.0
80°	271.6	282.9	303.3	312.4	314.6	321.4	296.5	282.9	251.3	215.0	203.7
82.5°	196.9	203.7	206.0	217.3	217.3	206.0	199.2	185.6	163.0	140.3	131.3
85°	81.5	83.8	86.0	99.6	101.9	122.2	113.2	106.4	92.8	79.2	72.4
87.5°	20.4	22.6	29.4	24.9	29.4	29.4	31.7	36.2	36.2	29.4	29.4
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	6930.9	6930.9	6930.9	6930.9	6930.9	6930.9	6930.9	6930.9	6930.9	6930.9	6930.9
2.5°	6172.6	6190.7	6421.6	6451.1	6564.2	6679.7	6912.8	7080.3	7216.1	7304.4	7329.3
5°	5224.2	5339.7	5446.0	5618.1	5774.3	5996.1	6251.9	6568.8	6967.1	7170.9	7252.3
7.5°	4090.2	4226.0	4379.9	4547.4	4776.0	5174.4	5516.2	5882.9	6392.2	6602.7	6921.9
10°	3338.7	3490.4	3694.1	3823.1	4099.2	4479.5	4877.9	5301.2	5787.8	6091.2	6460.1
12.5°	2951.6	3076.1	3264.0	3535.6	3741.6	3988.3	4284.9	4819.0	5516.2	5803.7	6057.2
15°	2523.8	2661.9	2879.2	3180.3	3427.0	3721.2	4054.0	4635.7	5378.1	5821.8	6036.8
17.5°	2170.7	2270.3	2498.9	2759.2	3042.2	3363.6	3841.2	4626.6	5523.0	6091.2	6442.0
20°	1926.3	1939.8	2064.3	2286.2	2671.0	3089.7	3709.9	4581.4	5987.0	6555.2	6998.8
22.5°	1772.3	1758.8	1761.0	1948.9	2218.3	2820.4	3503.9	4735.3	6514.4	7293.1	7591.9
25°	1695.4	1659.2	1636.5	1677.3	1921.7	2501.2	3347.8	4939.0	7082.6	7902.0	8268.7
27.5°	1654.6	1591.3	1546.0	1552.8	1731.6	2340.5	3250.4	5027.3	7646.2	8750.8	8879.8
30°	1638.8	1559.6	1493.9	1471.3	1589.0	2116.4	3042.2	5179.0	8151.0	9217.1	9328.0
32.5°	1582.2	1484.9	1421.5	1401.1	1448.7	1919.5	2892.8	5287.6	8596.9	9724.1	9685.6
35°	1516.6	1435.1	1355.9	1317.4	1351.3	1792.7	2772.8	5235.5	9122.0	10118.0	10097.6
37.5°	1509.8	1403.4	1337.7	1274.4	1272.1	1636.5	2609.8	5285.3	9457.0	10824.2	10545.8
40°	1450.9	1383.0	1297.0	1244.9	1215.5	1557.3	2451.4	5167.6	9948.2	11109.4	10835.5
42.5°	1453.2	1351.3	1276.6	1215.5	1186.1	1441.9	2342.8	5135.9	10120.2	11573.4	10971.3
45°	1417.0	1317.4	1254.0	1181.6	1165.7	1353.6	2238.6	4988.8	10423.5	11596.1	10801.6
47.5°	1380.8	1292.5	1224.6	1138.6	1102.3	1321.9	2157.1	4866.6	10265.1	11383.3	10566.1
50°	1355.9	1254.0	1190.6	1129.5	1027.6	1267.6	2050.8	4837.2	10043.3	11095.8	10129.3
52.5°	1312.8	1222.3	1156.7	1109.1	946.2	1217.8	2010.0	5009.2	10314.9	10880.8	10002.5
55°	1272.1	1179.3	1095.5	1002.7	878.2	1086.5	1896.8	5169.9	10711.0	11376.5	10577.5
57.5°	1229.1	1140.8	1050.3	939.4	812.6	950.7	1779.1	5199.3	9968.6	10514.1	10041.0
60°	1172.5	1059.3	991.4	846.6	742.4	787.7	1410.2	4583.6	7732.2	8780.2	8796.1
62.5°	1109.1	986.9	928.0	758.3	670.0	679.1	1149.9	3852.5	6272.2	7268.2	7700.5
65°	1025.4	907.7	837.5	701.7	617.9	588.5	842.0	2822.6	4764.7	5896.5	6387.7
67.5°	916.7	805.8	717.5	611.2	552.3	504.8	574.9	1589.0	2813.6	3958.9	4108.3
70°	801.3	706.2	613.4	525.1	459.5	425.5	421.0	704.0	1344.5	2130.0	2424.2
72.5°	631.5	563.6	488.9	423.3	380.3	330.5	301.0	292.0	455.0	866.9	1197.4
75°	452.7	396.1	353.1	310.1	278.4	251.3	228.6	208.2	190.1	217.3	298.8
77.5°	285.2	264.8	230.9	219.6	201.5	194.7	185.6	174.3	160.7	151.7	151.7
80°	192.4	178.8	167.5	165.2	158.4	156.2	158.4	147.1	133.5	122.2	126.8
82.5°	129.0	126.8	124.5	122.2	124.5	126.8	131.3	129.0	117.7	110.9	113.2
85°	77.0	81.5	86.0	90.5	99.6	88.3	72.4	61.1	54.3	49.8	47.5
87.5°	29.4	40.7	36.2	34.0	36.2	34.0	31.7	29.4	24.9	22.6	22.6
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°	6930.9	6930.9	6930.9	6930.9	6930.9	6930.9	6930.9	6930.9	6930.9	6930.9
2.5°	7494.5	7539.8	7578.3	7569.2	7490.0	7383.6	7340.6	7121.1	7075.8	7046.4
5°	7596.4	7859.0	7915.6	7881.6	7675.6	7415.3	7161.8	6840.4	6652.5	6645.7
7.5°	7408.5	7732.2	7834.1	7911.0	7637.1	7184.4	6749.8	6267.7	6150.0	6159.1
10°	6930.9	7447.0	7698.3	7777.5	7462.8	7071.3	6469.2	5980.2	5729.0	5724.5
12.5°	6666.1	7071.3	7141.4	7252.3	7159.5	6763.4	6306.2	5758.4	5514.0	5509.4
15°	6430.7	6697.8	6718.1	6874.3	6924.1	6657.0	6349.2	5765.2	5568.3	5547.9
17.5°	6636.7	6451.1	6374.1	6394.5	6541.6	6638.9	6598.2	6150.0	5948.5	5835.4
20°	6774.7	6360.5	6127.4	6150.0	6324.3	6679.7	6969.4	6706.8	6387.7	6401.3
22.5°	7143.7	6374.1	6009.7	5984.8	6260.9	6892.4	7388.2	7410.8	7102.9	7028.3
25°	7696.0	6530.3	5973.4	5966.7	6231.5	7121.1	7877.1	8243.8	7929.1	7791.1
27.5°	8139.6	6774.7	6086.6	6109.3	6324.3	7306.7	8293.6	8780.2	8540.3	8370.5
30°	8529.0	7028.3	6245.1	6140.9	6573.3	7404.0	8472.4	9391.4	9199.0	9058.6
32.5°	8689.7	7388.2	6496.3	6324.3	6779.3	7521.7	8843.6	9984.4	9819.2	9472.9
35°	8961.3	7589.6	6632.1	6618.6	7139.2	7804.6	9017.9	10376.0	10308.1	10000.3
37.5°	9178.6	7793.3	7114.3	6964.9	7632.6	8280.0	9298.6	10917.0	10760.8	10615.9
40°	9346.1	8157.8	7564.7	7761.6	8239.2	8712.3	9556.6	10950.9	11401.4	10980.4
42.5°	9192.2	8483.7	8304.9	8775.7	9228.4	9205.8	9586.0	11213.5	11550.8	11331.2
45°	9153.7	9036.0	9475.1	9902.9	10007.1	9615.5	9375.5	10923.8	11505.5	11408.2
47.5°	9060.9	9579.2	10344.3	11041.5	10883.0	9889.4	9124.3	10871.7	11532.7	11358.4
50°	9029.2	9697.0	10987.2	11666.2	11571.2	10127.0	9006.6	10536.7	11340.3	11324.4
52.5°	9026.9	9939.1	11254.3	12005.7	12064.6	10502.8	9167.3	10706.5	11489.7	11623.2
55°	9128.8	9862.2	11220.3	11817.9	11795.2	10335.3	9185.4	10819.7	11673.0	11804.3
57.5°	8610.5	8834.5	9260.1	9733.2	9610.9	8560.7	8203.0	10002.5	10713.3	10618.2
60°	7435.7	6734.0	6254.1	6231.5	5993.8	5665.6	6713.6	8927.4	8927.4	8834.5
62.5°	6512.2	4420.7	3798.2	3621.6	3791.4	4169.4	6476.0	8682.9	8436.2	8329.8
65°	5695.0	3374.9	2745.7	2695.9	2990.1	3560.5	5855.7	7397.2	6962.6	6609.5
67.5°	3664.7	2471.8	2041.7	1953.4	2308.8	2614.4	3897.8	4549.7	4275.8	4137.7
70°	2363.1	1609.4	1136.3	1066.1	1204.2	1611.6	2489.9	2652.9	2254.5	2161.7
72.5°	1118.2	694.9	398.4	328.2	369.0	615.7	984.6	1059.3	880.5	805.8
75°	355.4	255.8	163.0	140.3	133.5	158.4	226.4	174.3	126.8	124.5
77.5°	158.4	151.7	129.0	108.6	95.1	79.2	65.6	54.3	56.6	58.9
80°	131.3	120.0	106.4	95.1	79.2	61.1	47.5	36.2	36.2	38.5
82.5°	115.4	104.1	92.8	79.2	67.9	49.8	36.2	24.9	22.6	22.6
85°	49.8	58.9	63.4	67.9	54.3	40.7	24.9	15.8	13.6	13.6
87.5°	20.4	18.1	15.8	13.6	11.3	11.3	9.1	6.8	4.5	4.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)