

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: P529954

Luminaire Tested: **GALN-SA5A-827-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529954
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-SA5A-827-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 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: 12538 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

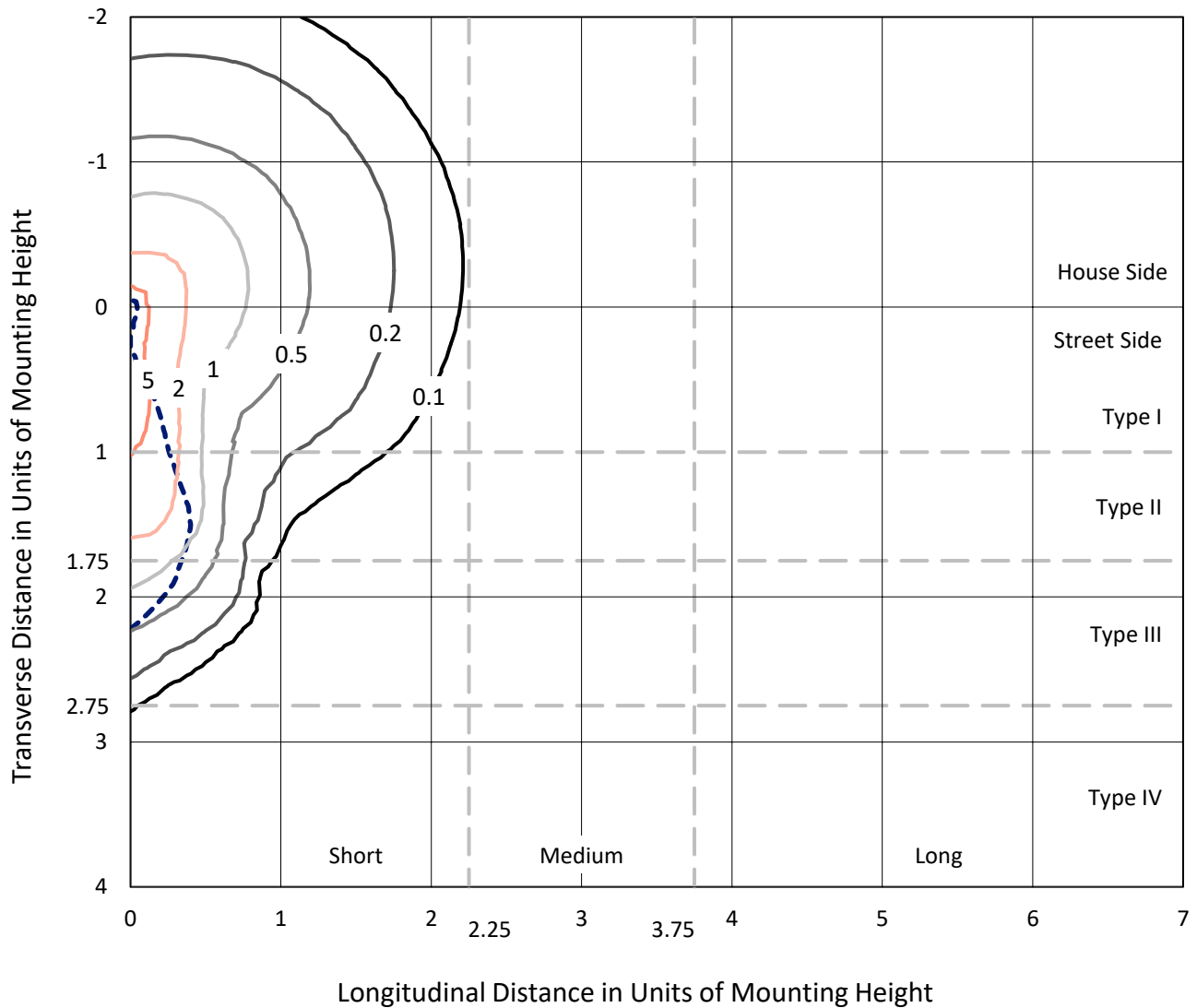
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

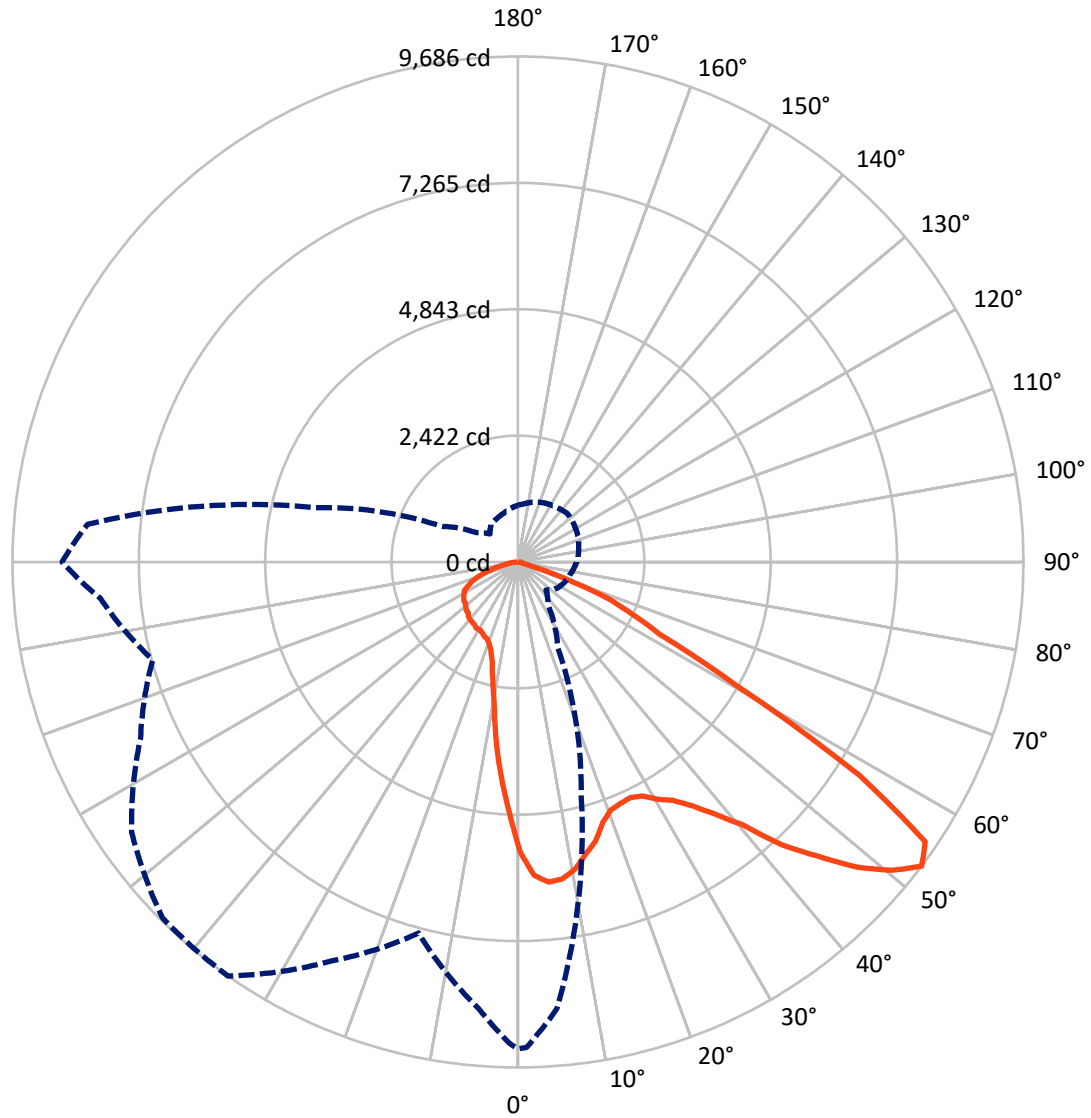
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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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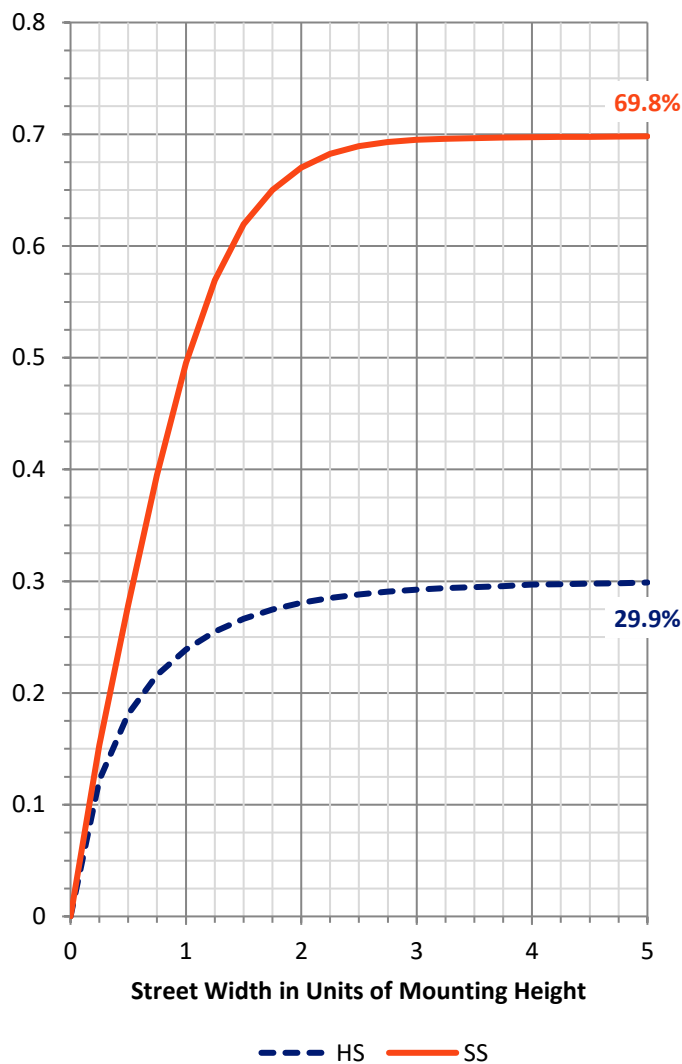
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3779.7	0.0	3779.7
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	8758.3	0.0	8758.3
	% Fixture	69.9	0.0	69.9
Total	Lumens	12538.0	0.0	12538.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	424.5	3.4
10°-20°	920.3	7.3
20°-30°	1390.5	11.1
30°-40°	2009.3	16.0
40°-50°	2674.0	21.3
50°-60°	2991.0	23.9
60°-70°	1685.7	13.4
70°-80°	375.8	3.0
80°-90°	66.9	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°	12538.0	100.0
0°-180°	12538.0	100.0



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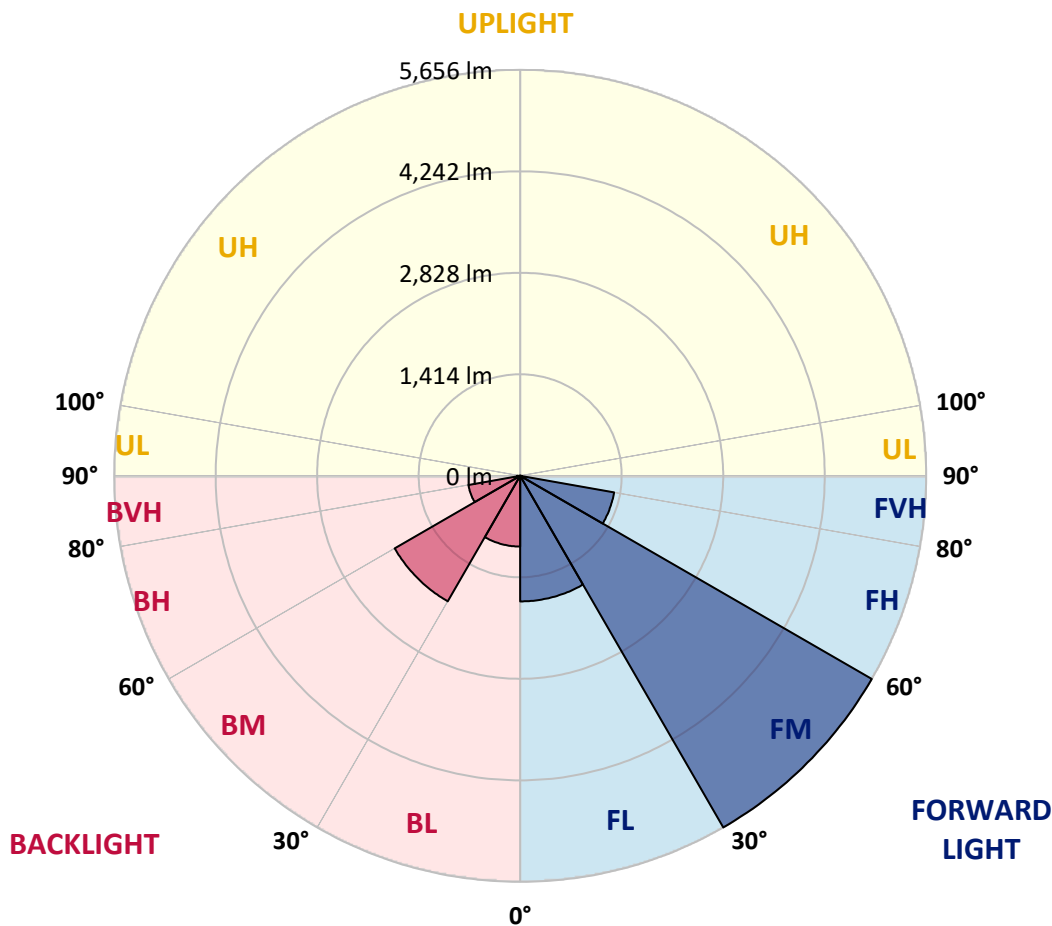
CATALOG NUMBER: GALN-SA5A-827-U-SLR-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1749.6	14.0			
FM (30°-60°)	5655.6	45.1			
FH (60°-80°)	1328.8	10.6			G1/1800
FVH (80°-90°)	24.2	0.2			G1/100
BL (0°-30°)	985.7	7.9	B2/1000		
BM (30°-60°)	2018.7	16.1	B2/2500		
BH (60°-80°)	732.6	5.8	B2/1000		G2/1000
BVH (80°-90°)	42.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5564.4	5564.4	5564.4	5564.4	5564.4	5564.4	5564.4	5564.4	5564.4	5564.4	5564.4
2.5°	5657.1	5748.0	5649.9	5475.4	5351.8	5239.2	5121.0	5097.4	4942.9	4915.7	4803.0
5°	5335.5	5315.5	5195.5	4966.6	4714.0	4485.0	4316.0	4152.4	4041.6	3912.6	3903.5
7.5°	4944.8	4828.5	4759.4	4412.3	4099.7	3739.9	3585.4	3336.5	3258.3	3142.0	3082.1
10°	4595.8	4510.4	4348.7	4001.6	3565.5	3327.4	3162.0	3027.6	2936.7	2816.7	2665.9
12.5°	4423.2	4388.7	4207.0	3669.0	3345.6	3091.2	2974.8	2844.0	2689.5	2496.9	2422.4
15°	4454.1	4337.8	4199.7	3605.4	3158.4	2913.1	2727.7	2564.1	2366.1	2182.5	2075.3
17.5°	4684.9	4595.8	4319.6	3645.4	3087.5	2733.2	2397.0	2155.3	1977.2	1811.8	1737.3
20°	5139.2	5010.2	4699.4	3696.3	2934.9	2482.4	2097.1	1799.1	1608.3	1521.0	1495.6
22.5°	5642.6	5566.3	5070.1	3810.8	2813.1	2249.8	1779.1	1481.1	1410.2	1386.6	1433.8
25°	6255.0	6056.9	5646.2	3998.0	2718.6	2051.7	1510.1	1344.8	1308.4	1332.0	1386.6
27.5°	6720.2	6667.5	6049.6	4174.2	2589.6	1813.6	1359.3	1250.3	1261.2	1284.8	1335.7
30°	7272.7	7005.5	6440.4	4296.0	2473.3	1650.1	1253.9	1224.8	1235.7	1275.7	1301.2
32.5°	7605.2	7505.3	6685.7	4479.5	2338.8	1508.3	1172.1	1144.9	1161.2	1221.2	1281.2
35°	8028.6	7830.6	6989.2	4526.8	2244.3	1452.0	1114.0	1094.0	1132.2	1173.9	1241.2
37.5°	8522.9	8386.6	7409.0	4494.1	2193.4	1393.8	1064.9	1055.8	1083.1	1141.2	1219.4
40°	8815.5	8773.7	7628.8	4514.1	2113.5	1343.0	1008.6	1019.5	1075.8	1121.2	1197.6
42.5°	9097.2	8824.6	7954.1	4506.8	2062.6	1273.9	1014.0	1001.3	1044.9	1097.6	1170.3
45°	9159.0	8888.2	8030.5	4455.9	2000.8	1206.7	972.2	977.7	1030.4	1095.8	1143.1
47.5°	9119.0	8919.1	8172.2	4441.4	1942.6	1159.4	910.4	975.9	1006.8	1059.5	1126.7
50°	9091.7	9080.8	8292.1	4510.4	1864.5	1084.9	835.9	952.2	983.1	1035.8	1108.5
52.5°	9331.6	9308.0	8592.0	4692.2	1802.7	1004.9	759.6	892.3	966.8	1017.7	1088.5
55°	9477.0	9373.4	9106.3	4915.7	1699.1	899.5	706.9	817.8	926.8	972.2	1044.9
57.5°	8524.8	8453.9	8237.6	4588.6	1524.7	761.4	641.5	741.4	872.3	943.2	1017.7
60°	7092.8	6981.9	6427.6	3899.8	1124.9	592.4	601.5	681.5	857.7	885.0	972.2
62.5°	6687.5	6413.1	5658.9	3138.4	863.2	508.8	539.7	627.0	781.4	826.9	914.1
65°	5306.4	5102.9	4048.8	2266.1	577.9	441.6	492.5	565.2	674.2	763.2	843.2
67.5°	3321.9	3127.5	2160.7	1072.2	403.4	378.0	439.8	516.1	605.1	685.1	774.2
70°	1735.5	1522.9	997.7	387.1	278.0	308.9	367.1	439.8	527.0	592.4	661.5
72.5°	646.9	525.2	325.3	167.2	192.6	236.2	298.0	350.7	412.5	492.5	530.6
75°	99.9	85.4	83.6	101.8	130.8	170.8	212.6	265.3	319.8	370.7	396.2
77.5°	47.2	45.4	50.9	67.2	87.2	121.8	154.5	205.4	249.0	281.7	296.2
80°	30.9	29.1	32.7	45.4	65.4	90.9	123.6	158.1	198.1	225.3	221.7
82.5°	18.2	20.0	20.0	30.9	45.4	65.4	89.0	119.9	147.2	170.8	156.3
85°	10.9	9.1	9.1	18.2	30.9	52.7	74.5	50.9	52.7	52.7	60.0
87.5°	3.6	3.6	3.6	1.8	3.6	3.6	5.5	9.1	10.9	12.7	16.4
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°	5564.4	5564.4	5564.4	5564.4	5564.4	5564.4	5564.4	5564.4	5564.4	5564.4	5564.4
2.5°	4799.4	4855.7	4835.7	4764.8	4819.4	4828.5	4792.1	4917.5	4941.1	4903.0	4913.9
5°	3890.7	3905.3	3938.0	4007.1	4056.1	4114.3	4114.3	4117.9	4068.8	4192.4	4156.1
7.5°	3031.2	3040.3	3078.4	3225.6	3267.4	3378.3	3425.5	3392.8	3294.7	3252.9	3287.4
10°	2616.9	2564.1	2551.4	2569.6	2664.1	2711.3	2751.3	2740.4	2724.1	2691.4	2655.0
12.5°	2340.6	2302.5	2271.6	2228.0	2233.4	2278.8	2309.7	2284.3	2291.6	2298.8	2309.7
15°	2040.8	2013.5	1997.2	1931.7	1924.5	1955.4	1966.3	1980.8	2008.1	2009.9	1997.2
17.5°	1722.8	1699.1	1735.5	1771.8	1746.4	1748.2	1768.2	1780.9	1773.6	1740.9	1724.6
20°	1504.7	1530.1	1566.5	1601.0	1628.3	1644.6	1651.9	1631.9	1608.3	1541.0	1539.2
22.5°	1441.1	1473.8	1504.7	1557.4	1582.8	1624.6	1586.5	1541.0	1508.3	1475.6	1437.5
25°	1393.8	1421.1	1482.9	1502.9	1551.9	1586.5	1559.2	1513.8	1457.4	1410.2	1381.1
27.5°	1359.3	1390.2	1430.2	1484.7	1522.9	1542.9	1515.6	1497.4	1439.3	1382.9	1341.1
30°	1337.5	1370.2	1442.9	1488.3	1521.0	1537.4	1490.2	1468.3	1426.5	1379.3	1343.0
32.5°	1323.0	1352.0	1413.8	1472.0	1493.8	1493.8	1501.1	1475.6	1417.5	1337.5	1306.6
35°	1275.7	1315.7	1366.6	1433.8	1473.8	1497.4	1461.1	1432.0	1393.8	1312.1	1255.7
37.5°	1248.5	1275.7	1341.1	1404.7	1439.3	1464.7	1450.2	1399.3	1348.4	1281.2	1235.7
40°	1219.4	1263.0	1321.1	1381.1	1419.3	1444.7	1433.8	1373.8	1312.1	1248.5	1217.6
42.5°	1199.4	1228.5	1288.4	1355.7	1401.1	1450.2	1417.5	1343.0	1299.3	1212.1	1177.6
45°	1183.0	1230.3	1293.9	1321.1	1368.4	1419.3	1361.1	1315.7	1264.8	1201.2	1172.1
47.5°	1163.0	1206.7	1248.5	1321.1	1343.0	1366.6	1355.7	1283.0	1239.4	1170.3	1150.3
50°	1155.8	1172.1	1248.5	1288.4	1319.3	1343.0	1313.9	1259.4	1217.6	1146.7	1103.1
52.5°	1126.7	1157.6	1206.7	1259.4	1297.5	1326.6	1279.3	1244.8	1188.5	1114.0	1086.7
55°	1090.4	1108.5	1195.8	1250.3	1270.3	1290.3	1272.1	1215.7	1157.6	1081.3	1054.0
57.5°	1043.1	1084.9	1155.8	1232.1	1257.5	1268.4	1239.4	1193.9	1121.2	1054.0	1010.4
60°	994.0	1037.7	1115.8	1177.6	1203.0	1243.0	1199.4	1172.1	1088.5	1014.0	966.8
62.5°	945.0	994.0	1052.2	1130.3	1152.1	1168.5	1157.6	1119.4	1052.2	968.6	910.4
65°	886.8	923.2	995.9	1035.8	1050.4	1088.5	1050.4	1035.8	975.9	895.9	846.8
67.5°	799.6	830.5	894.1	932.3	943.2	959.5	957.7	941.3	874.1	819.6	776.0
70°	699.6	726.9	766.9	812.3	817.8	837.8	819.6	815.9	772.3	697.8	674.2
72.5°	561.5	587.0	639.7	659.7	661.5	668.8	659.7	646.9	636.0	557.9	534.3
75°	430.7	445.2	470.7	488.8	488.8	497.9	492.5	479.8	450.7	401.6	378.0
77.5°	299.8	314.4	347.1	358.0	356.2	359.8	343.5	330.7	287.1	261.7	241.7
80°	218.1	227.2	243.5	250.8	252.6	258.1	238.1	227.2	201.7	172.6	163.6
82.5°	158.1	163.6	165.4	174.5	174.5	165.4	159.9	149.0	130.8	112.7	105.4
85°	65.4	67.2	69.1	80.0	81.8	98.1	90.9	85.4	74.5	63.6	58.2
87.5°	16.4	18.2	23.6	20.0	23.6	23.6	25.4	29.1	29.1	23.6	23.6
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°	5564.4	5564.4	5564.4	5564.4	5564.4	5564.4	5564.4	5564.4	5564.4	5564.4	5564.4
2.5°	4955.7	4970.2	5155.6	5179.2	5270.0	5362.7	5549.9	5684.4	5793.4	5864.3	5884.3
5°	4194.2	4286.9	4372.3	4510.4	4635.8	4813.9	5019.3	5273.7	5593.5	5757.1	5822.5
7.5°	3283.8	3392.8	3516.4	3650.9	3834.4	4154.2	4428.7	4723.1	5131.9	5300.9	5557.2
10°	2680.5	2802.2	2965.8	3069.3	3291.1	3596.4	3916.2	4256.0	4646.7	4890.2	5186.5
12.5°	2369.7	2469.7	2620.5	2838.6	3003.9	3202.0	3440.1	3868.9	4428.7	4659.4	4863.0
15°	2026.2	2137.1	2311.6	2553.2	2751.3	2987.6	3254.7	3721.7	4317.8	4674.0	4846.6
17.5°	1742.7	1822.7	2006.3	2215.2	2442.4	2700.4	3083.9	3714.5	4434.1	4890.2	5171.9
20°	1546.5	1557.4	1657.3	1835.4	2144.4	2480.6	2978.5	3678.1	4806.6	5262.8	5619.0
22.5°	1422.9	1412.0	1413.8	1564.7	1780.9	2264.3	2813.1	3801.7	5230.1	5855.2	6095.1
25°	1361.1	1332.0	1313.9	1346.6	1542.9	2008.1	2687.7	3965.3	5686.2	6344.0	6638.4
27.5°	1328.4	1277.5	1241.2	1246.6	1390.2	1879.0	2609.6	4036.1	6138.7	7025.5	7129.1
30°	1315.7	1252.1	1199.4	1181.2	1275.7	1699.1	2442.4	4157.9	6543.9	7399.9	7488.9
32.5°	1270.3	1192.1	1141.2	1124.9	1163.0	1541.0	2322.5	4245.1	6901.9	7806.9	7776.0
35°	1217.6	1152.1	1088.5	1057.6	1084.9	1439.3	2226.1	4203.3	7323.5	8123.1	8106.8
37.5°	1212.1	1126.7	1074.0	1023.1	1021.3	1313.9	2095.3	4243.3	7592.5	8690.1	8466.6
40°	1164.9	1110.3	1041.3	999.5	975.9	1250.3	1968.1	4148.8	7986.8	8919.1	8699.2
42.5°	1166.7	1084.9	1024.9	975.9	952.2	1157.6	1880.9	4123.4	8125.0	9291.6	8808.2
45°	1137.6	1057.6	1006.8	948.6	935.9	1086.7	1797.3	4005.2	8368.5	9309.8	8672.0
47.5°	1108.5	1037.7	983.1	914.1	885.0	1061.3	1731.8	3907.1	8241.3	9139.0	8483.0
50°	1088.5	1006.8	955.9	906.8	825.0	1017.7	1646.4	3883.5	8063.2	8908.2	8132.2
52.5°	1054.0	981.3	928.6	890.5	759.6	977.7	1613.7	4021.6	8281.2	8735.6	8030.5
55°	1021.3	946.8	879.6	805.0	705.1	872.3	1522.9	4150.6	8599.3	9133.5	8492.0
57.5°	986.8	915.9	843.2	754.2	652.4	763.2	1428.4	4174.2	8003.2	8441.2	8061.4
60°	941.3	850.5	796.0	679.7	596.1	632.4	1132.2	3679.9	6207.8	7049.1	7061.9
62.5°	890.5	792.3	745.1	608.8	537.9	545.2	923.2	3093.0	5035.6	5835.2	6182.3
65°	823.2	728.7	672.4	563.3	496.1	472.5	676.0	2266.1	3825.3	4734.0	5128.3
67.5°	736.0	646.9	576.1	490.7	443.4	405.2	461.6	1275.7	2258.9	3178.4	3298.3
70°	643.3	567.0	492.5	421.6	368.9	341.6	338.0	565.2	1079.5	1710.0	1946.3
72.5°	507.0	452.5	392.5	339.8	305.3	265.3	241.7	234.4	365.3	696.0	961.3
75°	363.5	318.0	283.5	249.0	223.5	201.7	183.5	167.2	152.6	174.5	239.9
77.5°	229.0	212.6	185.4	176.3	161.7	156.3	149.0	139.9	129.0	121.8	121.8
80°	154.5	143.6	134.5	132.7	127.2	125.4	127.2	118.1	107.2	98.1	101.8
82.5°	103.6	101.8	99.9	98.1	99.9	101.8	105.4	103.6	94.5	89.0	90.9
85°	61.8	65.4	69.1	72.7	80.0	70.9	58.2	49.1	43.6	40.0	38.2
87.5°	23.6	32.7	29.1	27.3	29.1	27.3	25.4	23.6	20.0	18.2	18.2
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°	5564.4	5564.4	5564.4	5564.4	5564.4	5564.4	5564.4	5564.4	5564.4	5564.4
2.5°	6016.9	6053.3	6084.2	6076.9	6013.3	5927.9	5893.4	5717.1	5680.7	5657.1
5°	6098.7	6309.5	6354.9	6327.7	6162.3	5953.3	5749.8	5491.8	5340.9	5335.5
7.5°	5947.9	6207.8	6289.5	6351.3	6131.4	5768.0	5419.1	5032.0	4937.5	4944.8
10°	5564.4	5978.8	6180.5	6244.1	5991.5	5677.1	5193.7	4801.2	4599.5	4595.8
12.5°	5351.8	5677.1	5733.4	5822.5	5748.0	5430.0	5062.9	4623.1	4426.8	4423.2
15°	5162.8	5377.3	5393.6	5519.0	5559.0	5344.6	5097.4	4628.6	4470.5	4454.1
17.5°	5328.2	5179.2	5117.4	5133.8	5251.9	5330.0	5297.3	4937.5	4775.8	4684.9
20°	5439.1	5106.5	4919.3	4937.5	5077.4	5362.7	5595.3	5384.5	5128.3	5139.2
22.5°	5735.3	5117.4	4824.8	4804.8	5026.5	5533.5	5931.5	5949.7	5702.6	5642.6
25°	6178.7	5242.8	4795.7	4790.3	5002.9	5717.1	6324.1	6618.5	6365.9	6255.0
27.5°	6534.9	5439.1	4886.6	4904.8	5077.4	5866.1	6658.4	7049.1	6856.5	6720.2
30°	6847.4	5642.6	5013.8	4930.2	5277.3	5944.2	6802.0	7539.8	7385.3	7272.7
32.5°	6976.5	5931.5	5215.5	5077.4	5442.7	6038.7	7100.0	8015.9	7883.3	7605.2
35°	7194.5	6093.3	5324.6	5313.7	5731.6	6265.9	7240.0	8330.3	8275.8	8028.6
37.5°	7369.0	6256.8	5711.6	5591.7	6127.8	6647.5	7465.3	8764.6	8639.2	8522.9
40°	7503.5	6549.4	6073.3	6231.4	6614.8	6994.6	7672.5	8791.9	9153.5	8815.5
42.5°	7379.9	6811.1	6667.5	7045.5	7409.0	7390.8	7696.1	9002.7	9273.5	9097.2
45°	7349.0	7254.5	7607.0	7950.5	8034.1	7719.7	7527.1	8770.1	9237.1	9159.0
47.5°	7274.5	7690.6	8304.9	8864.6	8737.4	7939.6	7325.4	8728.3	9258.9	9119.0
50°	7249.0	7785.1	8821.0	9366.1	9289.8	8130.4	7230.9	8459.3	9104.5	9091.7
52.5°	7247.2	7979.6	9035.4	9638.7	9686.0	8432.1	7359.9	8595.6	9224.4	9331.6
55°	7329.0	7917.8	9008.1	9487.9	9469.7	8297.6	7374.4	8686.5	9371.6	9477.0
57.5°	6912.8	7092.8	7434.4	7814.2	7716.1	6872.9	6585.7	8030.5	8601.1	8524.8
60°	5969.7	5406.3	5021.1	5002.9	4812.1	4548.6	5390.0	7167.3	7167.3	7092.8
62.5°	5228.2	3549.1	3049.4	2907.6	3043.9	3347.4	5199.2	6971.0	6772.9	6687.5
65°	4572.2	2709.5	2204.3	2164.4	2400.6	2858.5	4701.2	5938.8	5589.9	5306.4
67.5°	2942.1	1984.4	1639.2	1568.3	1853.6	2098.9	3129.3	3652.7	3432.8	3321.9
70°	1897.2	1292.1	912.3	855.9	966.8	1293.9	1999.0	2129.8	1810.0	1735.5
72.5°	897.7	557.9	319.8	263.5	296.2	494.3	790.5	850.5	706.9	646.9
75°	285.3	205.4	130.8	112.7	107.2	127.2	181.7	139.9	101.8	99.9
77.5°	127.2	121.8	103.6	87.2	76.3	63.6	52.7	43.6	45.4	47.2
80°	105.4	96.3	85.4	76.3	63.6	49.1	38.2	29.1	29.1	30.9
82.5°	92.7	83.6	74.5	63.6	54.5	40.0	29.1	20.0	18.2	18.2
85°	40.0	47.2	50.9	54.5	43.6	32.7	20.0	12.7	10.9	10.9
87.5°	16.4	14.5	12.7	10.9	9.1	9.1	7.3	5.5	3.6	3.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)