

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: P529980

Luminaire Tested: **GALN-SA5A-830-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529980
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-830-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 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: 13554 lumens
Efficiency: N/A
Efficacy: 88.0 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



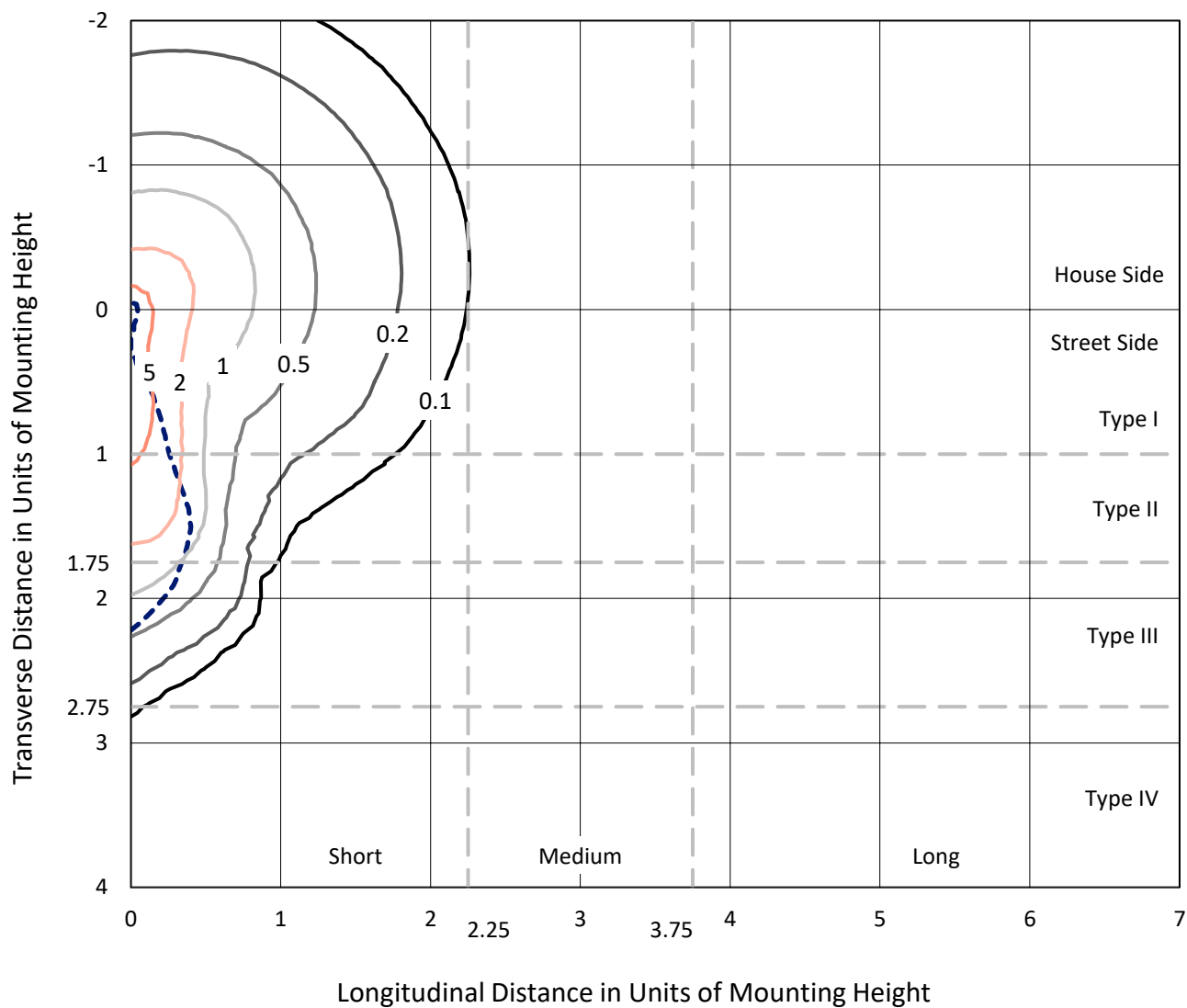
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

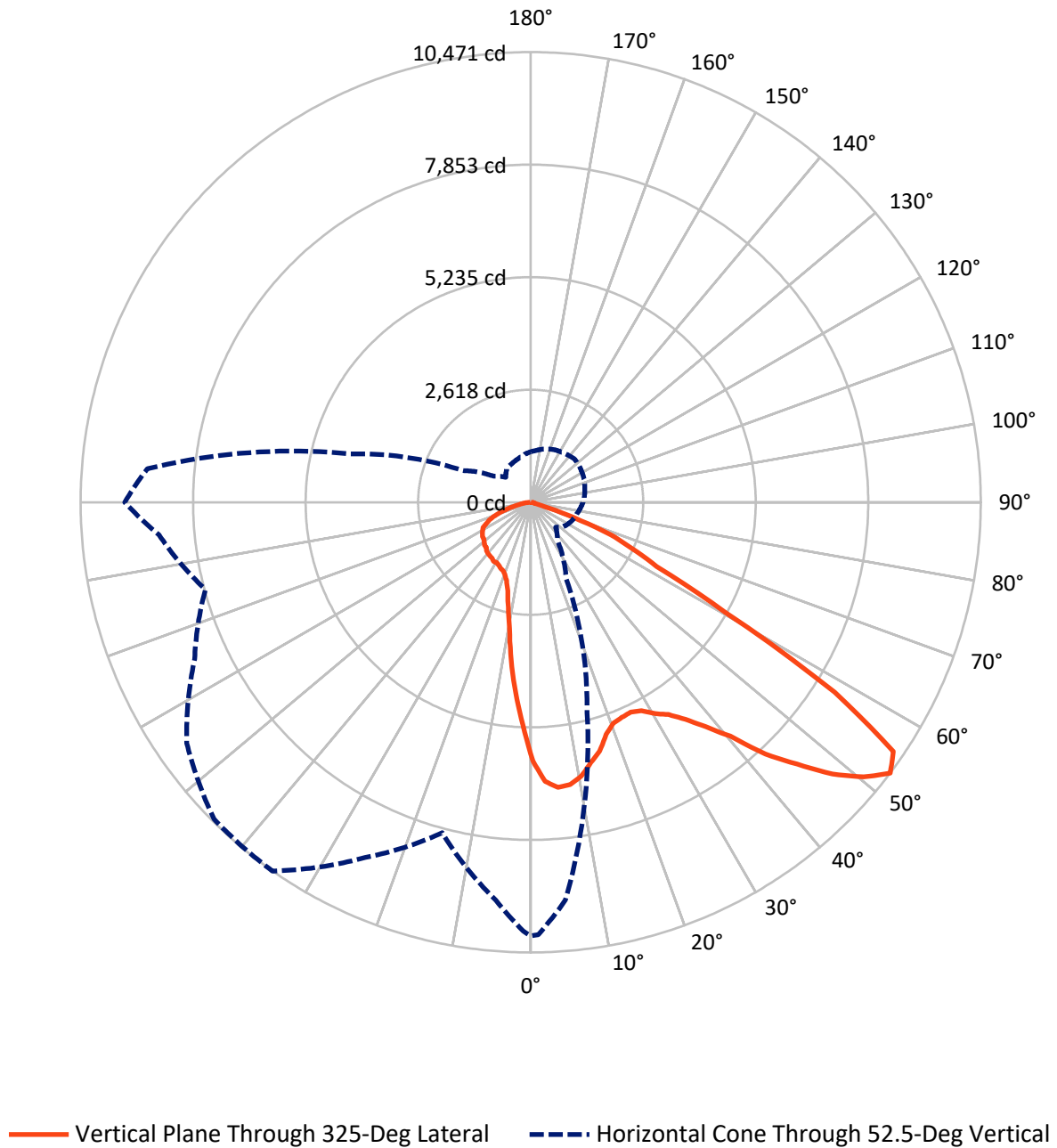
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 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	4086.0	0.0	4086.0
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	9468.0	0.0	9468.0
	% Fixture	69.9	0.0	69.9
Total	Lumens	13554.0	0.0	13554.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	458.9	3.4
10°-20°	994.9	7.3
20°-30°	1503.2	11.1
30°-40°	2172.1	16.0
40°-50°	2890.7	21.3
50°-60°	3233.3	23.9
60°-70°	1822.3	13.4
70°-80°	406.2	3.0
80°-90°	72.3	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°	13554.0	100.0
0°-180°	13554.0	100.0

Coefficient of Utilization



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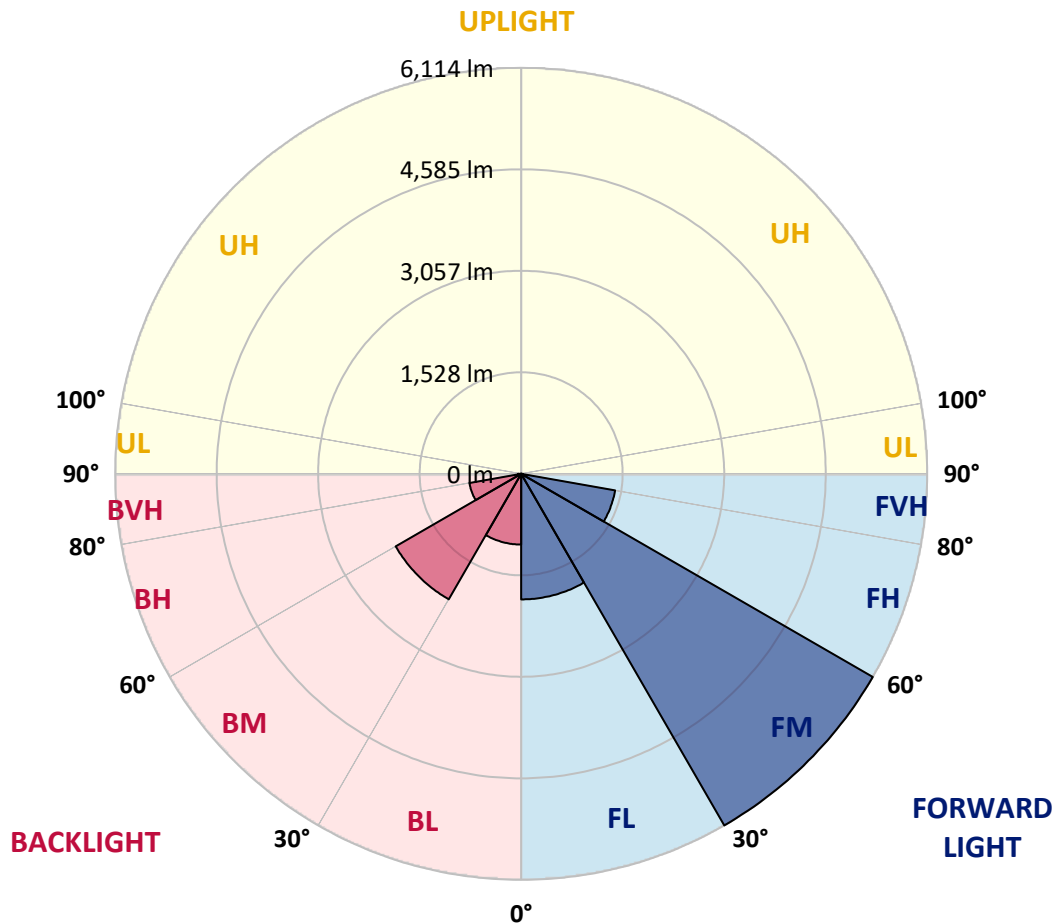
CATALOG NUMBER: GALN-SA5A-830-U-SLR-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1891.4	14.0			
FM	(30°-60°)	6113.9	45.1			
FH	(60°-80°)	1436.5	10.6			G1/1800
FVH	(80°-90°)	26.2	0.2			G1/100
BL	(0°-30°)	1065.5	7.9	B3/2500		
BM	(30°-60°)	2182.3	16.1	B2/2500		
BH	(60°-80°)	792.0	5.8	B2/1000		G2/1000
BVH	(80°-90°)	46.1	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°	6015.3	6015.3	6015.3	6015.3	6015.3	6015.3	6015.3	6015.3	6015.3	6015.3	6015.3
2.5°	6115.5	6213.8	6107.7	5919.1	5785.5	5663.7	5536.0	5510.5	5343.5	5314.0	5192.2
5°	5767.8	5746.2	5616.6	5369.0	5096.0	4848.4	4665.7	4488.9	4369.1	4229.6	4219.8
7.5°	5345.4	5219.7	5145.1	4769.8	4431.9	4043.0	3876.0	3606.9	3522.4	3396.6	3331.8
10°	4968.3	4875.9	4701.1	4325.9	3854.4	3597.0	3418.3	3272.9	3174.7	3045.0	2881.9
12.5°	4781.6	4744.3	4547.9	3966.4	3616.7	3341.6	3215.9	3074.5	2907.5	2699.2	2618.7
15°	4815.0	4689.3	4540.0	3897.6	3414.3	3149.1	2948.7	2771.9	2557.8	2359.4	2243.5
17.5°	5064.5	4968.3	4669.7	3940.8	3337.7	2954.6	2591.2	2329.9	2137.4	1958.6	1878.1
20°	5555.7	5416.2	5080.2	3995.8	3172.7	2683.5	2267.1	1944.9	1738.6	1644.3	1616.8
22.5°	6099.8	6017.3	5481.0	4119.6	3041.1	2432.1	1923.3	1601.1	1524.5	1498.9	1550.0
25°	6761.9	6547.7	6103.8	4321.9	2938.9	2217.9	1632.5	1453.7	1414.5	1440.0	1498.9
27.5°	7264.8	7207.8	6539.9	4512.5	2799.4	1960.6	1469.5	1351.6	1363.4	1388.9	1443.9
30°	7862.0	7573.2	6962.2	4644.1	2673.7	1783.8	1355.5	1324.1	1335.9	1379.1	1406.6
32.5°	8221.5	8113.5	7227.5	4842.5	2528.3	1630.5	1267.1	1237.6	1255.3	1320.2	1385.0
35°	8679.2	8465.1	7555.5	4893.6	2426.2	1569.6	1204.2	1182.6	1223.9	1269.1	1341.8
37.5°	9213.6	9066.2	8009.3	4858.2	2371.2	1506.8	1151.2	1141.4	1170.9	1233.7	1318.2
40°	9529.9	9484.7	8247.0	4879.9	2284.7	1451.8	1090.3	1102.1	1163.0	1212.1	1294.6
42.5°	9834.4	9539.7	8598.7	4872.0	2229.7	1377.1	1096.2	1082.4	1129.6	1186.6	1265.1
45°	9901.2	9608.4	8681.2	4817.0	2162.9	1304.4	1051.0	1056.9	1113.9	1184.6	1235.7
47.5°	9857.9	9641.8	8834.4	4801.3	2100.1	1253.4	984.2	1054.9	1088.3	1145.3	1218.0
50°	9828.5	9816.7	8964.1	4875.9	2015.6	1172.8	903.7	1029.4	1062.8	1119.8	1198.4
52.5°	10087.8	10062.3	9288.2	5072.4	1948.8	1086.4	821.2	964.6	1045.1	1100.1	1176.7
55°	10245.0	10133.0	9844.2	5314.0	1836.8	972.4	764.2	884.0	1001.9	1051.0	1129.6
57.5°	9215.5	9138.9	8905.2	4960.4	1648.2	823.1	693.5	801.5	943.0	1019.6	1100.1
60°	7667.5	7547.7	6948.5	4215.9	1216.0	640.4	650.3	736.7	927.3	956.7	1051.0
62.5°	7229.4	6932.8	6117.5	3392.7	933.1	550.1	583.5	677.8	844.7	893.9	988.2
65°	5736.4	5516.4	4376.9	2449.8	624.7	477.4	532.4	611.0	728.8	825.1	911.5
67.5°	3591.1	3380.9	2335.8	1159.1	436.1	408.6	475.4	557.9	654.2	740.6	836.9
70°	1876.1	1646.3	1078.5	418.4	300.6	334.0	396.8	475.4	569.7	640.4	715.1
72.5°	699.4	567.7	351.6	180.7	208.2	255.4	322.2	379.2	445.9	532.4	573.6
75°	108.0	92.3	90.4	110.0	141.4	184.7	229.8	286.8	345.8	400.8	428.3
77.5°	51.1	49.1	55.0	72.7	94.3	131.6	167.0	222.0	269.1	304.5	320.2
80°	33.4	31.4	35.4	49.1	70.7	98.2	133.6	170.9	214.1	243.6	239.7
82.5°	19.6	21.6	21.6	33.4	49.1	70.7	96.3	129.7	159.1	184.7	168.9
85°	11.8	9.8	9.8	19.6	33.4	57.0	80.5	55.0	57.0	57.0	64.8
87.5°	3.9	3.9	3.9	2.0	3.9	3.9	5.9	9.8	11.8	13.8	17.7
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°	6015.3	6015.3	6015.3	6015.3	6015.3	6015.3	6015.3	6015.3	6015.3	6015.3	6015.3
2.5°	5188.3	5249.2	5227.6	5151.0	5209.9	5219.7	5180.4	5316.0	5341.5	5300.3	5312.1
5°	4206.0	4221.7	4257.1	4331.8	4384.8	4447.7	4447.7	4451.6	4398.6	4532.1	4492.8
7.5°	3276.8	3286.6	3327.9	3487.0	3532.2	3652.0	3703.1	3667.8	3561.7	3516.5	3553.8
10°	2828.9	2771.9	2758.2	2777.8	2880.0	2931.1	2974.3	2962.5	2944.8	2909.4	2870.2
12.5°	2530.3	2489.0	2455.6	2408.5	2414.4	2463.5	2496.9	2469.4	2477.3	2485.1	2496.9
15°	2206.2	2176.7	2159.0	2088.3	2080.4	2113.8	2125.6	2141.3	2170.8	2172.8	2159.0
17.5°	1862.4	1836.8	1876.1	1915.4	1887.9	1889.9	1911.5	1925.2	1917.4	1882.0	1864.3
20°	1626.6	1654.1	1693.4	1730.7	1760.2	1777.9	1785.7	1764.1	1738.6	1665.9	1663.9
22.5°	1557.9	1593.2	1626.6	1683.6	1711.1	1756.3	1715.0	1665.9	1630.5	1595.2	1553.9
25°	1506.8	1536.3	1603.0	1624.7	1677.7	1715.0	1685.6	1636.4	1575.5	1524.5	1493.0
27.5°	1469.5	1502.9	1546.1	1605.0	1646.3	1667.9	1638.4	1618.8	1555.9	1495.0	1449.8
30°	1445.9	1481.2	1559.8	1608.9	1644.3	1662.0	1610.9	1587.3	1542.1	1491.1	1451.8
32.5°	1430.2	1461.6	1528.4	1591.3	1614.8	1614.8	1622.7	1595.2	1532.3	1445.9	1412.5
35°	1379.1	1422.3	1477.3	1550.0	1593.2	1618.8	1579.5	1548.0	1506.8	1418.4	1357.5
37.5°	1349.6	1379.1	1449.8	1518.6	1555.9	1583.4	1567.7	1512.7	1457.7	1385.0	1335.9
40°	1318.2	1365.3	1428.2	1493.0	1534.3	1561.8	1550.0	1485.2	1418.4	1349.6	1316.2
42.5°	1296.6	1328.0	1392.8	1465.5	1514.6	1567.7	1532.3	1451.8	1404.6	1310.3	1273.0
45°	1278.9	1330.0	1398.7	1428.2	1479.3	1534.3	1471.4	1422.3	1367.3	1298.5	1267.1
47.5°	1257.3	1304.4	1349.6	1428.2	1451.8	1477.3	1465.5	1386.9	1339.8	1265.1	1243.5
50°	1249.4	1267.1	1349.6	1392.8	1426.2	1451.8	1420.3	1361.4	1316.2	1239.6	1192.5
52.5°	1218.0	1251.4	1304.4	1361.4	1402.7	1434.1	1383.0	1345.7	1284.8	1204.2	1174.8
55°	1178.7	1198.4	1292.7	1351.6	1373.2	1394.8	1375.2	1314.3	1251.4	1168.9	1139.4
57.5°	1127.6	1172.8	1249.4	1331.9	1359.4	1371.2	1339.8	1290.7	1212.1	1139.4	1092.3
60°	1074.6	1121.7	1206.2	1273.0	1300.5	1343.7	1296.6	1267.1	1176.7	1096.2	1045.1
62.5°	1021.5	1074.6	1137.5	1221.9	1245.5	1263.2	1251.4	1210.1	1137.5	1047.1	984.2
65°	958.7	998.0	1076.6	1119.8	1135.5	1176.7	1135.5	1119.8	1054.9	968.5	915.5
67.5°	864.4	897.8	966.5	1007.8	1019.6	1037.3	1035.3	1017.6	944.9	886.0	838.8
70°	756.3	785.8	829.0	878.1	884.0	905.6	886.0	882.1	834.9	754.4	728.8
72.5°	607.0	634.5	691.5	713.1	715.1	722.9	713.1	699.4	687.6	603.1	577.6
75°	465.6	481.3	508.8	528.5	528.5	538.3	532.4	518.6	487.2	434.2	408.6
77.5°	324.1	339.9	375.2	387.0	385.0	389.0	371.3	357.5	310.4	282.9	261.3
80°	235.7	245.6	263.2	271.1	273.1	279.0	257.4	245.6	218.1	186.6	176.8
82.5°	170.9	176.8	178.8	188.6	188.6	178.8	172.9	161.1	141.4	121.8	113.9
85°	70.7	72.7	74.7	86.4	88.4	106.1	98.2	92.3	80.5	68.8	62.9
87.5°	17.7	19.6	25.5	21.6	25.5	25.5	27.5	31.4	31.4	25.5	25.5
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°	6015.3	6015.3	6015.3	6015.3	6015.3	6015.3	6015.3	6015.3	6015.3	6015.3	6015.3
2.5°	5357.2	5373.0	5573.3	5598.9	5697.1	5797.3	5999.6	6145.0	6262.9	6339.5	6361.1
5°	4534.1	4634.3	4726.6	4875.9	5011.5	5204.0	5426.0	5701.0	6046.8	6223.6	6294.3
7.5°	3549.9	3667.8	3801.3	3946.7	4145.1	4490.9	4787.5	5105.8	5547.8	5730.5	6007.5
10°	2897.7	3029.3	3206.1	3318.1	3557.7	3887.8	4233.5	4600.9	5023.3	5286.5	5606.7
12.5°	2561.7	2669.8	2832.8	3068.6	3247.3	3461.5	3718.8	4182.5	4787.5	5037.0	5257.0
15°	2190.4	2310.3	2498.9	2760.1	2974.3	3229.7	3518.4	4023.3	4667.7	5052.7	5239.4
17.5°	1884.0	1970.4	2168.8	2394.7	2640.3	2919.3	3333.8	4015.5	4793.4	5286.5	5591.0
20°	1671.8	1683.6	1791.6	1984.2	2318.1	2681.6	3219.8	3976.2	5196.1	5689.2	6074.3
22.5°	1538.2	1526.4	1528.4	1691.4	1925.2	2447.8	3041.1	4109.8	5653.9	6329.7	6589.0
25°	1471.4	1440.0	1420.3	1455.7	1667.9	2170.8	2905.5	4286.6	6147.0	6858.1	7176.4
27.5°	1436.1	1381.1	1341.8	1347.7	1502.9	2031.3	2821.0	4363.2	6636.1	7594.8	7706.8
30°	1422.3	1353.6	1296.6	1276.9	1379.1	1836.8	2640.3	4494.8	7074.2	7999.5	8095.8
32.5°	1373.2	1288.7	1233.7	1216.0	1257.3	1665.9	2510.7	4589.1	7461.2	8439.6	8406.2
35°	1316.2	1245.5	1176.7	1143.3	1172.8	1555.9	2406.5	4543.9	7917.0	8781.4	8763.7
37.5°	1310.3	1218.0	1161.0	1106.0	1104.1	1420.3	2265.1	4587.1	8207.7	9394.3	9152.7
40°	1259.3	1200.3	1125.7	1080.5	1054.9	1351.6	2127.6	4485.0	8634.0	9641.8	9404.1
42.5°	1261.2	1172.8	1108.0	1054.9	1029.4	1251.4	2033.3	4457.5	8783.4	10044.6	9522.0
45°	1229.8	1143.3	1088.3	1025.5	1011.7	1174.8	1942.9	4329.8	9046.6	10064.2	9374.7
47.5°	1198.4	1121.7	1062.8	988.2	956.7	1147.3	1872.2	4223.7	8909.1	9879.6	9170.4
50°	1176.7	1088.3	1033.3	980.3	891.9	1100.1	1779.9	4198.2	8716.6	9630.1	8791.2
52.5°	1139.4	1060.8	1003.9	962.6	821.2	1056.9	1744.5	4347.5	8952.3	9443.4	8681.2
55°	1104.1	1023.5	950.8	870.3	762.2	943.0	1646.3	4487.0	9296.1	9873.7	9180.2
57.5°	1066.7	990.1	911.5	815.3	705.3	825.1	1544.1	4512.5	8651.7	9125.2	8714.6
60°	1017.6	919.4	860.5	734.7	644.4	683.7	1223.9	3978.1	6710.8	7620.4	7634.1
62.5°	962.6	856.5	805.5	658.1	581.5	589.4	998.0	3343.6	5443.7	6308.1	6683.3
65°	889.9	787.8	726.9	609.0	536.3	510.8	730.8	2449.8	4135.3	5117.6	5543.9
67.5°	795.6	699.4	622.8	530.4	479.3	438.1	499.0	1379.1	2441.9	3435.9	3565.6
70°	695.4	612.9	532.4	455.8	398.8	369.3	365.4	611.0	1166.9	1848.6	2104.0
72.5°	548.1	489.2	424.3	367.4	330.0	286.8	261.3	253.4	394.9	752.4	1039.2
75°	392.9	343.8	306.5	269.1	241.6	218.1	198.4	180.7	165.0	188.6	259.3
77.5°	247.5	229.8	200.4	190.6	174.8	168.9	161.1	151.3	139.5	131.6	131.6
80°	167.0	155.2	145.4	143.4	137.5	135.6	137.5	127.7	115.9	106.1	110.0
82.5°	112.0	110.0	108.0	106.1	108.0	110.0	113.9	112.0	102.2	96.3	98.2
85°	66.8	70.7	74.7	78.6	86.4	76.6	62.9	53.0	47.1	43.2	41.3
87.5°	25.5	35.4	31.4	29.5	31.4	29.5	27.5	25.5	21.6	19.6	19.6
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°	6015.3	6015.3	6015.3	6015.3	6015.3	6015.3	6015.3	6015.3	6015.3	6015.3
2.5°	6504.5	6543.8	6577.2	6569.3	6500.6	6408.3	6370.9	6180.4	6141.1	6115.5
5°	6592.9	6820.8	6869.9	6840.4	6661.7	6435.8	6215.7	5936.8	5773.7	5767.8
7.5°	6429.9	6710.8	6799.2	6866.0	6628.3	6235.4	5858.2	5439.7	5337.6	5345.4
10°	6015.3	6463.3	6681.3	6750.1	6477.0	6137.1	5614.6	5190.3	4972.2	4968.3
12.5°	5785.5	6137.1	6198.0	6294.3	6213.8	5870.0	5473.1	4997.7	4785.6	4781.6
15°	5581.2	5813.0	5830.7	5966.2	6009.5	5777.6	5510.5	5003.6	4832.7	4815.0
17.5°	5760.0	5598.9	5532.1	5549.8	5677.5	5761.9	5726.6	5337.6	5162.7	5064.5
20°	5879.8	5520.3	5317.9	5337.6	5488.9	5797.3	6048.7	5820.9	5543.9	5555.7
22.5°	6200.0	5532.1	5215.8	5194.2	5433.9	5982.0	6412.2	6431.8	6164.7	6099.8
25°	6679.4	5667.6	5184.4	5178.5	5408.3	6180.4	6836.5	7154.8	6881.7	6761.9
27.5°	7064.4	5879.8	5282.6	5302.2	5488.9	6341.5	7198.0	7620.4	7412.1	7264.8
30°	7402.3	6099.8	5420.1	5329.7	5705.0	6425.9	7353.2	8150.8	7983.8	7862.0
32.5°	7541.8	6412.2	5638.2	5488.9	5883.7	6528.1	7675.4	8665.5	8522.1	8221.5
35°	7777.5	6587.0	5756.0	5744.2	6196.1	6773.7	7826.6	9005.3	8946.4	8679.2
37.5°	7966.1	6763.8	6174.5	6044.8	6624.3	7186.2	8070.2	9474.9	9339.3	9213.6
40°	8111.5	7080.1	6565.4	6736.3	7150.8	7561.4	8294.2	9504.3	9895.3	9529.9
42.5°	7977.9	7363.0	7207.8	7616.4	8009.3	7989.7	8319.7	9732.2	10024.9	9834.4
45°	7944.5	7842.3	8223.5	8594.8	8685.1	8345.3	8137.0	9480.8	9985.6	9901.2
47.5°	7864.0	8313.8	8977.8	9582.9	9445.4	8583.0	7919.0	9435.6	10009.2	9857.9
50°	7836.5	8416.0	9535.8	10125.1	10042.6	8789.2	7816.8	9144.8	9842.2	9828.5
52.5°	7834.5	8626.2	9767.6	10419.8	10470.9	9115.4	7956.3	9292.2	9971.9	10087.8
55°	7922.9	8559.4	9738.1	10256.7	10237.1	8970.0	7972.0	9390.4	10131.0	10245.0
57.5°	7473.0	7667.5	8036.8	8447.4	8341.3	7429.8	7119.4	8681.2	9298.1	9215.5
60°	6453.4	5844.4	5428.0	5408.3	5202.0	4917.2	5826.8	7748.1	7748.1	7667.5
62.5°	5651.9	3836.7	3296.5	3143.2	3290.6	3618.6	5620.5	7535.9	7321.8	7229.4
65°	4942.7	2929.1	2383.0	2339.7	2595.1	3090.2	5082.2	6420.0	6042.9	5736.4
67.5°	3180.6	2145.3	1772.0	1695.4	2003.8	2269.0	3382.9	3948.7	3711.0	3591.1
70°	2051.0	1396.8	986.2	925.3	1045.1	1398.7	2161.0	2302.4	1956.7	1876.1
72.5°	970.5	603.1	345.8	284.9	320.2	534.3	854.6	919.4	764.2	699.4
75°	308.4	222.0	141.4	121.8	115.9	137.5	196.5	151.3	110.0	108.0
77.5°	137.5	131.6	112.0	94.3	82.5	68.8	57.0	47.1	49.1	51.1
80°	113.9	104.1	92.3	82.5	68.8	53.0	41.3	31.4	31.4	33.4
82.5°	100.2	90.4	80.5	68.8	58.9	43.2	31.4	21.6	19.6	19.6
85°	43.2	51.1	55.0	58.9	47.1	35.4	21.6	13.8	11.8	11.8
87.5°	17.7	15.7	13.8	11.8	9.8	9.8	7.9	5.9	3.9	3.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)