

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: P528576

Luminaire Tested: **GALN-SA3C-830-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528576
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-SA3C-830-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 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: 12421 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 160
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



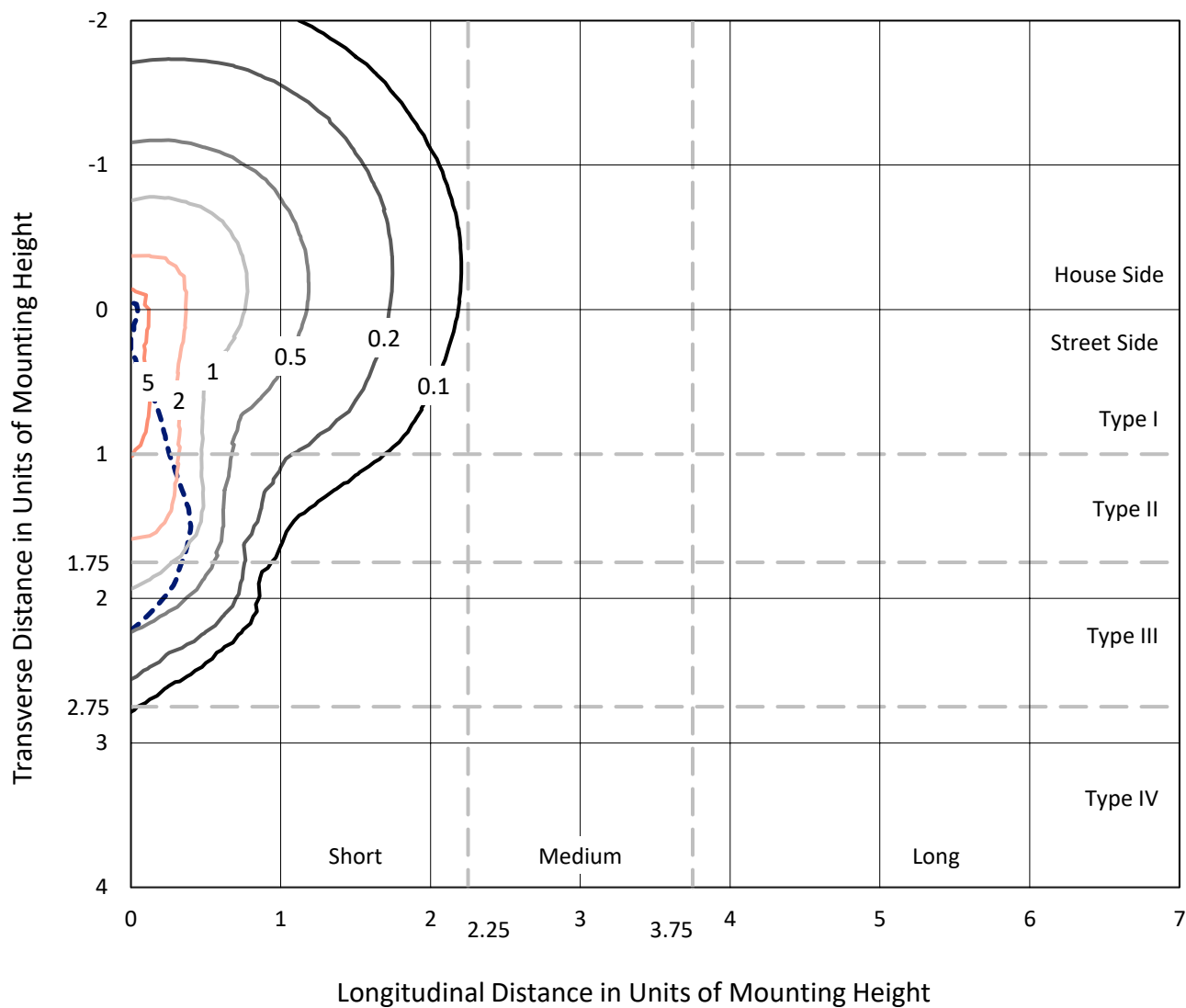
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

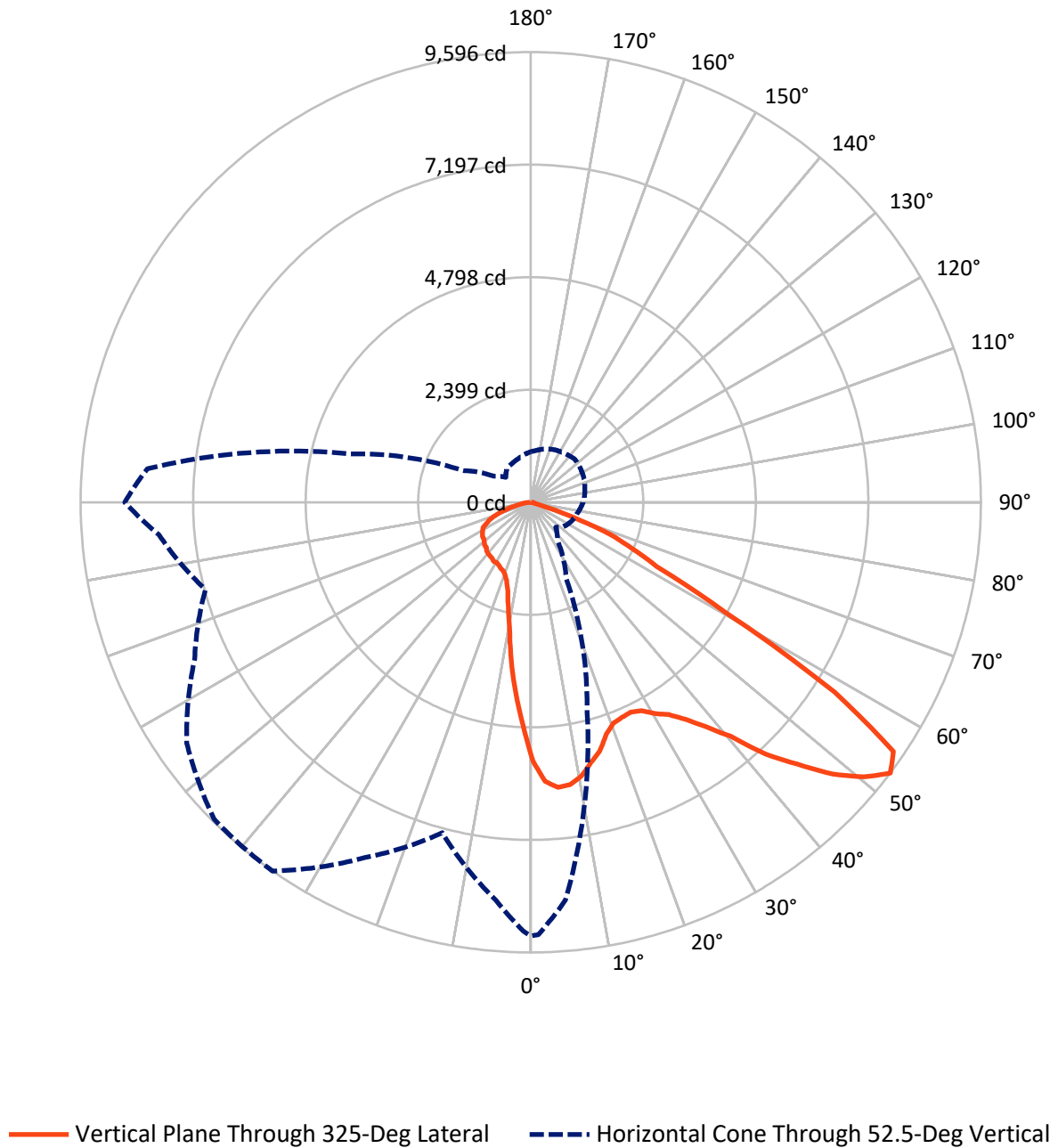


Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3744.4	0.0	3744.4
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	8676.6	0.0	8676.6
	% Fixture	69.9	0.0	69.9
Total	Lumens	12421.0	0.0	12421.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	420.6	3.4
10°-20°	911.7	7.3
20°-30°	1377.5	11.1
30°-40°	1990.6	16.0
40°-50°	2649.1	21.3
50°-60°	2963.1	23.9
60°-70°	1670.0	13.4
70°-80°	372.3	3.0
80°-90°	66.3	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°	12421.0	100.0
0°-180°	12421.0	100.0

Coefficient of Utilization



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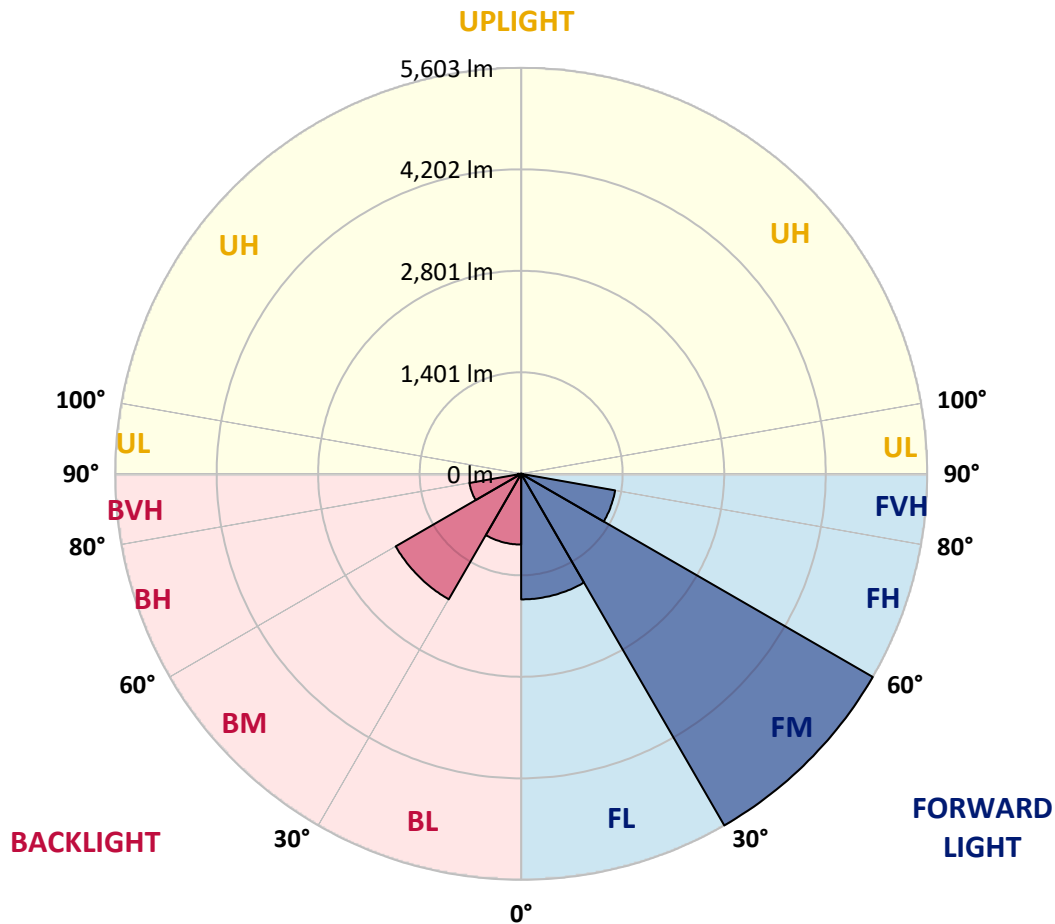
CATALOG NUMBER: GALN-SA3C-830-U-SLR-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1733.3	14.0			
FM	(30°-60°)	5602.8	45.1			
FH	(60°-80°)	1316.4	10.6			G1/1800
FVH	(80°-90°)	24.0	0.2			G1/100
BL	(0°-30°)	976.5	7.9	B2/1000		
BM	(30°-60°)	1999.9	16.1	B2/2500		
BH	(60°-80°)	725.8	5.8	B2/1000		G2/1000
BVH	(80°-90°)	42.3	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	5512.5	5512.5	5512.5	5512.5	5512.5	5512.5	5512.5	5512.5	5512.5	5512.5	5512.5
2.5°	5604.3	5694.3	5597.1	5424.3	5301.9	5190.3	5073.2	5049.8	4896.8	4869.8	4758.2
5°	5285.7	5265.9	5147.1	4920.2	4670.0	4443.1	4275.7	4113.7	4003.9	3876.0	3867.0
7.5°	4898.6	4783.4	4715.0	4371.1	4061.5	3705.0	3552.0	3305.3	3227.9	3112.7	3053.3
10°	4553.0	4468.3	4308.1	3964.3	3532.2	3296.3	3132.5	2999.3	2909.3	2790.5	2641.0
12.5°	4381.9	4347.7	4167.7	3634.8	3314.4	3062.3	2947.1	2817.5	2664.4	2473.6	2399.8
15°	4412.5	4297.3	4160.5	3571.8	3128.9	2885.9	2702.2	2540.2	2344.0	2162.2	2055.9
17.5°	4641.2	4553.0	4279.3	3611.4	3058.7	2707.6	2374.6	2135.2	1958.7	1794.9	1721.1
20°	5091.2	4963.4	4655.6	3661.8	2907.5	2459.2	2077.5	1782.3	1593.3	1506.9	1481.6
22.5°	5589.9	5514.3	5022.8	3775.2	2786.9	2228.8	1762.5	1467.2	1397.0	1373.6	1420.4
25°	6196.6	6000.4	5593.5	3960.7	2693.2	2032.5	1496.0	1332.2	1296.2	1319.6	1373.6
27.5°	6657.5	6605.3	5993.2	4135.3	2565.4	1796.7	1346.6	1238.6	1249.4	1272.8	1323.2
30°	7204.8	6940.2	6380.3	4255.9	2450.2	1634.7	1242.2	1213.4	1224.2	1263.8	1289.0
32.5°	7534.3	7435.2	6623.3	4437.7	2317.0	1494.2	1161.2	1134.2	1150.4	1209.8	1269.2
35°	7953.7	7757.5	6924.0	4484.5	2223.4	1438.4	1103.6	1083.8	1121.6	1163.0	1229.6
37.5°	8443.4	8308.4	7339.8	4452.1	2173.0	1380.8	1055.0	1046.0	1073.0	1130.6	1208.0
40°	8733.3	8691.8	7557.7	4471.9	2093.7	1330.4	999.2	1010.0	1065.8	1110.8	1186.4
42.5°	9012.3	8742.3	7879.9	4464.7	2043.3	1262.0	1004.6	992.0	1035.2	1087.4	1159.4
45°	9073.5	8805.3	7955.5	4414.3	1982.1	1195.4	963.2	968.6	1020.8	1085.6	1132.4
47.5°	9033.9	8835.9	8095.9	4399.9	1924.5	1148.6	901.9	966.8	997.4	1049.6	1116.2
50°	9006.9	8996.1	8214.8	4468.3	1847.1	1074.8	828.1	943.4	974.0	1026.2	1098.2
52.5°	9244.5	9221.1	8511.8	4648.4	1785.9	995.6	752.5	883.9	957.8	1008.2	1078.4
55°	9388.6	9285.9	9021.3	4869.8	1683.3	891.1	700.3	810.1	918.2	963.2	1035.2
57.5°	8445.2	8375.0	8160.8	4545.8	1510.5	754.3	635.5	734.5	864.1	934.4	1008.2
60°	7026.6	6916.7	6367.7	3863.4	1114.4	586.9	595.9	675.1	849.7	876.7	963.2
62.5°	6625.1	6353.3	5606.1	3109.1	855.1	504.1	534.7	621.1	774.1	819.1	905.6
65°	5256.9	5055.2	4011.1	2245.0	572.5	437.5	487.9	559.9	667.9	756.1	835.3
67.5°	3290.9	3098.3	2140.6	1062.2	399.7	374.5	435.7	511.3	599.5	678.7	766.9
70°	1719.3	1508.7	988.4	383.5	275.4	306.1	363.7	435.7	522.1	586.9	655.3
72.5°	640.9	520.3	322.3	165.6	190.8	234.0	295.2	347.5	408.7	487.9	525.7
75°	99.0	84.6	82.8	100.8	129.6	169.2	210.6	262.8	316.9	367.3	392.5
77.5°	46.8	45.0	50.4	66.6	86.4	120.6	153.0	203.4	246.6	279.0	293.4
80°	30.6	28.8	32.4	45.0	64.8	90.0	122.4	156.6	196.2	223.2	219.6
82.5°	18.0	19.8	19.8	30.6	45.0	64.8	88.2	118.8	145.8	169.2	154.8
85°	10.8	9.0	9.0	18.0	30.6	52.2	73.8	50.4	52.2	52.2	59.4
87.5°	3.6	3.6	3.6	1.8	3.6	3.6	5.4	9.0	10.8	12.6	16.2
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5512.5	5512.5	5512.5	5512.5	5512.5	5512.5	5512.5	5512.5	5512.5	5512.5	5512.5
2.5°	4754.6	4810.4	4790.6	4720.4	4774.4	4783.4	4747.4	4871.6	4895.0	4857.2	4868.0
5°	3854.4	3868.8	3901.2	3969.7	4018.3	4075.9	4075.9	4079.5	4030.9	4153.3	4117.3
7.5°	3002.9	3011.9	3049.7	3195.5	3236.9	3346.8	3393.6	3361.2	3263.9	3222.5	3256.7
10°	2592.4	2540.2	2527.6	2545.6	2639.2	2686.0	2725.7	2714.9	2698.6	2666.2	2630.2
12.5°	2318.8	2281.0	2250.4	2207.2	2212.6	2257.6	2288.2	2263.0	2270.2	2277.4	2288.2
15°	2021.7	1994.7	1978.5	1913.7	1906.5	1937.1	1947.9	1962.3	1989.3	1991.1	1978.5
17.5°	1706.7	1683.3	1719.3	1755.3	1730.1	1731.9	1751.7	1764.3	1757.1	1724.7	1708.5
20°	1490.6	1515.9	1551.9	1586.1	1613.1	1629.3	1636.5	1616.7	1593.3	1526.7	1524.9
22.5°	1427.6	1460.0	1490.6	1542.9	1568.1	1609.5	1571.7	1526.7	1494.2	1461.8	1424.0
25°	1380.8	1407.8	1469.0	1488.8	1537.5	1571.7	1544.7	1499.6	1443.8	1397.0	1368.2
27.5°	1346.6	1377.2	1416.8	1470.8	1508.7	1528.5	1501.4	1483.4	1425.8	1370.0	1328.6
30°	1325.0	1357.4	1429.4	1474.4	1506.9	1523.1	1476.2	1454.6	1413.2	1366.4	1330.4
32.5°	1310.6	1339.4	1400.6	1458.2	1479.8	1479.8	1487.0	1461.8	1404.2	1325.0	1294.4
35°	1263.8	1303.4	1353.8	1420.4	1460.0	1483.4	1447.4	1418.6	1380.8	1299.8	1244.0
37.5°	1236.8	1263.8	1328.6	1391.6	1425.8	1451.0	1436.6	1386.2	1335.8	1269.2	1224.2
40°	1208.0	1251.2	1308.8	1368.2	1406.0	1431.2	1420.4	1361.0	1299.8	1236.8	1206.2
42.5°	1188.2	1217.0	1276.4	1343.0	1388.0	1436.6	1404.2	1330.4	1287.2	1200.8	1166.6
45°	1172.0	1218.8	1281.8	1308.8	1355.6	1406.0	1348.4	1303.4	1253.0	1190.0	1161.2
47.5°	1152.2	1195.4	1236.8	1308.8	1330.4	1353.8	1343.0	1271.0	1227.8	1159.4	1139.6
50°	1145.0	1161.2	1236.8	1276.4	1307.0	1330.4	1301.6	1247.6	1206.2	1136.0	1092.8
52.5°	1116.2	1146.8	1195.4	1247.6	1285.4	1314.2	1267.4	1233.2	1177.4	1103.6	1076.6
55°	1080.2	1098.2	1184.6	1238.6	1258.4	1278.2	1260.2	1204.4	1146.8	1071.2	1044.2
57.5°	1033.4	1074.8	1145.0	1220.6	1245.8	1256.6	1227.8	1182.8	1110.8	1044.2	1001.0
60°	984.8	1028.0	1105.4	1166.6	1191.8	1231.4	1188.2	1161.2	1078.4	1004.6	957.8
62.5°	936.2	984.8	1042.4	1119.8	1141.4	1157.6	1146.8	1109.0	1042.4	959.6	901.9
65°	878.5	914.6	986.6	1026.2	1040.6	1078.4	1040.6	1026.2	966.8	887.5	838.9
67.5°	792.1	822.7	885.7	923.6	934.4	950.6	948.8	932.6	865.9	811.9	768.7
70°	693.1	720.1	759.7	804.7	810.1	829.9	811.9	808.3	765.1	691.3	667.9
72.5°	556.3	581.5	633.7	653.5	655.3	662.5	653.5	640.9	630.1	552.7	529.3
75°	426.7	441.1	466.3	484.3	484.3	493.3	487.9	475.3	446.5	397.9	374.5
77.5°	297.0	311.5	343.9	354.7	352.9	356.5	340.3	327.7	284.4	259.2	239.4
80°	216.0	225.0	241.2	248.4	250.2	255.6	235.8	225.0	199.8	171.0	162.0
82.5°	156.6	162.0	163.8	172.8	172.8	163.8	158.4	147.6	129.6	111.6	104.4
85°	64.8	66.6	68.4	79.2	81.0	97.2	90.0	84.6	73.8	63.0	57.6
87.5°	16.2	18.0	23.4	19.8	23.4	23.4	25.2	28.8	28.8	23.4	23.4
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°	5512.5	5512.5	5512.5	5512.5	5512.5	5512.5	5512.5	5512.5	5512.5	5512.5	5512.5
2.5°	4909.4	4923.8	5107.4	5130.9	5220.9	5312.7	5498.1	5631.3	5739.4	5809.6	5829.4
5°	4155.1	4246.9	4331.5	4468.3	4592.6	4769.0	4972.4	5224.5	5541.3	5703.3	5768.2
7.5°	3253.1	3361.2	3483.6	3616.8	3798.6	4115.5	4387.3	4679.0	5084.0	5251.5	5505.3
10°	2655.4	2776.1	2938.1	3040.7	3260.3	3562.8	3879.6	4216.3	4603.4	4844.6	5138.1
12.5°	2347.6	2446.6	2596.0	2812.1	2975.9	3172.1	3408.0	3832.8	4387.3	4616.0	4817.6
15°	2007.3	2117.2	2290.0	2529.4	2725.7	2959.7	3224.3	3687.0	4277.5	4630.4	4801.4
17.5°	1726.5	1805.7	1987.5	2194.6	2419.6	2675.2	3055.1	3679.8	4392.7	4844.6	5123.7
20°	1532.1	1542.9	1641.9	1818.3	2124.4	2457.4	2950.7	3643.8	4761.8	5213.7	5566.5
22.5°	1409.6	1398.8	1400.6	1550.1	1764.3	2243.2	2786.9	3766.2	5181.3	5800.6	6038.2
25°	1348.4	1319.6	1301.6	1334.0	1528.5	1989.3	2662.6	3928.3	5633.1	6284.8	6576.5
27.5°	1316.0	1265.6	1229.6	1235.0	1377.2	1861.5	2585.2	3998.5	6081.4	6960.0	7062.6
30°	1303.4	1240.4	1188.2	1170.2	1263.8	1683.3	2419.6	4119.1	6482.9	7330.8	7419.0
32.5°	1258.4	1181.0	1130.6	1114.4	1152.2	1526.7	2300.8	4205.5	6837.5	7734.1	7703.5
35°	1206.2	1141.4	1078.4	1047.8	1074.8	1425.8	2205.4	4164.1	7255.2	8047.3	8031.1
37.5°	1200.8	1116.2	1064.0	1013.6	1011.8	1301.6	2075.7	4203.7	7521.7	8609.0	8387.6
40°	1154.0	1100.0	1031.6	990.2	966.8	1238.6	1949.7	4110.1	7912.3	8835.9	8618.0
42.5°	1155.8	1074.8	1015.4	966.8	943.4	1146.8	1863.3	4084.9	8049.1	9204.9	8726.1
45°	1127.0	1047.8	997.4	939.8	927.2	1076.6	1780.5	3967.9	8290.4	9222.9	8591.0
47.5°	1098.2	1028.0	974.0	905.6	876.7	1051.4	1715.7	3870.6	8164.4	9053.7	8403.8
50°	1078.4	997.4	947.0	898.3	817.3	1008.2	1631.1	3847.2	7987.9	8825.1	8056.3
52.5°	1044.2	972.2	920.0	882.1	752.5	968.6	1598.7	3984.1	8204.0	8654.0	7955.5
55°	1011.8	938.0	871.3	797.5	698.5	864.1	1508.7	4111.9	8519.0	9048.3	8412.8
57.5°	977.6	907.4	835.3	747.1	646.3	756.1	1415.0	4135.3	7928.5	8362.4	7986.1
60°	932.6	842.5	788.5	673.3	590.5	626.5	1121.6	3645.6	6149.8	6983.4	6996.0
62.5°	882.1	784.9	738.1	603.1	532.9	540.1	914.6	3064.1	4988.6	5780.8	6124.6
65°	815.5	721.9	666.1	558.1	491.5	468.1	669.7	2245.0	3789.6	4689.8	5080.4
67.5°	729.1	640.9	570.7	486.1	439.3	401.5	457.3	1263.8	2237.8	3148.7	3267.5
70°	637.3	561.7	487.9	417.7	365.5	338.5	334.9	559.9	1069.4	1694.1	1928.1
72.5°	502.3	448.3	388.9	336.7	302.5	262.8	239.4	232.2	361.9	689.5	952.4
75°	360.1	315.1	280.8	246.6	221.4	199.8	181.8	165.6	151.2	172.8	237.6
77.5°	226.8	210.6	183.6	174.6	160.2	154.8	147.6	138.6	127.8	120.6	120.6
80°	153.0	142.2	133.2	131.4	126.0	124.2	126.0	117.0	106.2	97.2	100.8
82.5°	102.6	100.8	99.0	97.2	99.0	100.8	104.4	102.6	93.6	88.2	90.0
85°	61.2	64.8	68.4	72.0	79.2	70.2	57.6	48.6	43.2	39.6	37.8
87.5°	23.4	32.4	28.8	27.0	28.8	27.0	25.2	23.4	19.8	18.0	18.0
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5512.5	5512.5	5512.5	5512.5	5512.5	5512.5	5512.5	5512.5	5512.5	5512.5
2.5°	5960.8	5996.8	6027.4	6020.2	5957.2	5872.6	5838.4	5663.7	5627.7	5604.3
5°	6041.8	6250.6	6295.6	6268.6	6104.8	5897.8	5696.1	5440.5	5291.1	5285.7
7.5°	5892.4	6149.8	6230.8	6292.0	6074.2	5714.1	5368.5	4985.0	4891.4	4898.6
10°	5512.5	5923.0	6122.8	6185.8	5935.6	5624.1	5145.3	4756.4	4556.6	4553.0
12.5°	5301.9	5624.1	5679.9	5768.2	5694.3	5379.3	5015.6	4580.0	4385.5	4381.9
15°	5114.7	5327.1	5343.3	5467.5	5507.1	5294.7	5049.8	4585.4	4428.7	4412.5
17.5°	5278.5	5130.9	5069.6	5085.8	5202.9	5280.3	5247.9	4891.4	4731.2	4641.2
20°	5388.3	5058.8	4873.4	4891.4	5030.0	5312.7	5543.1	5334.3	5080.4	5091.2
22.5°	5681.7	5069.6	4779.8	4760.0	4979.6	5481.9	5876.2	5894.2	5649.3	5589.9
25°	6121.0	5193.9	4751.0	4745.6	4956.2	5663.7	6265.0	6556.7	6306.4	6196.6
27.5°	6473.9	5388.3	4841.0	4859.0	5030.0	5811.4	6596.3	6983.4	6792.5	6657.5
30°	6783.5	5589.9	4967.0	4884.2	5228.1	5888.8	6738.5	7469.4	7316.4	7204.8
32.5°	6911.3	5876.2	5166.9	5030.0	5391.9	5982.4	7033.8	7941.1	7809.7	7534.3
35°	7127.4	6036.4	5274.9	5264.1	5678.1	6207.4	7172.4	8252.6	8198.6	7953.7
37.5°	7300.2	6198.4	5658.3	5539.5	6070.6	6585.5	7395.6	8682.8	8558.6	8443.4
40°	7433.4	6488.3	6016.6	6173.2	6553.1	6929.4	7600.9	8709.8	9068.1	8733.3
42.5°	7311.0	6747.5	6605.3	6979.8	7339.8	7321.8	7624.3	8918.7	9186.9	9012.3
45°	7280.4	7186.8	7536.1	7876.3	7959.1	7647.7	7456.8	8688.2	9150.9	9073.5
47.5°	7206.6	7618.9	8227.4	8781.9	8655.8	7865.5	7257.0	8646.8	9172.5	9033.9
50°	7181.4	7712.5	8738.7	9278.7	9203.1	8054.5	7163.4	8380.4	9019.5	9006.9
52.5°	7179.6	7905.1	8951.1	9548.8	9595.6	8353.4	7291.2	8515.4	9138.3	9244.5
55°	7260.6	7843.9	8924.1	9399.4	9381.4	8220.2	7305.6	8605.4	9284.1	9388.6
57.5°	6848.3	7026.6	7365.0	7741.3	7644.1	6808.7	6524.3	7955.5	8520.8	8445.2
60°	5914.0	5355.9	4974.2	4956.2	4767.2	4506.1	5339.7	7100.4	7100.4	7026.6
62.5°	5179.5	3516.0	3020.9	2880.5	3015.5	3316.2	5150.7	6905.9	6709.7	6625.1
65°	4529.6	2684.2	2183.8	2144.2	2378.2	2831.9	4657.4	5883.4	5537.7	5256.9
67.5°	2914.7	1965.9	1623.9	1553.7	1836.3	2079.3	3100.1	3618.6	3400.8	3290.9
70°	1879.5	1280.0	903.8	847.9	957.8	1281.8	1980.3	2110.0	1793.1	1719.3
72.5°	889.3	552.7	316.9	261.0	293.4	489.7	783.1	842.5	700.3	640.9
75°	282.6	203.4	129.6	111.6	106.2	126.0	180.0	138.6	100.8	99.0
77.5°	126.0	120.6	102.6	86.4	75.6	63.0	52.2	43.2	45.0	46.8
80°	104.4	95.4	84.6	75.6	63.0	48.6	37.8	28.8	28.8	30.6
82.5°	91.8	82.8	73.8	63.0	54.0	39.6	28.8	19.8	18.0	18.0
85°	39.6	46.8	50.4	54.0	43.2	32.4	19.8	12.6	10.8	10.8
87.5°	16.2	14.4	12.6	10.8	9.0	9.0	7.2	5.4	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)