

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: P648325

Luminaire Tested: **GALN-SA3B-835-U-SLL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648325  
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-SA3B-835-U-SLL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3500K, 800mA 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: 9905.7 lumens  
Efficiency: N/A  
Efficacy: 81.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

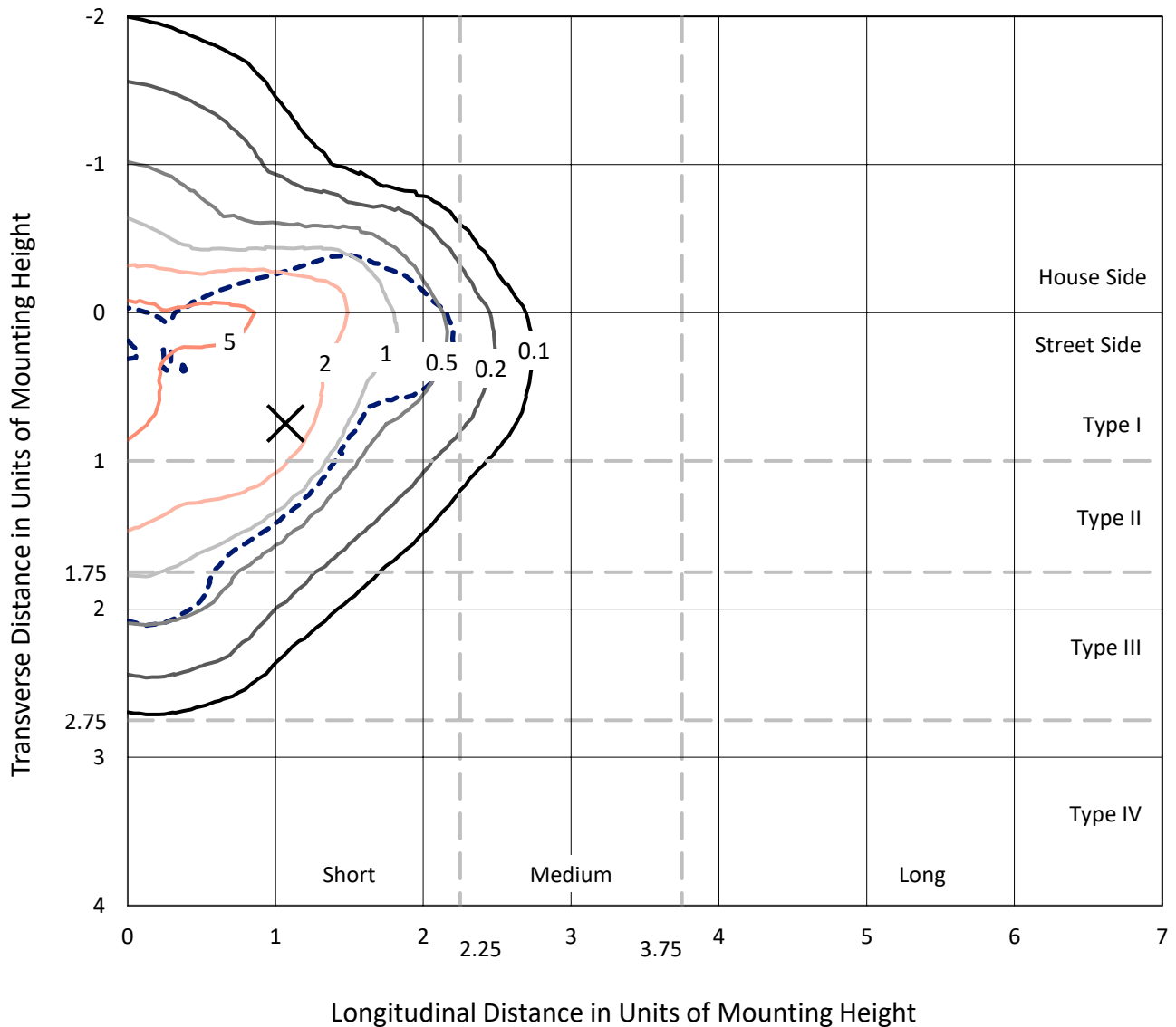
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

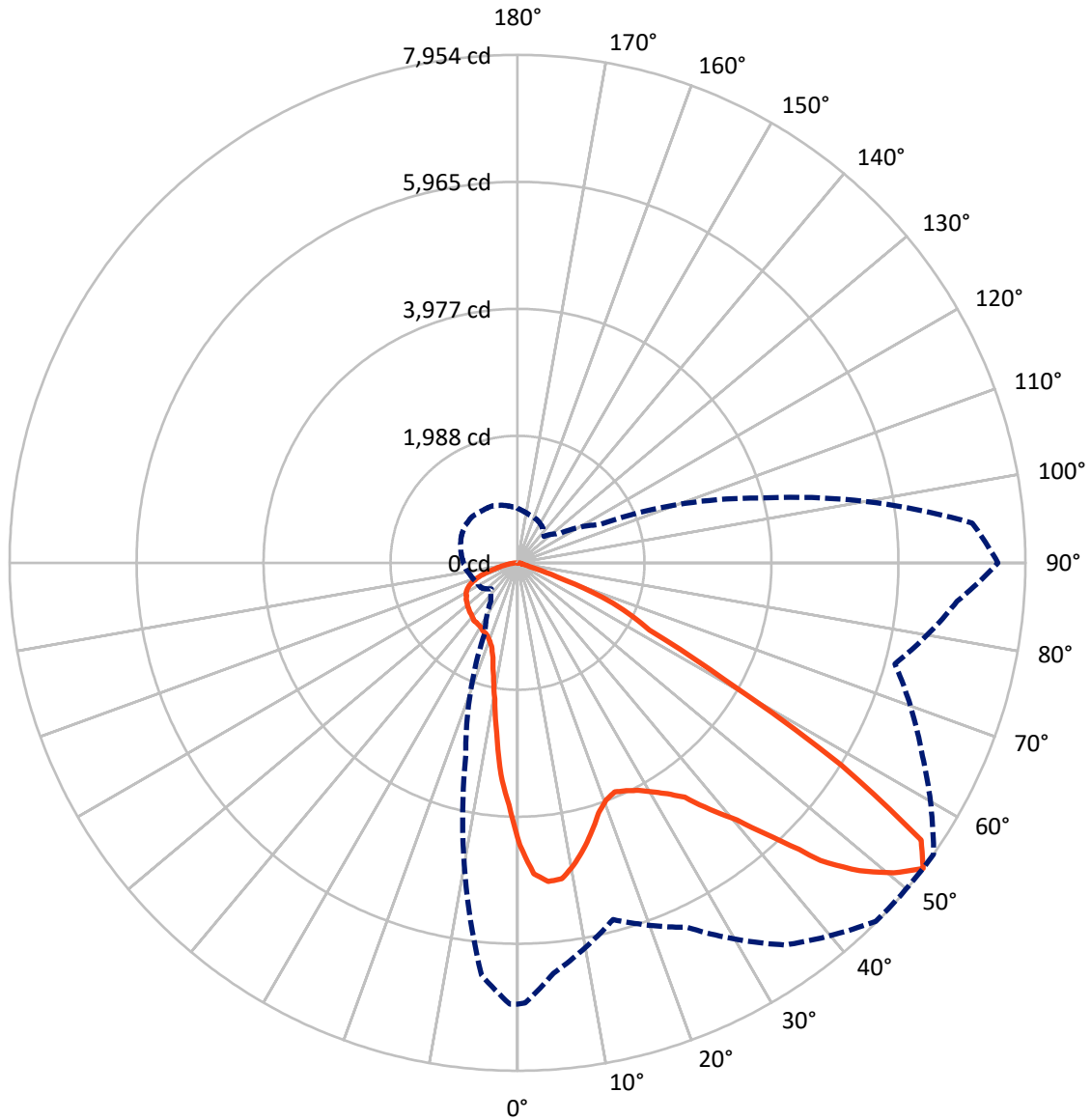
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 52.5-Deg Vertical

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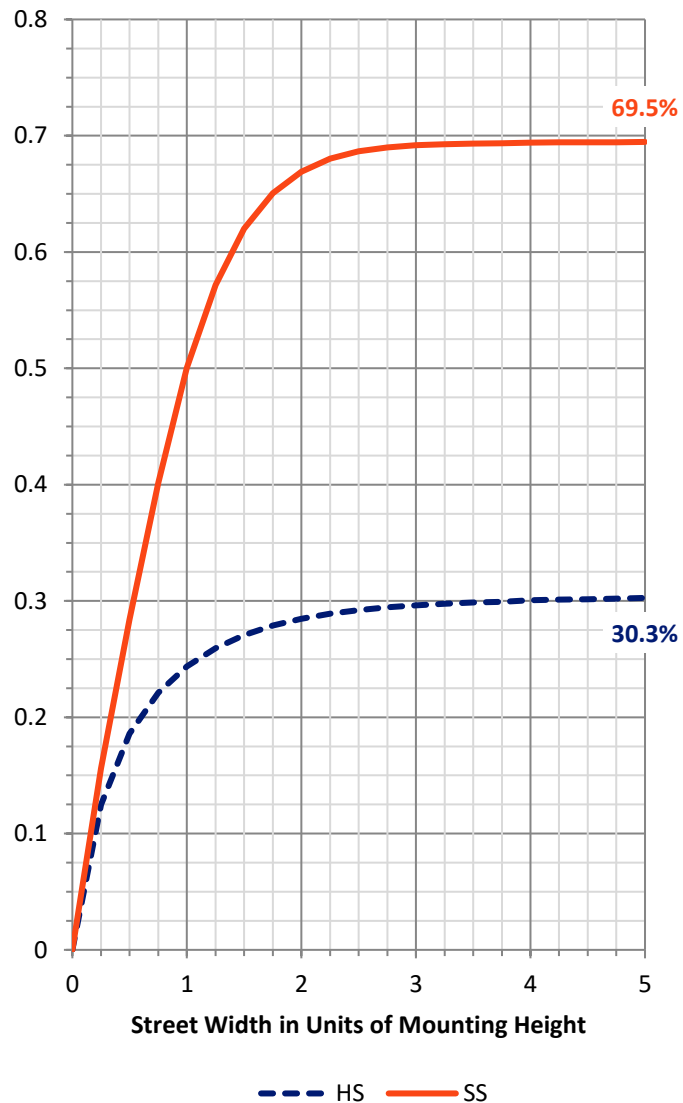
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3021.8	0.0	3021.8
	% Fixture	30.5	0.0	30.5
<b>Street Side</b>	Lumens	6883.9	0.0	6883.9
	% Fixture	69.5	0.0	69.5
<b>Total</b>	Lumens	9905.7	0.0	9905.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	337.6	3.4
10°-20°	727.9	7.3
20°-30°	1103.7	11.1
30°-40°	1594.7	16.1
40°-50°	2130.9	21.5
50°-60°	2378.6	24.0
60°-70°	1304.7	13.2
70°-80°	282.1	2.8
80°-90°	45.6	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°	9905.7	100.0
0°-180°	9905.7	100.0

**Coefficient of Utilization**

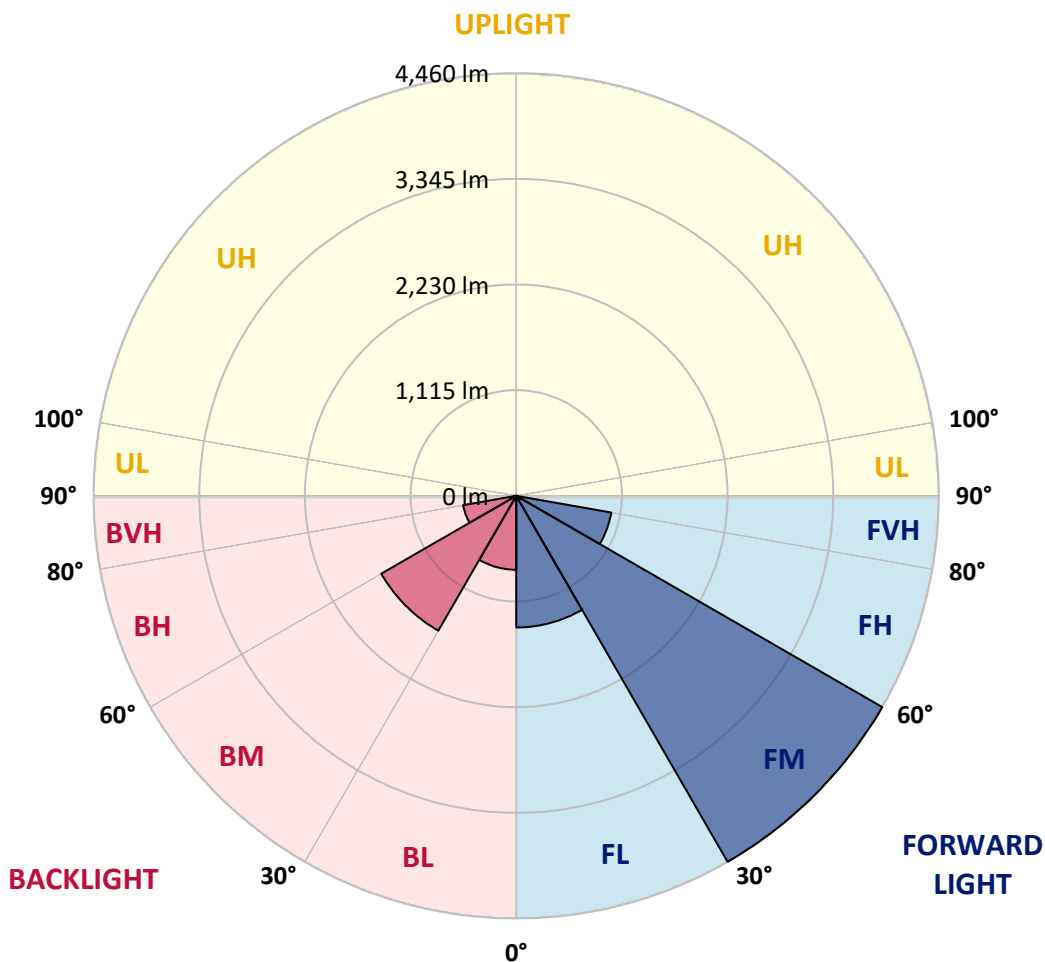


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1389.0	14.0			
FM (30°-60°)	4460.0	45.0			
FH (60°-80°)	1018.1	10.3			G1/1800
FVH (80°-90°)	16.9	0.2			G1/100
BL (0°-30°)	780.2	7.9	B2/1000		
BM (30°-60°)	1644.1	16.6	B2/2500		
BH (60°-80°)	568.8	5.7	B2/1000		G2/1000
BVH (80°-90°)	28.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	4418.7	4418.7	4418.7	4418.7	4418.7	4418.7	4418.7	4418.7	4418.7	4418.7	4418.7
2.5°	4637.2	4611.1	4634.3	4744.2	4807.8	4851.2	4878.6	4874.3	4770.2	4669.0	4669.0
5°	4501.2	4467.9	4515.6	4764.4	5014.6	5036.3	5072.5	5013.2	4859.8	4674.7	4443.3
7.5°	4107.8	4132.4	4211.9	4538.7	4864.2	5027.6	5071.0	4995.9	4747.0	4401.4	4061.5
10°	3767.9	3825.7	4009.4	4362.3	4661.7	4874.3	4922.1	4816.5	4619.8	4195.9	3892.2
12.5°	3650.7	3614.6	3818.5	4171.4	4457.8	4572.0	4593.7	4601.0	4467.9	4091.8	3721.6
15°	3636.3	3659.4	3818.5	4086.1	4262.5	4268.3	4304.5	4360.8	4378.2	4162.7	3801.2
17.5°	3844.5	3817.0	3980.5	4193.1	4109.2	4025.3	4034.0	4115.0	4258.2	4223.4	4051.3
20°	4152.6	4214.8	4343.5	4321.8	4096.2	3883.5	3885.0	3961.7	4243.7	4475.2	4399.9
22.5°	4664.6	4725.3	4820.9	4559.0	4096.2	3841.6	3792.5	3896.6	4336.3	4774.5	4793.4
25°	5131.8	5243.2	5269.2	4961.1	4301.6	3880.7	3848.8	3951.6	4428.9	5066.7	5244.6
27.5°	5557.0	5597.5	5711.8	5220.0	4415.8	3906.7	3903.8	4035.4	4546.0	5212.8	5648.2
30°	5892.6	5888.2	5953.3	5383.4	4598.1	4052.8	3912.5	4161.3	4699.3	5454.3	6021.3
32.5°	6121.1	6170.3	6307.7	5610.6	4674.7	4191.6	4081.7	4308.8	4885.9	5568.6	6284.6
35°	6523.3	6608.5	6435.0	5736.4	4917.7	4329.1	4200.3	4509.8	4978.5	5693.0	6607.1
37.5°	6902.1	6837.1	6660.6	5804.4	5075.4	4583.6	4463.6	4898.9	5266.3	5963.5	6821.2
40°	7145.2	7143.7	6829.9	5859.3	5186.7	4972.7	4965.5	5293.8	5619.2	6134.2	7061.3
42.5°	7250.7	7352.0	6899.2	5853.6	5421.1	5444.2	5590.3	5883.9	5869.4	6168.9	7055.5
44°	7395.4	7456.1	7019.4	5866.5	5577.3	5762.4	6106.7	6293.3	6087.8	6150.1	7048.3
45°	7389.6	7393.9	6848.7	5883.9	5710.3	6028.6	6336.7	6652.0	6280.2	6109.6	7143.7
47.5°	7220.4	7171.2	6704.0	5755.2	6125.5	6731.5	7016.5	7207.4	6517.5	6022.8	7025.2
50°	6886.3	6829.9	6352.6	5700.2	6212.2	7168.3	7561.7	7631.1	6732.9	5937.4	6907.9
52.5°	6909.4	6893.5	6452.3	5782.7	6299.0	7305.7	7936.3	7953.7	6977.4	6116.8	6909.4
55°	7323.1	7268.1	6738.7	5885.3	6235.4	7145.2	7697.7	7667.3	6894.9	6008.3	7036.7
57.5°	6701.1	6737.3	6342.5	5479.0	5457.2	5808.7	6051.7	5976.5	5753.7	5422.5	6546.3
60°	5406.6	5509.3	5546.9	4582.2	4117.9	3937.1	3864.7	3731.7	3769.3	4454.9	5750.8
62.5°	4637.2	4631.4	4867.1	4154.0	2697.5	2320.0	2285.3	2315.6	2749.6	4385.4	5632.3
65°	3676.7	3775.1	3847.4	3520.5	2134.8	1722.7	1721.2	1913.6	2379.3	3665.1	4547.4
67.5°	2334.4	2463.2	2552.9	2252.1	1427.6	1226.6	1193.3	1424.7	1648.9	2403.9	2738.0
70°	1316.2	1377.0	1417.5	1298.8	908.4	636.4	598.8	653.8	996.5	1556.3	1622.8
72.5°	507.7	535.2	590.1	594.5	342.8	205.4	166.3	199.6	419.5	616.1	587.2
75°	78.1	83.9	118.6	141.7	98.3	75.2	79.6	82.4	117.1	159.1	133.0
77.5°	37.6	37.6	36.2	42.0	49.2	53.5	57.9	63.7	69.5	76.7	73.8
80°	24.6	24.6	24.6	28.9	36.2	43.4	49.2	52.1	55.0	60.8	57.9
82.5°	15.9	15.9	15.9	21.7	28.9	36.2	39.1	46.3	52.1	60.8	56.4
85°	8.7	8.7	8.7	14.5	21.7	30.4	28.9	23.2	13.0	1.4	2.9
87.5°	2.9	2.9	2.9	2.9	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°	4418.7	4418.7	4418.7	4418.7	4418.7	4418.7	4418.7	4418.7	4418.7	4418.7	4418.7
2.5°	4547.4	4481.0	4475.2	4339.2	4217.7	4158.4	4110.7	3977.6	4006.5	3929.9	3928.4
5°	4327.6	4191.6	3971.8	3791.0	3610.2	3574.0	3416.4	3279.0	3283.3	3184.9	3202.3
7.5°	3932.8	3838.7	3571.1	3287.7	3047.5	2876.9	2727.9	2638.2	2523.9	2484.9	2464.6
10°	3682.5	3566.8	3266.0	2910.2	2641.1	2550.0	2406.8	2327.2	2210.1	2152.2	2111.8
12.5°	3572.6	3403.4	3027.3	2665.7	2486.3	2392.3	2270.9	2126.2	1987.3	1933.9	1860.1
15°	3584.2	3381.7	2957.9	2567.4	2351.8	2169.6	2061.1	1900.6	1758.8	1664.8	1611.3
17.5°	3759.2	3513.3	2989.7	2492.1	2182.6	1954.1	1741.5	1567.9	1455.0	1384.2	1366.8
20°	4172.8	3838.7	3043.2	2370.6	2013.4	1728.5	1466.6	1285.8	1199.1	1197.6	1199.1
22.5°	4517.0	4185.8	3151.7	2298.3	1844.1	1439.2	1178.8	1120.9	1103.6	1139.7	1144.1
25°	4981.4	4576.4	3338.2	2260.7	1687.9	1226.6	1066.0	1044.3	1042.9	1089.2	1090.6
27.5°	5457.2	4917.7	3449.7	2150.7	1528.8	1116.6	998.0	993.7	1016.8	1066.0	1061.7
30°	5781.2	5204.1	3650.7	2019.1	1340.8	1019.7	970.5	976.3	1008.1	1045.8	1051.5
32.5°	6158.8	5486.2	3702.7	1946.9	1225.1	938.7	904.0	917.0	957.5	1016.8	1048.7
35°	6591.2	5685.8	3782.3	1848.5	1181.7	876.5	859.2	873.6	922.8	961.8	996.5
37.5°	6910.8	6038.7	3796.8	1771.9	1133.9	841.8	814.3	862.1	891.0	945.9	963.3
40°	7148.1	6294.7	3834.4	1724.1	1096.4	796.9	796.9	828.8	867.8	918.5	953.1
42.5°	7299.9	6481.3	3861.8	1680.7	1024.0	783.9	776.7	808.5	860.6	909.8	925.7
44°	7392.5	6560.8	3834.4	1640.2	1003.8	768.0	768.0	795.5	836.0	893.9	912.7
45°	7415.6	6660.6	3773.7	1638.7	979.2	749.3	746.4	798.4	825.9	896.8	908.4
47.5°	7505.3	6783.6	3780.9	1592.5	919.9	704.4	755.0	778.1	802.7	865.0	904.0
50°	7502.4	6860.3	3765.0	1524.5	876.5	653.8	737.7	763.7	788.2	851.9	867.8
52.5°	7522.7	7146.6	3911.0	1416.1	798.4	588.7	679.8	737.7	768.0	821.5	854.8
55°	7512.6	7310.1	4055.7	1335.0	688.5	549.7	630.6	698.6	742.0	798.4	814.3
57.5°	6861.7	6461.0	3753.4	1183.1	569.9	503.3	561.2	658.1	713.1	770.9	791.1
60°	5606.2	4980.0	3095.3	870.7	468.6	462.8	522.2	645.1	668.2	718.9	753.6
62.5°	5181.0	4368.1	2454.5	665.3	400.7	423.8	481.6	582.9	619.0	681.3	713.1
65°	4054.2	2901.5	1520.2	449.8	352.9	380.4	435.3	510.6	569.9	627.7	665.3
67.5°	2401.0	1585.3	752.1	315.3	308.1	337.0	393.4	449.8	517.8	581.5	600.2
70°	1307.5	779.6	321.1	240.1	261.8	287.8	342.8	381.9	446.9	496.1	527.9
72.5°	419.5	237.2	160.5	177.9	199.6	230.0	263.2	311.0	357.3	386.2	412.2
75°	101.2	99.8	114.2	124.4	144.6	167.8	195.3	219.9	256.0	283.5	306.6
77.5°	70.9	76.7	88.2	102.7	109.9	118.6	135.9	154.8	170.7	190.9	205.4
80°	55.0	59.3	68.0	75.2	82.4	89.7	98.3	105.5	115.7	128.7	135.9
82.5°	52.1	55.0	63.7	68.0	65.1	63.7	69.5	72.3	73.8	78.1	82.4
85°	4.3	0.0	2.9	10.1	24.6	36.2	39.1	39.1	37.6	40.5	40.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	5.8	4.3
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	4418.7	4418.7	4418.7	4418.7	4418.7	4418.7	4418.7	4418.7	4418.7	4418.7	4418.7
2.5°	3911.0	3861.8	3880.7	3903.8	3870.5	3793.9	3814.1	3805.5	3883.5	3877.8	3955.9
5°	3279.0	3202.3	3211.0	3323.8	3287.7	3326.7	3248.6	3238.5	3252.9	3260.2	3273.2
7.5°	2509.5	2499.3	2586.2	2681.6	2726.5	2680.1	2603.5	2586.2	2570.2	2538.4	2610.8
10°	2048.1	2051.0	2045.2	2117.5	2168.1	2158.0	2111.8	2106.0	2075.6	2064.0	2104.5
12.5°	1828.2	1789.2	1770.4	1747.3	1786.3	1812.3	1792.1	1777.6	1779.1	1793.5	1799.3
15°	1615.6	1591.1	1550.5	1524.5	1543.3	1530.3	1523.0	1552.0	1544.8	1541.9	1576.6
17.5°	1377.0	1397.2	1394.3	1365.4	1390.0	1379.9	1378.4	1358.2	1330.7	1310.4	1322.0
20°	1219.3	1256.9	1285.8	1287.3	1300.3	1298.8	1277.2	1215.0	1194.7	1190.4	1193.3
22.5°	1162.9	1183.1	1217.9	1267.1	1267.1	1243.9	1217.9	1145.5	1126.7	1106.5	1097.8
25°	1118.0	1157.1	1202.0	1207.7	1230.9	1209.2	1167.2	1131.0	1092.1	1064.6	1064.6
27.5°	1094.9	1138.3	1171.6	1181.7	1213.5	1196.2	1152.8	1106.5	1060.2	1058.8	1034.2
30°	1084.8	1125.3	1147.0	1171.6	1186.0	1158.5	1145.5	1096.4	1050.1	1038.5	998.0
32.5°	1054.4	1112.3	1152.8	1147.0	1158.5	1147.0	1128.1	1087.7	1035.6	1009.6	1005.2
35°	1019.7	1077.6	1120.9	1151.3	1158.5	1133.9	1122.4	1067.5	996.5	983.5	938.7
37.5°	1000.9	1035.6	1089.2	1138.3	1148.4	1135.4	1096.4	1040.0	969.1	954.6	915.6
40°	977.7	1022.6	1064.6	1105.0	1135.4	1103.6	1058.8	1003.8	971.9	928.6	917.0
42.5°	960.4	1011.0	1045.8	1090.6	1125.3	1083.4	1031.3	993.7	948.8	919.9	886.7
44°	954.6	1000.9	1024.0	1079.0	1107.9	1076.1	1032.7	993.7	941.6	915.6	886.7
45°	934.4	998.0	1022.6	1071.8	1096.4	1070.4	1015.4	976.3	938.7	906.9	876.5
47.5°	914.2	957.5	999.4	1038.5	1055.9	1047.2	1000.9	953.1	908.4	889.6	860.6
50°	908.4	951.7	990.8	1026.9	1047.2	1029.8	987.9	941.6	889.6	859.2	834.6
52.5°	879.4	932.9	976.3	987.9	1013.9	1003.8	971.9	921.4	872.2	846.1	825.9
55°	837.5	893.9	953.1	967.6	1005.2	989.3	941.6	893.9	851.9	812.9	786.8
57.5°	821.5	876.5	934.4	953.1	976.3	950.2	938.7	888.1	821.5	801.3	760.8
60°	781.0	850.5	898.2	941.6	943.0	935.8	915.6	857.7	802.7	765.1	736.2
62.5°	749.3	814.3	851.9	892.4	917.0	896.8	876.5	823.0	763.7	721.8	688.5
65°	703.0	762.3	794.0	818.6	846.1	843.2	808.5	769.5	707.3	674.0	642.2
67.5°	632.0	684.1	727.6	750.7	768.0	763.7	737.7	710.2	646.5	613.2	590.1
70°	546.8	600.2	627.7	640.7	658.1	666.8	646.5	633.5	577.1	533.7	512.0
72.5°	439.7	474.4	514.9	526.5	533.7	539.5	539.5	527.9	470.1	452.7	415.1
75°	324.0	351.5	381.9	381.9	394.9	396.3	399.2	392.0	348.6	325.4	316.7
77.5°	219.9	240.1	264.7	274.8	283.5	282.0	280.6	260.3	237.2	227.1	218.4
80°	143.2	163.4	175.0	188.0	196.7	195.3	198.2	183.7	173.6	156.2	159.1
82.5°	85.3	101.2	112.8	128.7	128.7	133.0	133.0	128.7	118.6	109.9	109.9
85°	40.5	53.5	60.8	70.9	76.7	78.1	69.5	59.3	49.2	44.9	49.2
87.5°	7.2	10.1	14.5	13.0	15.9	14.5	14.5	14.5	14.5	11.6	13.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P648325

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**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4418.7	4418.7	4418.7	4418.7	4418.7	4418.7	4418.7	4418.7	4418.7	4418.7
2.5°	3927.0	3999.3	4049.9	4133.8	4278.4	4394.1	4512.7	4601.0	4611.1	4637.2
5°	3320.9	3359.9	3488.7	3656.5	3775.1	3970.4	4096.2	4324.7	4410.0	4501.2
7.5°	2593.4	2657.0	2829.1	2942.0	3202.3	3446.8	3699.8	3981.9	4094.7	4107.8
10°	2186.9	2279.5	2396.7	2577.5	2719.2	2991.1	3306.5	3620.3	3746.2	3767.9
12.5°	1920.8	2039.4	2195.6	2325.8	2461.8	2699.0	3001.2	3388.9	3552.3	3650.7
15°	1664.8	1787.7	1959.8	2140.6	2260.7	2544.2	2900.0	3336.8	3549.4	3636.3
17.5°	1401.6	1515.8	1657.5	1852.8	2094.4	2412.6	2884.1	3510.4	3743.3	3844.5
20°	1175.9	1239.6	1404.5	1605.5	1907.8	2278.1	2889.9	3766.4	4107.8	4152.6
22.5°	1087.7	1102.2	1167.2	1352.4	1683.6	2140.6	2992.5	4129.5	4517.0	4664.6
25°	1019.7	1016.8	1034.2	1158.5	1520.2	2087.2	3093.9	4463.6	4971.3	5131.8
27.5°	982.1	953.1	954.6	1071.8	1404.5	2000.3	3224.0	4846.8	5486.2	5557.0
30°	963.3	957.5	940.1	987.9	1278.6	1870.2	3245.7	5224.3	5789.9	5892.6
32.5°	951.7	895.3	873.6	891.0	1160.0	1728.5	3326.7	5473.2	6166.0	6121.1
35°	893.9	843.2	828.8	846.1	1076.1	1648.9	3273.2	5690.1	6448.0	6523.3
37.5°	872.2	827.3	798.4	783.9	998.0	1582.4	3245.7	6024.2	6721.4	6902.1
40°	851.9	804.2	769.5	755.0	937.3	1494.1	3237.0	6281.7	7036.7	7145.2
42.5°	828.8	798.4	759.4	733.4	863.5	1405.9	3137.2	6361.2	7133.6	7250.7
44°	821.5	775.2	734.8	726.1	834.6	1361.1	3117.0	6433.5	7217.5	7395.4
45°	814.3	770.9	724.7	713.1	824.4	1336.5	3089.5	6450.9	7356.4	7389.6
47.5°	794.0	766.6	721.8	689.9	802.7	1282.9	3007.0	6352.6	7214.6	7220.4
50°	778.1	746.4	700.1	637.8	773.8	1238.1	3044.6	6316.4	6873.3	6886.3
52.5°	760.8	713.1	687.0	580.0	726.1	1200.5	3124.2	6479.8	6912.3	6909.4
55°	740.6	688.5	624.8	530.8	646.5	1152.8	3316.6	6802.4	7273.9	7323.1
57.5°	708.7	663.9	572.8	487.4	555.4	1061.7	3254.4	6184.8	6692.5	6701.1
60°	666.8	624.8	519.3	454.1	455.6	837.5	2910.2	4819.4	5280.8	5406.6
62.5°	626.3	603.1	474.4	406.5	387.7	666.8	2460.3	4005.0	4533.0	4637.2
65°	578.6	522.2	435.3	370.3	332.7	467.2	1742.9	2992.5	3536.4	3676.7
67.5°	517.8	457.0	383.3	325.4	284.9	312.4	899.7	1701.0	2252.1	2334.4
70°	452.7	396.3	322.5	274.8	230.0	215.5	396.3	811.4	1230.9	1316.2
72.5°	371.7	319.6	257.5	217.0	172.1	149.0	133.0	217.0	436.8	507.7
75°	269.0	232.9	193.8	154.8	121.5	95.4	78.1	65.1	72.3	78.1
77.5°	198.2	169.2	143.2	109.9	85.3	68.0	53.5	40.5	39.1	37.6
80°	154.8	137.4	114.2	88.2	66.6	50.7	37.6	27.5	24.6	24.6
82.5°	121.5	112.8	94.0	72.3	55.0	40.5	27.5	18.8	15.9	15.9
85°	46.3	46.3	68.0	59.3	42.0	28.9	18.8	10.1	8.7	8.7
87.5°	11.6	11.6	11.6	11.6	10.1	8.7	8.7	4.3	2.9	2.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)