

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: P529899

Luminaire Tested: **GALN-SA5A-750-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529899
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-750-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12661 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

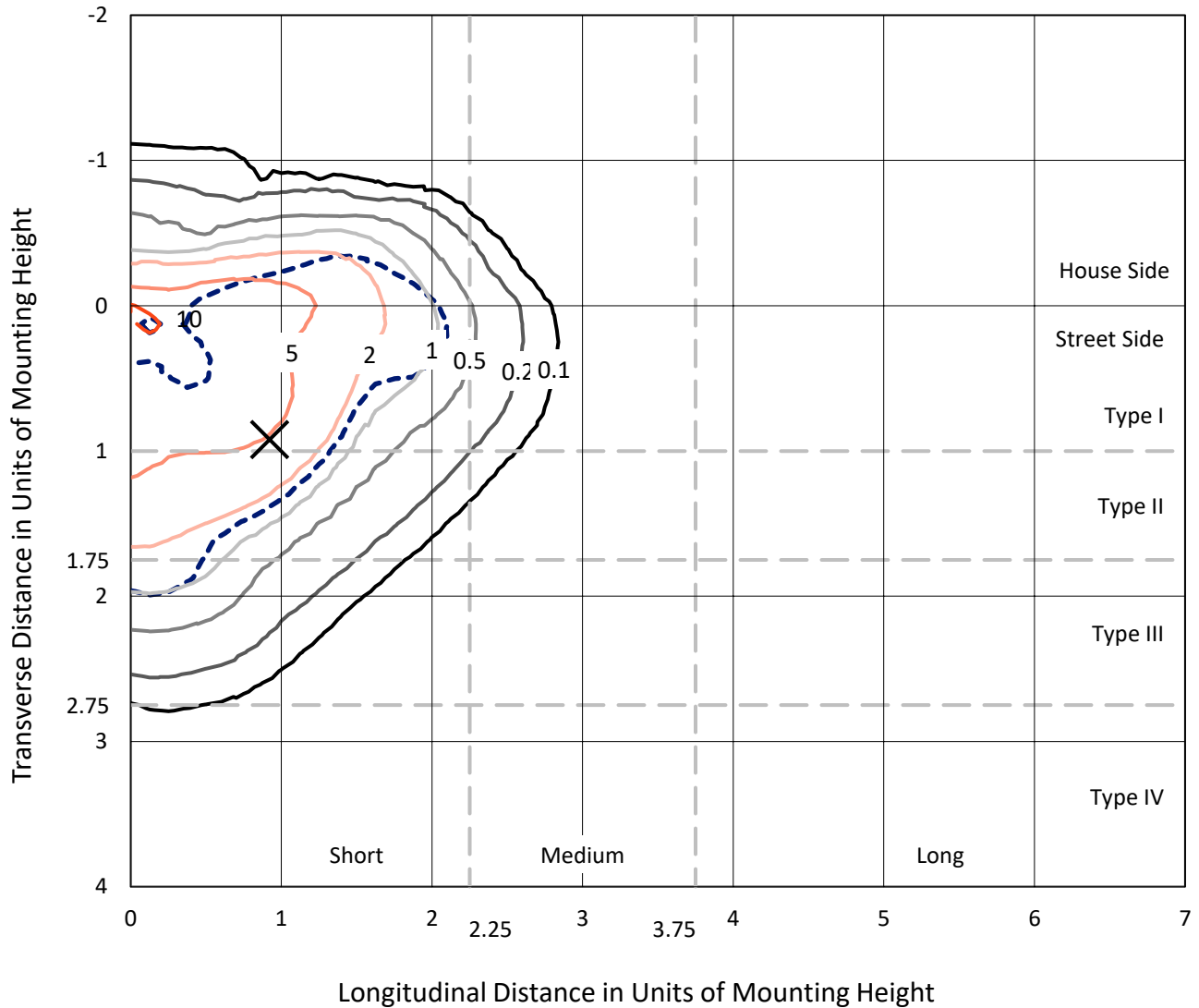
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

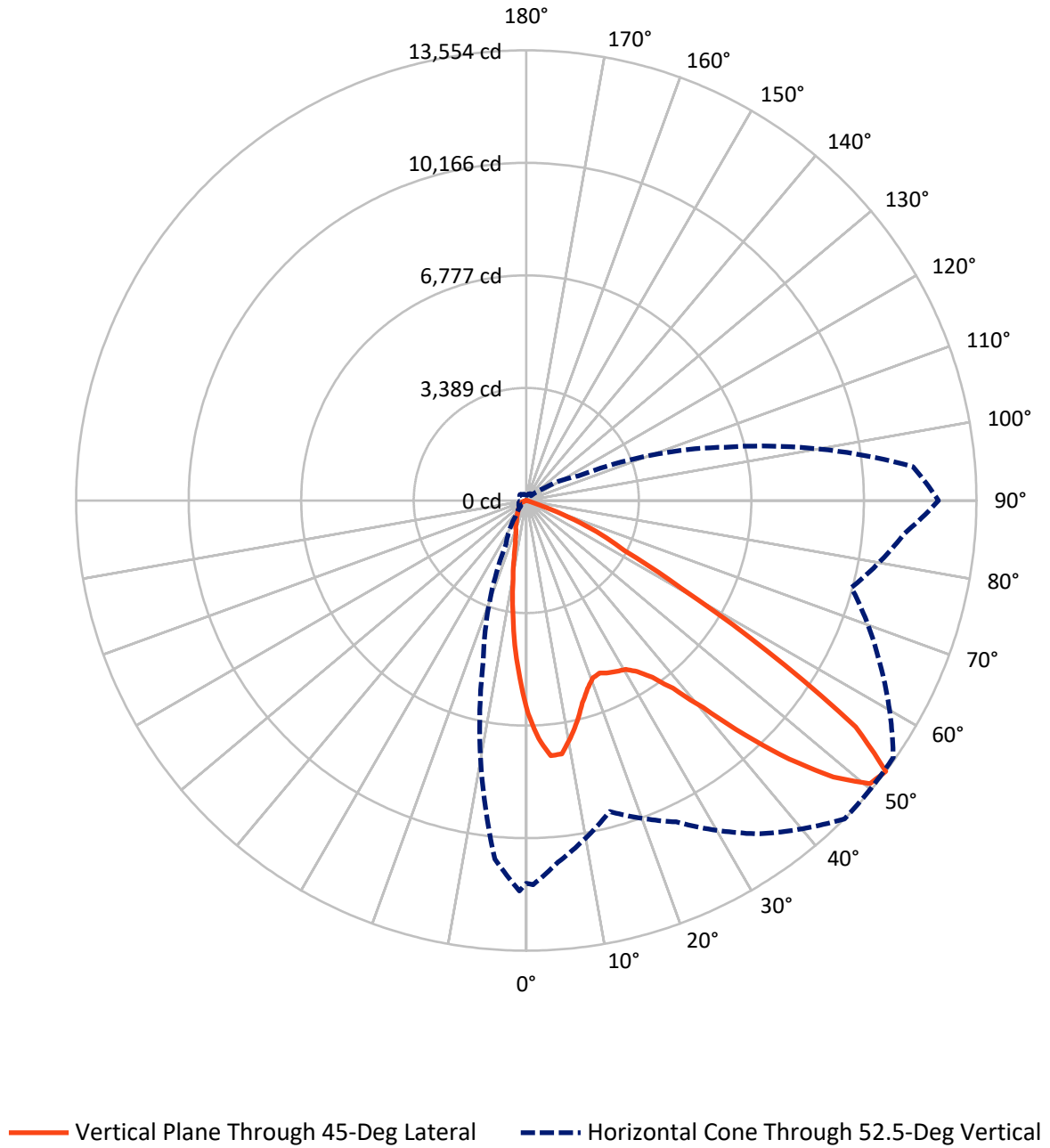
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 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	2569.6	0.0	2569.6
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	10091.4	0.0	10091.4
	% Fixture	79.7	0.0	79.7
Total	Lumens	12661.0	0.0	12661.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	468.2	3.7
10°-20°	923.7	7.3
20°-30°	1405.7	11.1
30°-40°	2101.0	16.6
40°-50°	2992.0	23.6
50°-60°	3216.3	25.4
60°-70°	1425.2	11.3
70°-80°	115.3	0.9
80°-90°	13.4	0.1
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°	12661.0	100.0
0°-180°	12661.0	100.0

Coefficient of Utilization

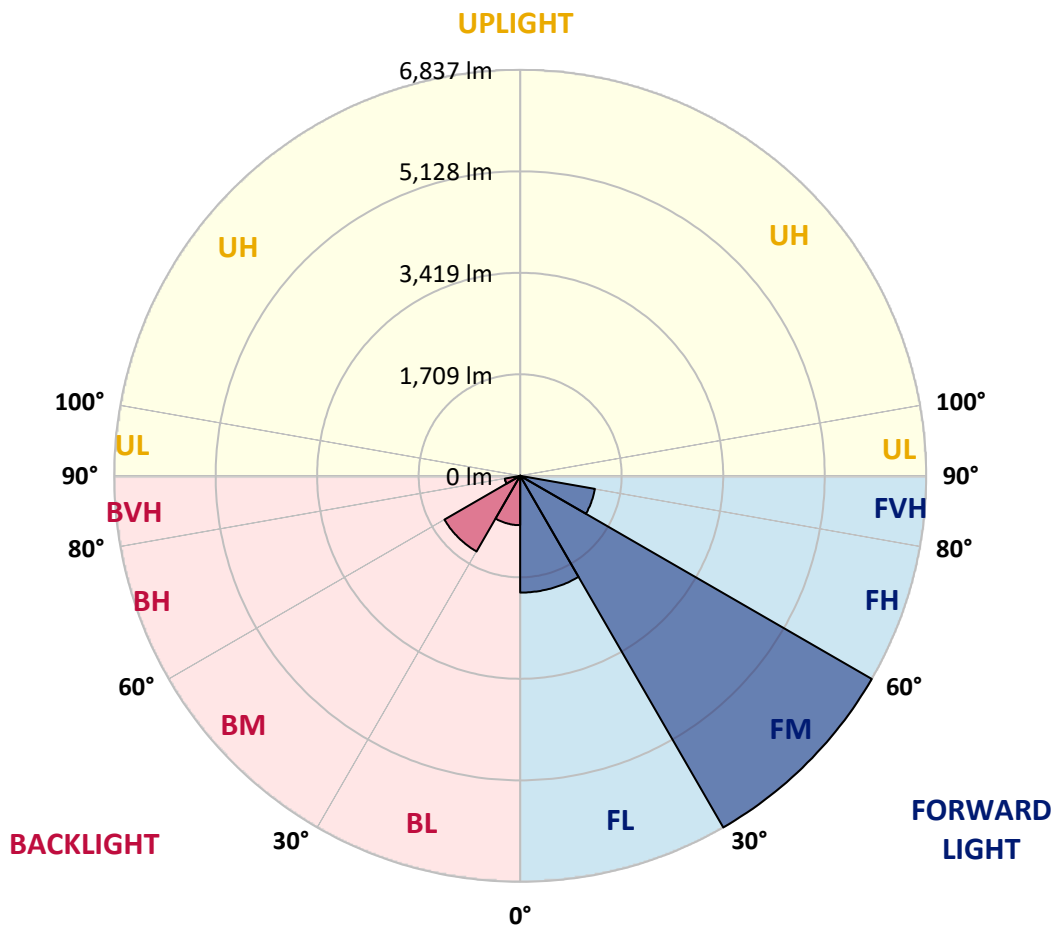


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1966.5	15.5			
FM (30°-60°)	6837.3	54.0			
FH (60°-80°)	1277.6	10.1			G1/1800
FVH (80°-90°)	10.0	0.1			G0/10
BL (0°-30°)	831.1	6.6	B2/1000		
BM (30°-60°)	1472.1	11.6	B2/2500		
BH (60°-80°)	262.9	2.1	B1/500		G1/500
BVH (80°-90°)	3.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6419.7	6419.7	6419.7	6419.7	6419.7	6419.7	6419.7	6419.7	6419.7	6419.7	6419.7
2.5°	6793.2	6813.2	6922.7	7059.7	7131.9	7296.3	7181.7	7211.6	7149.3	6930.2	6758.4
5°	6586.6	6584.1	6723.5	7062.2	7383.4	7709.6	7719.6	7545.3	7239.0	6902.8	6422.2
7.5°	5964.0	6061.1	6205.6	6745.9	7341.1	7585.1	7702.2	7498.0	7027.3	6546.7	6026.3
10°	5493.4	5543.2	5787.2	6439.6	6875.4	7201.6	7273.9	7156.8	6795.7	6195.6	5612.9
12.5°	5221.9	5246.8	5533.2	6081.0	6541.7	6783.3	6818.1	6872.9	6614.0	6051.2	5351.4
15°	5224.4	5244.3	5630.3	6088.5	6270.3	6205.6	6320.1	6317.6	6429.7	6023.8	5570.6
17.5°	5600.4	5622.9	5971.5	6198.1	6118.4	5966.5	5959.0	6073.6	6310.1	6364.9	5901.8
20°	6247.9	6300.2	6556.7	6544.2	6096.0	5789.7	5705.0	5792.2	6342.5	6653.8	6569.1
22.5°	7119.5	7191.7	7371.0	7027.3	6198.1	5670.2	5642.8	5812.1	6556.7	7298.8	7326.1
25°	8130.5	8252.5	8339.7	7898.9	6561.7	5876.9	5747.4	6038.7	6845.5	7998.5	8289.8
27.5°	8800.3	8927.3	8907.4	8277.4	6805.7	5931.6	5822.1	6093.5	7097.0	8165.3	8792.9
30°	9323.3	9400.5	9539.9	8481.6	7049.7	6086.0	5899.3	6325.1	7179.2	8454.2	9400.5
32.5°	9933.4	9985.7	9995.6	8842.7	7425.8	6280.3	6138.3	6614.0	7542.8	8730.6	9938.4
35°	10548.5	10625.7	10463.8	9288.4	7657.3	6641.3	6536.8	7114.5	7834.1	9017.0	10531.0
37.5°	11215.8	11255.7	10882.1	9472.7	7988.5	7229.0	7171.8	7654.9	8339.7	9534.9	11188.4
40°	11776.1	11813.5	11327.9	9699.3	8337.2	8050.8	8197.7	8685.8	9026.9	9871.1	11517.1
42.5°	12087.4	12174.5	11477.3	9574.8	9036.9	8982.1	9634.6	9806.4	9823.8	9965.7	11811.0
45°	12172.1	12132.2	11230.8	9676.9	9649.5	10513.6	11106.3	11332.9	10615.7	10140.1	11885.7
47.5°	11781.1	11833.4	10867.2	9587.2	10453.8	11674.0	12441.0	12861.8	11205.9	9988.2	11701.4
50°	11464.8	11397.6	10750.2	9522.5	10670.5	12221.9	13404.7	13499.3	11748.7	10174.9	11499.7
52.5°	11527.1	11569.4	10936.9	9694.3	10675.5	12254.2	13554.1	13489.4	11766.2	10132.6	11427.5
55°	11659.1	11472.3	10857.2	9315.8	9960.8	11350.3	12030.1	11930.5	10859.7	9681.9	11250.7
57.5°	10060.4	10349.2	9983.2	8317.2	8175.3	8551.3	8538.9	8845.2	8100.6	8332.2	10242.2
60°	8165.3	8215.1	8352.1	7114.5	5657.7	5528.2	5348.9	5154.7	5451.0	7124.4	9315.8
62.5°	7181.7	7121.9	7610.0	6472.0	3994.3	3344.3	3314.4	3434.0	4205.9	6795.7	8738.1
65°	5219.4	5294.1	5647.8	5022.7	2998.2	2552.4	2507.6	2861.2	3404.1	5446.1	6668.7
67.5°	3187.4	3331.9	3364.2	3097.8	2034.5	1616.1	1551.4	1872.6	2457.8	3523.6	3909.6
70°	1471.7	1646.0	1810.4	1690.8	1177.9	664.9	627.5	786.9	1240.1	2027.0	2074.3
72.5°	445.7	448.2	627.5	654.9	381.0	149.4	132.0	174.3	420.8	669.9	704.7
75°	32.4	34.9	84.7	97.1	72.2	37.4	39.8	47.3	89.6	149.4	112.1
77.5°	2.5	2.5	2.5	12.5	22.4	24.9	32.4	37.4	47.3	54.8	49.8
80°	2.5	0.0	2.5	10.0	17.4	24.9	29.9	34.9	37.4	42.3	37.4
82.5°	0.0	0.0	0.0	7.5	17.4	24.9	27.4	37.4	42.3	49.8	42.3
85°	0.0	0.0	0.0	7.5	17.4	27.4	24.9	12.5	0.0	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°	6419.7	6419.7	6419.7	6419.7	6419.7	6419.7	6419.7	6419.7	6419.7	6419.7	6419.7
2.5°	6788.3	6691.1	6469.5	6357.5	6093.5	6056.1	5797.2	5754.8	5667.7	5620.4	5505.8
5°	6210.5	6093.5	5732.4	5428.6	5075.0	4828.5	4639.2	4467.4	4367.8	4275.7	4318.0
7.5°	5739.9	5398.7	4997.8	4489.8	4081.4	3817.5	3528.6	3292.0	3152.6	3058.0	3080.4
10°	5246.8	5025.2	4467.4	3897.2	3404.1	3217.3	2990.7	2808.9	2612.2	2442.9	2363.2
12.5°	5092.4	4763.7	4064.0	3483.8	3110.3	2928.5	2669.5	2460.3	2208.8	2002.1	1929.9
15°	5119.8	4803.6	3954.4	3334.4	2893.6	2579.8	2271.1	2012.1	1735.7	1591.2	1516.5
17.5°	5565.6	5017.7	4026.6	3177.5	2592.3	2156.5	1775.5	1446.8	1240.1	1090.7	1058.3
20°	6113.4	5480.9	4181.0	3062.9	2345.8	1715.7	1297.4	1013.5	841.7	816.8	809.3
22.5°	6915.3	6237.9	4512.2	2985.7	2044.4	1337.2	889.0	737.1	689.8	684.8	687.3
25°	8035.9	7186.7	4873.3	2921.0	1817.8	1030.9	727.1	625.0	610.1	602.6	615.1
27.5°	8521.4	7759.4	5065.1	2781.5	1611.2	928.8	717.2	620.1	577.7	565.3	572.7
30°	9121.6	8140.4	5366.4	2542.5	1307.4	764.5	669.9	674.8	654.9	592.7	572.7
32.5°	9918.4	8616.1	5518.3	2373.2	1167.9	632.5	490.6	450.7	503.0	513.0	530.4
35°	10428.9	9099.2	5595.5	2273.5	1095.7	540.4	415.9	378.5	366.1	368.5	378.5
37.5°	11377.7	9751.6	5692.6	2169.0	1040.9	470.6	376.0	341.2	323.7	323.7	333.7
40°	11945.5	10269.6	5824.6	2111.7	986.1	428.3	341.2	311.3	296.3	296.3	301.3
42.5°	12087.4	10526.0	5779.7	2091.8	923.9	418.4	311.3	288.9	271.4	268.9	266.5
45°	12341.4	10917.0	5787.2	2069.3	859.1	381.0	293.8	268.9	244.0	241.5	239.1
47.5°	12620.3	11198.4	5802.1	1982.2	796.9	318.7	306.3	249.0	219.1	214.2	214.2
50°	12381.2	11422.5	5931.6	1895.0	717.2	259.0	301.3	234.1	194.2	186.8	189.3
52.5°	12411.1	11686.5	6205.6	1773.0	617.6	206.7	244.0	221.6	176.8	164.4	166.8
55°	11933.0	11407.6	6242.9	1643.5	483.1	159.4	186.8	194.2	149.4	144.4	144.4
57.5°	10272.0	9659.5	5508.3	1332.3	318.7	132.0	134.5	169.3	129.5	124.5	127.0
60°	8790.4	7754.5	4432.5	879.0	199.2	104.6	97.1	171.8	114.5	112.1	119.5
62.5°	8013.4	6372.4	3361.8	545.4	137.0	79.7	67.2	139.5	99.6	99.6	109.6
65°	5789.7	4280.6	1954.8	286.4	97.1	62.3	49.8	79.7	82.2	84.7	89.6
67.5°	3585.9	2161.5	824.3	139.5	64.7	42.3	32.4	49.8	54.8	54.8	59.8
70°	1770.5	861.6	273.9	79.7	49.8	34.9	22.4	27.4	27.4	24.9	27.4
72.5°	547.8	259.0	69.7	49.8	34.9	22.4	12.5	10.0	5.0	0.0	2.5
75°	62.3	49.8	44.8	34.9	22.4	10.0	2.5	0.0	0.0	0.0	0.0
77.5°	37.4	42.3	42.3	34.9	22.4	7.5	0.0	0.0	0.0	0.0	0.0
80°	29.9	32.4	34.9	32.4	19.9	10.0	0.0	0.0	0.0	0.0	0.0
82.5°	37.4	42.3	47.3	42.3	27.4	12.5	5.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	7.5	2.5	0.0	0.0	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	6419.7	6419.7	6419.7	6419.7	6419.7	6419.7	6419.7	6419.7	6419.7	6419.7	6419.7
2.5°	5458.5	5403.7	5480.9	5366.4	5363.9	5366.4	5334.0	5304.1	5351.4	5478.4	5490.9
5°	4166.1	4283.1	4320.5	4442.5	4375.3	4275.7	4295.6	4228.3	4392.7	4464.9	4407.6
7.5°	3033.1	3025.6	3277.1	3292.0	3324.4	3326.9	3321.9	3189.9	3055.5	3085.3	3175.0
10°	2353.2	2226.2	2348.3	2335.8	2415.5	2393.1	2425.4	2283.5	2330.8	2330.8	2388.1
12.5°	1917.4	1783.0	1760.6	1728.2	1760.6	1773.0	1785.5	1758.1	1837.8	1875.1	1915.0
15°	1464.2	1389.5	1369.6	1307.4	1317.3	1352.2	1382.1	1394.5	1369.6	1426.9	1431.9
17.5°	1063.3	1060.8	1073.3	1070.8	1060.8	1053.4	1050.9	1018.5	1008.5	1013.5	1033.4
20°	806.8	826.7	869.1	911.4	933.8	906.4	869.1	814.3	791.9	796.9	799.4
22.5°	689.8	719.7	776.9	824.3	846.7	796.9	729.6	682.3	672.4	669.9	667.4
25°	625.0	659.9	702.2	717.2	714.7	684.8	635.0	615.1	610.1	605.1	582.7
27.5°	590.2	602.6	610.1	627.5	635.0	615.1	602.6	572.7	567.8	567.8	552.8
30°	570.3	562.8	572.7	560.3	570.3	555.3	557.8	557.8	545.4	550.3	550.3
32.5°	530.4	532.9	532.9	508.0	515.5	498.0	515.5	530.4	532.9	535.4	555.3
35°	388.5	433.3	455.7	455.7	463.2	450.7	448.2	430.8	408.4	386.0	376.0
37.5°	341.2	358.6	388.5	405.9	418.4	408.4	386.0	358.6	346.1	336.2	326.2
40°	303.8	318.7	338.7	358.6	383.5	371.0	336.2	323.7	308.8	308.8	298.8
42.5°	273.9	281.4	293.8	323.7	351.1	326.2	301.3	291.4	283.9	281.4	278.9
45°	246.5	249.0	261.5	286.4	318.7	293.8	268.9	256.5	259.0	261.5	259.0
47.5°	221.6	226.6	234.1	264.0	283.9	271.4	244.0	236.6	236.6	236.6	239.1
50°	191.7	204.2	219.1	244.0	259.0	251.5	229.1	219.1	214.2	214.2	216.6
52.5°	171.8	181.8	201.7	231.6	251.5	239.1	216.6	201.7	191.7	189.3	194.2
55°	149.4	166.8	199.2	221.6	249.0	236.6	211.7	194.2	176.8	174.3	174.3
57.5°	134.5	161.9	191.7	219.1	241.5	231.6	211.7	189.3	166.8	164.4	164.4
60°	127.0	156.9	186.8	211.7	241.5	226.6	209.2	184.3	159.4	159.4	156.9
62.5°	119.5	146.9	176.8	201.7	231.6	219.1	201.7	176.8	151.9	151.9	146.9
65°	99.6	127.0	146.9	169.3	201.7	189.3	171.8	154.4	134.5	129.5	132.0
67.5°	69.7	87.2	107.1	129.5	149.4	144.4	137.0	124.5	107.1	104.6	102.1
70°	34.9	47.3	64.7	87.2	104.6	99.6	94.6	84.7	74.7	72.2	72.2
72.5°	5.0	14.9	27.4	39.8	54.8	57.3	54.8	52.3	49.8	47.3	49.8
75°	0.0	0.0	0.0	10.0	22.4	27.4	32.4	37.4	37.4	32.4	39.8
77.5°	0.0	0.0	0.0	0.0	2.5	12.5	24.9	32.4	39.8	34.9	47.3
80°	0.0	0.0	0.0	0.0	2.5	14.9	24.9	34.9	39.8	34.9	49.8
82.5°	0.0	0.0	0.0	0.0	2.5	17.4	24.9	32.4	37.4	34.9	44.8
85°	0.0	0.0	0.0	0.0	7.5	14.9	10.0	5.0	2.5	2.5	7.5
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6419.7	6419.7	6419.7	6419.7	6419.7	6419.7	6419.7	6419.7	6419.7	6419.7
2.5°	5560.6	5737.4	5926.7	5998.9	6223.0	6392.3	6506.9	6753.4	6790.8	6793.2
5°	4467.4	4557.1	4880.8	5032.7	5366.4	5625.3	5901.8	6300.2	6566.6	6586.6
7.5°	3175.0	3424.0	3561.0	3956.9	4367.8	4773.7	5184.6	5647.8	5956.5	5964.0
10°	2554.9	2716.8	2960.8	3257.2	3603.3	4016.7	4564.5	5102.4	5416.2	5493.4
12.5°	2056.9	2340.8	2619.7	2926.0	3189.9	3501.2	4091.4	4808.6	5067.5	5221.9
15°	1583.8	1842.7	2171.4	2530.0	2828.9	3244.7	3917.1	4736.3	5172.1	5224.4
17.5°	1167.9	1399.5	1703.3	2042.0	2490.2	3080.4	3947.0	5102.4	5513.3	5600.4
20°	839.2	973.7	1212.7	1606.2	2176.4	2888.6	3976.8	5473.4	6098.5	6247.9
22.5°	664.9	719.7	876.5	1225.2	1825.3	2686.9	4188.5	6183.1	6902.8	7119.5
25°	577.7	607.6	682.3	966.2	1603.7	2667.0	4527.2	7034.8	7973.6	8130.5
27.5°	557.8	562.8	627.5	886.5	1484.2	2535.0	4656.7	7639.9	8641.0	8800.3
30°	587.7	667.4	672.4	749.5	1262.5	2273.5	4723.9	8225.1	9206.2	9323.3
32.5°	508.0	483.1	500.5	580.2	1110.6	2121.6	4850.9	8735.6	9851.2	9933.4
35°	353.6	371.0	410.9	503.0	971.2	1962.3	4883.3	9298.4	10463.8	10548.5
37.5°	326.2	336.2	368.5	428.3	854.1	1872.6	4838.4	9709.3	11098.8	11215.8
40°	303.8	316.3	333.7	388.5	767.0	1773.0	4776.2	10080.3	11487.3	11776.1
42.5°	286.4	296.3	311.3	371.0	692.3	1673.4	4689.0	10603.2	11835.9	12087.4
45°	266.5	281.4	298.8	361.1	649.9	1606.2	4624.3	10570.9	12037.6	12172.1
47.5°	246.5	271.4	291.4	336.2	637.5	1573.8	4651.7	10448.8	11873.2	11781.1
50°	226.6	259.0	293.8	278.9	607.6	1509.1	4684.1	10615.7	11482.3	11464.8
52.5°	209.2	246.5	273.9	229.1	540.4	1446.8	4997.8	10834.8	11758.7	11527.1
55°	184.3	221.6	219.1	184.3	438.3	1399.5	5244.3	10839.8	11571.9	11659.1
57.5°	166.8	196.7	171.8	154.4	323.7	1170.4	4843.4	9089.2	9906.0	10060.4
60°	154.4	191.7	129.5	122.0	211.7	844.2	4228.3	7039.8	7874.0	8165.3
62.5°	141.9	181.8	102.1	99.6	146.9	600.1	3476.3	5891.8	6785.8	7181.7
65°	124.5	129.5	82.2	77.2	104.6	323.7	2116.7	4056.5	5072.5	5219.4
67.5°	102.1	99.6	67.2	62.3	69.7	156.9	933.8	2032.0	2940.9	3187.4
70°	82.2	82.2	57.3	49.8	49.8	72.2	244.0	809.3	1329.8	1471.7
72.5°	59.8	62.3	44.8	39.8	37.4	34.9	39.8	161.9	348.6	445.7
75°	52.3	54.8	44.8	34.9	27.4	22.4	17.4	14.9	19.9	32.4
77.5°	57.3	57.3	47.3	32.4	24.9	17.4	10.0	5.0	5.0	2.5
80°	72.2	74.7	62.3	42.3	29.9	19.9	12.5	5.0	2.5	2.5
82.5°	77.2	84.7	69.7	52.3	37.4	22.4	12.5	2.5	0.0	0.0
85°	19.9	32.4	54.8	47.3	37.4	22.4	12.5	2.5	0.0	0.0
87.5°	0.0	2.5	7.5	7.5	10.0	10.0	7.5	2.5	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)