

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: P533827

Luminaire Tested: **GALN-SA9B-735-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533827
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-SA9B-735-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 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: 26565 lumens
Efficiency: N/A
Efficacy: 73.0 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

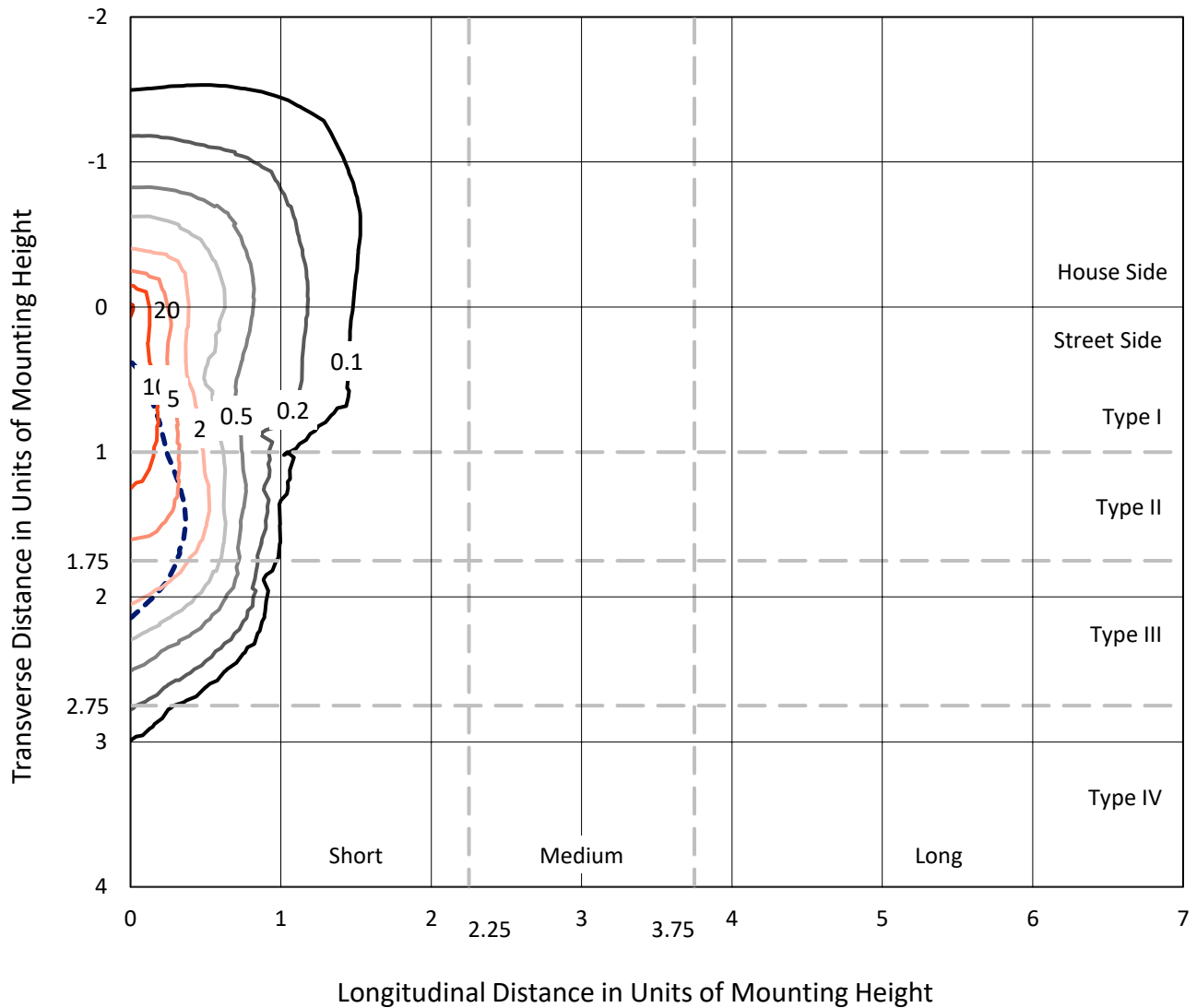
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

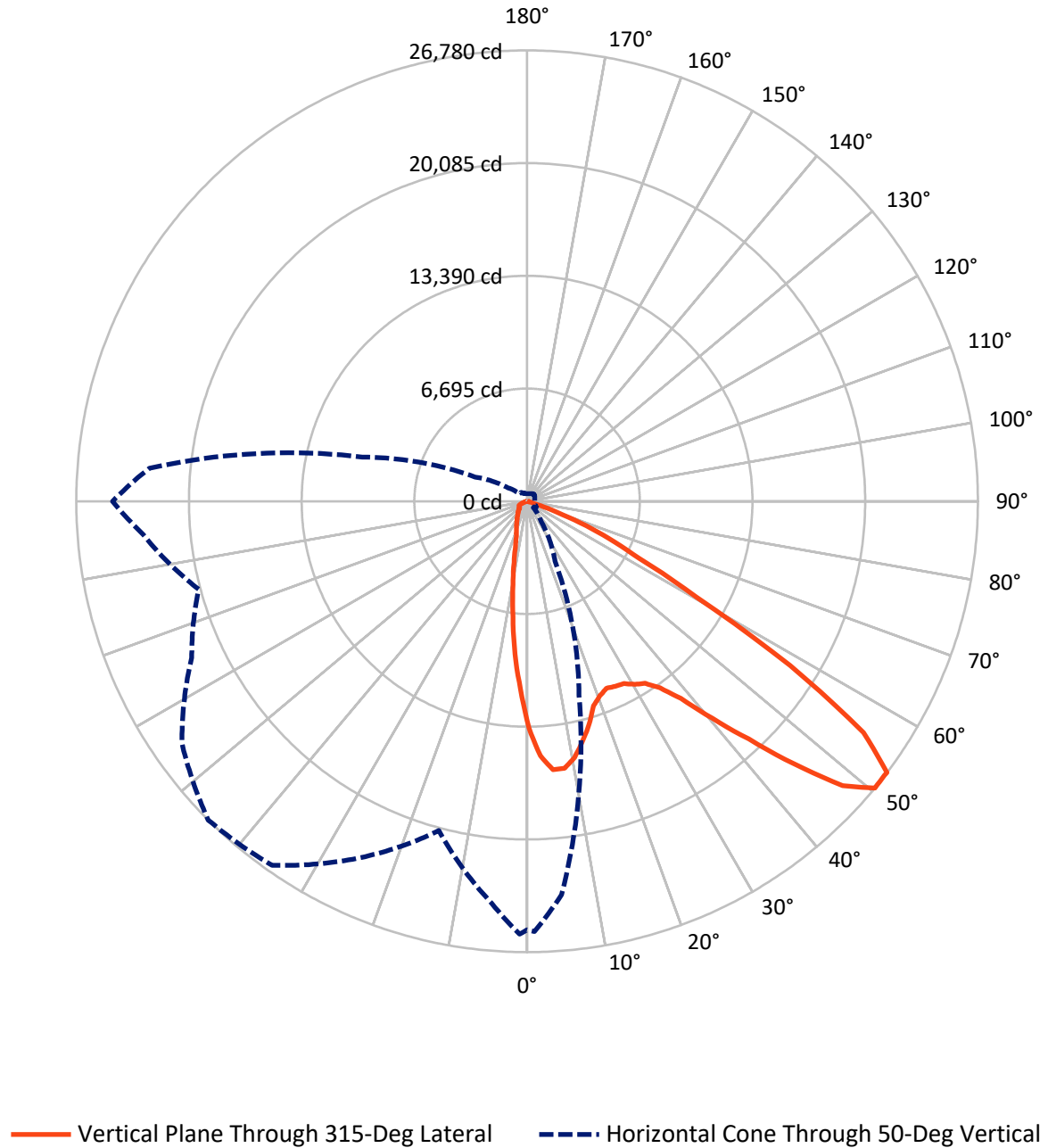
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.6 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	5321.0	0.0	5321.0
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	21244.0	0.0	21244.0
	% Fixture	80.0	0.0	80.0
Total	Lumens	26565.0	0.0	26565.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	981.9	3.7
10°-20°	1951.6	7.3
20°-30°	2931.9	11.0
30°-40°	4400.7	16.6
40°-50°	6184.8	23.3
50°-60°	6671.4	25.1
60°-70°	3097.5	11.7
70°-80°	291.4	1.1
80°-90°	53.7	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°	26565.0	100.0
0°-180°	26565.0	100.0

Coefficient of Utilization



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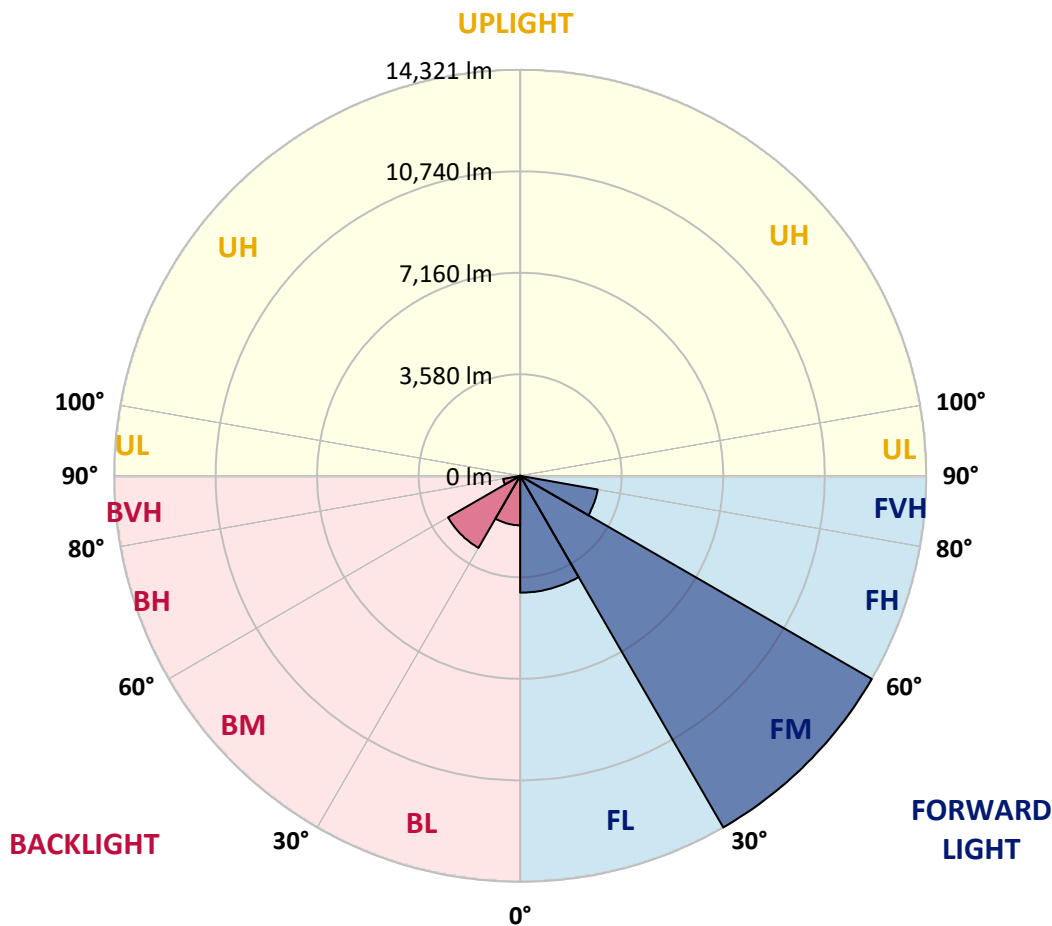
CATALOG NUMBER: GALN-SA9B-735-U-SLR-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4121.3	15.5			
FM (30°-60°)	14320.5	53.9			
FH (60°-80°)	2778.0	10.5			G2/5000
FVH (80°-90°)	24.2	0.1			G1/100
BL (0°-30°)	1744.1	6.6	B3/2500		
BM (30°-60°)	2936.4	11.1	B3/5000		
BH (60°-80°)	611.0	2.3	B2/1000		G2/1000
BVH (80°-90°)	29.5	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°	13471.8	13471.8	13471.8	13471.8	13471.8	13471.8	13471.8	13471.8	13471.8	13471.8	13471.8
2.5°	14004.1	13788.0	13514.0	13287.3	12950.0	12270.1	12085.6	11864.3	11679.8	11432.1	11084.2
5°	12733.9	12665.4	12538.9	11685.1	11068.4	10246.2	9571.5	9286.9	8912.7	8607.0	8385.6
7.5°	11764.1	11490.0	11089.5	10230.3	9244.7	8364.5	7616.1	7178.6	6683.2	6514.5	6214.1
10°	10725.8	10789.0	10198.7	8991.7	7800.6	7089.0	6625.2	6203.6	5755.6	5460.4	5033.5
12.5°	10393.7	10188.2	9734.9	8243.3	7226.1	6562.0	5998.0	5476.2	5001.9	4527.5	4116.4
15°	10609.8	10293.6	9661.1	8085.2	6783.3	5955.8	5249.6	4543.3	4105.8	3499.7	3072.8
17.5°	11384.6	11131.6	10283.1	8253.9	6556.7	5376.1	4327.2	3599.9	2930.5	2382.3	2166.2
20°	12675.9	12317.5	11252.9	8469.9	6219.4	4675.1	3510.3	2614.2	1981.8	1749.9	1628.6
22.5°	13940.9	13745.9	12401.9	8886.3	5918.9	4053.1	2635.3	1760.4	1481.1	1438.9	1359.8
25°	16349.6	15764.5	14157.0	9640.0	5687.0	3468.1	1987.0	1417.8	1254.4	1222.8	1233.3
27.5°	17783.2	17293.0	15780.4	10140.7	5428.8	3020.1	1681.3	1301.9	1191.2	1122.7	1096.3
30°	19158.8	18589.6	16586.8	10435.9	4875.4	2545.7	1491.6	1249.1	1222.8	1122.7	1091.0
32.5°	20218.2	19659.6	17751.6	10878.6	4648.7	2240.0	1228.1	975.1	906.6	896.0	990.9
35°	21841.6	21246.0	18747.7	11121.1	4474.8	2081.9	1064.7	869.7	790.6	759.0	764.2
37.5°	23354.3	22948.4	19670.1	11216.0	4290.3	2034.5	954.0	780.1	711.5	690.5	685.2
40°	24619.2	23712.7	20545.0	11316.1	4211.3	1944.9	885.5	711.5	664.1	632.5	632.5
42.5°	25199.0	24276.7	21525.4	11258.1	4190.2	1802.6	885.5	653.6	616.7	585.0	579.8
45°	25072.5	24698.3	21962.8	11231.8	4190.2	1660.3	806.4	637.7	585.0	542.9	532.3
47.5°	25399.3	24909.1	22511.0	11342.5	4105.8	1560.1	679.9	669.4	553.4	500.7	490.2
50°	25457.3	25552.2	23465.0	11917.0	3921.4	1433.6	532.3	658.8	532.3	453.3	442.7
52°	25836.8	25246.5	23754.9	12222.7	3726.4	1338.7	448.0	564.0	511.3	421.7	411.1
52.5°	25315.0	25699.7	23823.4	12333.3	3747.4	1275.5	432.2	553.4	500.7	421.7	395.3
55°	24729.9	25098.9	23544.0	12570.5	3436.5	1001.4	337.3	400.6	453.3	368.9	353.1
57.5°	21493.7	21868.0	20460.7	11511.1	2798.7	706.3	279.3	300.4	400.6	342.6	326.8
60°	19106.1	18837.3	17171.8	9603.1	1987.0	395.3	221.4	231.9	437.5	316.2	311.0
62.5°	17461.7	16887.2	14352.0	7415.8	1212.3	263.5	173.9	179.2	337.3	295.2	295.2
65°	12918.4	12275.4	9534.6	4485.3	595.6	184.5	131.8	142.3	210.8	253.0	253.0
67.5°	7373.7	7125.9	4606.6	2023.9	247.7	116.0	100.1	110.7	163.4	205.6	195.0
70°	3389.0	3041.2	1770.9	426.9	116.0	79.1	79.1	89.6	131.8	152.8	142.3
72.5°	990.9	938.2	432.2	68.5	47.4	47.4	52.7	68.5	100.1	116.0	105.4
75°	73.8	47.4	31.6	21.1	21.1	31.6	42.2	68.5	100.1	110.7	89.6
77.5°	5.3	10.5	5.3	5.3	15.8	31.6	47.4	84.3	131.8	137.0	100.1
80°	5.3	5.3	0.0	5.3	15.8	31.6	52.7	94.9	147.6	158.1	84.3
82.5°	0.0	0.0	0.0	5.3	21.1	42.2	63.2	100.1	137.0	168.7	89.6
85°	0.0	0.0	0.0	5.3	31.6	58.0	73.8	26.4	15.8	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°	13471.8	13471.8	13471.8	13471.8	13471.8	13471.8	13471.8	13471.8	13471.8	13471.8	13471.8
2.5°	11331.9	11194.9	11142.2	11189.6	11173.8	11158.0	11447.9	11384.6	11374.1	11469.0	11447.9
5°	8506.8	8264.4	8928.5	8659.7	8939.0	9107.7	9139.3	9155.1	9350.1	9144.6	9413.4
7.5°	6061.3	6124.5	6119.2	6298.4	6619.9	6904.6	7073.2	6941.5	6930.9	6904.6	6788.6
10°	4843.7	4733.1	4712.0	4669.8	4769.9	5012.4	5218.0	5054.6	4938.6	5096.7	5049.3
12.5°	3958.3	3805.4	3721.1	3552.4	3557.7	3721.1	3721.1	3721.1	3837.0	3926.6	3995.2
15°	3035.9	2909.4	2909.4	2740.7	2703.8	2709.1	2793.4	2804.0	2988.5	3041.2	3067.5
17.5°	2124.1	2055.6	2134.6	2203.1	2161.0	2171.5	2203.1	2213.7	2240.0	2218.9	2271.7
20°	1633.9	1623.4	1644.4	1765.7	1855.3	1908.0	1871.1	1818.4	1786.8	1713.0	1713.0
22.5°	1386.2	1407.3	1444.2	1544.3	1660.3	1691.9	1649.7	1528.5	1433.6	1423.1	1428.3
25°	1233.3	1254.4	1312.4	1375.6	1438.9	1491.6	1449.4	1359.8	1307.1	1259.7	1259.7
27.5°	1138.5	1149.0	1180.6	1228.1	1280.8	1322.9	1307.1	1259.7	1201.7	1180.6	1133.2
30°	1064.7	1080.5	1117.4	1127.9	1175.4	1196.4	1170.1	1159.5	1122.7	1096.3	1080.5
32.5°	1027.8	1022.5	1048.9	1059.4	1064.7	1080.5	1048.9	1064.7	1059.4	1017.2	1001.4
35°	774.8	817.0	885.5	943.4	959.3	980.3	975.1	954.0	896.0	848.6	790.6
37.5°	695.7	722.1	759.0	806.4	869.7	896.0	885.5	832.8	764.2	732.6	722.1
40°	643.0	658.8	690.5	722.1	785.3	832.8	795.9	748.4	695.7	669.4	653.6
42.5°	595.6	600.9	616.7	648.3	695.7	769.5	706.3	643.0	621.9	606.1	595.6
45°	542.9	542.9	564.0	579.8	632.5	701.0	637.7	579.8	569.2	558.7	553.4
47.5°	500.7	506.0	516.5	537.6	579.8	627.2	585.0	537.6	511.3	506.0	495.4
50°	448.0	453.3	474.4	495.4	548.1	574.5	548.1	495.4	469.1	453.3	453.3
52°	405.8	421.7	442.7	484.9	521.8	564.0	532.3	474.4	442.7	426.9	416.4
52.5°	400.6	411.1	432.2	479.6	521.8	558.7	527.1	469.1	432.2	421.7	411.1
55°	358.4	374.2	411.1	469.1	516.5	558.7	516.5	463.8	411.1	384.8	374.2
57.5°	342.6	353.1	400.6	474.4	511.3	558.7	516.5	463.8	411.1	363.7	353.1
60°	326.8	347.9	400.6	458.5	506.0	564.0	521.8	458.5	400.6	342.6	342.6
62.5°	311.0	326.8	395.3	448.0	484.9	542.9	500.7	448.0	384.8	326.8	321.5
65°	268.8	295.2	347.9	374.2	416.4	469.1	426.9	390.0	337.3	289.9	284.6
67.5°	205.6	216.1	258.3	289.9	316.2	363.7	342.6	295.2	258.3	221.4	221.4
70°	142.3	152.8	184.5	200.3	226.6	253.0	237.2	200.3	173.9	152.8	147.6
72.5°	100.1	105.4	116.0	126.5	137.0	147.6	142.3	116.0	100.1	94.9	89.6
75°	79.1	89.6	94.9	89.6	84.3	79.1	79.1	68.5	58.0	52.7	52.7
77.5°	79.1	84.3	79.1	68.5	58.0	52.7	47.4	42.2	31.6	26.4	31.6
80°	68.5	68.5	68.5	58.0	52.7	47.4	42.2	36.9	31.6	26.4	26.4
82.5°	73.8	73.8	68.5	58.0	58.0	47.4	47.4	42.2	36.9	26.4	26.4
85°	0.0	0.0	0.0	10.5	26.4	47.4	47.4	42.2	36.9	31.6	31.6
87.5°	0.0	0.0	0.0	0.0	5.3	10.5	21.1	26.4	31.6	31.6	31.6
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°	13471.8	13471.8	13471.8	13471.8	13471.8	13471.8	13471.8	13471.8	13471.8	13471.8	13471.8
2.5°	11637.6	11837.9	12217.4	12596.9	12828.8	13102.9	13598.3	13861.8	14204.4	14373.1	14705.1
5°	9376.5	9850.9	10019.5	10451.7	10915.5	11379.4	12117.2	12928.9	13603.6	14067.4	14668.2
7.5°	6841.3	6952.0	7605.6	7895.4	8654.4	9497.7	10504.4	11526.9	12380.8	13139.8	13598.3
10°	5128.4	5534.2	5945.3	6498.7	7110.1	7979.8	8944.3	10072.2	11179.1	11938.0	12517.8
12.5°	4121.7	4443.2	4991.3	5586.9	6340.6	6915.1	7884.9	9002.3	10435.9	11179.1	11943.3
15°	3120.2	3531.3	4153.3	4769.9	5565.8	6171.9	7152.3	8559.5	10404.3	11426.8	12085.6
17.5°	2313.8	2593.2	3151.9	3842.3	4654.0	5507.8	6830.8	8512.1	10757.4	11974.9	12654.9
20°	1770.9	1865.8	2218.9	2835.6	3715.8	4833.2	6309.0	8717.7	11801.0	13308.4	13998.9
22.5°	1433.6	1475.8	1612.8	2039.7	2893.6	4242.9	6061.3	8860.0	12976.4	14905.4	15827.8
25°	1249.1	1238.6	1328.2	1512.7	2261.1	3689.5	5745.0	9397.6	14415.3	16781.8	17609.3
27.5°	1138.5	1138.5	1180.6	1312.4	1876.4	3331.1	5544.7	9782.3	15864.7	18431.5	18879.5
30°	1080.5	1091.0	1212.3	1254.4	1560.1	2904.1	5212.7	10172.4	17250.9	19485.6	20102.3
32.5°	1001.4	959.3	932.9	1038.3	1312.4	2519.4	4880.6	10335.8	18373.5	20776.9	21304.0
35°	769.5	748.4	780.1	859.1	1127.9	2192.6	4511.7	10520.2	19664.8	22273.8	22379.2
37.5°	695.7	690.5	711.5	780.1	948.7	1908.0	4248.2	10472.8	20650.4	23512.4	23227.8
40°	643.0	643.0	658.8	716.8	848.6	1707.7	3974.1	10430.6	21604.4	24903.9	24071.1
42.5°	600.9	600.9	627.2	664.1	806.4	1575.9	3768.5	10372.7	22405.6	25757.7	24566.5
45°	542.9	558.7	600.9	637.7	817.0	1486.3	3615.7	10151.3	22679.6	25747.2	24329.4
47.5°	500.7	521.8	564.0	616.7	737.9	1460.0	3510.3	9956.3	22584.8	25114.7	23586.2
50°	453.3	479.6	537.6	627.2	627.2	1407.3	3399.6	10130.2	22516.3	24624.5	22874.7
52°	421.7	442.7	516.5	611.4	548.1	1296.6	3331.1	10467.5	22795.6	24561.3	22558.4
52.5°	416.4	432.2	500.7	600.9	521.8	1275.5	3283.6	10546.6	22885.2	24403.1	22774.5
55°	368.9	390.0	458.5	469.1	426.9	1048.9	3130.8	10725.8	22442.5	24092.2	22569.0
57.5°	347.9	358.4	405.8	384.8	368.9	790.6	2693.3	10446.4	19933.6	21398.9	20998.3
60°	321.5	332.1	379.5	300.4	311.0	553.4	2023.9	9070.8	16007.0	17830.6	18552.7
62.5°	311.0	305.7	358.4	242.5	263.5	400.6	1428.3	7373.7	12333.3	14678.8	15927.9
65°	274.1	268.8	258.3	205.6	226.6	311.0	853.8	4812.1	8691.3	11105.3	11790.5
67.5°	210.8	221.4	189.7	163.4	189.7	242.5	474.4	2155.7	4559.1	6662.1	7215.5
70°	147.6	158.1	152.8	142.3	168.7	200.3	274.1	737.9	1886.9	3499.7	3858.1
72.5°	89.6	110.7	116.0	121.2	147.6	173.9	195.0	237.2	500.7	1238.6	1539.0
75°	52.7	73.8	89.6	105.4	121.2	147.6	163.4	168.7	173.9	231.9	374.2
77.5°	36.9	52.7	79.1	100.1	121.2	147.6	173.9	184.5	173.9	163.4	173.9
80°	31.6	52.7	73.8	94.9	126.5	152.8	173.9	173.9	168.7	147.6	158.1
82.5°	31.6	52.7	79.1	100.1	121.2	147.6	168.7	173.9	158.1	147.6	152.8
85°	36.9	58.0	84.3	105.4	131.8	121.2	110.7	89.6	84.3	68.5	73.8
87.5°	36.9	52.7	52.7	58.0	63.2	63.2	63.2	58.0	47.4	42.2	42.2
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°	13471.8	13471.8	13471.8	13471.8	13471.8	13471.8	13471.8	13471.8	13471.8	13471.8
2.5°	14720.9	15142.6	15126.8	15137.3	15074.1	14647.2	14441.6	13919.8	14067.4	14004.1
5°	15284.9	15701.3	16059.7	16017.5	15532.6	14952.9	14093.7	13282.1	13060.7	12733.9
7.5°	14720.9	15722.4	16054.4	16007.0	15290.2	14547.0	13176.6	12365.0	11980.2	11764.1
10°	13824.9	14984.5	15395.6	15479.9	14995.0	13867.1	12607.4	11305.6	11100.0	10725.8
12.5°	13313.7	14157.0	14410.0	14636.6	14468.0	13624.7	12175.2	10926.1	10641.5	10393.7
15°	12897.3	13398.0	13503.4	13761.7	13861.8	13408.6	12401.9	11337.2	10636.2	10609.8
17.5°	13282.1	13076.5	12691.7	12770.8	13087.0	13413.8	12986.9	12148.9	11469.0	11384.6
20°	13919.8	13013.3	12143.6	12338.6	12602.1	13603.6	13872.4	13282.1	12892.0	12675.9
22.5°	14652.4	13123.9	11969.7	12064.5	12565.3	14030.5	15306.0	14979.2	14251.9	13940.9
25°	16007.0	13429.6	12106.7	12170.0	12855.1	14626.1	16602.6	16845.0	16412.8	16349.6
27.5°	17329.9	14220.2	12407.1	12264.8	13002.7	15205.9	17387.9	18689.8	17930.8	17783.2
30°	18004.6	14863.3	12855.1	12612.7	13614.1	15559.0	17862.3	19891.5	19227.4	19158.8
32.5°	19037.6	15448.3	13203.0	12892.0	13956.7	15996.4	18747.7	21203.9	20560.8	20218.2
35°	19469.8	16086.1	13967.2	13603.6	14937.0	16607.8	19201.0	22373.9	22173.7	21841.6
37.5°	20302.6	16771.2	14868.5	14847.4	16122.9	17403.7	20018.0	23965.7	23928.8	23354.3
40°	20371.1	17519.7	16291.6	16955.7	17957.1	18789.9	20734.8	24408.4	25009.3	24619.2
42.5°	20476.5	18832.1	18753.0	19301.2	20160.3	19981.1	20761.1	24513.8	25430.9	25199.0
45°	20523.9	20144.5	21256.6	22268.5	22626.9	21541.2	20513.4	24313.5	25652.3	25072.5
47.5°	20144.5	21272.4	23280.5	25235.9	25341.3	22500.4	20408.0	24108.0	25784.1	25399.3
50°	20197.2	21978.6	25030.4	26780.2	26395.5	23349.0	20244.6	23981.5	25715.5	25457.3
52°	20070.7	21994.5	25278.1	26748.6	26479.8	22879.9	19965.3	23496.6	25652.3	25836.8
52.5°	20213.0	21899.6	25019.8	26769.7	26421.8	23111.8	19928.4	23765.4	25689.2	25315.0
55°	19722.8	20771.7	23507.1	24250.3	24197.6	20977.2	18795.2	22874.7	24724.7	24729.9
57.5°	17825.4	18004.6	18436.8	18421.0	18178.5	16491.9	16075.5	21035.2	22041.9	21493.7
60°	15706.6	13181.9	12017.1	11542.7	11273.9	10999.9	14220.2	19243.2	19338.0	19106.1
62.5°	13571.9	9139.3	7589.7	7458.0	7521.2	8522.7	13745.9	18531.6	17962.4	17461.7
65°	10952.4	6662.1	5513.1	5339.2	5955.8	7036.3	11126.4	14209.7	13334.8	12918.4
67.5°	6878.2	4859.5	3726.4	3399.6	4142.7	4843.7	7310.4	8928.5	7948.2	7373.7
70°	4079.5	2714.4	1686.6	1512.7	1702.4	2582.6	4095.3	4453.7	3684.2	3389.0
72.5°	1607.6	996.2	469.1	400.6	416.4	906.6	1507.4	1470.5	1112.1	990.9
75°	432.2	300.4	163.4	131.8	110.7	168.7	242.5	158.1	58.0	73.8
77.5°	200.3	179.2	142.3	110.7	84.3	63.2	31.6	10.5	10.5	5.3
80°	173.9	152.8	131.8	110.7	84.3	52.7	26.4	5.3	5.3	5.3
82.5°	163.4	142.3	121.2	100.1	79.1	52.7	26.4	5.3	0.0	0.0
85°	68.5	89.6	100.1	94.9	84.3	52.7	26.4	5.3	0.0	0.0
87.5°	36.9	31.6	26.4	21.1	15.8	10.5	10.5	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)