

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: P648547

Luminaire Tested: **GALN-SA7B-835-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648547
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-835-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26749.6 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

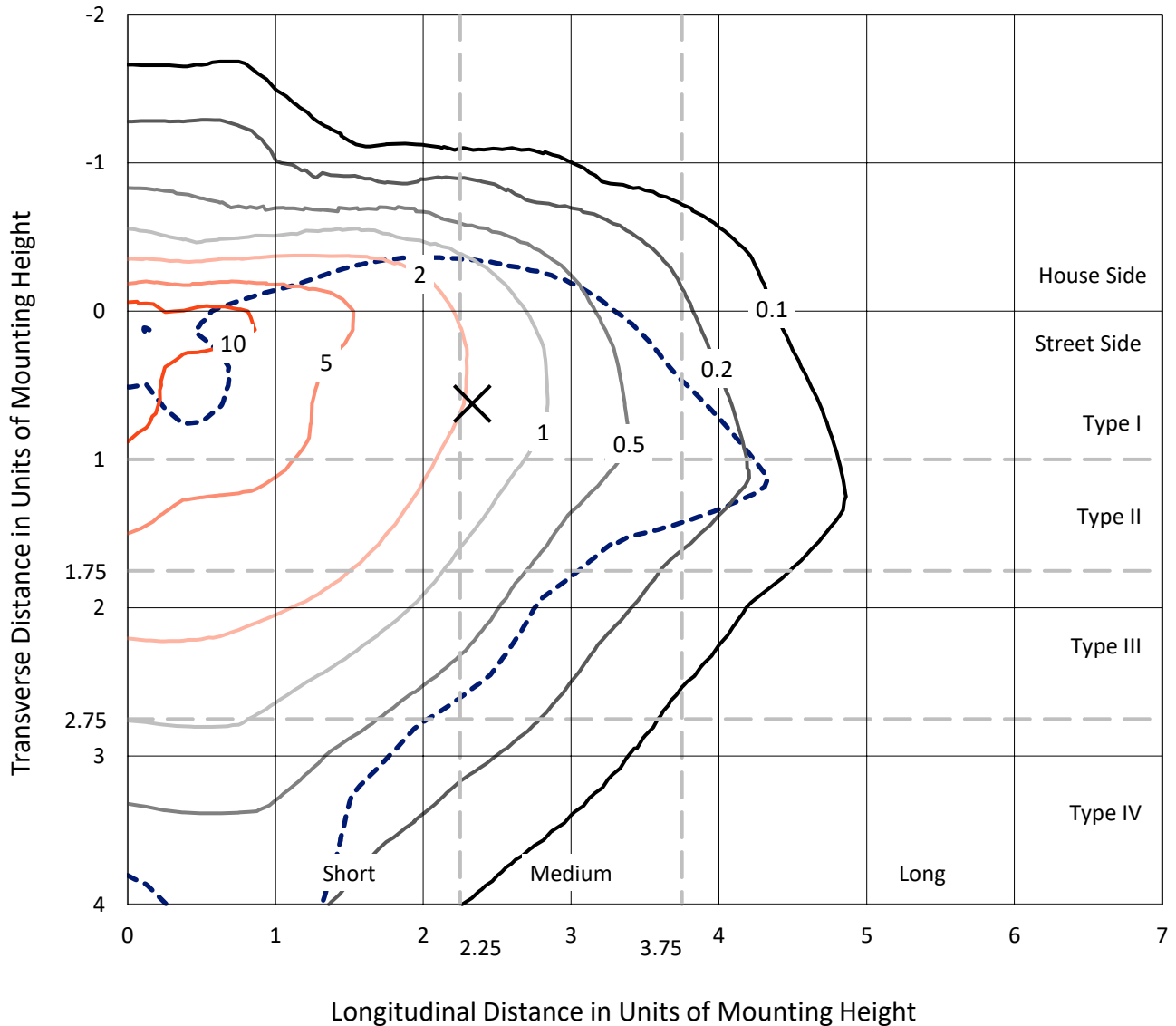
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

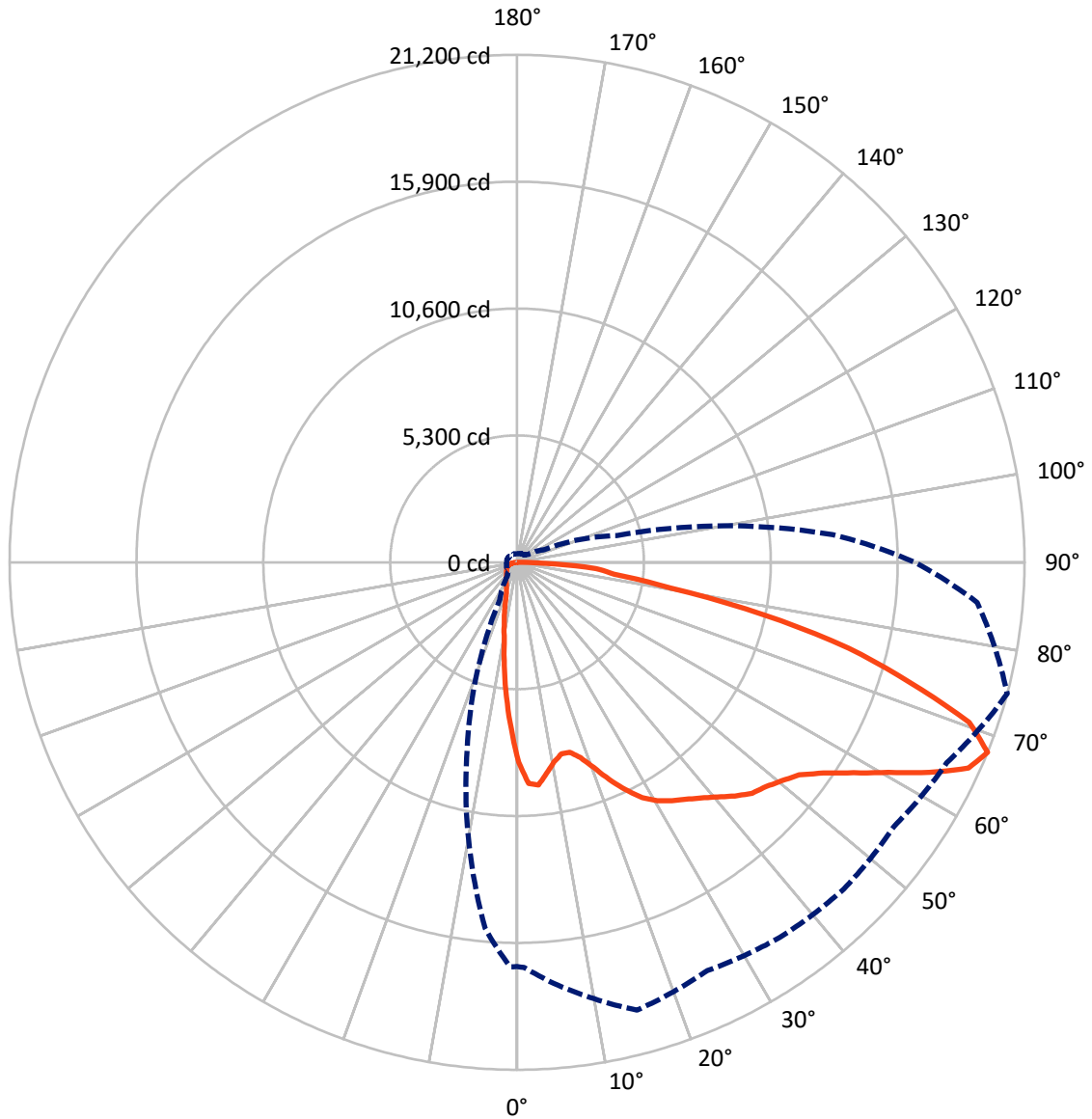
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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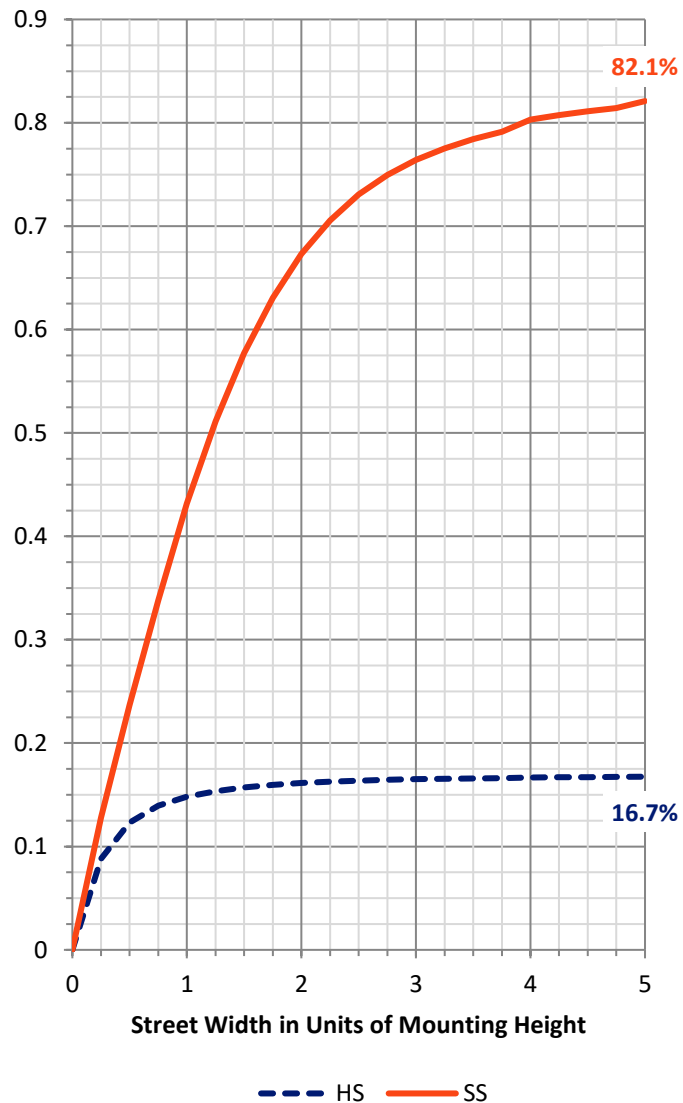
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4521.3	0.0	4521.3
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	22228.4	0.0	22228.4
	% Fixture	83.1	0.0	83.1
Total	Lumens	26749.6	0.0	26749.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	633.9	2.4
10°-20°	1322.0	4.9
20°-30°	1902.3	7.1
30°-40°	2739.9	10.2
40°-50°	3848.8	14.4
50°-60°	5367.7	20.1
60°-70°	6381.8	23.9
70°-80°	3758.5	14.1
80°-90°	794.8	3.0
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°	26749.6	100.0
0°-180°	26749.6	100.0

Coefficient of Utilization

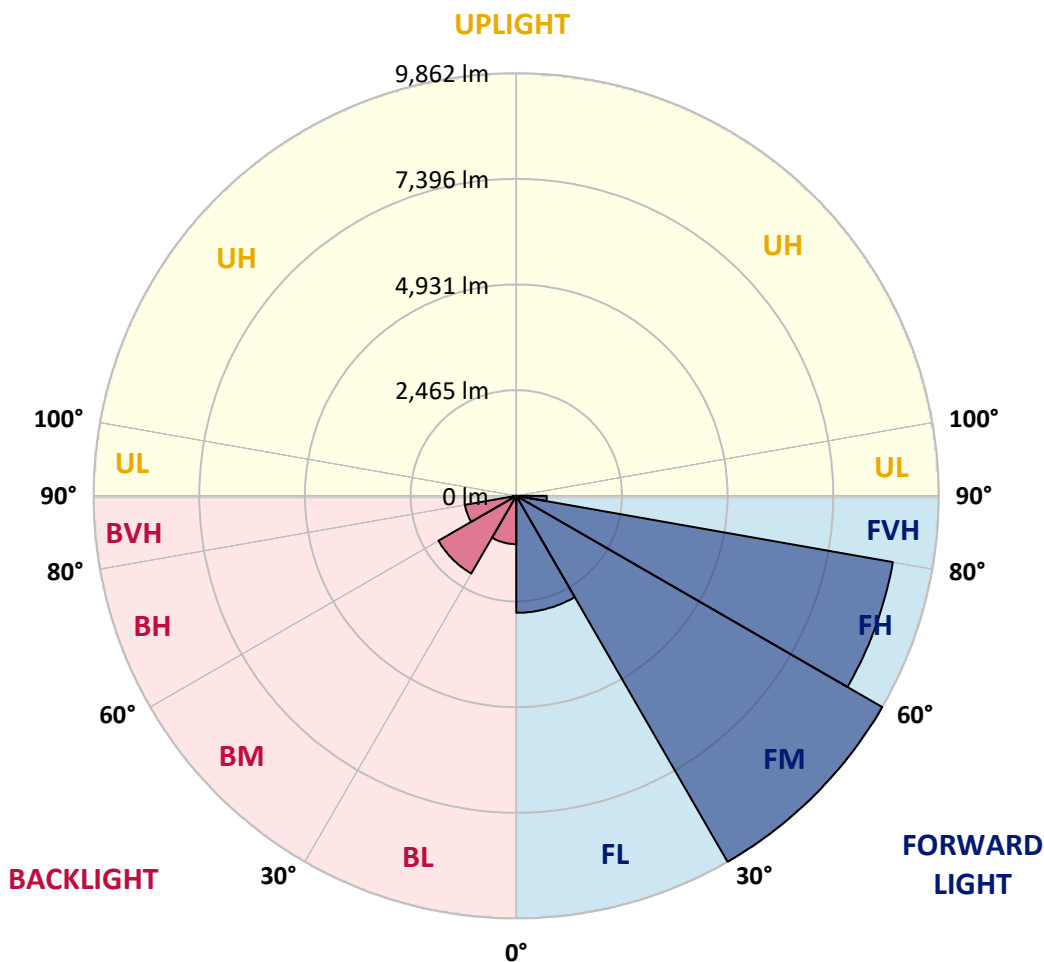


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2730.4	10.2			
FM (30°-60°)	9861.6	36.9			
FH (60°-80°)	8923.8	33.4			G4/12000
FVH (80°-90°)	712.6	2.7			G4/750
BL (0°-30°)	1127.7	4.2	B3/2500		
BM (30°-60°)	2094.7	7.8	B2/2500		
BH (60°-80°)	1216.6	4.5	B3/2500		G3/2500
BVH (80°-90°)	82.2	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-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8357.2	8357.2	8357.2	8357.2	8357.2	8357.2	8357.2	8357.2	8357.2	8357.2	8357.2
2.5°	9010.8	9022.7	9099.9	9324.7	9479.1	9535.7	9575.2	9501.4	9429.3	9254.4	8990.2
5°	8983.4	9053.7	9254.4	9758.7	10156.6	10328.2	10379.6	10158.3	9793.0	9343.5	8803.2
7.5°	8458.4	8552.8	8861.5	9707.2	10408.8	10810.2	10757.0	10357.3	9698.6	8897.5	8142.8
10°	7835.7	7940.4	8312.6	9335.0	10239.0	10791.3	10791.3	10304.1	9429.3	8477.3	7607.6
12.5°	7341.7	7451.5	7876.9	8952.4	9885.6	10408.8	10496.3	10077.8	9235.5	8211.4	7256.0
15°	7178.8	7285.1	7743.1	8720.9	9511.6	9830.7	9859.8	9722.7	9141.1	8230.3	7240.6
17.5°	7381.2	7518.4	7981.6	8789.5	9168.6	9187.5	9209.7	9317.8	9151.4	8575.1	7552.7
20°	7966.1	8113.6	8597.3	9010.8	8868.4	8672.8	8684.9	8962.8	9273.2	9144.6	8298.9
22.5°	8810.1	8938.7	9434.4	9400.1	8741.5	8338.3	8254.3	8642.0	9453.3	9854.8	9093.1
25°	9720.9	9871.9	10441.4	9978.2	8777.5	8139.4	8086.2	8453.3	9640.3	10518.6	10010.8
27.5°	10763.9	10911.4	11360.8	10561.4	8966.1	8123.9	8060.4	8436.1	9808.4	11132.7	10887.4
30°	11539.2	11674.7	11980.1	11052.0	9197.7	8226.8	8148.0	8571.7	9952.5	11552.9	11741.6
32.5°	12148.2	12288.8	12455.2	11357.3	9503.1	8413.8	8268.0	8818.6	10141.2	11873.7	12374.6
35°	12782.9	12949.3	12937.2	11628.4	9787.8	8630.0	8487.6	9175.4	10437.9	12153.3	13177.3
37.5°	13587.3	13654.3	13568.5	11872.0	10129.2	9019.4	8940.5	9705.5	10859.9	12491.2	14115.7
40°	14403.8	14537.6	14096.8	12167.0	10544.3	9751.8	9743.3	10489.4	11360.8	12887.5	15024.8
42.5°	15103.7	15216.9	14590.8	12424.3	11046.9	10645.5	10710.7	11541.0	12017.8	13347.2	15755.5
45°	15630.3	15731.6	15047.1	12673.1	11709.1	11678.1	12062.3	12667.9	12846.3	13760.6	16184.4
47.5°	16078.0	16175.8	15364.4	13050.4	12527.2	12911.5	13580.5	13842.9	13554.7	13997.3	16664.7
50°	16455.4	16484.6	15582.3	13499.9	13542.8	14422.7	15071.1	15240.9	14254.6	14337.0	17081.5
52.5°	16848.2	16810.5	15957.9	14065.9	14640.5	15856.8	16328.4	16505.2	14925.3	14755.5	17688.8
55°	17728.2	17764.2	16800.2	14779.5	15750.4	17265.1	17886.0	17716.2	15668.1	15525.7	18460.6
57.5°	18791.8	18760.8	17985.5	15896.2	16880.9	18575.6	19038.7	18766.0	16659.6	16584.1	19242.9
60°	19205.1	19246.3	18977.0	17097.0	17995.8	19723.1	20196.6	19772.9	17848.3	17814.0	19832.9
62.5°	18790.0	19021.6	19203.4	18165.6	18946.1	20567.1	21037.1	20553.4	19088.5	19337.2	20246.3
65°	17963.2	18013.0	18632.2	19071.3	19404.1	20706.0	20951.4	20694.1	20124.6	20724.9	20227.5
67.5°	16889.4	16932.3	17657.9	19368.1	18814.0	19127.9	19299.5	19224.0	19803.8	21200.1	19296.0
70°	15867.0	15832.7	16599.5	18611.6	16378.2	15901.3	16043.7	15807.0	17088.3	20038.8	17469.2
72.5°	13877.3	14000.7	14824.1	16508.6	12968.1	12192.7	12503.3	11890.9	13143.0	17162.1	14179.1
75°	10870.2	10899.4	12273.4	13855.0	9782.6	8559.6	8979.9	8724.3	10067.4	14316.4	9791.3
77.5°	7527.0	7461.8	8938.7	10582.0	6976.4	6266.2	6273.1	6151.2	7029.5	10540.9	6652.1
80°	4780.7	4681.2	5595.5	6537.2	4794.4	5128.9	4960.8	4955.7	4576.6	6502.9	4022.5
82.5°	2583.4	2693.1	3535.3	4098.0	3439.3	3964.2	3633.1	3526.8	3140.8	4070.5	2573.0
85°	1176.8	1279.7	1885.2	2787.5	2612.5	2641.7	1765.1	2082.5	2598.8	3305.5	1374.0
87.5°	114.9	147.5	389.4	1315.7	892.0	703.3	262.5	506.1	653.6	1175.0	109.8
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8357.2	8357.2	8357.2	8357.2	8357.2	8357.2	8357.2	8357.2	8357.2	8357.2	8357.2
2.5°	8882.1	8792.9	8489.3	8238.9	7973.0	7770.6	7506.4	7329.7	7207.9	7024.4	7002.1
5°	8473.9	8256.0	7727.7	7189.0	6724.2	6374.2	6019.2	5693.3	5501.1	5441.1	5363.9
7.5°	7786.0	7418.9	6739.7	6122.1	5588.7	5067.2	4665.7	4381.0	4190.6	4079.1	3945.3
10°	7220.0	6794.6	5967.7	5211.3	4772.2	4447.9	4094.5	3789.3	3554.2	3353.5	3243.7
12.5°	6839.1	6358.8	5429.1	4815.0	4475.4	4130.6	3717.2	3374.1	3027.6	2799.5	2701.7
15°	6724.2	6216.5	5262.7	4617.7	4130.6	3679.5	3216.3	2768.6	2425.5	2209.4	2137.4
17.5°	7005.5	6391.4	5261.0	4355.3	3725.7	3187.1	2593.6	2173.4	1821.7	1660.4	1609.0
20°	7530.4	6727.6	5276.4	4096.3	3286.6	2528.5	1886.9	1542.1	1374.0	1305.4	1279.7
22.5°	8262.8	7240.6	5322.8	3840.7	2806.4	1941.8	1413.5	1238.5	1178.4	1166.4	1161.3
25°	9165.2	7875.2	5478.9	3610.8	2401.5	1482.1	1181.9	1103.0	1068.6	1056.7	1054.9
27.5°	9995.4	8695.1	5667.5	3413.6	2010.4	1277.9	1068.6	1001.8	967.5	965.8	969.2
30°	10745.0	9381.3	5825.4	3192.3	1713.7	1135.6	994.9	928.0	895.4	893.7	904.0
32.5°	11393.4	9945.7	5942.0	2974.5	1548.9	1048.0	928.0	856.0	828.5	823.4	828.5
35°	12086.4	10508.3	5888.8	2804.6	1454.7	976.0	878.3	807.9	775.3	759.9	759.9
37.5°	12877.2	11088.1	5797.9	2663.9	1411.7	916.0	835.4	766.8	734.1	718.7	717.0
40°	13740.0	11667.9	5672.7	2538.7	1368.8	880.0	806.3	734.1	694.8	679.3	675.9
42.5°	14501.6	12163.6	5569.8	2456.4	1298.5	886.8	780.5	710.2	660.4	639.8	638.1
45°	15163.7	12662.8	5550.9	2408.4	1240.2	876.6	773.6	691.3	633.0	610.7	607.2
47.5°	15681.8	13182.5	5659.0	2380.9	1176.8	821.7	818.2	679.3	608.9	584.9	581.5
50°	16313.0	13920.1	5905.9	2324.3	1118.4	770.2	864.5	677.5	590.1	559.2	550.6
52.5°	17153.6	14880.7	6240.4	2223.1	1034.3	722.2	825.1	677.5	567.8	536.9	526.6
55°	18424.6	16105.4	6568.1	2080.7	916.0	658.7	744.5	657.0	535.2	507.8	500.9
57.5°	19266.9	17000.9	6777.3	1883.4	768.5	612.4	641.5	624.4	502.6	473.4	473.4
60°	19309.8	17241.0	6677.9	1634.7	675.9	569.5	557.5	629.5	473.4	442.6	439.1
62.5°	18815.7	16652.7	6159.9	1411.7	626.1	523.2	504.3	552.3	444.3	413.4	408.3
65°	18043.8	15151.8	5261.0	1305.4	598.7	482.0	454.5	452.9	413.4	384.2	377.4
67.5°	16625.2	13240.8	4322.7	1243.6	584.9	435.7	410.0	401.4	377.4	353.4	349.9
70°	14534.2	11089.8	3466.7	1217.9	578.1	387.7	367.1	356.8	336.2	317.3	315.6
72.5°	11307.6	8995.3	2861.2	1200.7	574.6	343.0	320.8	307.0	295.0	277.9	277.9
75°	8122.2	6617.8	2183.6	1082.4	531.7	295.0	271.0	262.5	245.3	231.6	235.0
77.5°	5120.4	4456.5	1437.4	795.9	411.7	236.7	216.1	211.0	197.2	178.4	190.4
80°	3458.2	3134.0	838.8	500.9	259.0	173.3	166.4	164.7	149.2	128.6	130.4
82.5°	2353.5	2308.8	435.7	284.8	149.2	101.2	97.8	101.2	84.0	68.6	68.6
85°	919.4	1255.6	205.9	111.5	48.0	15.4	22.3	24.0	13.7	6.9	8.6
87.5°	17.1	128.6	5.2	0.0	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	8357.2	8357.2	8357.2	8357.2	8357.2	8357.2	8357.2	8357.2	8357.2	8357.2	8357.2
2.5°	6967.8	6952.3	6978.1	6868.3	6890.6	6931.7	6952.3	6964.3	7134.1	7094.7	7202.8
5°	5436.0	5420.6	5520.0	5533.8	5585.2	5574.9	5624.7	5636.7	5698.4	5720.7	5871.6
7.5°	3953.9	4020.8	4134.0	4192.3	4279.8	4307.3	4281.5	4345.0	4216.4	4309.0	4336.4
10°	3176.9	3096.2	3048.2	3182.0	3199.1	3326.1	3274.6	3233.5	3309.0	3312.3	3384.4
12.5°	2645.1	2471.9	2356.9	2394.6	2435.8	2490.7	2499.3	2581.6	2636.5	2688.0	2730.9
15°	2073.9	2013.8	1909.2	1857.7	1916.1	1938.3	1991.6	2060.2	2118.5	2133.9	2192.2
17.5°	1591.8	1602.2	1585.0	1554.1	1590.1	1607.3	1610.7	1612.4	1627.9	1617.6	1703.3
20°	1281.4	1317.4	1360.3	1367.1	1379.2	1387.7	1372.3	1314.0	1315.7	1351.7	1379.2
22.5°	1159.5	1166.4	1214.5	1229.9	1267.7	1252.2	1207.6	1180.1	1176.8	1185.3	1199.0
25°	1063.5	1073.8	1108.1	1132.1	1161.3	1133.9	1101.3	1075.5	1072.1	1080.7	1094.4
27.5°	977.7	993.2	1024.1	1048.0	1075.5	1049.8	1018.9	996.6	994.9	993.2	1001.8
30°	909.1	926.3	948.6	976.0	994.9	972.6	943.4	931.5	929.7	926.3	929.7
32.5°	840.6	868.0	890.3	904.0	922.8	905.7	883.4	876.6	864.5	854.3	849.1
35°	763.3	792.5	826.8	843.9	862.8	845.6	830.2	801.1	780.5	778.8	782.2
37.5°	718.7	730.8	758.2	787.4	806.3	797.6	768.5	739.3	734.1	734.1	737.6
40°	679.3	684.4	696.4	734.1	768.5	742.8	706.7	698.1	698.1	696.4	698.1
42.5°	639.8	645.0	645.0	674.2	729.1	687.9	660.4	660.4	660.4	662.1	667.3
45°	603.8	605.5	603.8	624.4	675.9	641.5	622.6	627.8	631.3	634.7	638.1
47.5°	572.9	574.6	572.9	590.1	615.8	602.1	591.8	598.7	605.5	610.7	614.1
50°	545.5	543.8	547.2	557.5	569.5	572.9	566.0	576.4	579.8	586.6	595.2
52.5°	521.5	519.8	523.2	528.4	545.5	545.5	545.5	554.1	560.9	567.8	579.8
55°	494.0	495.7	500.9	507.8	530.0	526.6	528.4	535.2	542.1	552.3	559.2
57.5°	468.3	471.8	478.6	488.9	511.1	509.5	511.1	514.6	523.2	528.4	535.2
60°	439.1	446.0	454.5	461.4	483.7	482.0	490.6	497.4	502.6	502.6	506.1
62.5°	410.0	420.2	428.8	434.0	458.0	459.7	471.8	476.8	480.3	476.8	482.0
65°	380.8	396.3	399.6	406.5	430.6	432.3	446.0	458.0	454.5	451.2	459.7
67.5°	351.6	370.5	368.8	377.4	401.4	404.8	416.9	437.4	430.6	427.1	434.0
70°	319.1	332.8	334.5	339.7	372.2	367.1	385.9	404.8	399.6	401.4	401.4
72.5°	283.1	295.0	295.0	305.4	339.7	331.1	346.5	367.1	367.1	365.3	365.3
75°	240.1	247.0	253.8	269.3	305.4	295.0	305.4	324.2	327.6	324.2	324.2
77.5°	193.9	204.1	207.6	228.2	253.8	252.1	262.5	271.0	277.9	274.4	274.4
80°	137.3	147.5	161.2	183.5	199.0	204.1	209.3	216.1	219.6	219.6	223.0
82.5°	77.2	92.6	104.6	126.9	133.8	159.5	157.8	162.9	157.8	139.0	154.4
85°	17.1	32.6	46.4	58.3	66.9	92.6	97.8	109.8	90.9	84.0	84.0
87.5°	0.0	0.0	0.0	0.0	0.0	13.7	27.5	37.7	32.6	27.5	27.5
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8357.2	8357.2	8357.2	8357.2	8357.2	8357.2	8357.2	8357.2	8357.2	8357.2
2.5°	7293.7	7443.0	7623.1	7933.5	8151.3	8386.4	8623.1	8875.2	8942.2	9010.8
5°	5912.8	6206.1	6365.7	6782.5	7220.0	7775.7	8230.3	8727.7	8935.3	8983.4
7.5°	4478.8	4677.8	5096.3	5518.3	6060.3	6643.6	7340.0	8115.3	8357.2	8458.4
10°	3550.8	3821.8	4188.9	4641.8	5116.9	5744.7	6530.4	7436.1	7779.1	7835.7
12.5°	3022.5	3324.4	3724.0	4202.6	4652.0	5125.5	5918.0	6852.8	7220.0	7341.7
15°	2417.0	2782.3	3243.7	3748.1	4237.0	4755.0	5557.7	6612.7	7036.4	7178.8
17.5°	1898.9	2194.0	2693.1	3240.3	3820.1	4475.4	5482.3	6727.6	7249.1	7381.2
20°	1452.9	1663.9	2084.2	2662.2	3341.5	4199.2	5501.1	7161.6	7786.0	7966.1
22.5°	1255.6	1363.7	1619.3	2169.9	2929.8	3959.0	5578.3	7756.9	8509.9	8810.1
25°	1137.3	1193.9	1338.0	1698.2	2537.0	3725.7	5755.0	8557.9	9521.9	9720.9
27.5°	1036.1	1077.3	1166.4	1425.5	2180.2	3509.6	5960.9	9446.5	10467.1	10763.9
30°	940.0	994.9	1079.0	1266.0	1952.1	3312.3	6219.9	10166.9	11263.1	11539.2
32.5°	866.2	921.1	998.3	1154.5	1758.2	3104.8	6374.2	10799.9	11913.2	12148.2
35°	806.3	852.5	933.2	1065.3	1610.7	2947.0	6343.4	11302.4	12542.7	12782.9
37.5°	763.3	802.8	883.4	981.2	1499.2	2782.3	6328.0	11966.4	13309.4	13587.3
40°	723.9	765.1	838.8	926.3	1387.7	2588.4	6336.5	12625.0	14125.9	14403.8
42.5°	693.0	739.3	799.4	910.9	1272.8	2432.4	6336.5	13197.9	14836.1	15103.7
45°	667.3	717.0	775.3	909.1	1181.9	2314.0	6293.7	13690.3	15402.2	15630.3
47.5°	645.0	699.8	783.9	878.3	1159.5	2228.3	6255.9	14084.8	15863.6	16078.0
50°	629.5	694.8	833.7	842.3	1166.4	2202.5	6437.7	14582.3	16270.2	16455.4
52.5°	617.6	696.4	831.9	789.0	1154.5	2219.6	6816.8	15359.3	16834.5	16848.2
55°	593.5	694.8	789.0	729.1	1104.7	2248.9	7304.0	16488.0	17717.9	17728.2
57.5°	569.5	675.9	732.4	677.5	1003.5	2248.9	7890.6	17556.7	18783.2	18791.8
60°	545.5	703.3	643.2	633.0	871.4	2207.7	8509.9	18026.7	19117.6	19205.1
62.5°	521.5	708.5	574.6	593.5	775.3	2108.1	8971.3	17506.9	18664.8	18790.0
65°	494.0	571.2	530.0	552.3	725.6	1941.8	8825.5	16554.9	17814.0	17963.2
67.5°	461.4	483.7	482.0	509.5	708.5	1696.5	8057.0	15350.7	16898.0	16889.4
70°	422.0	434.0	439.1	468.3	675.9	1506.1	6713.9	13788.0	15675.0	15867.0
72.5°	380.8	391.1	396.3	422.0	643.2	1398.0	5211.3	11635.3	13577.1	13877.3
75°	336.2	343.0	349.9	372.2	608.9	1238.5	3712.0	8882.1	10398.5	10870.2
77.5°	289.9	289.9	298.5	320.8	512.9	1022.4	2490.7	6230.2	7045.0	7527.0
80°	235.0	236.7	233.3	257.3	377.4	699.8	1415.2	4161.5	4688.1	4780.7
82.5°	180.1	175.0	176.6	188.7	281.3	476.8	754.7	2585.1	2634.8	2583.4
85°	113.2	113.2	109.8	123.5	180.1	248.8	411.7	1583.3	1236.7	1176.8
87.5°	46.4	37.7	42.9	49.7	85.7	101.2	161.2	325.9	125.2	114.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)