

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: P529042

Luminaire Tested: **GALN-SA4A-830-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529042
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-24)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4A-830-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10707 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 121
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

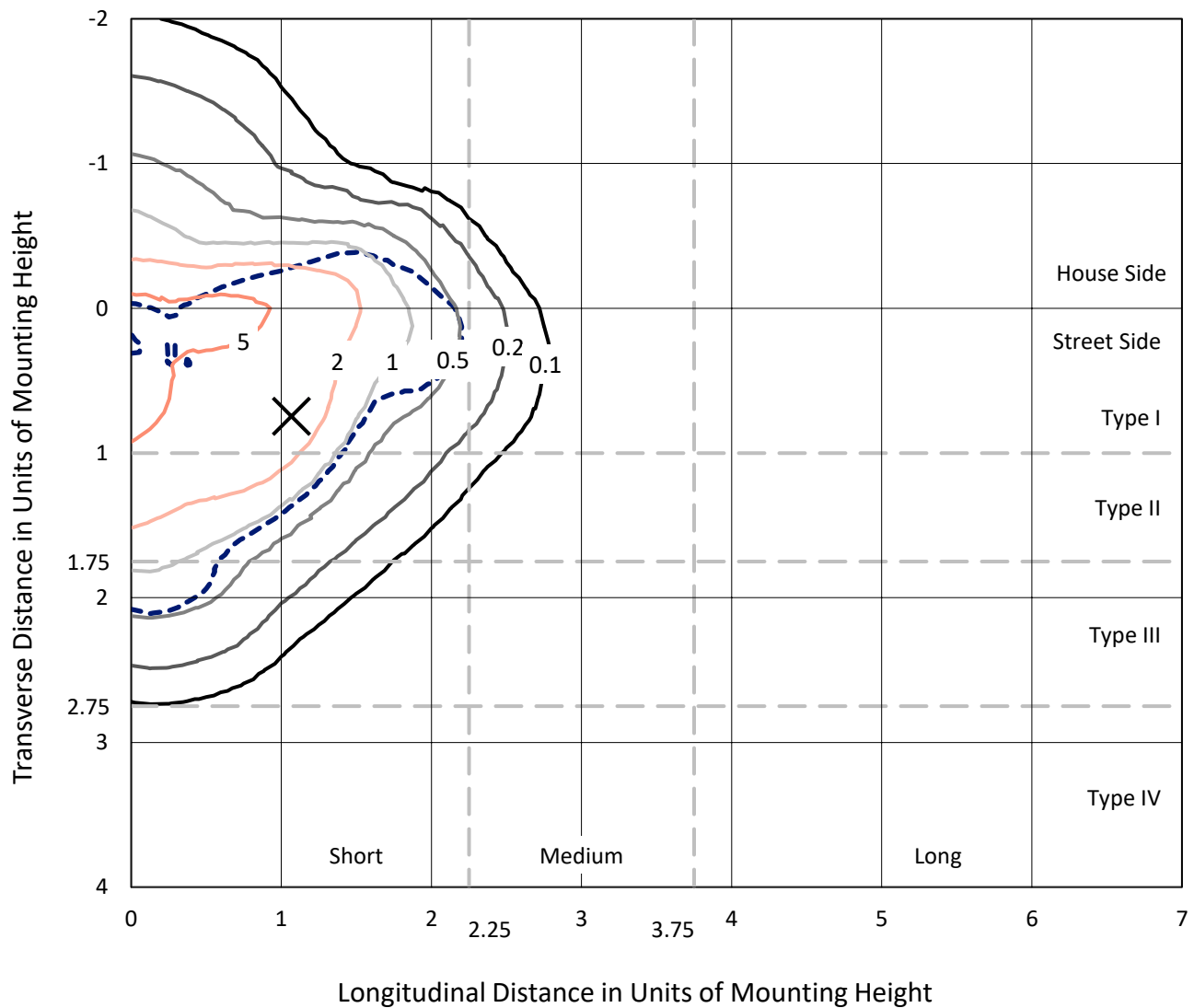


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

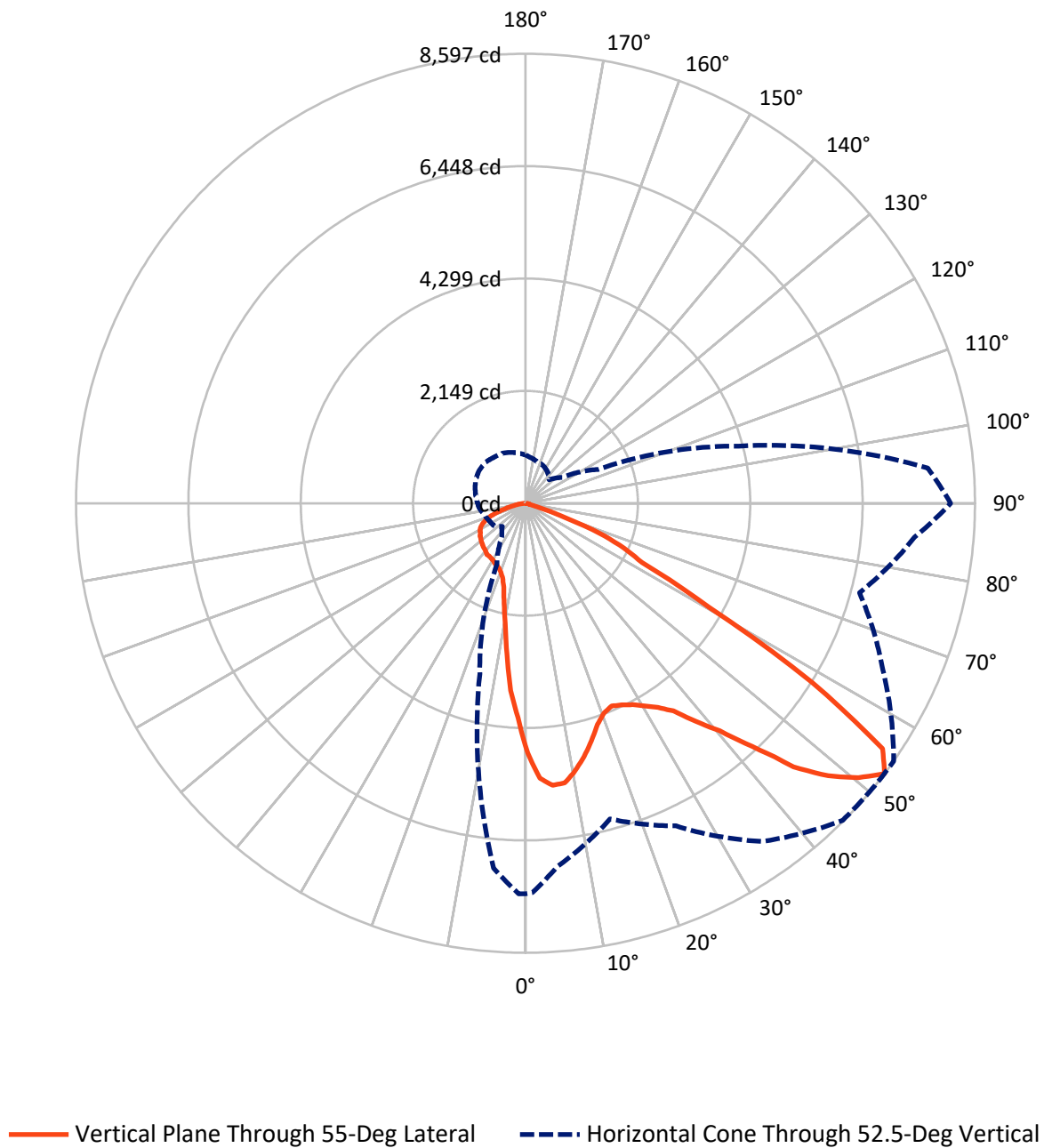


Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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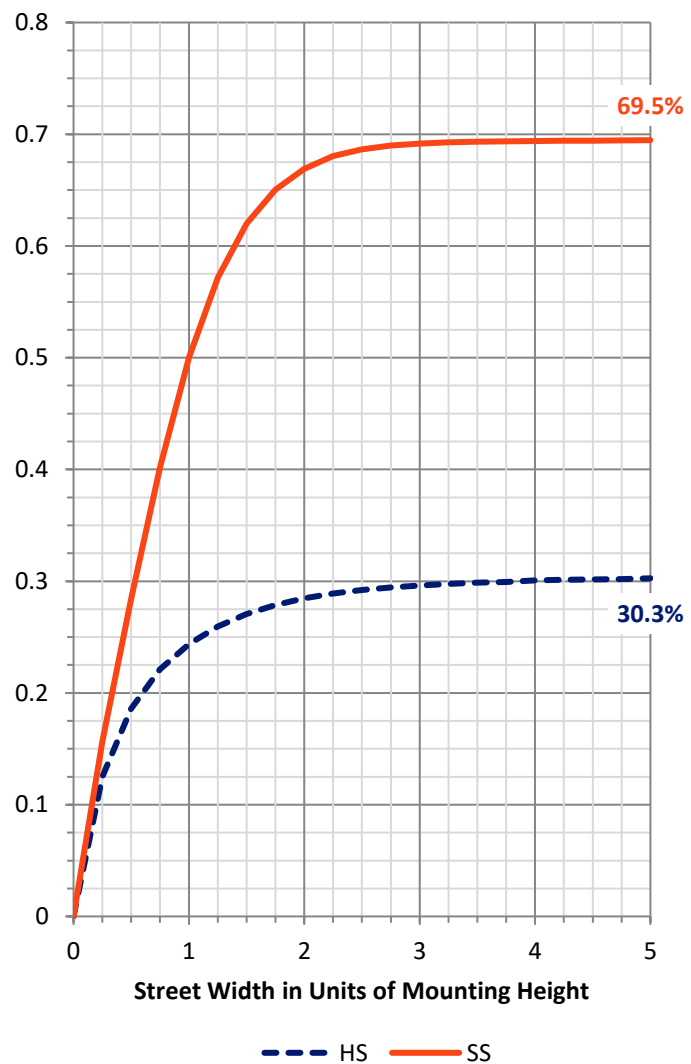
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3266.2	0.0	3266.2
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	7440.8	0.0	7440.8
	% Fixture	69.5	0.0	69.5
Total	Lumens	10707.0	0.0	10707.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.9	3.4
10°-20°	786.7	7.3
20°-30°	1193.0	11.1
30°-40°	1723.7	16.1
40°-50°	2303.3	21.5
50°-60°	2571.0	24.0
60°-70°	1410.3	13.2
70°-80°	304.9	2.8
80°-90°	49.3	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°	10707.0	100.0
0°-180°	10707.0	100.0

Coefficient of Utilization



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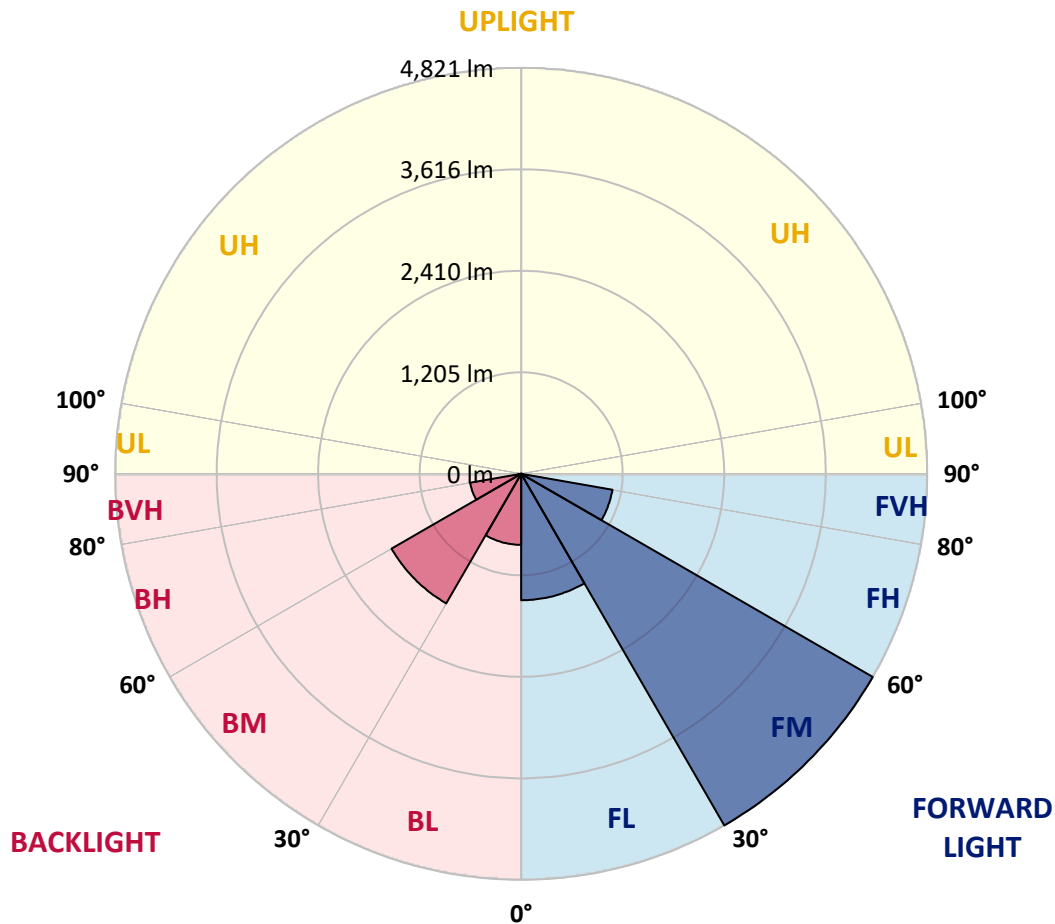
CATALOG NUMBER: GALN-SA4A-830-U-SLL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1501.3	14.0			
FM	(30°-60°)	4820.8	45.0			
FH	(60°-80°)	1100.4	10.3			G1/1800
FVH	(80°-90°)	18.3	0.2			G1/100
BL	(0°-30°)	843.3	7.9	B2/1000		
BM	(30°-60°)	1777.1	16.6	B2/2500		
BH	(60°-80°)	614.8	5.7	B2/1000		G2/1000
BVH	(80°-90°)	31.1	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4776.2	4776.2	4776.2	4776.2	4776.2	4776.2	4776.2	4776.2	4776.2	4776.2	4776.2
2.5°	5012.2	4984.1	5009.1	5127.9	5196.7	5243.6	5273.3	5268.6	5156.1	5046.6	5046.6
5°	4865.3	4829.3	4880.9	5149.8	5420.3	5443.7	5482.8	5418.7	5253.0	5052.9	4802.7
7.5°	4440.0	4466.6	4552.6	4905.9	5257.7	5434.3	5481.2	5399.9	5131.0	4757.4	4390.0
10°	4072.6	4135.2	4333.7	4715.2	5038.8	5268.6	5320.2	5206.1	4993.5	4535.4	4207.1
12.5°	3946.0	3906.9	4127.3	4508.8	4818.4	4941.9	4965.3	4973.1	4829.3	4422.8	4022.6
15°	3930.4	3955.4	4127.3	4416.6	4607.3	4613.6	4652.6	4713.6	4732.4	4499.4	4108.6
17.5°	4155.5	4125.8	4302.4	4532.3	4441.6	4350.9	4360.3	4447.8	4602.6	4565.1	4379.0
20°	4488.5	4555.7	4694.9	4671.4	4427.5	4197.7	4199.3	4282.1	4587.0	4837.1	4755.8
22.5°	5041.9	5107.6	5210.8	4927.8	4427.5	4152.4	4099.2	4211.8	4687.0	5160.7	5181.1
25°	5546.9	5667.3	5695.4	5362.4	4649.5	4194.6	4160.2	4271.2	4787.1	5476.5	5668.8
27.5°	6006.5	6050.3	6173.8	5642.3	4773.0	4222.7	4219.6	4361.9	4913.7	5634.5	6105.0
30°	6369.2	6364.6	6434.9	5818.9	4970.0	4380.6	4229.0	4497.9	5079.4	5895.5	6508.4
32.5°	6616.3	6669.4	6817.9	6064.4	5052.9	4530.7	4411.9	4657.3	5281.1	6019.0	6792.9
35°	7050.9	7143.1	6955.5	6200.4	5315.5	4679.2	4540.1	4874.6	5381.2	6153.5	7141.6
37.5°	7460.5	7390.1	7199.4	6273.9	5485.9	4954.4	4824.6	5295.2	5692.3	6445.8	7372.9
40°	7723.1	7721.6	7382.3	6333.3	5606.3	5374.9	5367.1	5722.0	6073.8	6630.3	7632.5
42.5°	7837.3	7946.7	7457.4	6327.0	5859.6	5884.6	6042.5	6359.9	6344.2	6667.8	7626.2
44°	7993.6	8059.3	7587.1	6341.1	6028.4	6228.5	6600.6	6802.3	6580.3	6647.5	7618.4
45°	7987.3	7992.0	7402.6	6359.9	6172.3	6516.2	6849.2	7190.0	6788.2	6603.8	7721.6
47.5°	7804.4	7751.3	7246.3	6220.7	6620.9	7276.0	7584.0	7790.4	7044.6	6509.9	7593.4
50°	7443.3	7382.3	6866.4	6161.3	6714.8	7748.2	8173.4	8248.4	7277.6	6417.7	7466.7
52.5°	7468.3	7451.1	6974.3	6250.4	6808.6	7896.7	8578.3	8597.1	7541.8	6611.6	7468.3
55°	7915.4	7856.0	7283.8	6361.4	6739.8	7723.1	8320.4	8287.5	7452.7	6494.3	7605.9
57.5°	7243.2	7282.3	6855.5	5922.1	5898.7	6278.6	6541.2	6459.9	6219.2	5861.1	7075.9
60°	5843.9	5954.9	5995.6	4952.8	4451.0	4255.5	4177.4	4033.5	4074.2	4815.2	6216.0
62.5°	5012.2	5006.0	5260.8	4490.1	2915.7	2507.7	2470.2	2503.0	2972.0	4740.2	6087.8
65°	3974.1	4080.4	4158.6	3805.3	2307.6	1862.0	1860.4	2068.4	2571.8	3961.6	4915.3
67.5°	2523.3	2662.4	2759.4	2434.2	1543.1	1325.8	1289.8	1539.9	1782.3	2598.4	2959.5
70°	1422.7	1488.3	1532.1	1403.9	981.8	687.9	647.2	706.7	1077.2	1682.2	1754.1
72.5°	548.7	578.5	637.9	642.6	370.5	222.0	179.8	215.7	453.4	666.0	634.7
75°	84.4	90.7	128.2	153.2	106.3	81.3	86.0	89.1	126.6	172.0	143.8
77.5°	40.6	40.6	39.1	45.3	53.2	57.8	62.5	68.8	75.0	82.9	79.7
80°	26.6	26.6	26.6	31.3	39.1	46.9	53.2	56.3	59.4	65.7	62.5
82.5°	17.2	17.2	17.2	23.5	31.3	39.1	42.2	50.0	56.3	65.7	61.0
85°	9.4	9.4	9.4	15.6	23.5	32.8	31.3	25.0	14.1	1.6	3.1
87.5°	3.1	3.1	3.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4776.2	4776.2	4776.2	4776.2	4776.2	4776.2	4776.2	4776.2	4776.2	4776.2	4776.2
2.5°	4915.3	4843.4	4837.1	4690.2	4558.8	4494.7	4443.1	4299.3	4330.6	4247.7	4246.2
5°	4677.7	4530.7	4293.1	4097.6	3902.2	3863.1	3692.7	3544.2	3548.9	3442.6	3461.3
7.5°	4250.9	4149.2	3860.0	3553.6	3294.1	3109.6	2948.5	2851.6	2728.1	2685.9	2664.0
10°	3980.4	3855.3	3530.1	3145.5	2854.7	2756.3	2601.5	2515.5	2388.9	2326.3	2282.5
12.5°	3861.6	3678.7	3272.2	2881.3	2687.5	2585.8	2454.5	2298.2	2148.1	2090.2	2010.5
15°	3874.1	3655.2	3197.1	2775.0	2542.1	2345.1	2227.8	2054.3	1901.1	1799.5	1741.6
17.5°	4063.2	3797.5	3231.5	2693.7	2359.2	2112.1	1882.3	1694.7	1572.8	1496.2	1477.4
20°	4510.4	4149.2	3289.4	2562.4	2176.2	1868.2	1585.3	1389.9	1296.0	1294.5	1296.0
22.5°	4882.5	4524.4	3406.6	2484.2	1993.3	1555.6	1274.2	1211.6	1192.9	1231.9	1236.6
25°	5384.3	4946.6	3608.3	2443.6	1824.5	1325.8	1152.2	1128.8	1127.2	1177.2	1178.8
27.5°	5898.7	5315.5	3728.7	2324.8	1652.5	1206.9	1078.7	1074.0	1099.1	1152.2	1147.5
30°	6248.9	5625.1	3946.0	2182.5	1449.3	1102.2	1049.0	1055.3	1089.7	1130.3	1136.6
32.5°	6656.9	5929.9	4002.3	2104.3	1324.2	1014.6	977.1	991.2	1035.0	1099.1	1133.5
35°	7124.4	6145.7	4088.3	1998.0	1277.3	947.4	928.7	944.3	997.4	1039.7	1077.2
37.5°	7469.9	6527.1	4103.9	1915.2	1225.7	909.9	880.2	931.8	963.0	1022.5	1041.2
40°	7726.3	6803.9	4144.5	1863.6	1185.0	861.4	861.4	895.8	938.0	992.8	1030.3
42.5°	7890.4	7005.5	4174.2	1816.7	1106.9	847.4	839.5	873.9	930.2	983.4	1000.6
44°	7990.5	7091.5	4144.5	1772.9	1085.0	830.2	830.2	859.9	903.6	966.2	986.5
45°	8015.5	7199.4	4078.9	1771.3	1058.4	809.8	806.7	863.0	892.7	969.3	981.8
47.5°	8112.4	7332.3	4086.7	1721.3	994.3	761.4	816.1	841.1	867.7	934.9	977.1
50°	8109.3	7415.1	4069.5	1647.8	947.4	706.7	797.3	825.5	852.0	920.8	938.0
52.5°	8131.2	7724.7	4227.4	1530.6	863.0	636.3	734.8	797.3	830.2	888.0	924.0
55°	8120.2	7901.4	4383.7	1443.0	744.2	594.1	681.6	755.1	802.0	863.0	880.2
57.5°	7416.7	6983.7	4057.0	1278.9	616.0	544.1	606.6	711.3	770.8	833.3	855.2
60°	6059.7	5382.7	3345.7	941.2	506.5	500.3	564.4	697.3	722.3	777.0	814.5
62.5°	5600.1	4721.4	2653.1	719.2	433.1	458.1	520.6	630.0	669.1	736.4	770.8
65°	4382.2	3136.2	1643.1	486.2	381.5	411.2	470.6	551.9	616.0	678.5	719.2
67.5°	2595.2	1713.5	813.0	340.8	333.0	364.3	425.2	486.2	559.7	628.5	648.8
70°	1413.3	842.7	347.1	259.5	283.0	311.1	370.5	412.7	483.1	536.2	570.6
72.5°	453.4	256.4	173.5	192.3	215.7	248.6	284.5	336.1	386.2	417.4	445.6
75°	109.4	107.9	123.5	134.5	156.3	181.4	211.1	237.6	276.7	306.4	331.4
77.5°	76.6	82.9	95.4	111.0	118.8	128.2	147.0	167.3	184.5	206.4	222.0
80°	59.4	64.1	73.5	81.3	89.1	96.9	106.3	114.1	125.1	139.1	147.0
82.5°	56.3	59.4	68.8	73.5	70.4	68.8	75.0	78.2	79.7	84.4	89.1
85°	4.7	0.0	3.1	10.9	26.6	39.1	42.2	42.2	40.6	43.8	43.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	6.3	4.7
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	4776.2	4776.2	4776.2	4776.2	4776.2	4776.2	4776.2	4776.2	4776.2	4776.2	4776.2
2.5°	4227.4	4174.2	4194.6	4219.6	4183.6	4100.8	4122.7	4113.3	4197.7	4191.4	4275.9
5°	3544.2	3461.3	3470.7	3592.7	3553.6	3595.8	3511.4	3500.4	3516.1	3523.9	3537.9
7.5°	2712.5	2701.5	2795.3	2898.5	2947.0	2897.0	2814.1	2795.3	2778.1	2743.7	2821.9
10°	2213.8	2216.9	2210.6	2288.8	2343.5	2332.6	2282.5	2276.3	2243.5	2231.0	2274.7
12.5°	1976.1	1933.9	1913.6	1888.6	1930.8	1958.9	1937.0	1921.4	1923.0	1938.6	1944.9
15°	1746.3	1719.7	1676.0	1647.8	1668.1	1654.1	1646.2	1677.5	1669.7	1666.6	1704.1
17.5°	1488.3	1510.2	1507.1	1475.8	1502.4	1491.5	1489.9	1468.0	1438.3	1416.4	1428.9
20°	1317.9	1358.6	1389.9	1391.4	1405.5	1403.9	1380.5	1313.2	1291.4	1286.7	1289.8
22.5°	1257.0	1278.9	1316.4	1369.5	1369.5	1344.5	1316.4	1238.2	1217.9	1196.0	1186.6
25°	1208.5	1250.7	1299.2	1305.4	1330.4	1307.0	1261.7	1222.6	1180.4	1150.7	1150.7
27.5°	1183.5	1230.4	1266.3	1277.3	1311.7	1292.9	1246.0	1196.0	1146.0	1144.4	1117.8
30°	1172.5	1216.3	1239.8	1266.3	1282.0	1252.3	1238.2	1185.0	1135.0	1122.5	1078.7
32.5°	1139.7	1202.2	1246.0	1239.8	1252.3	1239.8	1219.4	1175.7	1119.4	1091.2	1086.6
35°	1102.2	1164.7	1211.6	1244.5	1252.3	1225.7	1213.2	1153.8	1077.2	1063.1	1014.6
37.5°	1081.9	1119.4	1177.2	1230.4	1241.3	1227.3	1185.0	1124.1	1047.5	1031.8	989.6
40°	1056.9	1105.3	1150.7	1194.4	1227.3	1192.9	1144.4	1085.0	1050.6	1003.7	991.2
42.5°	1038.1	1092.8	1130.3	1178.8	1216.3	1171.0	1114.7	1074.0	1025.6	994.3	958.4
44°	1031.8	1081.9	1106.9	1166.3	1197.6	1163.2	1116.3	1074.0	1017.8	989.6	958.4
45°	1009.9	1078.7	1105.3	1158.5	1185.0	1156.9	1097.5	1055.3	1014.6	980.2	947.4
47.5°	988.1	1035.0	1080.3	1122.5	1141.3	1131.9	1081.9	1030.3	981.8	961.5	930.2
50°	981.8	1028.7	1070.9	1110.0	1131.9	1113.1	1067.8	1017.8	961.5	928.7	902.1
52.5°	950.5	1008.4	1055.3	1067.8	1095.9	1085.0	1050.6	995.9	942.7	914.6	892.7
55°	905.2	966.2	1030.3	1045.9	1086.6	1069.4	1017.8	966.2	920.8	878.6	850.5
57.5°	888.0	947.4	1009.9	1030.3	1055.3	1027.1	1014.6	959.9	888.0	866.1	822.3
60°	844.2	919.3	970.9	1017.8	1019.3	1011.5	989.6	927.1	867.7	827.0	795.8
62.5°	809.8	880.2	920.8	964.6	991.2	969.3	947.4	889.6	825.5	780.1	744.2
65°	759.8	823.9	858.3	884.9	914.6	911.5	873.9	831.7	764.5	728.5	694.1
67.5°	683.2	739.5	786.4	811.4	830.2	825.5	797.3	767.6	698.8	662.9	637.9
70°	591.0	648.8	678.5	692.6	711.3	720.7	698.8	684.8	623.8	576.9	553.4
72.5°	475.3	512.8	556.6	569.1	576.9	583.1	583.1	570.6	508.1	489.3	448.7
75°	350.2	379.9	412.7	412.7	426.8	428.4	431.5	423.7	376.8	351.8	342.4
77.5°	237.6	259.5	286.1	297.0	306.4	304.9	303.3	281.4	256.4	245.5	236.1
80°	154.8	176.7	189.2	203.2	212.6	211.1	214.2	198.6	187.6	168.8	172.0
82.5°	92.2	109.4	121.9	139.1	139.1	143.8	143.8	139.1	128.2	118.8	118.8
85°	43.8	57.8	65.7	76.6	82.9	84.4	75.0	64.1	53.2	48.5	53.2
87.5°	7.8	10.9	15.6	14.1	17.2	15.6	15.6	15.6	15.6	12.5	14.1
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°	4776.2	4776.2	4776.2	4776.2	4776.2	4776.2	4776.2	4776.2	4776.2	4776.2
2.5°	4244.6	4322.8	4377.5	4468.2	4624.5	4749.6	4877.8	4973.1	4984.1	5012.2
5°	3589.5	3631.8	3770.9	3952.2	4080.4	4291.5	4427.5	4674.5	4766.8	4865.3
7.5°	2803.2	2871.9	3058.0	3179.9	3461.3	3725.6	3999.1	4304.0	4426.0	4440.0
10°	2363.8	2463.9	2590.5	2786.0	2939.2	3233.1	3573.9	3913.2	4049.2	4072.6
12.5°	2076.2	2204.4	2373.2	2513.9	2660.9	2917.3	3244.0	3663.0	3839.7	3946.0
15°	1799.5	1932.3	2118.4	2313.8	2443.6	2750.0	3134.6	3606.7	3836.6	3930.4
17.5°	1514.9	1638.4	1791.6	2002.7	2263.8	2607.7	3117.4	3794.3	4046.0	4155.5
20°	1271.0	1339.8	1518.0	1735.4	2062.1	2462.3	3123.6	4071.1	4440.0	4488.5
22.5°	1175.7	1191.3	1261.7	1461.8	1819.8	2313.8	3234.6	4463.5	4882.5	5041.9
25°	1102.2	1099.1	1117.8	1252.3	1643.1	2256.0	3344.1	4824.6	5373.4	5546.9
27.5°	1061.5	1030.3	1031.8	1158.5	1518.0	2162.2	3484.8	5238.9	5929.9	6006.5
30°	1041.2	1035.0	1016.2	1067.8	1382.0	2021.5	3508.2	5647.0	6258.2	6369.2
32.5°	1028.7	967.7	944.3	963.0	1253.8	1868.2	3595.8	5915.9	6664.7	6616.3
35°	966.2	911.5	895.8	914.6	1163.2	1782.3	3537.9	6150.4	6969.6	7050.9
37.5°	942.7	894.3	863.0	847.4	1078.7	1710.3	3508.2	6511.5	7265.1	7460.5
40°	920.8	869.2	831.7	816.1	1013.1	1615.0	3498.9	6789.8	7605.9	7723.1
42.5°	895.8	863.0	820.8	792.6	933.3	1519.6	3391.0	6875.8	7710.6	7837.3
44°	888.0	838.0	794.2	784.8	902.1	1471.1	3369.1	6953.9	7801.3	7993.6
45°	880.2	833.3	783.3	770.8	891.1	1444.6	3339.4	6972.7	7951.4	7987.3
47.5°	858.3	828.6	780.1	745.7	867.7	1386.7	3250.3	6866.4	7798.2	7804.4
50°	841.1	806.7	756.7	689.5	836.4	1338.3	3290.9	6827.3	7429.2	7443.3
52.5°	822.3	770.8	742.6	626.9	784.8	1297.6	3376.9	7004.0	7471.4	7468.3
55°	800.5	744.2	675.4	573.8	698.8	1246.0	3584.8	7352.6	7862.3	7915.4
57.5°	766.1	717.6	619.1	526.9	600.3	1147.5	3517.6	6685.0	7233.8	7243.2
60°	720.7	675.4	561.3	490.9	492.5	905.2	3145.5	5209.2	5707.9	5843.9
62.5°	676.9	651.9	512.8	439.3	419.0	720.7	2659.3	4329.0	4899.7	5012.2
65°	625.4	564.4	470.6	400.2	359.6	505.0	1883.9	3234.6	3822.5	3974.1
67.5°	559.7	494.0	414.3	351.8	308.0	337.7	972.4	1838.5	2434.2	2523.3
70°	489.3	428.4	348.6	297.0	248.6	232.9	428.4	877.1	1330.4	1422.7
72.5°	401.8	345.5	278.3	234.5	186.0	161.0	143.8	234.5	472.1	548.7
75°	290.8	251.7	209.5	167.3	131.3	103.2	84.4	70.4	78.2	84.4
77.5°	214.2	182.9	154.8	118.8	92.2	73.5	57.8	43.8	42.2	40.6
80°	167.3	148.5	123.5	95.4	71.9	54.7	40.6	29.7	26.6	26.6
82.5°	131.3	121.9	101.6	78.2	59.4	43.8	29.7	20.3	17.2	17.2
85°	50.0	50.0	73.5	64.1	45.3	31.3	20.3	10.9	9.4	9.4
87.5°	12.5	12.5	12.5	12.5	10.9	9.4	9.4	4.7	3.1	3.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)