

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: P457771

Luminaire Tested: **GALN-SA9A-827-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457771
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9A-827-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21887 lumens
Efficiency: N/A
Efficacy: 79.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

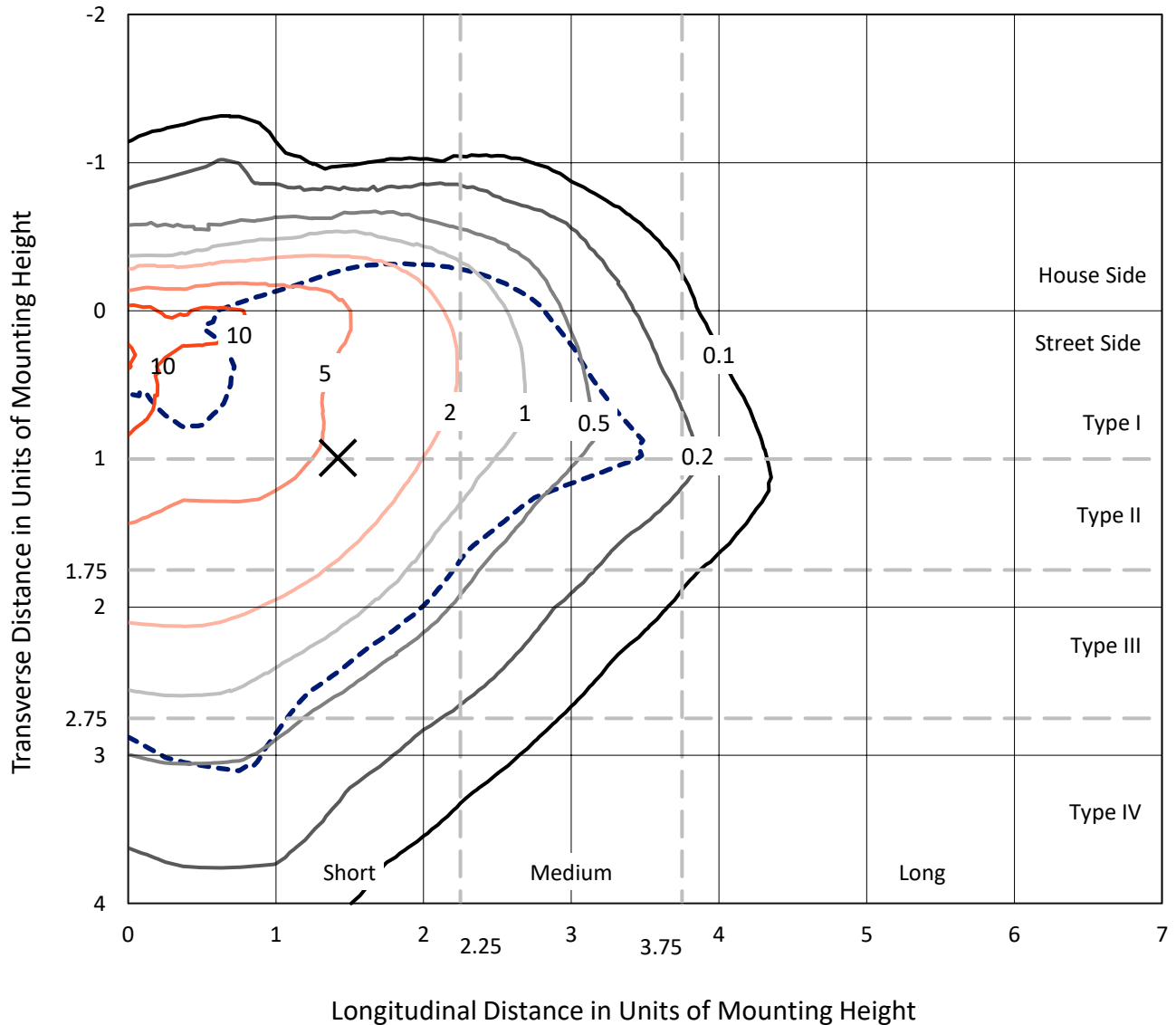
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

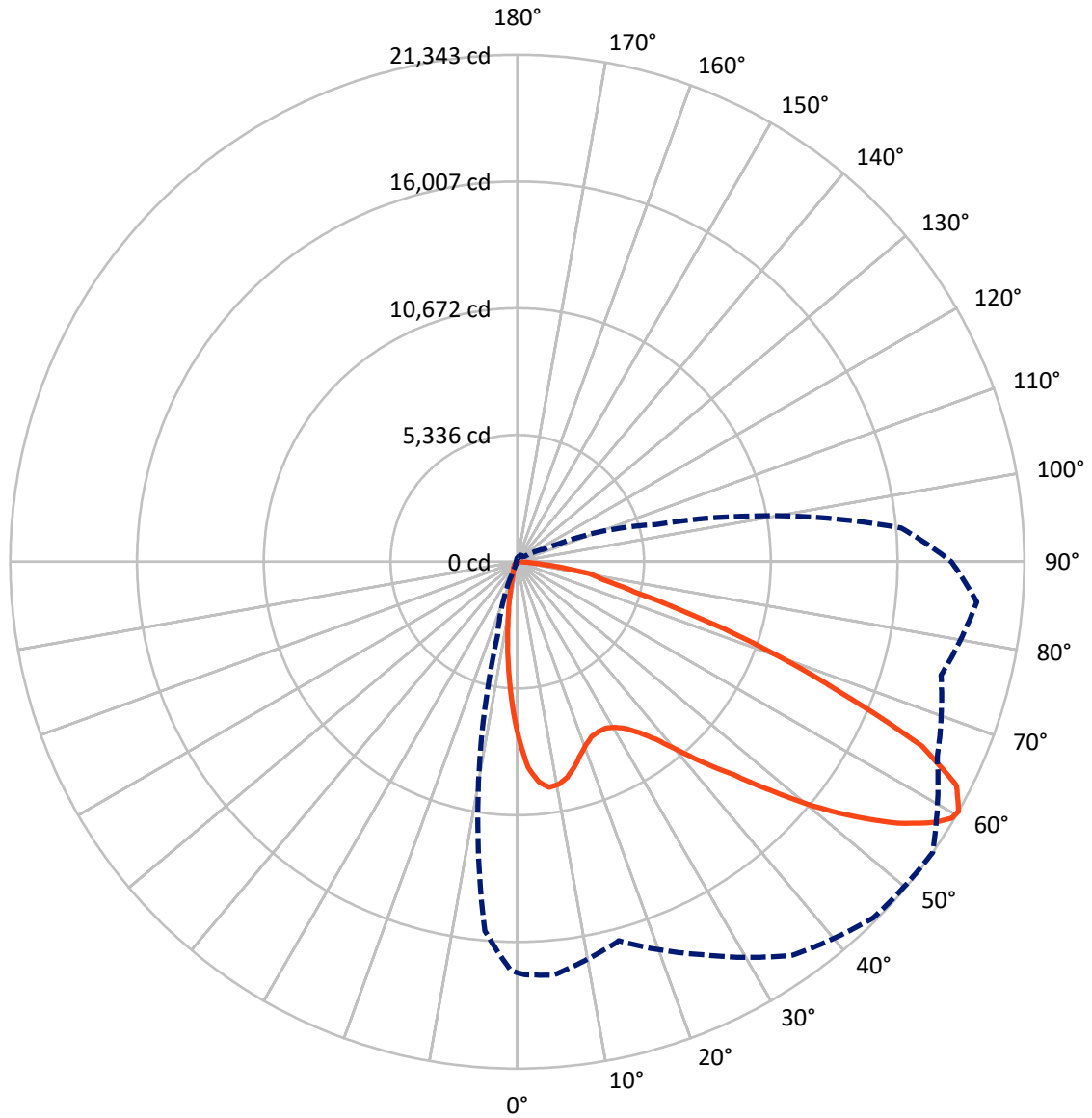
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3248.2	0.0	3248.2
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	18638.8	0.0	18638.8
	% Fixture	85.2	0.0	85.2
Total	Lumens	21887.0	0.0	21887.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	548.8	2.5
10°-20°	1080.7	4.9
20°-30°	1599.6	7.3
30°-40°	2384.4	10.9
40°-50°	3492.0	16.0
50°-60°	5041.3	23.0
60°-70°	5303.2	24.2
70°-80°	2181.6	10.0
80°-90°	255.5	1.2
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°	21887.0	100.0
0°-180°	21887.0	100.0

Coefficient of Utilization



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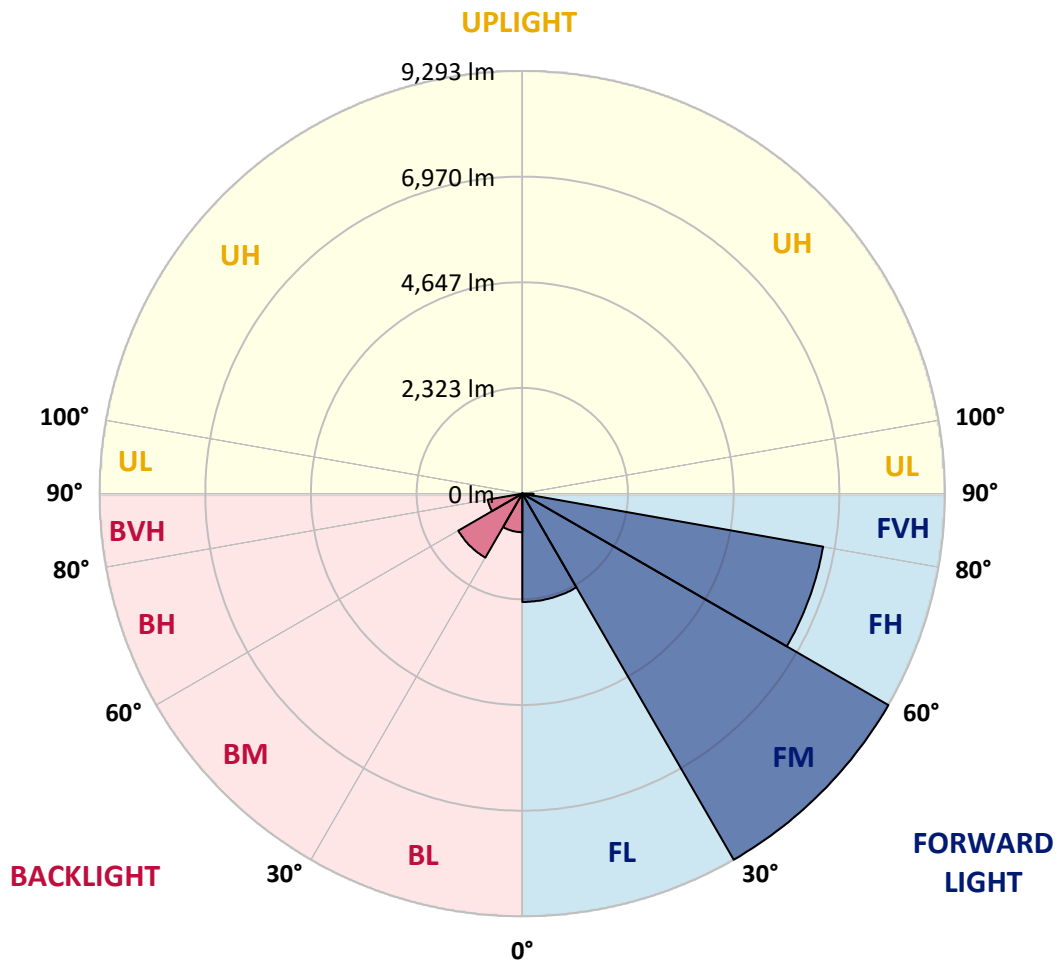
CATALOG NUMBER: GALN-SA9A-827-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2381.6	10.9			
FM	(30°-60°)	9293.3	42.5			
FH	(60°-80°)	6715.9	30.7			G3/7500
FVH	(80°-90°)	248.0	1.1			G3/500
BL	(0°-30°)	847.5	3.9	B2/1000		
BM	(30°-60°)	1624.4	7.4	B2/2500		
BH	(60°-80°)	768.8	3.5	B2/1000		G2/1000
BVH	(80°-90°)	7.5	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7410.9	7410.9	7410.9	7410.9	7410.9	7410.9	7410.9	7410.9	7410.9	7410.9	7410.9
2.5°	8096.5	8083.1	8202.7	8398.1	8595.2	8698.0	8677.8	8669.3	8505.9	8386.3	8135.3
5°	8079.7	8148.8	8362.7	8891.7	9292.7	9486.4	9543.7	9302.8	8984.4	8522.8	7953.3
7.5°	7596.2	7682.1	8030.8	8858.0	9570.6	9991.8	9976.6	9590.8	8933.8	8219.5	7407.5
10°	6996.4	7097.5	7506.9	8511.0	9435.9	9991.8	10022.1	9533.6	8716.5	7800.0	6945.9
12.5°	6573.6	6693.2	7146.4	8187.5	9088.8	9636.3	9671.7	9317.9	8553.1	7638.3	6694.9
15°	6430.4	6543.3	7003.2	8024.1	8719.9	9014.7	9006.3	8969.2	8489.1	7677.1	6708.4
17.5°	6676.4	6769.0	7287.9	8098.2	8374.5	8344.2	8388.0	8566.6	8502.5	8002.2	7132.9
20°	7311.5	7405.8	7963.5	8325.7	8110.0	7918.0	7938.2	8236.4	8627.2	8613.7	7796.7
22.5°	8185.8	8345.9	8851.3	8767.0	8074.6	7653.5	7611.4	7998.8	8839.5	9317.9	8692.9
25°	9292.7	9454.4	9848.6	9471.2	8248.2	7591.1	7552.4	7926.4	9097.2	10005.3	9702.0
27.5°	10222.6	10345.6	10738.1	10156.9	8504.2	7618.1	7554.1	7936.5	9306.1	10589.9	10552.8
30°	10967.2	11058.2	11289.0	10477.0	8724.9	7736.0	7661.9	8084.7	9398.8	10874.6	11241.8
32.5°	11567.0	11720.3	11792.7	10819.0	9041.6	7958.4	7832.0	8369.5	9624.5	11226.7	11964.5
35°	12252.6	12429.5	12336.9	11145.8	9459.4	8305.4	8150.4	8831.1	9966.5	11551.8	12803.5
37.5°	13121.9	13325.8	12963.6	11489.5	9900.8	8827.7	8755.2	9479.7	10485.4	12016.8	13703.1
40°	14021.5	14139.5	13571.7	11907.3	10443.3	9587.5	9656.5	10443.3	11164.3	12574.4	14660.0
42.5°	14724.0	14835.2	14196.7	12257.7	10997.5	10488.8	10776.9	11605.7	11942.6	13145.5	15374.3
45°	15261.5	15355.8	14629.7	12640.1	11745.5	11794.4	12338.5	12803.5	12722.7	13494.2	15925.2
47.5°	15679.3	15760.1	14963.3	13051.2	12865.8	13391.5	14223.7	14420.8	13531.3	13871.6	16423.9
50°	15851.1	15874.7	15067.7	13575.1	14137.8	15426.6	16294.2	16174.5	14457.9	14291.1	16954.6
52.5°	16075.2	16070.1	15365.9	14073.8	15333.9	17246.0	18111.9	17840.7	15505.7	14919.5	17550.9
55°	16663.1	16669.8	16004.4	14781.3	16353.1	18715.0	19641.6	19444.5	16610.9	15980.8	18246.7
57.5°	17377.4	17402.7	16912.4	15608.5	17326.9	19779.7	20783.8	20708.0	18105.2	17161.8	18903.7
59°	17470.1	17520.6	17342.0	16191.4	17904.7	20106.6	21174.7	21248.8	18905.4	17940.1	19259.2
60°	17301.6	17385.8	17466.7	16521.6	18243.3	20224.5	21198.2	21343.1	19506.8	18469.1	19420.9
62.5°	16567.1	16700.2	17106.2	17537.4	18666.2	19857.2	20445.2	20748.4	20251.5	19858.9	19436.1
65°	15605.1	15674.2	16260.5	17717.7	17845.7	18142.2	18324.2	18713.4	19356.9	20394.7	18740.3
67.5°	14028.3	14232.1	14949.8	16671.5	15424.9	15074.5	15029.0	14641.5	16312.7	19117.7	17025.3
70°	11588.9	11679.8	12564.3	13667.8	11641.1	11102.0	11317.6	11172.8	12645.2	16457.6	13703.1
72.5°	8763.7	8969.2	9833.4	10894.8	7921.3	7222.2	7816.9	7763.0	9498.2	13226.4	9414.0
75°	6235.0	6368.1	7469.8	8526.1	5547.6	4700.2	4914.2	5114.7	6630.9	10443.3	5562.8
77.5°	4284.1	4398.7	5225.9	5638.6	4046.6	3876.4	3546.2	3740.0	4344.8	6196.2	3027.4
80°	2584.3	2579.2	3123.4	3224.5	2818.5	3273.3	2746.0	3083.0	2626.4	2651.7	1172.5
82.5°	1677.9	1661.1	1910.4	2082.3	1568.4	1649.3	1106.8	1595.4	1711.6	739.6	370.6
85°	751.4	783.4	918.1	1211.3	687.3	365.6	225.7	490.2	729.5	372.3	0.0
87.5°	77.5	60.6	161.7	294.8	94.3	10.1	33.7	16.8	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°	7410.9	7410.9	7410.9	7410.9	7410.9	7410.9	7410.9	7410.9	7410.9	7410.9	7410.9
2.5°	8019.0	7921.3	7629.9	7357.0	7122.8	6836.4	6651.1	6359.6	6182.8	6128.8	6137.3
5°	7697.3	7415.9	6861.7	6418.6	5925.0	5643.7	5215.7	4804.7	4582.3	4499.8	4462.7
7.5°	7023.4	6721.8	6053.0	5357.3	4828.3	4334.7	4016.3	3654.1	3406.4	3202.6	3167.2
10°	6523.1	6127.2	5298.3	4550.3	4132.5	3761.9	3443.5	3081.3	2789.8	2557.3	2493.3
12.5°	6223.2	5780.1	4855.2	4228.5	3832.6	3451.9	3037.5	2618.0	2319.8	2068.8	1952.5
15°	6169.3	5655.4	4730.6	3997.7	3509.2	3049.3	2498.4	2045.2	1738.6	1501.0	1428.6
17.5°	6494.4	5879.5	4712.0	3756.8	3086.3	2434.4	1861.6	1485.9	1140.5	1007.4	955.2
20°	7073.9	6275.4	4710.3	3477.2	2651.7	1875.0	1307.3	968.7	828.9	764.8	734.5
22.5°	7864.1	6814.5	4799.6	3236.3	2200.2	1383.1	933.3	771.6	690.7	638.5	626.7
25°	8829.4	7613.0	5018.6	3072.8	1854.8	1084.9	769.9	660.4	593.0	569.4	559.3
27.5°	9686.9	8377.9	5259.5	2904.4	1607.2	960.3	714.3	604.8	550.9	532.4	517.2
30°	10426.4	9072.0	5375.8	2682.0	1408.4	879.4	724.4	646.9	576.2	520.6	495.3
32.5°	11043.0	9604.3	5451.6	2479.8	1239.9	719.4	572.8	500.3	468.3	448.1	431.3
35°	11814.6	10180.5	5406.1	2365.3	1154.0	655.3	522.2	431.3	377.4	336.9	320.1
37.5°	12623.3	10756.6	5326.9	2270.9	1115.3	608.2	497.0	409.4	350.4	308.3	286.4
40°	13460.5	11290.7	5234.3	2183.3	1079.9	577.8	481.8	390.8	331.9	286.4	262.8
42.5°	14227.1	11811.2	5197.2	2126.1	1022.6	582.9	470.0	382.4	313.3	266.2	246.0
45°	14847.0	12304.9	5247.8	2095.7	960.3	574.5	473.4	372.3	298.2	252.7	232.5
47.5°	15509.1	13002.3	5411.2	2065.4	899.6	534.0	498.7	370.6	291.4	244.3	222.4
50°	16279.0	13895.2	5785.2	1991.3	825.5	490.2	530.7	368.9	283.0	234.2	212.3
52.5°	17305.0	14909.4	6171.0	1861.6	717.7	448.1	507.1	363.9	266.2	222.4	200.5
55°	18226.5	15977.4	6497.8	1708.3	581.2	387.5	456.5	342.0	237.5	202.2	181.9
57.5°	18607.2	16580.6	6487.7	1496.0	465.0	340.3	375.7	313.3	207.2	178.6	161.7
59°	18467.4	16504.7	6270.4	1339.3	424.5	315.0	311.7	310.0	193.7	161.7	148.3
60°	18270.3	16228.5	6036.2	1261.8	399.3	298.2	286.4	306.6	181.9	151.6	138.1
62.5°	17515.5	15082.9	5259.5	1130.4	365.6	252.7	229.1	259.4	161.7	131.4	119.6
65°	16422.2	13322.4	4452.6	1093.4	355.5	208.9	190.4	185.3	138.1	111.2	101.1
67.5°	14289.4	11273.8	3606.9	1068.1	358.8	175.2	166.8	139.8	114.6	92.7	85.9
70°	11440.6	8790.6	2953.2	1039.4	362.2	143.2	139.8	111.2	92.7	77.5	70.8
72.5°	6951.0	5210.7	2324.8	903.0	352.1	114.6	124.7	84.2	67.4	55.6	52.2
75°	4297.6	3566.5	1442.1	702.5	232.5	84.2	87.6	52.2	45.5	35.4	35.4
77.5°	2489.9	2252.4	515.5	252.7	102.8	50.5	38.7	27.0	25.3	15.2	15.2
80°	1032.7	827.2	178.6	85.9	55.6	23.6	8.4	1.7	0.0	0.0	0.0
82.5°	301.6	267.9	48.9	38.7	16.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	7410.9	7410.9	7410.9	7410.9	7410.9	7410.9	7410.9	7410.9	7410.9	7410.9	7410.9
2.5°	5994.1	5938.5	5913.2	5999.1	5919.9	6021.0	5943.5	5977.2	6076.6	6120.4	6233.3
5°	4486.3	4429.0	4402.1	4531.8	4525.0	4589.0	4582.3	4641.3	4691.8	4578.9	4695.2
7.5°	3125.1	3086.3	3150.3	3251.4	3359.2	3323.9	3323.9	3244.7	3271.6	3254.8	3249.7
10°	2377.1	2244.0	2210.3	2206.9	2247.4	2255.8	2210.3	2100.8	2141.2	2153.0	2223.8
12.5°	1870.0	1767.2	1610.5	1539.8	1521.3	1536.4	1386.5	1290.5	1335.9	1309.0	1378.1
15°	1341.0	1256.8	1164.1	1084.9	1063.0	1032.7	869.3	754.7	741.3	746.3	758.1
17.5°	956.9	899.6	899.6	815.4	769.9	678.9	596.4	545.8	540.8	545.8	554.3
20°	705.9	675.6	672.2	650.3	599.7	539.1	481.8	471.7	468.3	476.8	480.1
22.5°	608.2	576.2	549.2	547.5	500.3	449.8	422.9	409.4	411.1	414.4	422.9
25°	544.1	510.5	481.8	465.0	431.3	395.9	370.6	363.9	363.9	368.9	370.6
27.5°	498.7	456.5	431.3	407.7	377.4	347.0	325.1	320.1	316.7	320.1	328.5
30°	466.7	424.5	392.5	357.2	333.6	304.9	286.4	279.7	278.0	279.7	286.4
32.5°	399.3	374.0	348.7	316.7	288.1	269.5	249.3	237.5	237.5	240.9	247.6
35°	301.6	288.1	286.4	278.0	254.4	234.2	210.6	198.8	198.8	205.5	208.9
37.5°	266.2	240.9	237.5	234.2	224.1	197.1	175.2	165.1	163.4	168.5	175.2
40°	242.6	214.0	198.8	195.4	197.1	166.8	143.2	133.1	133.1	134.8	141.5
42.5°	224.1	190.4	163.4	160.0	166.8	139.8	116.2	106.1	106.1	106.1	114.6
45°	208.9	170.2	138.1	121.3	131.4	114.6	94.3	84.2	80.9	84.2	87.6
47.5°	198.8	155.0	121.3	97.7	97.7	91.0	75.8	64.0	60.6	62.3	67.4
50°	190.4	141.5	102.8	79.2	70.8	72.4	57.3	48.9	45.5	45.5	50.5
52.5°	176.9	128.0	89.3	67.4	53.9	48.9	42.1	35.4	33.7	35.4	38.7
55°	160.0	116.2	77.5	55.6	42.1	33.7	30.3	25.3	23.6	25.3	30.3
57.5°	141.5	97.7	62.3	43.8	28.6	21.9	20.2	16.8	13.5	15.2	18.5
59°	129.7	87.6	53.9	35.4	21.9	15.2	15.2	11.8	8.4	10.1	15.2
60°	124.7	80.9	45.5	30.3	18.5	11.8	11.8	8.4	5.1	6.7	11.8
62.5°	106.1	67.4	35.4	18.5	8.4	1.7	5.1	1.7	0.0	1.7	5.1
65°	89.3	53.9	23.6	8.4	0.0	0.0	0.0	0.0	0.0	0.0	1.7
67.5°	74.1	40.4	11.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	59.0	27.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	40.4	15.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	25.3	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	10.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7410.9	7410.9	7410.9	7410.9	7410.9	7410.9	7410.9	7410.9	7410.9	7410.9
2.5°	6240.0	6480.9	6629.2	6908.8	7195.2	7415.9	7692.2	7939.9	8042.6	8096.5
5°	4813.1	5148.4	5433.1	5859.3	6255.2	6737.0	7225.6	7801.7	8022.4	8079.7
7.5°	3377.8	3719.8	4017.9	4511.6	5075.9	5721.2	6452.3	7183.4	7505.2	7596.2
10°	2439.4	2805.0	3168.9	3662.5	4189.8	4888.9	5650.4	6555.1	6925.7	6996.4
12.5°	1539.8	1932.3	2523.6	3133.5	3691.1	4253.8	5050.7	6034.5	6443.9	6573.6
15°	892.9	1186.0	1632.4	2427.6	3136.9	3881.5	4750.8	5839.1	6297.3	6430.4
17.5°	598.1	699.1	1005.7	1613.9	2550.6	3537.8	4675.0	5999.1	6506.2	6676.4
20°	503.7	549.2	657.0	983.8	1964.3	3231.2	4695.2	6433.8	7099.2	7311.5
22.5°	443.1	485.2	554.3	707.6	1371.3	2850.5	4791.2	7055.4	7914.6	8185.8
25°	390.8	433.0	493.6	586.3	921.5	2410.8	5001.8	7965.1	8994.5	9292.7
27.5°	347.0	385.8	438.0	517.2	709.2	1920.5	5188.8	8851.3	9980.0	10222.6
30°	306.6	338.6	389.2	449.8	589.6	1480.8	5283.1	9626.2	10697.7	10967.2
32.5°	266.2	296.5	345.4	394.2	485.2	1128.7	5217.4	10195.6	11395.1	11567.0
35°	227.4	259.4	299.9	345.4	419.5	911.4	4888.9	10835.8	12117.9	12252.6
37.5°	195.4	222.4	264.5	299.9	379.1	729.5	4491.3	11412.0	12928.2	13121.9
40°	165.1	192.1	234.2	266.2	348.7	574.5	4132.5	12052.2	13782.3	14021.5
42.5°	134.8	166.8	203.8	256.1	299.9	438.0	3697.9	12571.0	14424.2	14724.0
45°	107.8	143.2	183.6	254.4	261.1	333.6	3278.4	12975.4	14991.9	15261.5
47.5°	85.9	121.3	176.9	237.5	214.0	264.5	3039.2	13398.2	15463.6	15679.3
50°	69.1	101.1	185.3	208.9	178.6	224.1	3032.4	13869.9	15707.9	15851.1
52.5°	55.6	82.5	156.7	160.0	151.6	197.1	3214.4	14400.6	15957.2	16075.2
55°	47.2	69.1	102.8	117.9	136.5	178.6	3350.8	15217.7	16551.9	16663.1
57.5°	37.1	59.0	79.2	94.3	121.3	163.4	3369.3	15847.7	17305.0	17377.4
59°	32.0	50.5	70.8	84.2	111.2	153.3	3293.5	15886.5	17353.8	17470.1
60°	27.0	45.5	62.3	79.2	102.8	144.9	3211.0	15605.1	17171.9	17301.6
62.5°	20.2	35.4	45.5	64.0	84.2	124.7	2820.1	14623.0	16476.1	16567.1
65°	13.5	25.3	33.7	47.2	65.7	107.8	2297.9	13349.4	15401.3	15605.1
67.5°	8.4	18.5	27.0	35.4	53.9	91.0	1637.5	11447.4	13896.9	14028.3
70°	5.1	11.8	20.2	28.6	42.1	72.4	972.1	9048.4	11561.9	11588.9
72.5°	3.4	8.4	13.5	20.2	33.7	65.7	471.7	5898.0	8441.9	8763.7
75°	1.7	5.1	8.4	15.2	27.0	53.9	225.7	3940.5	6142.3	6235.0
77.5°	0.0	1.7	5.1	10.1	20.2	42.1	131.4	2587.7	4188.1	4284.1
80°	0.0	0.0	3.4	8.4	15.2	27.0	79.2	1526.3	2537.1	2584.3
82.5°	0.0	0.0	1.7	6.7	10.1	20.2	40.4	670.5	1661.1	1677.9
85°	0.0	0.0	1.7	6.7	8.4	13.5	15.2	91.0	737.9	751.4
87.5°	0.0	0.0	1.7	8.4	8.4	8.4	8.4	5.1	62.3	77.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)