

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: P529096

Luminaire Tested: **GALN-SA4B-727-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529096
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-727-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 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: 14020 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

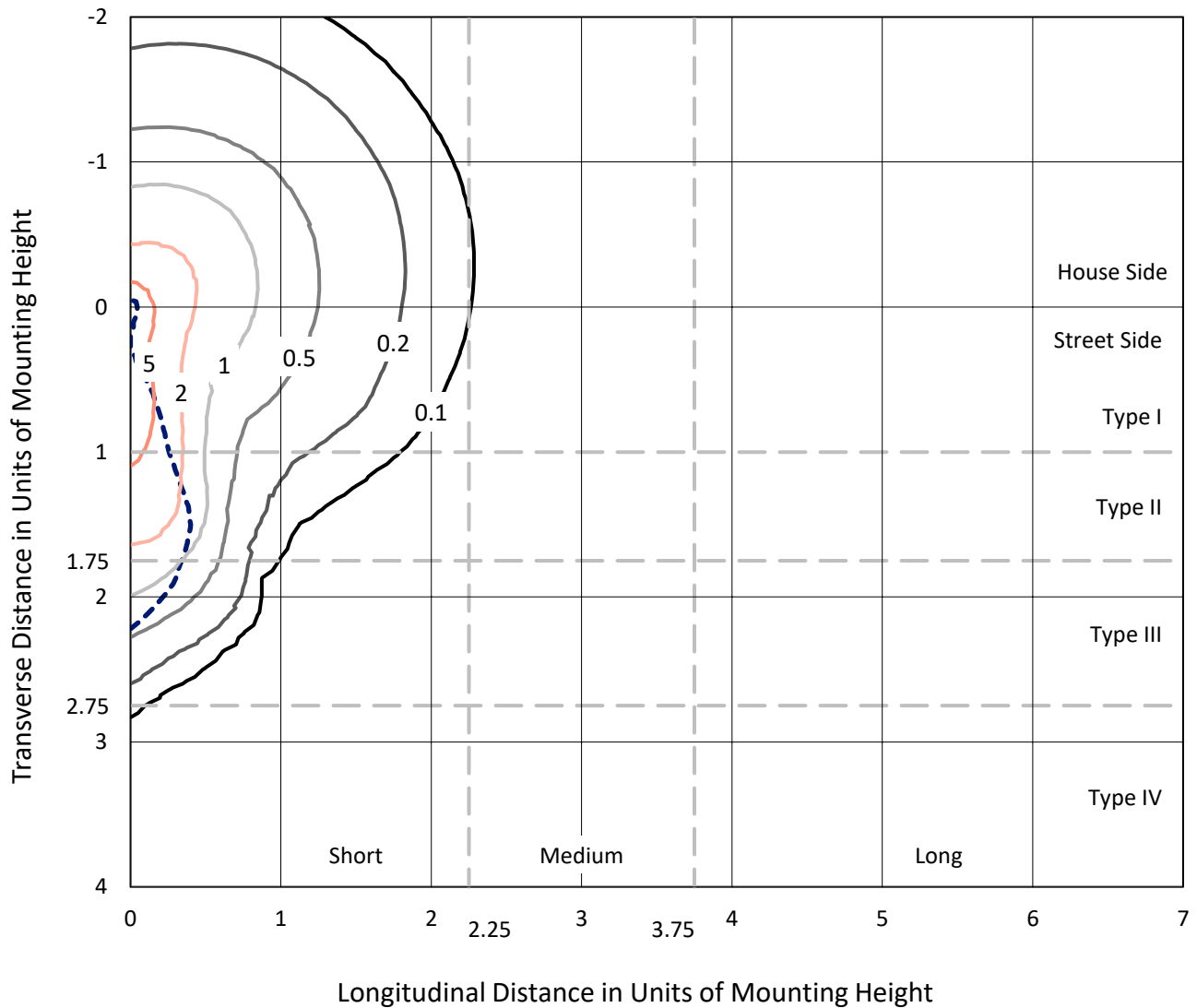
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

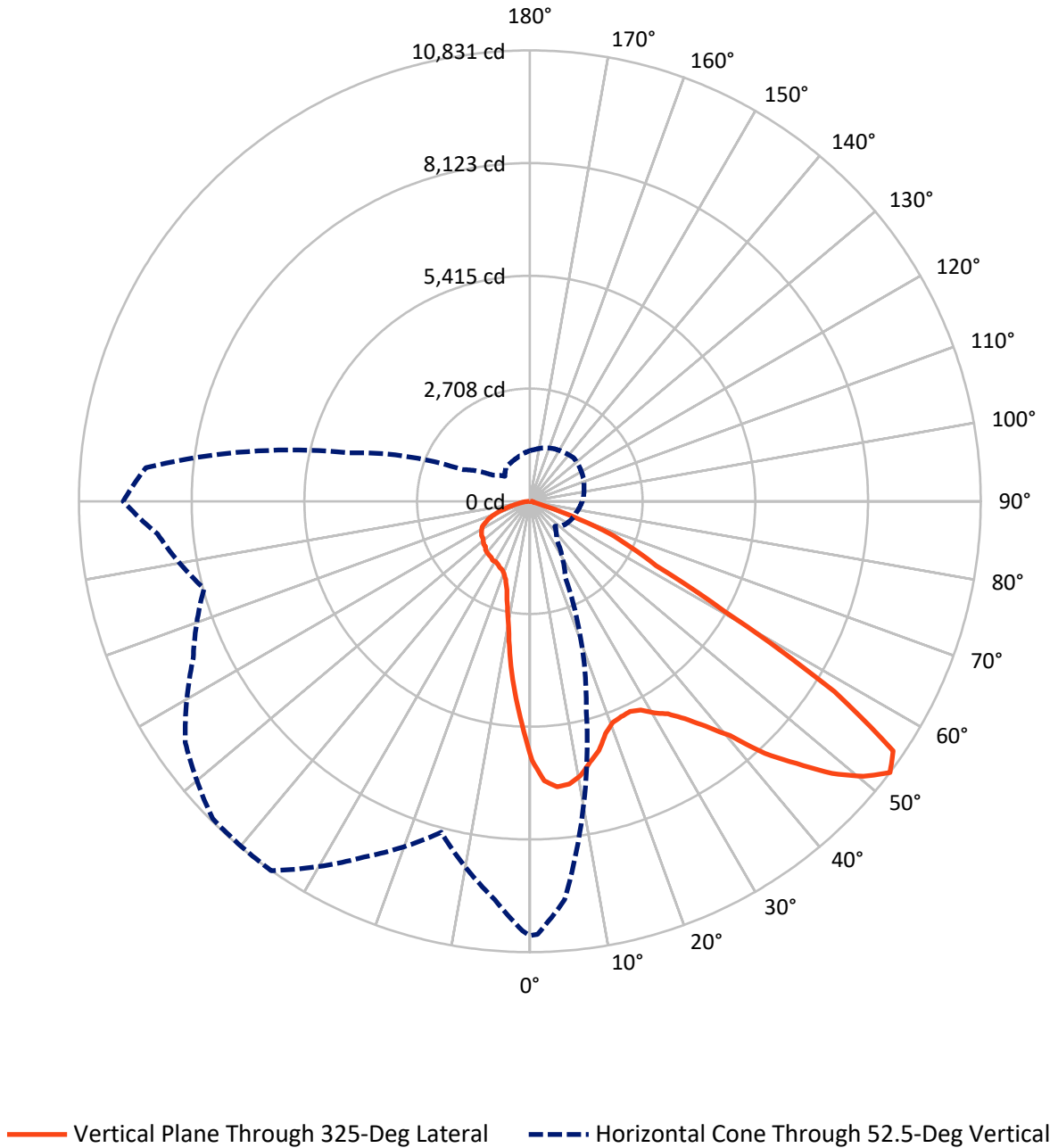
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 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	4226.4	0.0	4226.4
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	9793.6	0.0	9793.6
	% Fixture	69.9	0.0	69.9
Total	Lumens	14020.0	0.0	14020.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	474.7	3.4
10°-20°	1029.1	7.3
20°-30°	1554.8	11.1
30°-40°	2246.8	16.0
40°-50°	2990.1	21.3
50°-60°	3344.5	23.9
60°-70°	1884.9	13.4
70°-80°	420.2	3.0
80°-90°	74.8	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°	14020.0	100.0
0°-180°	14020.0	100.0

Coefficient of Utilization



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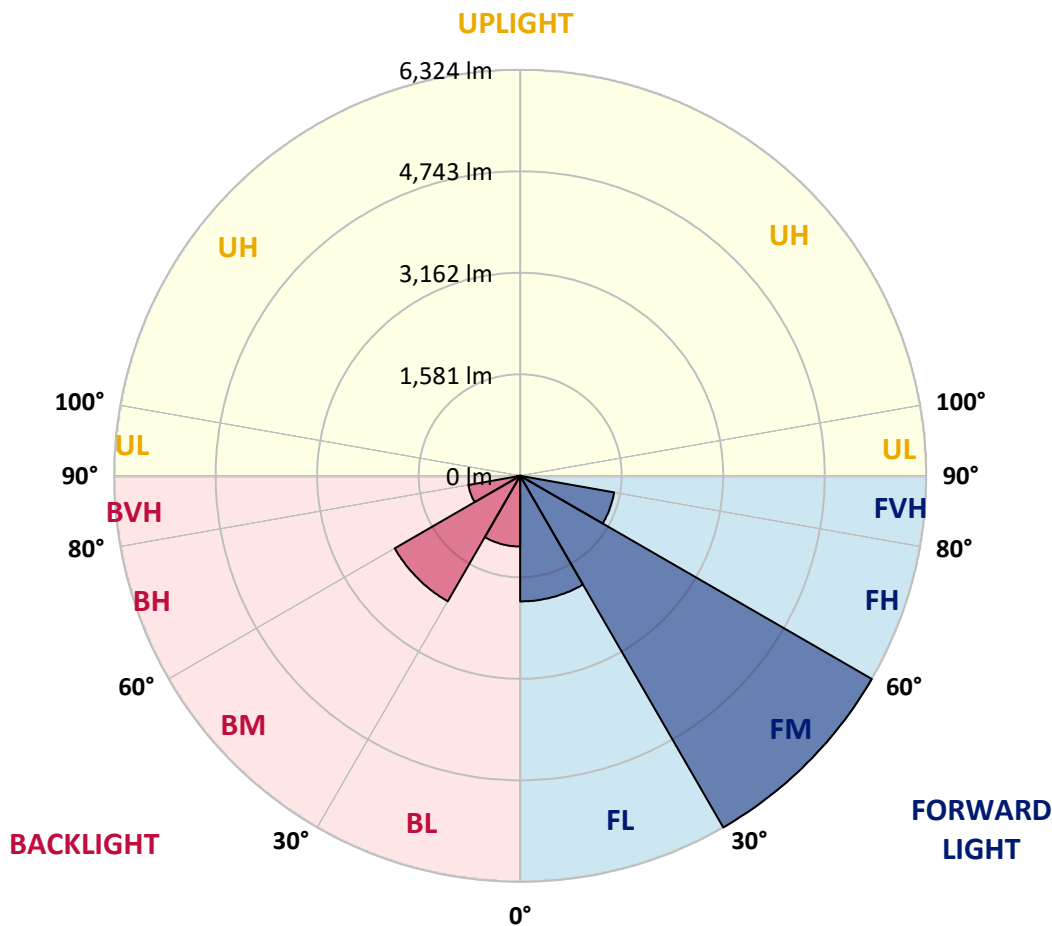
CATALOG NUMBER: GALN-SA4B-727-U-SLR-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1956.5	14.0			
FM (30°-60°)	6324.1	45.1			
FH (60°-80°)	1485.9	10.6			G1/1800
FVH (80°-90°)	27.1	0.2			G1/100
BL (0°-30°)	1102.2	7.9	B3/2500		
BM (30°-60°)	2257.3	16.1	B2/2500		
BH (60°-80°)	819.2	5.8	B2/1000		G2/1000
BVH (80°-90°)	47.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	6222.2	6222.2	6222.2	6222.2	6222.2	6222.2	6222.2	6222.2	6222.2	6222.2	6222.2
2.5°	6325.8	6427.4	6317.7	6122.6	5984.4	5858.4	5726.3	5699.9	5527.2	5496.7	5370.7
5°	5966.1	5943.8	5809.7	5553.6	5271.2	5015.1	4826.1	4643.3	4519.3	4375.0	4364.9
7.5°	5529.2	5399.2	5322.0	4933.8	4584.3	4182.0	4009.3	3730.9	3643.5	3513.4	3446.4
10°	5139.1	5043.6	4862.7	4474.6	3986.9	3720.7	3535.8	3385.4	3283.8	3149.7	2981.0
12.5°	4946.0	4907.4	4704.2	4102.7	3741.0	3456.5	3326.5	3180.2	3007.4	2792.0	2708.7
15°	4980.6	4850.5	4696.1	4031.6	3531.7	3257.4	3050.1	2867.2	2645.7	2440.5	2320.6
17.5°	5238.6	5139.1	4830.2	4076.3	3452.5	3056.2	2680.3	2410.0	2210.9	2026.0	1942.6
20°	5746.7	5602.4	5254.9	4133.2	3281.8	2775.8	2345.0	2011.7	1798.4	1700.8	1672.4
22.5°	6309.5	6224.2	5669.4	4261.2	3145.6	2515.7	1989.4	1656.1	1576.9	1550.5	1603.3
25°	6994.3	6772.8	6313.6	4470.5	3040.0	2294.2	1688.6	1503.7	1463.1	1489.5	1550.5
27.5°	7514.6	7455.6	6764.7	4667.6	2895.7	2028.0	1520.0	1398.1	1410.2	1436.7	1493.6
30°	8132.3	7833.6	7201.6	4803.8	2765.6	1845.1	1402.1	1369.6	1381.8	1426.5	1455.0
32.5°	8504.2	8392.4	7475.9	5009.0	2615.3	1686.6	1310.7	1280.2	1298.5	1365.5	1432.6
35°	8977.6	8756.1	7815.3	5061.9	2509.6	1623.6	1245.7	1223.3	1266.0	1312.7	1387.9
37.5°	9530.4	9377.9	8284.7	5025.3	2452.7	1558.6	1190.8	1180.6	1211.1	1276.1	1363.5
40°	9857.5	9810.8	8530.6	5047.6	2363.3	1501.7	1127.8	1140.0	1203.0	1253.8	1339.1
42.5°	10172.5	9867.7	8894.3	5039.5	2306.4	1424.5	1133.9	1119.7	1168.4	1227.4	1308.6
45°	10241.6	9938.8	8979.7	4982.6	2237.3	1349.3	1087.2	1093.2	1152.2	1225.3	1278.2
47.5°	10196.9	9973.3	9138.2	4966.4	2172.3	1296.5	1018.1	1091.2	1125.8	1184.7	1259.9
50°	10166.4	10154.2	9272.3	5043.6	2084.9	1213.1	934.7	1064.8	1099.3	1158.3	1239.6
52.5°	10434.6	10408.2	9607.6	5246.8	2015.8	1123.7	849.4	997.7	1081.1	1138.0	1217.2
55°	10597.2	10481.4	10182.6	5496.7	1900.0	1005.9	790.5	914.4	1036.3	1087.2	1168.4
57.5°	9532.4	9453.1	9211.3	5130.9	1704.9	851.4	717.3	829.1	975.4	1054.6	1138.0
60°	7931.1	7807.2	7187.4	4360.8	1257.8	662.5	672.6	762.0	959.1	989.6	1087.2
62.5°	7478.0	7171.1	6327.8	3509.4	965.2	569.0	603.5	701.1	873.8	924.6	1022.1
65°	5933.6	5706.0	4527.4	2534.0	646.2	493.8	550.7	632.0	753.9	853.5	942.9
67.5°	3714.6	3497.2	2416.1	1198.9	451.1	422.7	491.8	577.1	676.7	766.1	865.7
70°	1940.6	1702.9	1115.6	432.8	310.9	345.4	410.5	491.8	589.3	662.5	739.7
72.5°	723.4	587.3	363.7	186.9	215.4	264.2	333.3	392.2	461.3	550.7	593.4
75°	111.8	95.5	93.5	113.8	146.3	191.0	237.8	296.7	357.6	414.5	443.0
77.5°	52.8	50.8	56.9	75.2	97.5	136.1	172.7	229.6	278.4	315.0	331.2
80°	34.5	32.5	36.6	50.8	73.2	101.6	138.2	176.8	221.5	252.0	247.9
82.5°	20.3	22.4	22.4	34.5	50.8	73.2	99.6	134.1	164.6	191.0	174.8
85°	12.2	10.2	10.2	20.3	34.5	58.9	83.3	56.9	58.9	58.9	67.1
87.5°	4.1	4.1	4.1	2.0	4.1	4.1	6.1	10.2	12.2	14.2	18.3
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°	6222.2	6222.2	6222.2	6222.2	6222.2	6222.2	6222.2	6222.2	6222.2	6222.2	6222.2
2.5°	5366.7	5429.7	5407.3	5328.1	5389.0	5399.2	5358.5	5498.7	5525.2	5482.5	5494.7
5°	4350.6	4366.9	4403.5	4480.7	4535.6	4600.6	4600.6	4604.6	4549.8	4688.0	4647.3
7.5°	3389.5	3399.6	3442.3	3606.9	3653.6	3777.6	3830.4	3793.9	3684.1	3637.4	3676.0
10°	2926.2	2867.2	2853.0	2873.3	2979.0	3031.8	3076.5	3064.3	3046.1	3009.5	2968.8
12.5°	2617.3	2574.6	2540.1	2491.3	2497.4	2548.2	2582.7	2554.3	2562.4	2570.6	2582.7
15°	2282.0	2251.5	2233.2	2160.1	2151.9	2186.5	2198.7	2214.9	2245.4	2247.5	2233.2
17.5°	1926.4	1900.0	1940.6	1981.3	1952.8	1954.8	1977.2	1991.4	1983.3	1946.7	1928.4
20°	1682.5	1711.0	1751.6	1790.2	1820.7	1839.0	1847.1	1824.8	1798.4	1723.2	1721.2
22.5°	1611.4	1648.0	1682.5	1741.5	1769.9	1816.7	1774.0	1723.2	1686.6	1650.0	1607.4
25°	1558.6	1589.1	1658.2	1680.5	1735.4	1774.0	1743.5	1692.7	1629.7	1576.9	1544.4
27.5°	1520.0	1554.5	1599.2	1660.2	1702.9	1725.2	1694.7	1674.4	1609.4	1546.4	1499.7
30°	1495.6	1532.2	1613.5	1664.3	1700.8	1719.1	1666.3	1641.9	1595.2	1542.3	1501.7
32.5°	1479.3	1511.9	1580.9	1646.0	1670.4	1670.4	1678.5	1650.0	1585.0	1495.6	1461.0
35°	1426.5	1471.2	1528.1	1603.3	1648.0	1674.4	1633.8	1601.3	1558.6	1467.1	1404.2
37.5°	1396.0	1426.5	1499.7	1570.8	1609.4	1637.8	1621.6	1564.7	1507.8	1432.6	1381.8
40°	1363.5	1412.3	1477.3	1544.4	1587.0	1615.5	1603.3	1536.2	1467.1	1396.0	1361.5
42.5°	1341.2	1373.7	1440.7	1515.9	1566.7	1621.6	1585.0	1501.7	1452.9	1355.4	1316.8
45°	1322.9	1375.7	1446.8	1477.3	1530.1	1587.0	1522.0	1471.2	1414.3	1343.2	1310.7
47.5°	1300.5	1349.3	1396.0	1477.3	1501.7	1528.1	1515.9	1434.6	1385.9	1308.6	1286.3
50°	1292.4	1310.7	1396.0	1440.7	1475.3	1501.7	1469.2	1408.2	1361.5	1282.2	1233.5
52.5°	1259.9	1294.4	1349.3	1408.2	1450.9	1483.4	1430.6	1392.0	1329.0	1245.7	1215.2
55°	1219.2	1239.6	1337.1	1398.1	1420.4	1442.8	1422.4	1359.4	1294.4	1209.1	1178.6
57.5°	1166.4	1213.1	1292.4	1377.7	1406.2	1418.4	1385.9	1335.1	1253.8	1178.6	1129.8
60°	1111.5	1160.3	1247.7	1316.8	1345.2	1389.9	1341.2	1310.7	1217.2	1133.9	1081.1
62.5°	1056.7	1111.5	1176.6	1263.9	1288.3	1306.6	1294.4	1251.7	1176.6	1083.1	1018.1
65°	991.6	1032.3	1113.6	1158.3	1174.5	1217.2	1174.5	1158.3	1091.2	1001.8	946.9
67.5°	894.1	928.7	999.8	1042.4	1054.6	1072.9	1070.9	1052.6	977.4	916.5	867.7
70°	782.3	812.8	857.5	908.3	914.4	936.8	916.5	912.4	863.6	780.3	753.9
72.5°	627.9	656.4	715.3	737.6	739.7	747.8	737.6	723.4	711.2	623.8	597.4
75°	481.6	497.9	526.3	546.6	546.6	556.8	550.7	536.5	504.0	449.1	422.7
77.5°	335.3	351.5	388.1	400.3	398.3	402.3	384.1	369.8	321.1	292.6	270.3
80°	243.8	254.0	272.3	280.4	282.5	288.6	266.2	254.0	225.6	193.0	182.9
82.5°	176.8	182.9	184.9	195.1	195.1	184.9	178.8	166.6	146.3	126.0	117.9
85°	73.2	75.2	77.2	89.4	91.4	109.7	101.6	95.5	83.3	71.1	65.0
87.5°	18.3	20.3	26.4	22.4	26.4	26.4	28.4	32.5	32.5	26.4	26.4
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°	6222.2	6222.2	6222.2	6222.2	6222.2	6222.2	6222.2	6222.2	6222.2	6222.2	6222.2
2.5°	5541.4	5557.7	5764.9	5791.4	5893.0	5996.6	6205.9	6356.3	6478.2	6557.5	6579.8
5°	4690.0	4793.6	4889.1	5043.6	5183.8	5382.9	5612.5	5897.0	6254.7	6437.6	6510.7
7.5°	3671.9	3793.9	3932.0	4082.4	4287.6	4645.3	4952.1	5281.3	5738.5	5927.5	6214.0
10°	2997.3	3133.4	3316.3	3432.1	3680.1	4021.4	4379.1	4759.1	5196.0	5468.3	5799.5
12.5°	2649.8	2761.6	2930.2	3174.1	3359.0	3580.5	3846.7	4326.3	4952.1	5210.2	5437.8
15°	2265.7	2389.7	2584.8	2855.0	3076.5	3340.7	3639.4	4161.7	4828.2	5226.5	5419.5
17.5°	1948.7	2038.2	2243.4	2477.1	2731.1	3019.6	3448.4	4153.5	4958.2	5468.3	5783.2
20°	1729.3	1741.5	1853.2	2052.4	2397.8	2773.8	3330.5	4112.9	5374.8	5884.8	6283.1
22.5°	1591.1	1578.9	1580.9	1749.6	1991.4	2531.9	3145.6	4251.1	5848.3	6547.3	6815.5
25°	1522.0	1489.5	1469.2	1505.8	1725.2	2245.4	3005.4	4434.0	6358.3	7093.9	7423.1
27.5°	1485.4	1428.5	1387.9	1394.0	1554.5	2101.1	2918.0	4513.2	6864.3	7855.9	7971.8
30°	1471.2	1400.1	1341.2	1320.8	1426.5	1900.0	2731.1	4649.3	7317.4	8274.5	8374.1
32.5°	1420.4	1333.0	1276.1	1257.8	1300.5	1723.2	2597.0	4746.9	7717.8	8729.7	8695.2
35°	1361.5	1288.3	1217.2	1182.7	1213.1	1609.4	2489.3	4700.2	8189.2	9083.3	9065.0
37.5°	1355.4	1259.9	1200.9	1144.0	1142.0	1469.2	2343.0	4744.9	8489.9	9717.3	9467.4
40°	1302.5	1241.6	1164.4	1117.6	1091.2	1398.1	2200.7	4639.2	8930.9	9973.3	9727.5
42.5°	1304.6	1213.1	1146.1	1091.2	1064.8	1294.4	2103.2	4610.7	9085.3	10389.9	9849.4
45°	1272.1	1182.7	1125.8	1060.7	1046.5	1215.2	2009.7	4478.7	9357.6	10410.2	9697.0
47.5°	1239.6	1160.3	1099.3	1022.1	989.6	1186.7	1936.6	4368.9	9215.4	10219.2	9485.6
50°	1217.2	1125.8	1068.9	1014.0	922.6	1138.0	1841.0	4342.5	9016.2	9961.1	9093.5
52.5°	1178.6	1097.3	1038.4	995.7	849.4	1093.2	1804.5	4496.9	9260.1	9768.1	8979.7
55°	1142.0	1058.7	983.5	900.2	788.4	975.4	1702.9	4641.2	9615.7	10213.1	9495.8
57.5°	1103.4	1024.2	942.9	843.3	729.5	853.5	1597.2	4667.6	8949.2	9438.9	9014.2
60°	1052.6	951.0	890.0	760.0	666.5	707.2	1266.0	4114.9	6941.5	7882.4	7896.6
62.5°	995.7	886.0	833.1	680.7	601.5	609.6	1032.3	3458.6	5630.8	6524.9	6913.1
65°	920.5	814.9	751.9	629.9	554.8	528.3	755.9	2534.0	4277.5	5293.5	5734.5
67.5°	823.0	723.4	644.2	548.7	495.8	453.1	516.1	1426.5	2525.8	3554.1	3688.2
70°	719.3	634.0	550.7	471.4	412.5	382.0	378.0	632.0	1207.0	1912.2	2176.3
72.5°	566.9	506.0	438.9	380.0	341.4	296.7	270.3	262.1	408.4	778.3	1075.0
75°	406.4	355.6	317.0	278.4	249.9	225.6	205.2	186.9	170.7	195.1	268.2
77.5°	256.0	237.8	207.3	197.1	180.9	174.8	166.6	156.5	144.3	136.1	136.1
80°	172.7	160.5	150.4	148.3	142.2	140.2	142.2	132.1	119.9	109.7	113.8
82.5°	115.8	113.8	111.8	109.7	111.8	113.8	117.9	115.8	105.7	99.6	101.6
85°	69.1	73.2	77.2	81.3	89.4	79.3	65.0	54.9	48.8	44.7	42.7
87.5°	26.4	36.6	32.5	30.5	32.5	30.5	28.4	26.4	22.4	20.3	20.3
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°	6222.2	6222.2	6222.2	6222.2	6222.2	6222.2	6222.2	6222.2	6222.2	6222.2
2.5°	6728.1	6768.8	6803.3	6795.2	6724.1	6628.6	6590.0	6392.9	6352.2	6325.8
5°	6819.6	7055.3	7106.1	7075.6	6890.7	6657.0	6429.4	6140.9	5972.2	5966.1
7.5°	6650.9	6941.5	7033.0	7102.0	6856.2	6449.8	6059.6	5626.8	5521.1	5529.2
10°	6222.2	6685.5	6911.0	6982.2	6699.7	6348.1	5807.6	5368.7	5143.1	5139.1
12.5°	5984.4	6348.1	6411.1	6510.7	6427.4	6071.8	5661.3	5169.6	4950.1	4946.0
15°	5773.1	6012.9	6031.1	6171.4	6216.1	5976.3	5699.9	5175.7	4998.9	4980.6
17.5°	5958.0	5791.4	5722.3	5740.6	5872.6	5960.0	5923.4	5521.1	5340.2	5238.6
20°	6082.0	5710.1	5500.8	5521.1	5677.6	5996.6	6256.7	6021.0	5734.5	5746.7
22.5°	6413.2	5722.3	5395.1	5372.8	5620.7	6187.6	6632.6	6653.0	6376.6	6309.5
25°	6909.0	5862.5	5362.6	5356.5	5594.3	6392.9	7071.6	7400.8	7118.3	6994.3
27.5°	7307.3	6082.0	5464.2	5484.5	5677.6	6559.5	7445.5	7882.4	7667.0	7514.6
30°	7656.8	6309.5	5606.4	5513.0	5901.1	6646.9	7606.0	8431.0	8258.3	8132.3
32.5°	7801.1	6632.6	5832.0	5677.6	6086.0	6752.5	7939.3	8963.4	8815.1	8504.2
35°	8044.9	6813.5	5953.9	5941.7	6409.1	7006.5	8095.7	9315.0	9254.0	8977.6
37.5°	8240.0	6996.4	6386.8	6252.6	6852.1	7433.3	8347.7	9800.6	9660.4	9530.4
40°	8390.4	7323.5	6791.1	6967.9	7396.7	7821.4	8579.3	9831.1	10235.5	9857.5
42.5°	8252.2	7616.2	7455.6	7878.3	8284.7	8264.4	8605.8	10066.8	10369.6	10172.5
45°	8217.6	8112.0	8506.2	8890.3	8983.7	8632.2	8416.8	9806.7	10329.0	10241.6
47.5°	8134.3	8599.7	9286.5	9912.4	9770.1	8878.1	8191.2	9760.0	10353.3	10196.9
50°	8105.9	8705.3	9863.6	10473.2	10387.9	9091.4	8085.6	9459.2	10180.6	10166.4
52.5°	8103.8	8922.8	10103.4	10778.0	10830.9	9428.7	8229.8	9611.6	10314.7	10434.6
55°	8195.3	8853.7	10072.9	10609.4	10589.1	9278.4	8246.1	9713.2	10479.3	10597.2
57.5°	7729.9	7931.1	8313.2	8737.9	8628.1	7685.2	7364.2	8979.7	9617.7	9532.4
60°	6675.3	6045.4	5614.6	5594.3	5380.9	5086.2	6027.1	8014.4	8014.4	7931.1
62.5°	5846.2	3968.6	3409.8	3251.3	3403.7	3743.1	5813.7	7795.0	7573.5	7478.0
65°	5112.7	3029.8	2464.9	2420.2	2684.3	3196.4	5256.9	6640.8	6250.6	5933.6
67.5°	3289.9	2219.0	1832.9	1753.7	2072.7	2347.0	3499.2	4084.4	3838.6	3714.6
70°	2121.5	1444.8	1020.1	957.1	1081.1	1446.8	2235.3	2381.6	2023.9	1940.6
72.5°	1003.8	623.8	357.6	294.6	331.2	552.7	883.9	951.0	790.5	723.4
75°	319.0	229.6	146.3	126.0	119.9	142.2	203.2	156.5	113.8	111.8
77.5°	142.2	136.1	115.8	97.5	85.3	71.1	58.9	48.8	50.8	52.8
80°	117.9	107.7	95.5	85.3	71.1	54.9	42.7	32.5	32.5	34.5
82.5°	103.6	93.5	83.3	71.1	61.0	44.7	32.5	22.4	20.3	20.3
85°	44.7	52.8	56.9	61.0	48.8	36.6	22.4	14.2	12.2	12.2
87.5°	18.3	16.3	14.2	12.2	10.2	10.2	8.1	6.1	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)