

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: P531903

Luminaire Tested: **GALN-SA7B-727-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531903
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-727-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18324 lumens
Efficiency: N/A
Efficacy: 64.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

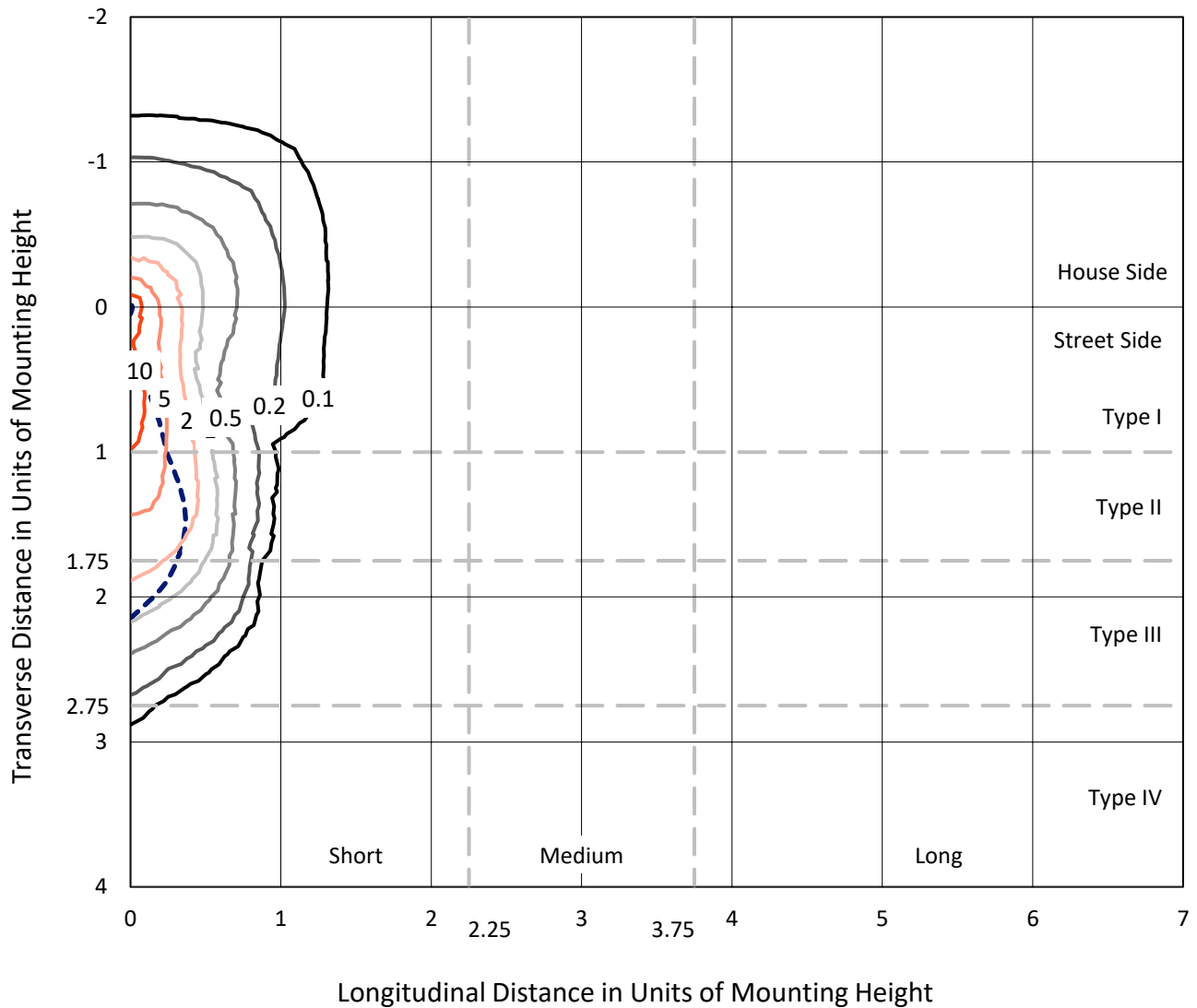
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

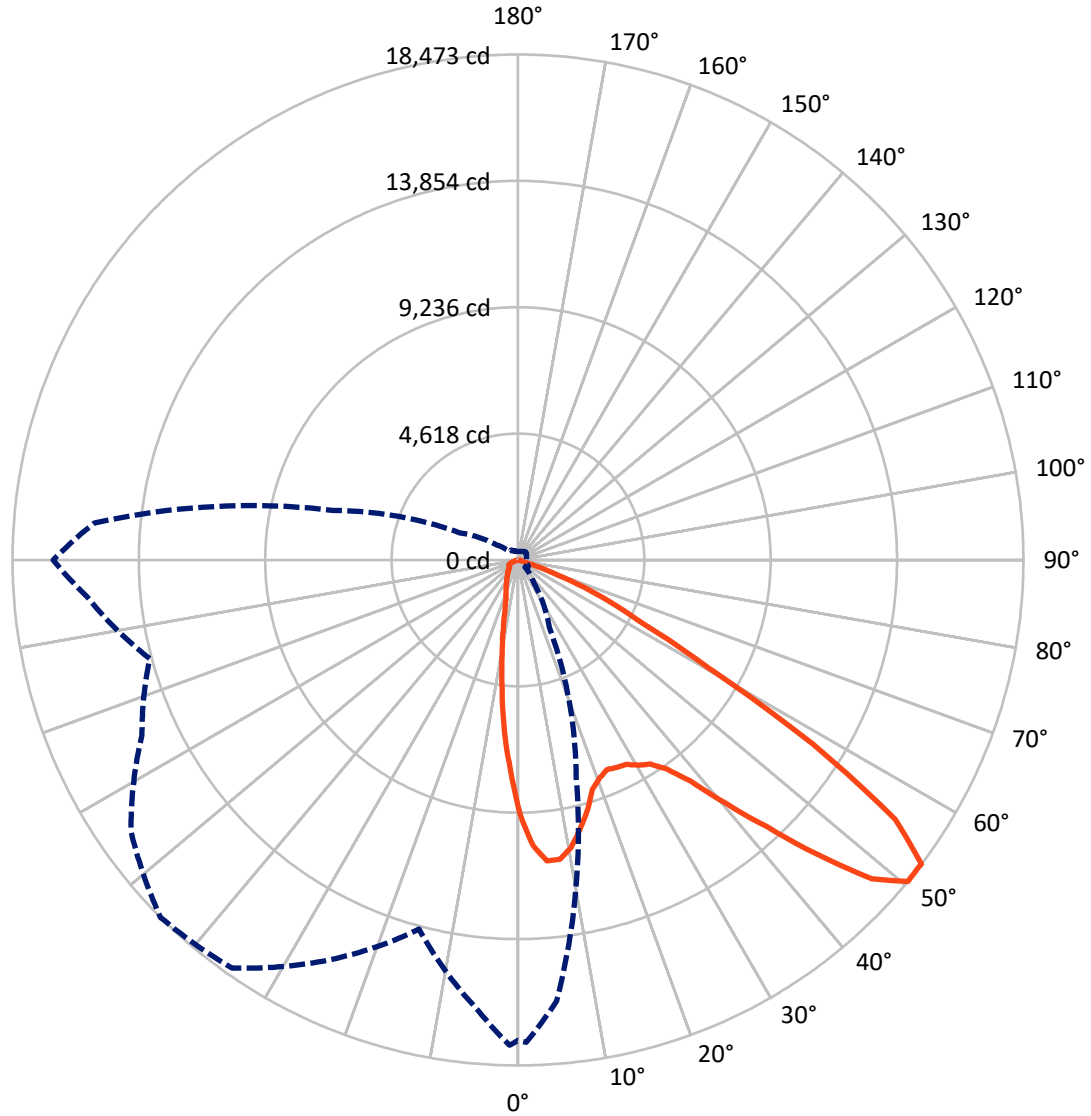
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3670.3	0.0	3670.3
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	14653.7	0.0	14653.7
	% Fixture	80.0	0.0	80.0
Total	Lumens	18324.0	0.0	18324.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	677.3	3.7
10°-20°	1346.2	7.3
20°-30°	2022.3	11.0
30°-40°	3035.5	16.6
40°-50°	4266.2	23.3
50°-60°	4601.8	25.1
60°-70°	2136.6	11.7
70°-80°	201.0	1.1
80°-90°	37.1	0.2
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°	18324.0	100.0
0°-180°	18324.0	100.0

Coefficient of Utilization

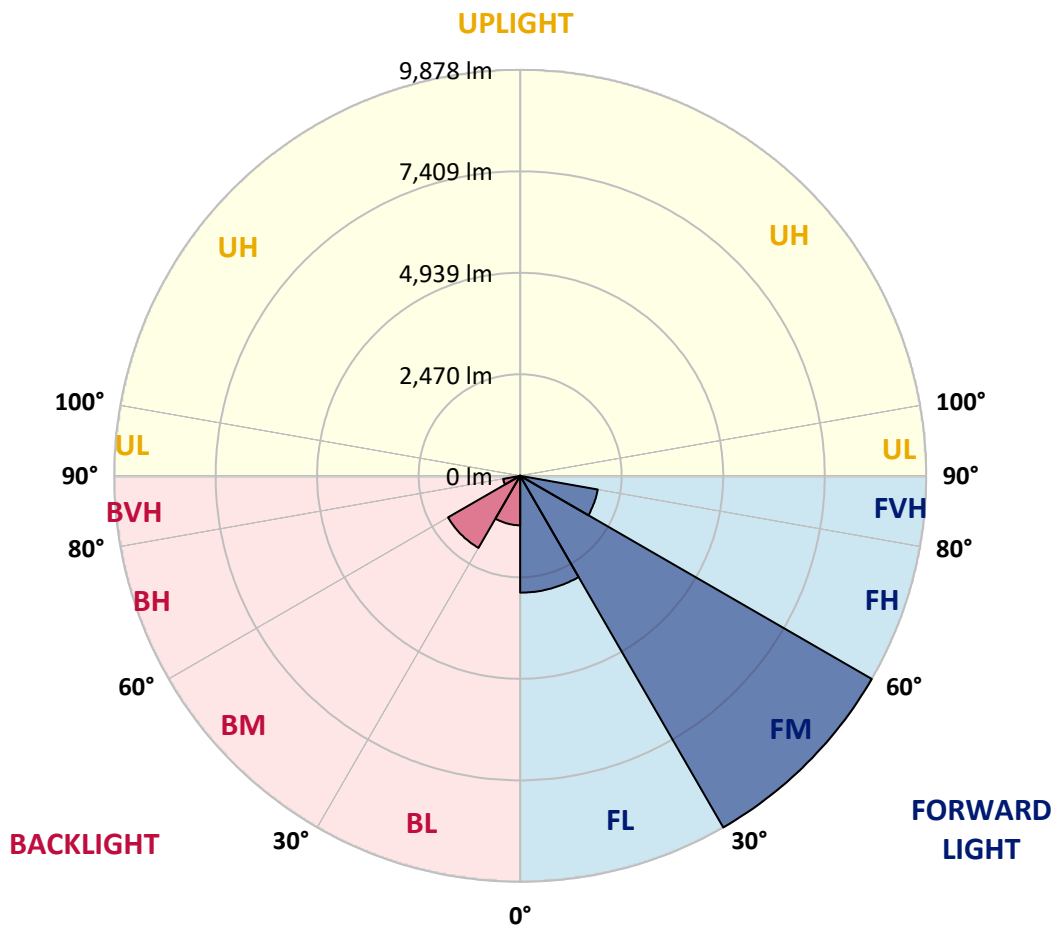


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2842.8	15.5			
FM (30°-60°)	9878.0	53.9			
FH (60°-80°)	1916.2	10.5			G2/5000
FVH (80°-90°)	16.7	0.1			G1/100
BL (0°-30°)	1203.0	6.6	B3/2500		
BM (30°-60°)	2025.5	11.1	B2/2500		
BH (60°-80°)	421.4	2.3	B1/500		G1/500
BVH (80°-90°)	20.4	0.1			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°	9292.6	9292.6	9292.6	9292.6	9292.6	9292.6	9292.6	9292.6	9292.6	9292.6	9292.6
2.5°	9659.8	9510.7	9321.7	9165.3	8932.7	8463.7	8336.4	8183.7	8056.5	7885.6	7645.7
5°	8783.6	8736.3	8649.1	8060.1	7634.7	7067.6	6602.2	6405.9	6147.8	5936.9	5784.2
7.5°	8114.6	7925.6	7649.3	7056.7	6376.8	5769.7	5253.4	4951.7	4609.9	4493.6	4286.4
10°	7398.4	7442.1	7034.9	6202.3	5380.7	4889.9	4569.9	4279.1	3970.1	3766.5	3472.0
12.5°	7169.4	7027.6	6714.9	5686.1	4984.4	4526.3	4137.3	3777.4	3450.2	3123.0	2839.4
15°	7318.5	7100.3	6664.0	5577.0	4679.0	4108.2	3621.1	3133.9	2832.1	2414.0	2119.6
17.5°	7852.9	7678.4	7093.0	5693.3	4522.7	3708.3	2984.8	2483.1	2021.4	1643.3	1494.2
20°	8743.6	8496.4	7762.0	5842.4	4290.0	3224.8	2421.3	1803.3	1367.0	1207.0	1123.4
22.5°	9616.1	9481.6	8554.6	6129.6	4082.8	2795.8	1817.8	1214.3	1021.6	992.5	938.0
25°	11277.6	10874.1	9765.2	6649.5	3922.8	2392.2	1370.6	978.0	865.3	843.5	850.7
27.5°	12266.5	11928.4	10885.0	6994.9	3744.7	2083.2	1159.8	898.0	821.6	774.4	756.2
30°	13215.4	12822.7	11441.2	7198.5	3362.9	1756.0	1028.9	861.6	843.5	774.4	752.6
32.5°	13946.1	13560.8	12244.7	7503.9	3206.6	1545.1	847.1	672.6	625.3	618.1	683.5
35°	15065.9	14655.1	12931.8	7671.1	3086.6	1436.1	734.4	599.9	545.3	523.5	527.2
37.5°	16109.3	15829.4	13568.0	7736.5	2959.4	1403.3	658.0	538.1	490.8	476.3	472.6
40°	16981.9	16356.5	14171.5	7805.6	2904.8	1341.5	610.8	490.8	458.1	436.3	436.3
42.5°	17381.8	16745.5	14847.8	7765.6	2890.3	1243.4	610.8	450.8	425.4	403.6	399.9
45°	17294.5	17036.4	15149.5	7747.5	2890.3	1145.2	556.2	439.9	403.6	374.5	367.2
47.5°	17519.9	17181.8	15527.6	7823.8	2832.1	1076.1	469.0	461.7	381.7	345.4	338.1
50°	17559.9	17625.4	16185.7	8220.1	2704.9	988.9	367.2	454.4	367.2	312.7	305.4
52°	17821.7	17414.5	16385.6	8430.9	2570.4	923.4	309.0	389.0	352.7	290.8	283.6
52.5°	17461.8	17727.2	16432.9	8507.3	2584.9	879.8	298.1	381.7	345.4	290.8	272.7
55°	17058.2	17312.7	16240.2	8670.9	2370.4	690.8	232.7	276.3	312.7	254.5	243.6
57.5°	14826.0	15084.1	14113.4	7940.1	1930.5	487.2	192.7	207.2	276.3	236.3	225.4
60°	13179.0	12993.6	11844.8	6624.1	1370.6	272.7	152.7	160.0	301.8	218.1	214.5
62.5°	12044.7	11648.4	9899.7	5115.3	836.2	181.8	120.0	123.6	232.7	203.6	203.6
65°	8910.8	8467.3	6576.8	3093.9	410.8	127.2	90.9	98.2	145.4	174.5	174.5
67.5°	5086.2	4915.3	3177.5	1396.1	170.9	80.0	69.1	76.3	112.7	141.8	134.5
70°	2337.7	2097.7	1221.6	294.5	80.0	54.5	54.5	61.8	90.9	105.4	98.2
72.5°	683.5	647.1	298.1	47.3	32.7	32.7	36.4	47.3	69.1	80.0	72.7
75°	50.9	32.7	21.8	14.5	14.5	21.8	29.1	47.3	69.1	76.3	61.8
77.5°	3.6	7.3	3.6	3.6	10.9	21.8	32.7	58.2	90.9	94.5	69.1
80°	3.6	3.6	0.0	3.6	10.9	21.8	36.4	65.4	101.8	109.1	58.2
82.5°	0.0	0.0	0.0	3.6	14.5	29.1	43.6	69.1	94.5	116.3	61.8
85°	0.0	0.0	0.0	3.6	21.8	40.0	50.9	18.2	10.9	0.0	0.0
87.5°	0.0	0.0	0.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9292.6	9292.6	9292.6	9292.6	9292.6	9292.6	9292.6	9292.6	9292.6	9292.6	9292.6
2.5°	7816.5	7722.0	7685.6	7718.4	7707.5	7696.6	7896.5	7852.9	7845.6	7911.1	7896.5
5°	5867.8	5700.6	6158.7	5973.3	6166.0	6282.3	6304.1	6315.0	6449.5	6307.8	6493.2
7.5°	4180.9	4224.6	4220.9	4344.5	4566.3	4762.6	4879.0	4788.1	4780.8	4762.6	4682.6
10°	3341.1	3264.8	3250.2	3221.1	3290.2	3457.4	3599.2	3486.5	3406.6	3515.6	3482.9
12.5°	2730.3	2624.9	2566.7	2450.4	2454.0	2566.7	2566.7	2566.7	2646.7	2708.5	2755.8
15°	2094.1	2006.8	2006.8	1890.5	1865.1	1868.7	1926.9	1934.1	2061.4	2097.7	2115.9
17.5°	1465.1	1417.9	1472.4	1519.7	1490.6	1497.9	1519.7	1526.9	1545.1	1530.6	1566.9
20°	1127.0	1119.8	1134.3	1217.9	1279.7	1316.1	1290.6	1254.3	1232.5	1181.6	1181.6
22.5°	956.2	970.7	996.2	1065.2	1145.2	1167.0	1137.9	1054.3	988.9	981.6	985.2
25°	850.7	865.3	905.3	948.9	992.5	1028.9	999.8	938.0	901.6	868.9	868.9
27.5°	785.3	792.6	814.4	847.1	883.4	912.5	901.6	868.9	828.9	814.4	781.7
30°	734.4	745.3	770.7	778.0	810.7	825.3	807.1	799.8	774.4	756.2	745.3
32.5°	708.9	705.3	723.5	730.8	734.4	745.3	723.5	734.4	730.8	701.7	690.8
35°	534.4	563.5	610.8	650.8	661.7	676.2	672.6	658.0	618.1	585.3	545.3
37.5°	479.9	498.1	523.5	556.2	599.9	618.1	610.8	574.4	527.2	505.3	498.1
40°	443.5	454.4	476.3	498.1	541.7	574.4	549.0	516.3	479.9	461.7	450.8
42.5°	410.8	414.5	425.4	447.2	479.9	530.8	487.2	443.5	429.0	418.1	410.8
45°	374.5	374.5	389.0	399.9	436.3	483.5	439.9	399.9	392.6	385.4	381.7
47.5°	345.4	349.0	356.3	370.8	399.9	432.6	403.6	370.8	352.7	349.0	341.7
50°	309.0	312.7	327.2	341.7	378.1	396.3	378.1	341.7	323.6	312.7	312.7
52°	279.9	290.8	305.4	334.5	359.9	389.0	367.2	327.2	305.4	294.5	287.2
52.5°	276.3	283.6	298.1	330.8	359.9	385.4	363.6	323.6	298.1	290.8	283.6
55°	247.2	258.1	283.6	323.6	356.3	385.4	356.3	319.9	283.6	265.4	258.1
57.5°	236.3	243.6	276.3	327.2	352.7	385.4	356.3	319.9	283.6	250.9	243.6
60°	225.4	239.9	276.3	316.3	349.0	389.0	359.9	316.3	276.3	236.3	236.3
62.5°	214.5	225.4	272.7	309.0	334.5	374.5	345.4	309.0	265.4	225.4	221.8
65°	185.4	203.6	239.9	258.1	287.2	323.6	294.5	269.0	232.7	200.0	196.3
67.5°	141.8	149.1	178.1	200.0	218.1	250.9	236.3	203.6	178.1	152.7	152.7
70°	98.2	105.4	127.2	138.2	156.3	174.5	163.6	138.2	120.0	105.4	101.8
72.5°	69.1	72.7	80.0	87.3	94.5	101.8	98.2	80.0	69.1	65.4	61.8
75°	54.5	61.8	65.4	61.8	58.2	54.5	54.5	47.3	40.0	36.4	36.4
77.5°	54.5	58.2	54.5	47.3	40.0	36.4	32.7	29.1	21.8	18.2	21.8
80°	47.3	47.3	47.3	40.0	36.4	32.7	29.1	25.4	21.8	18.2	18.2
82.5°	50.9	50.9	47.3	40.0	40.0	32.7	32.7	29.1	25.4	18.2	18.2
85°	0.0	0.0	0.0	7.3	18.2	32.7	32.7	29.1	25.4	21.8	21.8
87.5°	0.0	0.0	0.0	0.0	3.6	7.3	14.5	18.2	21.8	21.8	21.8
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	9292.6	9292.6	9292.6	9292.6	9292.6	9292.6	9292.6	9292.6	9292.6	9292.6	9292.6
2.5°	8027.4	8165.5	8427.3	8689.1	8849.0	9038.1	9379.8	9561.6	9797.9	9914.3	10143.3
5°	6467.7	6794.9	6911.3	7209.4	7529.3	7849.2	8358.2	8918.1	9383.5	9703.4	10117.9
7.5°	4719.0	4795.3	5246.2	5446.1	5969.6	6551.3	7245.7	7951.0	8540.0	9063.5	9379.8
10°	3537.4	3817.4	4100.9	4482.7	4904.4	5504.3	6169.6	6947.6	7711.1	8234.6	8634.5
12.5°	2843.0	3064.8	3442.9	3853.7	4373.6	4769.9	5438.8	6209.6	7198.5	7711.1	8238.3
15°	2152.3	2435.8	2864.8	3290.2	3839.2	4257.3	4933.5	5904.2	7176.7	7882.0	8336.4
17.5°	1596.0	1788.7	2174.1	2650.3	3210.2	3799.2	4711.7	5871.5	7420.2	8260.1	8729.1
20°	1221.6	1287.0	1530.6	1955.9	2563.1	3333.8	4351.8	6013.3	8140.1	9179.9	9656.1
22.5°	988.9	1018.0	1112.5	1407.0	1995.9	2926.7	4180.9	6111.4	8950.8	10281.5	10917.7
25°	861.6	854.4	916.2	1043.4	1559.7	2544.9	3962.8	6482.3	9943.3	11575.7	12146.5
27.5°	785.3	785.3	814.4	905.3	1294.3	2297.7	3824.6	6747.7	10943.1	12713.7	13022.7
30°	745.3	752.6	836.2	865.3	1076.1	2003.2	3595.6	7016.7	11899.3	13440.8	13866.2
32.5°	690.8	661.7	643.5	716.2	905.3	1737.8	3366.6	7129.4	12673.7	14331.5	14695.1
35°	530.8	516.3	538.1	592.6	778.0	1512.4	3112.1	7256.6	13564.4	15364.0	15436.7
37.5°	479.9	476.3	490.8	538.1	654.4	1316.1	2930.3	7223.9	14244.3	16218.4	16022.1
40°	443.5	443.5	454.4	494.4	585.3	1177.9	2741.2	7194.8	14902.3	17178.2	16603.8
42.5°	414.5	414.5	432.6	458.1	556.2	1087.0	2599.4	7154.8	15454.9	17767.1	16945.5
45°	374.5	385.4	414.5	439.9	563.5	1025.2	2494.0	7002.2	15644.0	17759.9	16781.9
47.5°	345.4	359.9	389.0	425.4	509.0	1007.1	2421.3	6867.6	15578.5	17323.6	16269.3
50°	312.7	330.8	370.8	432.6	432.6	970.7	2345.0	6987.6	15531.3	16985.5	15778.5
52°	290.8	305.4	356.3	421.7	378.1	894.4	2297.7	7220.3	15723.9	16941.9	15560.3
52.5°	287.2	298.1	345.4	414.5	359.9	879.8	2265.0	7274.8	15785.7	16832.8	15709.4
55°	254.5	269.0	316.3	323.6	294.5	723.5	2159.5	7398.4	15480.4	16618.3	15567.6
57.5°	239.9	247.2	279.9	265.4	254.5	545.3	1857.8	7205.7	13749.8	14760.5	14484.2
60°	221.8	229.0	261.8	207.2	214.5	381.7	1396.1	6256.9	11041.3	12299.2	12797.3
62.5°	214.5	210.9	247.2	167.2	181.8	276.3	985.2	5086.2	8507.3	10125.1	10986.8
65°	189.1	185.4	178.1	141.8	156.3	214.5	589.0	3319.3	5995.1	7660.2	8132.8
67.5°	145.4	152.7	130.9	112.7	130.9	167.2	327.2	1487.0	3144.8	4595.4	4977.1
70°	101.8	109.1	105.4	98.2	116.3	138.2	189.1	509.0	1301.5	2414.0	2661.3
72.5°	61.8	76.3	80.0	83.6	101.8	120.0	134.5	163.6	345.4	854.4	1061.6
75°	36.4	50.9	61.8	72.7	83.6	101.8	112.7	116.3	120.0	160.0	258.1
77.5°	25.4	36.4	54.5	69.1	83.6	101.8	120.0	127.2	120.0	112.7	120.0
80°	21.8	36.4	50.9	65.4	87.3	105.4	120.0	120.0	116.3	101.8	109.1
82.5°	21.8	36.4	54.5	69.1	83.6	101.8	116.3	120.0	109.1	101.8	105.4
85°	25.4	40.0	58.2	72.7	90.9	83.6	76.3	61.8	58.2	47.3	50.9
87.5°	25.4	36.4	36.4	40.0	43.6	43.6	43.6	40.0	32.7	29.1	29.1
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°	9292.6	9292.6	9292.6	9292.6	9292.6	9292.6	9292.6	9292.6	9292.6	9292.6
2.5°	10154.2	10445.1	10434.2	10441.4	10397.8	10103.3	9961.5	9601.6	9703.4	9659.8
5°	10543.2	10830.4	11077.7	11048.6	10714.1	10314.2	9721.6	9161.7	9009.0	8783.6
7.5°	10154.2	10845.0	11074.0	11041.3	10546.9	10034.2	9089.0	8529.1	8263.7	8114.6
10°	9536.2	10336.0	10619.6	10677.7	10343.3	9565.2	8696.3	7798.3	7656.6	7398.4
12.5°	9183.5	9765.2	9939.7	10096.0	9979.7	9398.0	8398.2	7536.6	7340.3	7169.4
15°	8896.3	9241.7	9314.4	9492.5	9561.6	9249.0	8554.6	7820.2	7336.6	7318.5
17.5°	9161.7	9019.9	8754.5	8809.0	9027.2	9252.6	8958.1	8380.0	7911.1	7852.9
20°	9601.6	8976.3	8376.4	8510.9	8692.7	9383.5	9568.9	9161.7	8892.7	8743.6
22.5°	10107.0	9052.6	8256.4	8321.9	8667.3	9678.0	10557.8	10332.4	9830.6	9616.1
25°	11041.3	9263.5	8351.0	8394.6	8867.2	10088.8	11452.1	11619.4	11321.2	11277.6
27.5°	11953.8	9808.8	8558.2	8460.0	8969.0	10488.7	11993.8	12891.8	12368.3	12266.5
30°	12419.2	10252.4	8867.2	8700.0	9390.7	10732.3	12321.0	13720.7	13262.6	13215.4
32.5°	13131.8	10655.9	9107.2	8892.7	9627.1	11034.0	12931.8	14626.0	14182.5	13946.1
35°	13429.9	11095.8	9634.3	9383.5	10303.3	11455.8	13244.5	15433.1	15294.9	15065.9
37.5°	14004.3	11568.5	10256.0	10241.5	11121.3	12004.7	13808.0	16531.0	16505.6	16109.3
40°	14051.6	12084.7	11237.6	11695.7	12386.5	12960.9	14302.4	16836.4	17250.9	16981.9
42.5°	14124.3	12990.0	12935.4	13313.5	13906.1	13782.5	14320.6	16909.1	17541.7	17381.8
45°	14157.0	13895.2	14662.3	15360.4	15607.6	14858.7	14149.7	16771.0	17694.4	17294.5
47.5°	13895.2	14673.3	16058.4	17407.2	17479.9	15520.4	14077.0	16629.2	17785.3	17519.9
50°	13931.6	15160.4	17265.4	18472.5	18207.1	16105.7	13964.3	16542.0	17738.1	17559.9
52°	13844.3	15171.3	17436.3	18450.6	18265.2	15782.1	13771.6	16207.5	17694.4	17821.7
52.5°	13942.5	15105.9	17258.2	18465.2	18225.2	15942.1	13746.2	16392.9	17719.9	17461.8
55°	13604.4	14327.9	16214.7	16727.4	16691.0	14469.7	12964.5	15778.5	17054.6	17058.2
57.5°	12295.6	12419.2	12717.3	12706.4	12539.2	11375.8	11088.6	14509.7	15204.1	14826.0
60°	10834.1	9092.6	8289.2	7962.0	7776.5	7587.5	9808.8	13273.6	13339.0	13179.0
62.5°	9361.7	6304.1	5235.3	5144.4	5188.0	5878.8	9481.6	12782.7	12390.1	12044.7
65°	7554.8	4595.4	3802.8	3682.9	4108.2	4853.5	7674.7	9801.6	9198.1	8910.8
67.5°	4744.4	3352.0	2570.4	2345.0	2857.6	3341.1	5042.6	6158.7	5482.5	5086.2
70°	2813.9	1872.3	1163.4	1043.4	1174.3	1781.4	2824.9	3072.1	2541.3	2337.7
72.5°	1108.9	687.1	323.6	276.3	287.2	625.3	1039.8	1014.3	767.1	683.5
75°	298.1	207.2	112.7	90.9	76.3	116.3	167.2	109.1	40.0	50.9
77.5°	138.2	123.6	98.2	76.3	58.2	43.6	21.8	7.3	7.3	3.6
80°	120.0	105.4	90.9	76.3	58.2	36.4	18.2	3.6	3.6	3.6
82.5°	112.7	98.2	83.6	69.1	54.5	36.4	18.2	3.6	0.0	0.0
85°	47.3	61.8	69.1	65.4	58.2	36.4	18.2	3.6	0.0	0.0
87.5°	25.4	21.8	18.2	14.5	10.9	7.3	7.3	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

(END OF REPORT)