

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: P651904

Luminaire Tested: **GALN-SA5A-840-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651904
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-840-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 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: 14344.1 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

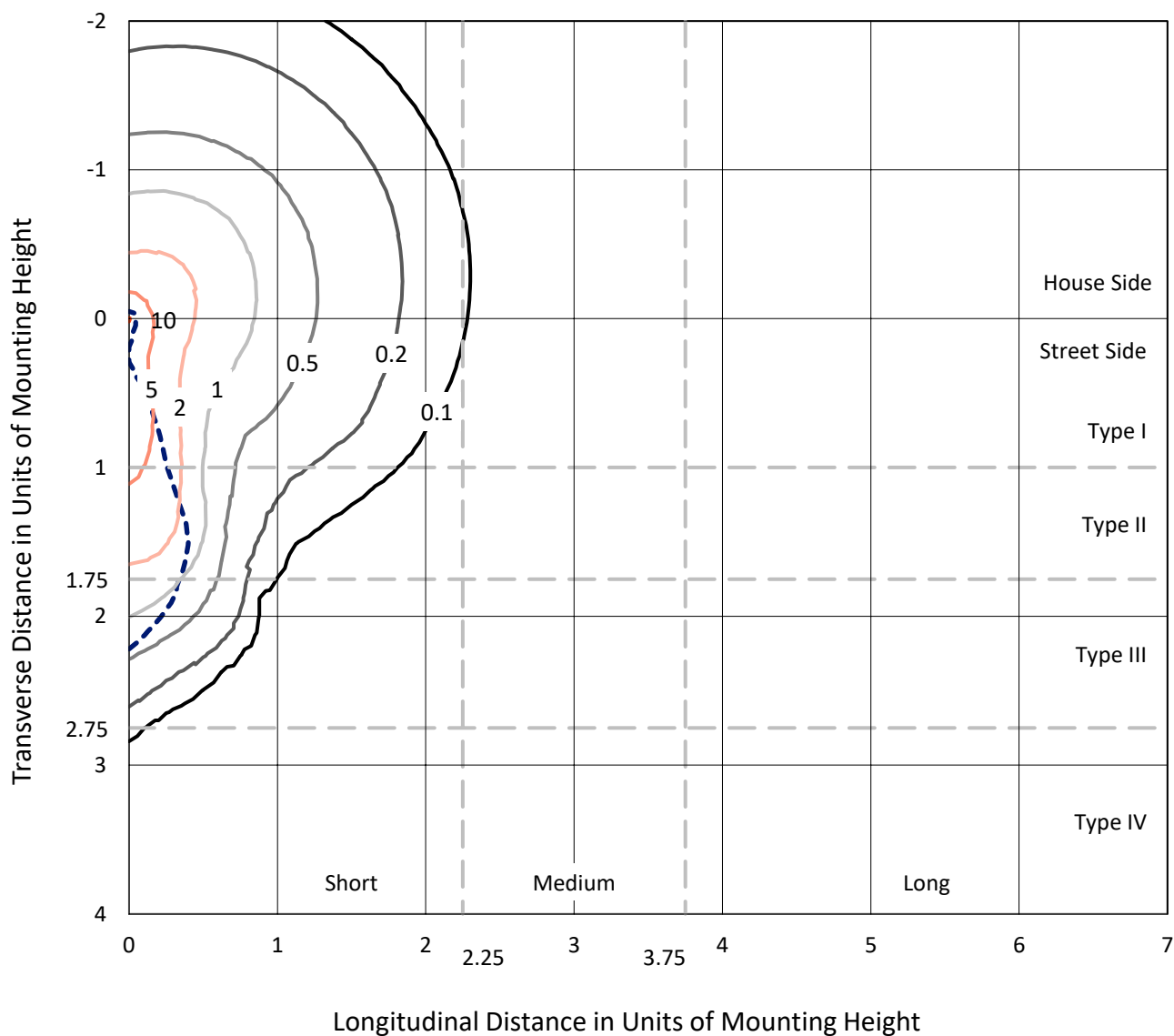
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

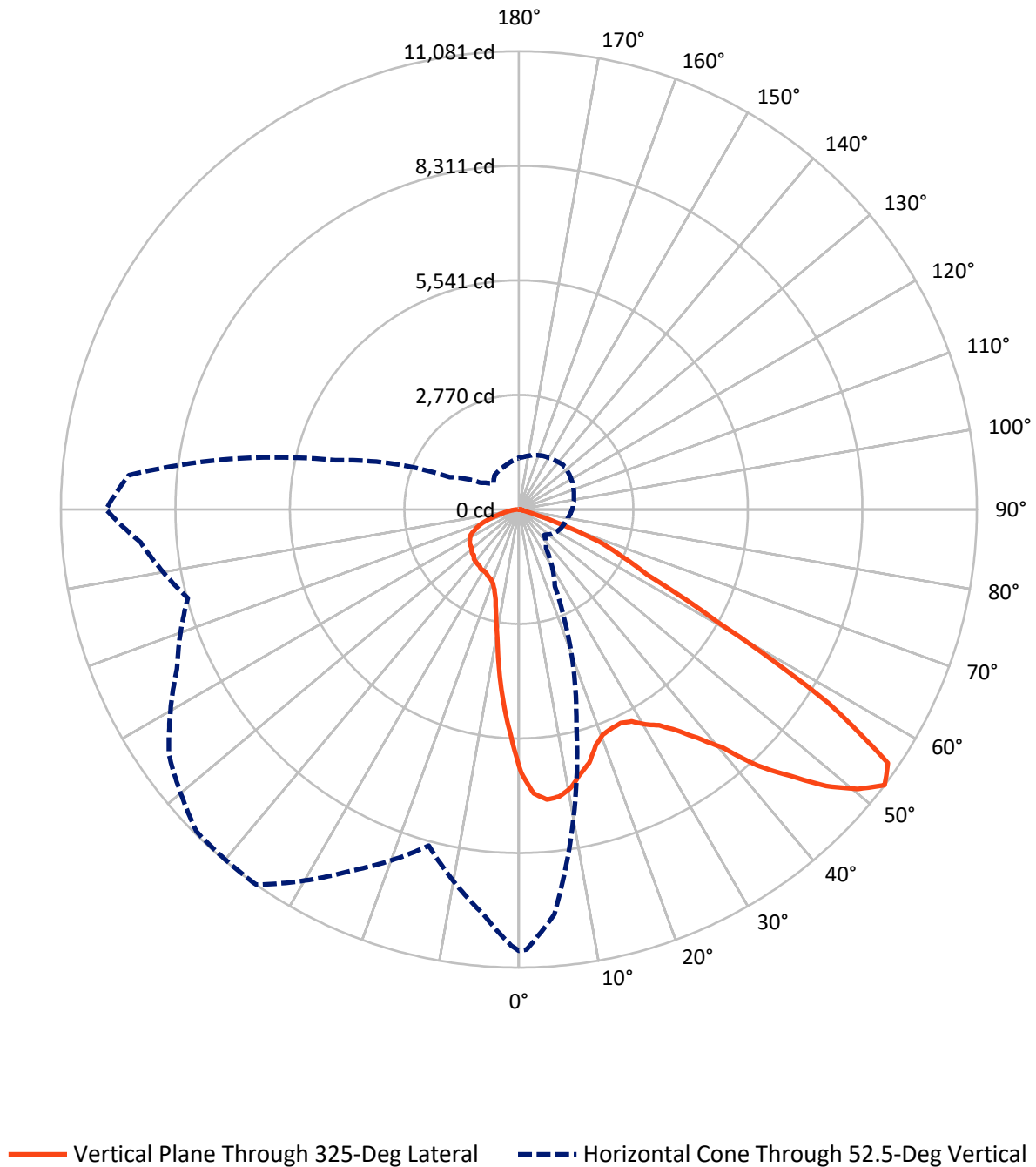
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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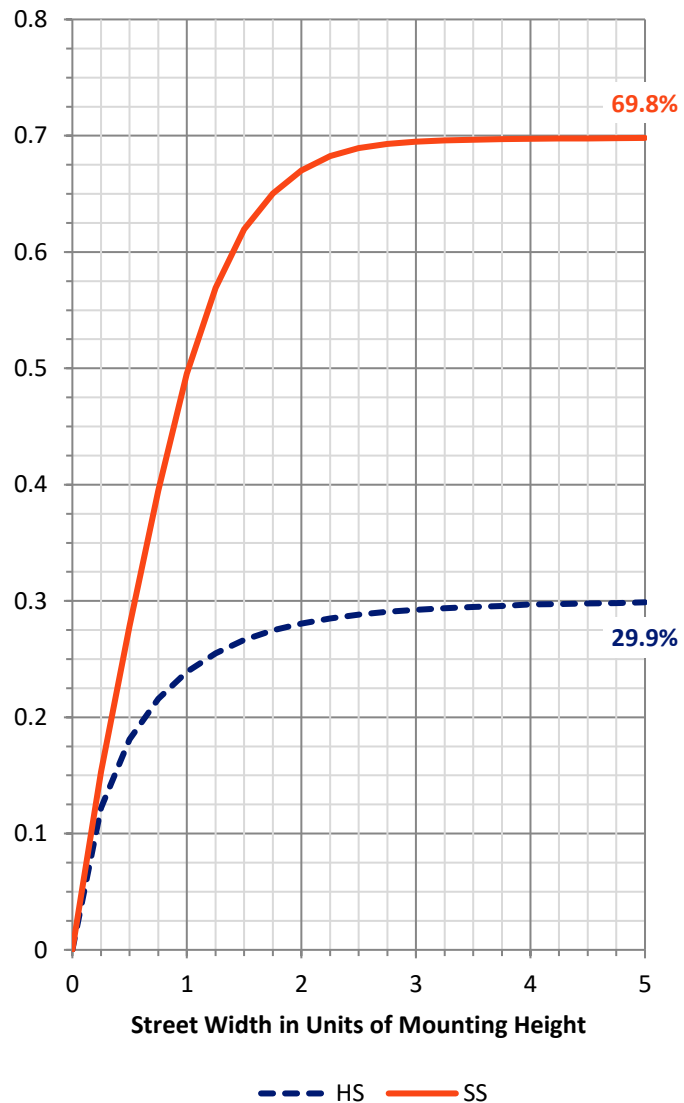
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4324.1	0.0	4324.1
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	10019.9	0.0	10019.9
	% Fixture	69.9	0.0	69.9
Total	Lumens	14344.1	0.0	14344.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	485.7	3.4
10°-20°	1052.9	7.3
20°-30°	1590.8	11.1
30°-40°	2298.8	16.0
40°-50°	3059.2	21.3
50°-60°	3421.8	23.9
60°-70°	1928.5	13.4
70°-80°	429.9	3.0
80°-90°	76.5	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°	14344.1	100.0
0°-180°	14344.1	100.0

Coefficient of Utilization



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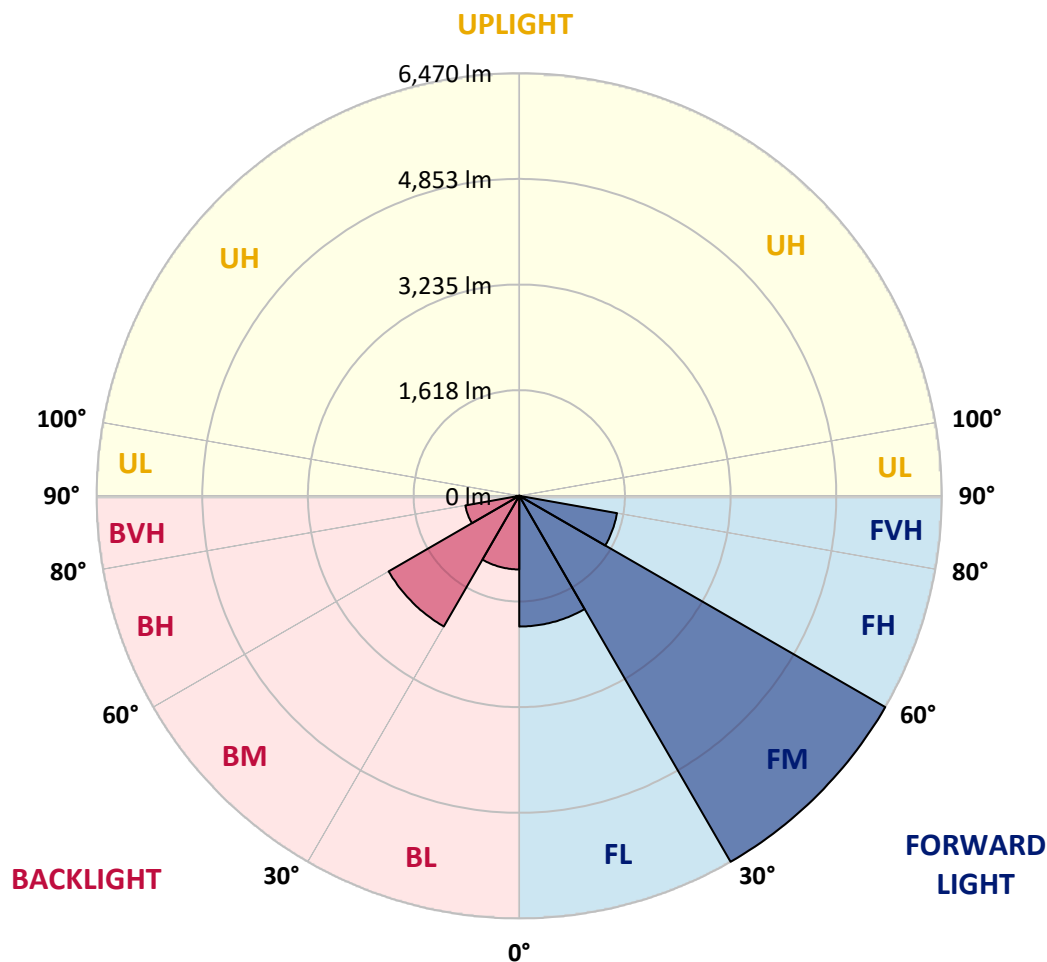
CATALOG NUMBER: GALN-SA5A-840-U-SLR-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2001.7	14.0			
FM	(30°-60°)	6470.3	45.1			
FH	(60°-80°)	1520.3	10.6			G1/1800
FVH	(80°-90°)	27.7	0.2			G1/100
BL	(0°-30°)	1127.6	7.9	B3/2500		
BM	(30°-60°)	2309.5	16.1	B2/2500		
BH	(60°-80°)	838.2	5.8	B2/1000		G2/1000
BVH	(80°-90°)	48.8	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°	6366.0	6366.0	6366.0	6366.0	6366.0	6366.0	6366.0	6366.0	6366.0	6366.0	6366.0
2.5°	6472.0	6575.9	6463.7	6264.1	6122.7	5993.9	5858.7	5831.7	5655.0	5623.8	5494.8
5°	6104.1	6081.2	5943.9	5682.0	5393.0	5131.0	4937.7	4750.6	4623.7	4476.1	4465.8
7.5°	5657.1	5524.0	5445.0	5047.9	4690.3	4278.7	4101.9	3817.1	3727.7	3594.7	3526.1
10°	5257.8	5160.1	4975.1	4578.1	4079.1	3806.7	3617.5	3463.7	3359.7	3222.5	3050.0
12.5°	5060.4	5020.9	4813.0	4197.6	3827.5	3536.4	3403.4	3253.7	3077.0	2856.6	2771.3
15°	5095.7	4962.7	4804.6	4124.8	3613.4	3332.7	3120.6	2933.5	2706.9	2496.9	2374.2
17.5°	5359.8	5257.8	4941.9	4170.5	3532.3	3126.8	2742.2	2465.7	2262.0	2072.8	1987.5
20°	5879.5	5731.9	5376.3	4228.7	3357.6	2840.0	2399.2	2058.3	1839.9	1740.1	1711.0
22.5°	6455.4	6368.1	5800.5	4359.7	3218.3	2573.9	2035.4	1694.4	1613.3	1586.3	1640.4
25°	7156.1	6929.4	6459.6	4573.9	3110.3	2347.2	1727.7	1538.5	1496.9	1523.9	1586.3
27.5°	7688.3	7628.0	6921.1	4775.5	2962.6	2074.9	1555.1	1430.4	1442.8	1469.9	1528.1
30°	8320.3	8014.6	7368.1	4914.8	2829.5	1887.8	1434.5	1401.3	1413.7	1459.5	1488.6
32.5°	8700.7	8586.4	7648.7	5124.8	2675.7	1725.6	1341.0	1309.8	1328.5	1397.1	1465.7
35°	9185.1	8958.6	7996.0	5178.9	2567.6	1661.1	1274.5	1251.6	1295.2	1343.1	1419.9
37.5°	9750.6	9594.7	8476.2	5141.5	2509.4	1594.6	1218.3	1207.9	1239.1	1305.7	1395.1
40°	10085.4	10037.6	8727.8	5164.3	2417.9	1536.4	1153.9	1166.3	1230.8	1282.8	1370.1
42.5°	10407.6	10095.8	9100.0	5156.0	2359.7	1457.4	1160.1	1145.5	1195.5	1255.7	1338.9
45°	10478.4	10168.5	9187.3	5097.8	2289.0	1380.5	1112.3	1118.5	1178.8	1253.7	1307.7
47.5°	10432.6	10203.9	9349.4	5081.2	2222.5	1326.4	1041.6	1116.4	1151.7	1212.0	1289.0
50°	10401.4	10389.0	9486.6	5160.1	2133.1	1241.1	956.4	1089.4	1124.8	1185.1	1268.2
52.5°	10675.8	10648.8	9829.7	5368.1	2062.4	1149.7	869.0	1020.8	1106.1	1164.3	1245.4
55°	10842.2	10723.7	10418.1	5623.8	1943.9	1029.1	808.7	935.5	1060.3	1112.3	1195.5
57.5°	9752.7	9671.7	9424.2	5249.5	1744.3	871.1	733.9	848.2	997.9	1079.0	1164.3
60°	8114.5	7987.6	7353.5	4461.6	1286.9	677.8	688.2	779.6	981.3	1012.5	1112.3
62.5°	7650.8	7336.9	6474.1	3590.5	987.5	582.1	617.5	717.3	894.0	946.0	1045.8
65°	6070.8	5837.9	4632.1	2592.6	661.1	505.2	563.4	646.6	771.3	873.2	964.7
67.5°	3800.5	3578.0	2472.0	1226.6	461.5	432.4	503.1	590.5	692.3	783.8	885.7
70°	1985.5	1742.2	1141.4	442.9	318.1	353.5	420.0	503.1	602.9	677.8	756.7
72.5°	740.2	600.8	372.1	191.2	220.3	270.3	340.9	401.2	472.0	563.4	607.1
75°	114.4	97.7	95.6	116.4	149.7	195.4	243.2	303.5	365.9	424.1	453.2
77.5°	54.1	52.0	58.2	77.0	99.8	139.3	176.7	234.9	284.8	322.3	338.9
80°	35.3	33.3	37.4	52.0	74.8	103.9	141.4	180.9	226.6	257.8	253.6
82.5°	20.8	22.9	22.9	35.3	52.0	74.8	101.8	137.3	168.4	195.4	178.8
85°	12.4	10.4	10.4	20.8	35.3	60.3	85.3	58.2	60.3	60.3	68.6
87.5°	4.1	4.1	4.1	2.1	4.1	4.1	6.2	10.4	12.4	14.5	18.7
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°	6366.0	6366.0	6366.0	6366.0	6366.0	6366.0	6366.0	6366.0	6366.0	6366.0	6366.0
2.5°	5490.7	5555.1	5532.3	5451.2	5513.6	5524.0	5482.4	5625.9	5652.9	5609.2	5621.7
5°	4451.2	4467.8	4505.2	4584.3	4640.4	4706.9	4706.9	4711.1	4654.9	4796.3	4754.8
7.5°	3467.9	3478.2	3521.9	3690.3	3738.1	3864.9	3919.0	3881.6	3769.3	3721.5	3761.0
10°	2993.8	2933.5	2918.9	2939.7	3047.9	3101.9	3147.7	3135.2	3116.5	3079.1	3037.4
12.5°	2677.8	2634.1	2598.8	2548.9	2555.1	2607.1	2642.4	2613.3	2621.6	2630.0	2642.4
15°	2334.8	2303.6	2284.8	2210.0	2201.7	2237.1	2249.5	2266.2	2297.4	2299.4	2284.8
17.5°	1970.9	1943.9	1985.5	2027.1	1998.0	2000.1	2022.9	2037.5	2029.2	1991.7	1973.0
20°	1721.4	1750.5	1792.1	1831.6	1862.8	1881.5	1889.8	1866.9	1839.9	1763.0	1761.0
22.5°	1648.7	1686.1	1721.4	1781.7	1810.8	1858.7	1815.0	1763.0	1725.6	1688.1	1644.5
25°	1594.6	1625.8	1696.5	1719.3	1775.5	1815.0	1783.8	1731.9	1667.4	1613.3	1580.1
27.5°	1555.1	1590.5	1636.2	1698.6	1742.2	1765.1	1733.9	1713.1	1646.6	1582.2	1534.3
30°	1530.2	1567.6	1650.7	1702.7	1740.1	1758.9	1704.8	1679.9	1632.0	1578.0	1536.4
32.5°	1513.5	1546.8	1617.5	1684.0	1709.0	1709.0	1717.3	1688.1	1621.6	1530.2	1494.8
35°	1459.5	1505.2	1563.4	1640.4	1686.1	1713.1	1671.6	1638.3	1594.6	1501.1	1436.6
37.5°	1428.3	1459.5	1534.3	1607.1	1646.6	1675.7	1659.0	1600.8	1542.6	1465.7	1413.7
40°	1395.1	1444.9	1511.4	1580.1	1623.7	1652.8	1640.4	1571.7	1501.1	1428.3	1392.9
42.5°	1372.2	1405.4	1474.0	1551.0	1602.9	1659.0	1621.6	1536.4	1486.5	1386.7	1347.2
45°	1353.4	1407.5	1480.2	1511.4	1565.5	1623.7	1557.2	1505.2	1447.0	1374.3	1341.0
47.5°	1330.5	1380.5	1428.3	1511.4	1536.4	1563.4	1551.0	1467.8	1417.9	1338.9	1316.0
50°	1322.3	1341.0	1428.3	1474.0	1509.3	1536.4	1503.1	1440.8	1392.9	1311.9	1262.0
52.5°	1289.0	1324.3	1380.5	1440.8	1484.4	1517.7	1463.7	1424.1	1359.7	1274.5	1243.3
55°	1247.5	1268.2	1368.0	1430.4	1453.2	1476.1	1455.4	1390.8	1324.3	1237.0	1205.8
57.5°	1193.4	1241.1	1322.3	1409.6	1438.7	1451.1	1417.9	1366.0	1282.8	1205.8	1156.0
60°	1137.2	1187.2	1276.6	1347.2	1376.3	1422.0	1372.2	1341.0	1245.4	1160.1	1106.1
62.5°	1081.1	1137.2	1203.7	1293.1	1318.1	1336.9	1324.3	1280.7	1203.7	1108.1	1041.6
65°	1014.6	1056.1	1139.3	1185.1	1201.7	1245.4	1201.7	1185.1	1116.4	1024.9	968.8
67.5°	914.8	950.1	1022.9	1066.6	1079.0	1097.8	1095.7	1076.9	1000.0	937.6	887.8
70°	800.5	831.6	877.3	929.3	935.5	958.4	937.6	933.5	883.6	798.4	771.3
72.5°	642.4	671.5	731.8	754.7	756.7	765.1	754.7	740.2	727.6	638.2	611.2
75°	492.7	509.4	538.5	559.3	559.3	569.7	563.4	548.8	515.6	459.4	432.4
77.5°	343.0	359.7	397.1	409.6	407.5	411.7	392.9	378.4	328.5	299.4	276.5
80°	249.5	259.9	278.6	286.9	289.0	295.2	272.3	259.9	230.8	197.5	187.1
82.5°	180.9	187.1	189.2	199.6	199.6	189.2	182.9	170.5	149.7	128.9	120.6
85°	74.8	77.0	79.0	91.5	93.5	112.3	103.9	97.7	85.3	72.7	66.5
87.5°	18.7	20.8	27.0	22.9	27.0	27.0	29.1	33.3	33.3	27.0	27.0
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	6366.0	6366.0	6366.0	6366.0	6366.0	6366.0	6366.0	6366.0	6366.0	6366.0	6366.0
2.5°	5669.5	5686.2	5898.2	5925.3	6029.2	6135.3	6349.4	6503.2	6627.9	6709.1	6731.9
5°	4798.4	4904.5	5002.2	5160.1	5303.6	5507.4	5742.3	6033.3	6399.3	6586.4	6661.2
7.5°	3756.8	3881.6	4022.9	4176.7	4386.7	4752.7	5066.6	5403.4	5871.2	6064.5	6357.7
10°	3066.5	3205.9	3393.0	3511.5	3765.2	4114.4	4480.3	4869.1	5316.0	5594.7	5933.6
12.5°	2711.0	2825.4	2998.0	3247.4	3436.7	3663.2	3935.6	4426.3	5066.6	5330.7	5563.5
15°	2318.1	2445.0	2644.5	2921.0	3147.7	3417.9	3723.5	4257.9	4939.8	5347.2	5544.8
17.5°	1993.8	2085.3	2295.3	2534.4	2794.2	3089.4	3528.1	4249.6	5072.8	5594.7	5916.9
20°	1769.3	1781.7	1896.1	2099.8	2453.3	2837.9	3407.6	4207.9	5499.0	6020.9	6428.4
22.5°	1627.9	1615.4	1617.5	1790.1	2037.5	2590.4	3218.3	4349.3	5983.5	6698.6	6973.1
25°	1557.2	1523.9	1503.1	1540.5	1765.1	2297.4	3074.9	4536.4	6505.3	7257.9	7594.7
27.5°	1519.8	1461.6	1419.9	1426.3	1590.5	2149.7	2985.5	4617.5	7022.9	8037.5	8156.0
30°	1505.2	1432.5	1372.2	1351.4	1459.5	1943.9	2794.2	4756.9	7486.6	8465.8	8567.7
32.5°	1453.2	1363.8	1305.7	1286.9	1330.5	1763.0	2657.0	4856.6	7896.1	8931.5	8896.2
35°	1392.9	1318.1	1245.4	1210.0	1241.1	1646.6	2546.8	4808.8	8378.5	9293.3	9274.5
37.5°	1386.7	1289.0	1228.7	1170.5	1168.4	1503.1	2397.1	4854.5	8686.2	9942.0	9686.2
40°	1332.6	1270.3	1191.3	1143.5	1116.4	1430.4	2251.6	4746.4	9137.4	10203.9	9952.3
42.5°	1334.8	1241.1	1172.6	1116.4	1089.4	1324.3	2151.8	4717.3	9295.3	10630.1	10077.0
45°	1301.4	1210.0	1151.7	1085.2	1070.7	1243.3	2056.2	4582.2	9573.9	10650.8	9921.1
47.5°	1268.2	1187.2	1124.8	1045.8	1012.5	1214.2	1981.3	4469.9	9428.5	10455.5	9704.9
50°	1245.4	1151.7	1093.6	1037.5	943.9	1164.3	1883.6	4442.9	9224.7	10191.4	9303.6
52.5°	1205.8	1122.7	1062.4	1018.7	869.0	1118.5	1846.2	4600.9	9474.1	9993.9	9187.3
55°	1168.4	1083.2	1006.3	921.0	806.7	997.9	1742.2	4748.5	9838.0	10449.3	9715.3
57.5°	1128.9	1047.8	964.7	862.8	746.4	873.2	1634.1	4775.5	9156.1	9657.1	9222.6
60°	1076.9	973.0	910.6	777.6	681.9	723.5	1295.2	4210.0	7102.0	8064.6	8079.2
62.5°	1018.7	906.4	852.4	696.5	615.4	623.7	1056.1	3538.5	5761.0	6675.8	7072.9
65°	941.8	833.7	769.3	644.5	567.6	540.5	773.4	2592.6	4376.4	5415.9	5867.1
67.5°	842.0	740.2	659.1	561.4	507.3	463.6	528.1	1459.5	2584.2	3636.2	3773.5
70°	736.0	648.7	563.4	482.3	422.0	390.9	386.7	646.6	1234.9	1956.3	2226.6
72.5°	580.0	517.7	449.1	388.8	349.3	303.5	276.5	268.2	417.9	796.3	1099.8
75°	415.8	363.8	324.3	284.8	255.7	230.8	210.0	191.2	174.7	199.6	274.4
77.5°	262.0	243.2	212.1	201.7	185.0	178.8	170.5	160.1	147.6	139.3	139.3
80°	176.7	164.2	153.8	151.8	145.5	143.5	145.5	135.1	122.7	112.3	116.4
82.5°	118.5	116.4	114.4	112.3	114.4	116.4	120.6	118.5	108.1	101.8	103.9
85°	70.7	74.8	79.0	83.2	91.5	81.1	66.5	56.1	49.9	45.8	43.6
87.5°	27.0	37.4	33.3	31.2	33.3	31.2	29.1	27.0	22.9	20.8	20.8
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6366.0	6366.0	6366.0	6366.0	6366.0	6366.0	6366.0	6366.0	6366.0	6366.0
2.5°	6883.7	6925.3	6960.6	6952.3	6879.5	6781.8	6742.3	6540.6	6499.1	6472.0
5°	6977.3	7218.4	7270.4	7239.2	7050.0	6810.9	6578.0	6282.9	6110.3	6104.1
7.5°	6804.7	7102.0	7195.5	7266.2	7014.7	6598.8	6199.7	5756.8	5648.7	5657.1
10°	6366.0	6840.0	7070.8	7143.5	6854.6	6494.9	5941.9	5492.8	5262.1	5257.8
12.5°	6122.7	6494.9	6559.4	6661.2	6575.9	6212.1	5792.2	5289.0	5064.5	5060.4
15°	5906.5	6151.8	6170.6	6314.1	6359.7	6114.4	5831.7	5295.3	5114.5	5095.7
17.5°	6095.7	5925.3	5854.5	5873.3	6008.4	6097.8	6060.4	5648.7	5463.7	5359.8
20°	6222.6	5842.1	5628.0	5648.7	5808.8	6135.3	6401.4	6160.2	5867.1	5879.5
22.5°	6561.4	5854.5	5519.8	5496.9	5750.6	6330.6	6785.9	6806.7	6524.0	6455.4
25°	7068.7	5998.0	5486.6	5480.3	5723.6	6540.6	7235.0	7571.9	7282.9	7156.1
27.5°	7476.2	6222.6	5590.5	5611.3	5808.8	6711.1	7617.6	8064.6	7844.2	7688.3
30°	7833.8	6455.4	5736.0	5640.4	6037.5	6800.5	7781.9	8625.9	8449.2	8320.3
32.5°	7981.4	6785.9	5966.8	5808.8	6226.7	6908.6	8122.8	9170.6	9018.9	8700.7
35°	8230.9	6971.0	6091.5	6079.1	6557.3	7168.5	8282.8	9530.3	9467.9	9185.1
37.5°	8430.4	7158.1	6534.4	6397.2	7010.5	7605.1	8540.7	10027.2	9883.7	9750.6
40°	8584.3	7492.8	6948.1	7129.0	7567.7	8002.2	8777.7	10058.4	10472.0	10085.4
42.5°	8443.0	7792.2	7628.0	8060.4	8476.2	8455.4	8804.7	10299.6	10609.3	10407.6
45°	8407.6	8299.5	8702.8	9095.8	9191.4	8831.8	8611.3	10033.4	10567.8	10478.4
47.5°	8322.4	8798.5	9501.2	10141.5	9996.0	9083.3	8380.6	9985.6	10592.6	10432.6
50°	8293.3	8906.6	10091.7	10715.3	10628.1	9301.6	8272.5	9677.9	10416.0	10401.4
52.5°	8291.2	9129.1	10337.0	11027.2	11081.3	9646.7	8420.1	9833.8	10553.2	10675.8
55°	8384.8	9058.3	10305.8	10854.6	10833.8	9492.9	8436.7	9937.8	10721.6	10842.2
57.5°	7908.7	8114.5	8505.3	8939.8	8827.6	7862.9	7534.4	9187.3	9840.0	9752.7
60°	6829.6	6185.1	5744.4	5723.6	5505.3	5203.9	6166.4	8199.7	8199.7	8114.5
62.5°	5981.4	4060.3	3488.6	3326.5	3482.4	3829.6	5948.1	7975.2	7748.6	7650.8
65°	5230.9	3099.8	2521.9	2476.2	2746.4	3270.3	5378.4	6794.3	6395.1	6070.8
67.5°	3365.9	2270.3	1875.3	1794.2	2120.6	2401.3	3580.1	4178.8	3927.3	3800.5
70°	2170.5	1478.2	1043.7	979.3	1106.1	1480.2	2286.9	2436.6	2070.7	1985.5
72.5°	1027.0	638.2	365.9	301.5	338.9	565.5	904.4	973.0	808.7	740.2
75°	326.4	234.9	149.7	128.9	122.7	145.5	207.9	160.1	116.4	114.4
77.5°	145.5	139.3	118.5	99.8	87.3	72.7	60.3	49.9	52.0	54.1
80°	120.6	110.2	97.7	87.3	72.7	56.1	43.6	33.3	33.3	35.3
82.5°	106.1	95.6	85.3	72.7	62.4	45.8	33.3	22.9	20.8	20.8
85°	45.8	54.1	58.2	62.4	49.9	37.4	22.9	14.5	12.4	12.4
87.5°	18.7	16.7	14.5	12.4	10.4	10.4	8.3	6.2	4.1	4.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)