

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: P459222

Luminaire Tested: **GALN-SA7A-735-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459222
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-SA7A-735-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 615mA 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: 25577 lumens
Efficiency: N/A
Efficacy: 119.0 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

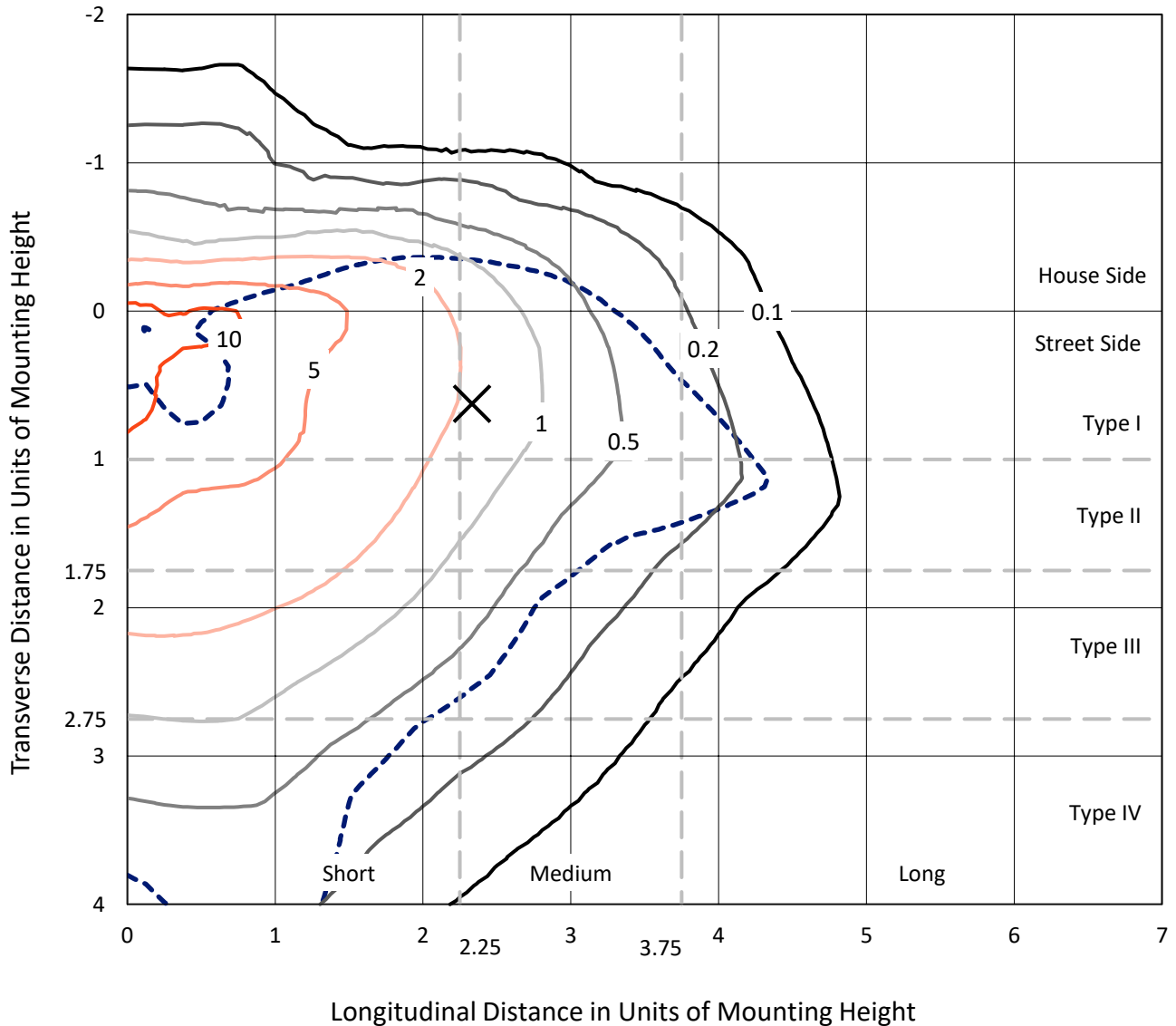
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

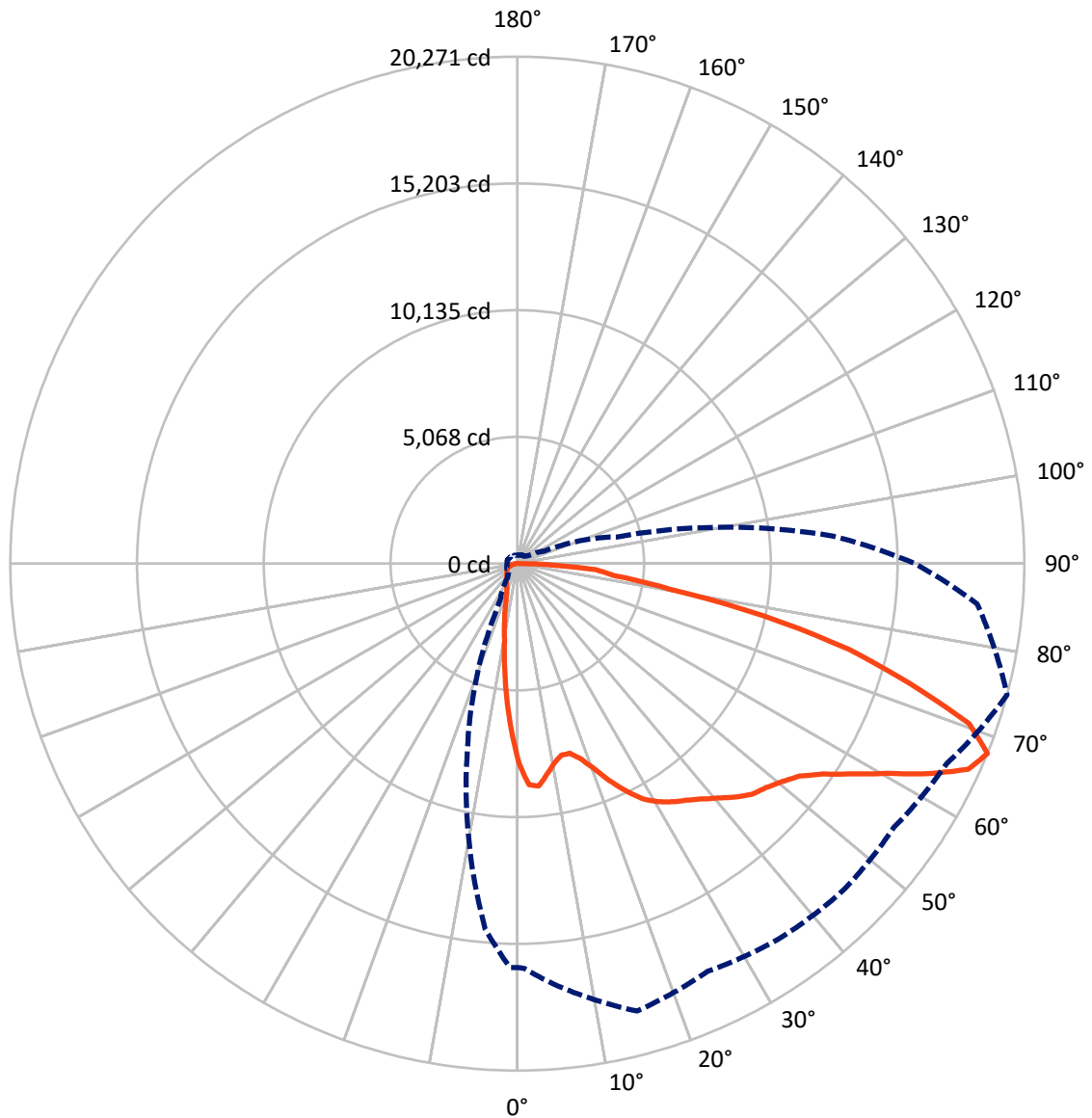
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 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	4323.1	0.0	4323.1
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	21253.9	0.0	21253.9
	% Fixture	83.1	0.0	83.1
Total	Lumens	25577.0	0.0	25577.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	606.1	2.4
10°-20°	1264.0	4.9
20°-30°	1818.9	7.1
30°-40°	2619.8	10.2
40°-50°	3680.0	14.4
50°-60°	5132.4	20.1
60°-70°	6102.1	23.9
70°-80°	3593.8	14.1
80°-90°	760.0	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°	25577.0	100.0
0°-180°	25577.0	100.0



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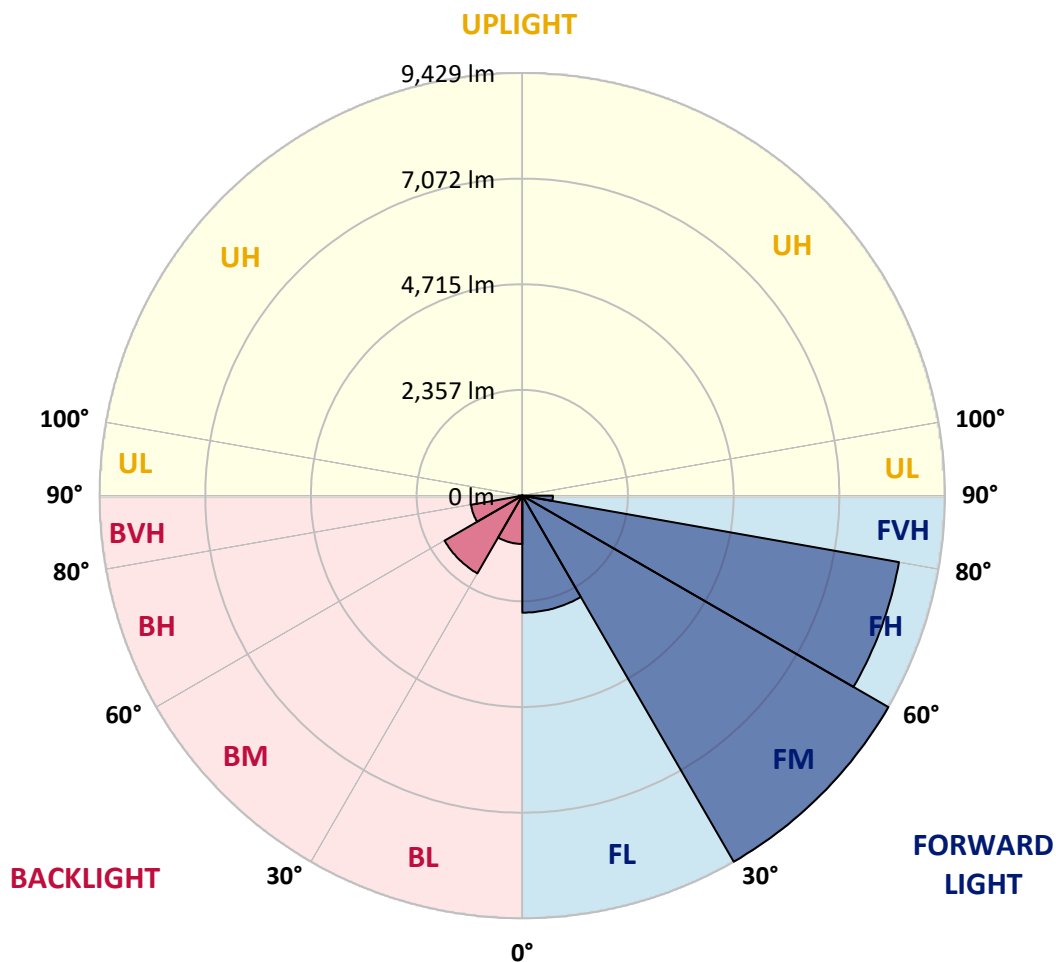
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2610.7	10.2			
FM	(30°-60°)	9429.3	36.9			
FH	(60°-80°)	8532.6	33.4			G4/12000
FVH	(80°-90°)	681.3	2.7			G4/750
BL	(0°-30°)	1078.3	4.2	B3/2500		
BM	(30°-60°)	2002.9	7.8	B2/2500		
BH	(60°-80°)	1163.3	4.5	B3/2500		G3/2500
BVH	(80°-90°)	78.6	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°	7990.9	7990.9	7990.9	7990.9	7990.9	7990.9	7990.9	7990.9	7990.9	7990.9	7990.9
2.5°	8615.8	8627.2	8701.0	8915.9	9063.5	9117.7	9155.4	9084.8	9016.0	8848.7	8596.1
5°	8589.5	8656.8	8848.7	9330.9	9711.4	9875.4	9924.6	9713.0	9363.7	8934.0	8417.3
7.5°	8087.6	8177.8	8473.1	9281.7	9952.5	10336.3	10285.4	9903.3	9273.5	8507.5	7785.8
10°	7492.3	7592.3	7948.2	8925.8	9790.1	10318.2	10318.2	9852.4	9016.0	8105.7	7274.1
12.5°	7019.9	7124.9	7531.6	8560.0	9452.2	9952.5	10036.1	9635.9	8830.6	7851.4	6937.9
15°	6864.1	6965.8	7403.7	8338.6	9094.7	9399.8	9427.6	9296.4	8740.4	7869.5	6923.1
17.5°	7057.6	7188.8	7631.7	8404.2	8766.7	8784.7	8806.0	8909.3	8750.3	8199.2	7221.6
20°	7616.9	7758.0	8220.5	8615.8	8479.6	8292.6	8304.1	8569.8	8866.7	8743.7	7935.1
22.5°	8423.9	8546.9	9020.9	8988.1	8358.3	7972.8	7892.5	8263.1	9038.9	9422.7	8694.5
25°	9294.8	9439.1	9983.7	9540.8	8392.7	7782.6	7731.7	8082.7	9217.7	10057.5	9572.0
27.5°	10292.0	10433.1	10862.8	10098.5	8573.1	7767.8	7707.1	8066.3	9378.4	10644.6	10410.1
30°	11033.4	11162.9	11454.9	10567.6	8794.5	7866.2	7790.8	8195.9	9516.2	11046.5	11226.9
32.5°	11615.6	11750.1	11909.2	10859.5	9086.5	8045.0	7905.6	8432.1	9696.6	11353.2	11832.1
35°	12222.5	12381.6	12370.1	11118.6	9358.8	8251.6	8115.5	8773.2	9980.4	11620.5	12599.7
37.5°	12991.7	13055.7	12973.7	11351.5	9685.1	8624.0	8548.5	9280.0	10383.9	11943.6	13496.9
40°	13772.4	13900.4	13478.8	11633.7	10082.1	9324.3	9316.1	10029.6	10862.8	12322.5	14366.2
42.5°	14441.6	14549.9	13951.2	11879.7	10562.6	10178.8	10241.2	11035.0	11491.0	12762.1	15064.9
45°	14945.1	15041.9	14387.5	12117.5	11195.7	11166.2	11533.6	12112.6	12283.2	13157.4	15474.9
47.5°	15373.2	15466.7	14690.9	12478.3	11978.1	12345.5	12985.1	13236.1	12960.5	13383.7	15934.2
50°	15734.1	15761.9	14899.2	12908.1	12949.1	13790.5	14410.4	14572.8	13629.7	13708.5	16332.7
52.5°	16109.7	16073.6	15258.4	13449.3	13998.8	15161.6	15612.7	15781.6	14271.0	14108.7	16913.3
55°	16951.1	16985.5	16063.7	14131.6	15060.0	16508.2	17101.9	16939.6	14981.2	14845.1	17651.4
57.5°	17968.0	17938.4	17197.1	15199.4	16140.8	17761.3	18204.1	17943.4	15929.2	15857.1	18399.3
60°	18363.2	18402.6	18145.1	16347.5	17206.9	18858.6	19311.2	18906.1	17065.9	17033.1	18963.5
62.5°	17966.3	18187.7	18361.6	17369.3	18115.6	19665.5	20114.9	19652.4	18251.7	18489.5	19358.8
65°	17175.8	17223.3	17815.4	18235.3	18553.5	19798.4	20032.9	19786.9	19242.4	19816.4	19340.8
67.5°	16149.0	16190.0	16883.8	18519.0	17989.3	18289.4	18453.4	18381.3	18935.6	20270.7	18450.2
70°	15171.5	15138.7	15871.8	17795.7	15660.2	15204.3	15340.4	15114.1	16339.3	19160.4	16703.4
72.5°	13268.9	13387.0	14174.3	15784.9	12399.6	11658.3	11955.1	11369.6	12566.9	16409.8	13557.6
75°	10393.7	10421.6	11735.3	13247.6	9353.8	8184.4	8586.2	8341.9	9626.1	13688.8	9362.0
77.5°	7197.0	7134.7	8546.9	10118.1	6670.5	5991.5	5998.1	5881.6	6721.4	10078.8	6360.5
80°	4571.1	4476.0	5350.2	6250.7	4584.2	4904.1	4743.3	4738.4	4375.9	6217.8	3846.2
82.5°	2470.1	2575.1	3380.4	3918.3	3288.5	3790.4	3473.9	3372.2	3003.1	3892.1	2460.2
85°	1125.1	1223.6	1802.5	2665.3	2498.0	2525.8	1687.7	1991.2	2484.8	3160.6	1313.8
87.5°	109.9	141.1	372.3	1258.0	852.9	672.5	250.9	483.8	624.9	1123.5	105.0
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°	7990.9	7990.9	7990.9	7990.9	7990.9	7990.9	7990.9	7990.9	7990.9	7990.9	7990.9
2.5°	8492.7	8407.5	8117.2	7877.7	7623.5	7429.9	7177.3	7008.4	6892.0	6716.5	6695.1
5°	8102.4	7894.1	7388.9	6873.9	6429.4	6094.8	5755.3	5443.7	5260.0	5202.6	5128.8
7.5°	7444.7	7093.7	6444.2	5853.7	5343.6	4845.0	4461.2	4189.0	4006.9	3900.3	3772.4
10°	6903.4	6496.7	5706.1	4982.8	4562.9	4252.9	3915.1	3623.1	3398.4	3206.5	3101.5
12.5°	6539.3	6080.1	5191.1	4603.9	4279.2	3949.5	3554.2	3226.2	2894.9	2676.7	2583.3
15°	6429.4	5943.9	5032.0	4415.3	3949.5	3518.1	3075.3	2647.2	2319.2	2112.5	2043.6
17.5°	6698.4	6111.2	5030.4	4164.4	3562.4	3047.4	2479.9	2078.1	1741.9	1587.7	1538.5
20°	7200.3	6432.7	5045.1	3916.7	3142.5	2417.6	1804.2	1474.5	1313.8	1248.2	1223.6
22.5°	7900.7	6923.1	5089.4	3672.3	2683.3	1856.7	1351.5	1184.2	1126.8	1115.3	1110.4
25°	8763.4	7530.0	5238.7	3452.5	2296.2	1417.1	1130.1	1054.6	1021.8	1010.3	1008.7
27.5°	9557.2	8314.0	5419.1	3263.9	1922.3	1221.9	1021.8	957.9	925.1	923.4	926.7
30°	10274.0	8970.0	5570.0	3052.3	1638.5	1085.8	951.3	887.3	856.2	854.5	864.4
32.5°	10893.9	9509.6	5681.5	2844.0	1481.1	1002.1	887.3	818.4	792.2	787.3	792.2
35°	11556.6	10047.6	5630.7	2681.7	1390.9	933.3	839.8	772.5	741.4	726.6	726.6
37.5°	12312.7	10602.0	5543.7	2547.2	1349.9	875.8	798.8	733.2	702.0	687.2	685.6
40°	13137.7	11156.4	5424.0	2427.4	1308.8	841.4	770.9	702.0	664.3	649.5	646.2
42.5°	13865.9	11630.4	5325.6	2348.7	1241.6	848.0	746.3	679.0	631.5	611.8	610.1
45°	14499.0	12107.7	5307.6	2302.8	1185.8	838.1	739.7	661.0	605.2	583.9	580.6
47.5°	14994.3	12604.6	5410.9	2276.5	1125.1	785.6	782.4	649.5	582.3	559.3	556.0
50°	15597.9	13309.9	5647.1	2222.4	1069.4	736.4	826.6	647.9	564.2	534.7	526.5
52.5°	16401.6	14228.4	5966.9	2125.6	989.0	690.5	788.9	647.9	542.9	513.4	503.5
55°	17617.0	15399.5	6280.2	1989.5	875.8	629.8	711.8	628.2	511.7	485.5	478.9
57.5°	18422.3	16255.6	6480.3	1800.9	734.8	585.5	613.4	597.0	480.6	452.7	452.7
60°	18463.3	16485.2	6385.1	1563.1	646.2	544.5	533.1	601.9	452.7	423.2	419.9
62.5°	17990.9	15922.7	5889.8	1349.9	598.7	500.2	482.2	528.1	424.8	395.3	390.4
65°	17252.8	14487.5	5030.4	1248.2	572.4	460.9	434.6	433.0	395.3	367.4	360.8
67.5°	15896.4	12660.4	4133.2	1189.1	559.3	416.6	392.0	383.8	360.8	337.9	334.6
70°	13897.1	10603.6	3314.8	1164.5	552.7	370.7	351.0	341.2	321.5	303.4	301.8
72.5°	10811.9	8601.0	2735.8	1148.1	549.5	328.0	306.7	293.6	282.1	265.7	265.7
75°	7766.2	6327.7	2087.9	1034.9	508.4	282.1	259.1	250.9	234.5	221.4	224.7
77.5°	4895.9	4261.1	1374.5	761.0	393.6	226.3	206.7	201.7	188.6	170.6	182.1
80°	3306.6	2996.6	802.0	478.9	247.7	165.7	159.1	157.5	142.7	123.0	124.7
82.5°	2250.3	2207.7	416.6	272.3	142.7	96.8	93.5	96.8	80.4	65.6	65.6
85°	879.1	1200.6	196.8	106.6	45.9	14.8	21.3	23.0	13.1	6.6	8.2
87.5°	16.4	123.0	4.9	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°	7990.9	7990.9	7990.9	7990.9	7990.9	7990.9	7990.9	7990.9	7990.9	7990.9	7990.9
2.5°	6662.3	6647.6	6672.2	6567.2	6588.5	6627.9	6647.6	6659.1	6821.4	6783.7	6887.0
5°	5197.7	5182.9	5278.0	5291.2	5340.4	5330.5	5378.1	5389.6	5448.6	5469.9	5614.3
7.5°	3780.6	3844.5	3952.8	4008.6	4092.2	4118.4	4093.8	4154.5	4031.5	4120.1	4146.3
10°	3037.6	2960.5	2914.6	3042.5	3058.9	3180.3	3131.1	3091.7	3163.9	3167.1	3236.0
12.5°	2529.1	2363.5	2253.6	2289.7	2329.0	2381.5	2389.7	2468.4	2520.9	2570.1	2611.1
15°	1983.0	1925.5	1825.5	1776.3	1832.1	1853.4	1904.2	1969.8	2025.6	2040.4	2096.1
17.5°	1522.1	1531.9	1515.5	1486.0	1520.4	1536.8	1540.1	1541.8	1556.5	1546.7	1628.7
20°	1225.2	1259.6	1300.6	1307.2	1318.7	1326.9	1312.1	1256.4	1258.0	1292.4	1318.7
22.5°	1108.7	1115.3	1161.2	1176.0	1212.1	1197.3	1154.7	1128.4	1125.1	1133.4	1146.5
25°	1016.9	1026.7	1059.5	1082.5	1110.4	1084.1	1053.0	1028.4	1025.1	1033.3	1046.4
27.5°	934.9	949.7	979.2	1002.1	1028.4	1003.8	974.3	952.9	951.3	949.7	957.9
30°	869.3	885.7	907.0	933.3	951.3	930.0	902.1	890.6	889.0	885.7	889.0
32.5°	803.7	829.9	851.2	864.4	882.4	866.0	844.7	838.1	826.6	816.8	811.9
35°	729.9	757.8	790.6	807.0	825.0	808.6	793.8	766.0	746.3	744.6	747.9
37.5°	687.2	698.7	725.0	752.8	770.9	762.7	734.8	706.9	702.0	702.0	705.3
40°	649.5	654.4	665.9	702.0	734.8	710.2	675.7	667.5	667.5	665.9	667.5
42.5°	611.8	616.7	616.7	644.6	697.1	657.7	631.5	631.5	631.5	633.1	638.0
45°	577.3	579.0	577.3	597.0	646.2	613.4	595.4	600.3	603.6	606.9	610.1
47.5°	547.8	549.5	547.8	564.2	588.8	575.7	565.9	572.4	579.0	583.9	587.2
50°	521.6	519.9	523.2	533.1	544.5	547.8	541.3	551.1	554.4	560.9	569.1
52.5°	498.6	497.0	500.2	505.2	521.6	521.6	521.6	529.8	536.3	542.9	554.4
55°	472.4	474.0	478.9	485.5	506.8	503.5	505.2	511.7	518.3	528.1	534.7
57.5°	447.8	451.0	457.6	467.4	488.8	487.1	488.8	492.0	500.2	505.2	511.7
60°	419.9	426.4	434.6	441.2	462.5	460.9	469.1	475.6	480.6	480.6	483.8
62.5°	392.0	401.8	410.0	415.0	437.9	439.6	451.0	456.0	459.2	456.0	460.9
65°	364.1	378.9	382.2	388.7	411.7	413.3	426.4	437.9	434.6	431.4	439.6
67.5°	336.2	354.3	352.6	360.8	383.8	387.1	398.6	418.2	411.7	408.4	415.0
70°	305.1	318.2	319.8	324.8	355.9	351.0	369.0	387.1	382.2	383.8	383.8
72.5°	270.6	282.1	282.1	291.9	324.8	316.6	331.3	351.0	351.0	349.4	349.4
75°	229.6	236.2	242.7	257.5	291.9	282.1	291.9	310.0	313.3	310.0	310.0
77.5°	185.3	195.2	198.5	218.1	242.7	241.1	250.9	259.1	265.7	262.4	262.4
80°	131.2	141.1	154.2	175.5	190.3	195.2	200.1	206.7	209.9	209.9	213.2
82.5°	73.8	88.6	100.0	121.4	127.9	152.5	150.9	155.8	150.9	132.9	147.6
85°	16.4	31.2	44.3	55.8	64.0	88.6	93.5	105.0	86.9	80.4	80.4
87.5°	0.0	0.0	0.0	0.0	0.0	13.1	26.2	36.1	31.2	26.2	26.2
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°	7990.9	7990.9	7990.9	7990.9	7990.9	7990.9	7990.9	7990.9	7990.9	7990.9
2.5°	6974.0	7116.7	7288.9	7585.7	7794.0	8018.7	8245.1	8486.2	8550.2	8615.8
5°	5653.6	5934.1	6086.6	6485.2	6903.4	7434.8	7869.5	8345.1	8543.6	8589.5
7.5°	4282.5	4472.7	4872.9	5276.4	5794.7	6352.3	7018.2	7759.6	7990.9	8087.6
10°	3395.1	3654.3	4005.3	4438.3	4892.6	5492.9	6244.1	7110.1	7438.1	7492.3
12.5°	2890.0	3178.6	3560.8	4018.4	4448.1	4900.8	5658.6	6552.4	6903.4	7019.9
15°	2311.0	2660.3	3101.5	3583.7	4051.2	4546.5	5314.1	6322.8	6727.9	6864.1
17.5°	1815.7	2097.8	2575.1	3098.3	3652.6	4279.2	5242.0	6432.7	6931.3	7057.6
20°	1389.2	1591.0	1992.8	2545.5	3195.0	4015.1	5260.0	6847.7	7444.7	7616.9
22.5°	1200.6	1303.9	1548.3	2074.8	2801.4	3785.5	5333.8	7416.8	8136.8	8423.9
25°	1087.4	1141.6	1279.3	1623.8	2425.8	3562.4	5502.7	8182.8	9104.5	9294.8
27.5°	990.7	1030.0	1115.3	1363.0	2084.6	3355.8	5699.6	9032.4	10008.3	10292.0
30°	898.8	951.3	1031.7	1210.4	1866.5	3167.1	5947.2	9721.2	10769.3	11033.4
32.5°	828.3	880.8	954.6	1103.8	1681.2	2968.7	6094.8	10326.4	11390.9	11615.6
35°	770.9	815.2	892.2	1018.5	1540.1	2817.8	6065.3	10807.0	11992.9	12222.5
37.5°	729.9	767.6	844.7	938.2	1433.5	2660.3	6050.6	11441.8	12726.0	12991.7
40°	692.1	731.5	802.0	885.7	1326.9	2475.0	6058.8	12071.6	13506.7	13772.4
42.5°	662.6	706.9	764.3	870.9	1217.0	2325.7	6058.8	12619.4	14185.7	14441.6
45°	638.0	685.6	741.4	869.3	1130.1	2212.6	6017.7	13090.1	14727.0	14945.1
47.5°	616.7	669.2	749.6	839.8	1108.7	2130.6	5981.7	13467.4	15168.2	15373.2
50°	601.9	664.3	797.1	805.3	1115.3	2106.0	6155.5	13943.0	15556.9	15734.1
52.5°	590.5	665.9	795.5	754.5	1103.8	2122.4	6518.0	14686.0	16096.5	16109.7
55°	567.5	664.3	754.5	697.1	1056.3	2150.2	6983.8	15765.2	16941.2	16951.1
57.5°	544.5	646.2	700.3	647.9	959.5	2150.2	7544.7	16787.0	17959.8	17968.0
60°	521.6	672.5	615.1	605.2	833.2	2110.9	8136.8	17236.4	18279.6	18363.2
62.5°	498.6	677.4	549.5	567.5	741.4	2015.8	8578.0	16739.5	17846.6	17966.3
65°	472.4	546.2	506.8	528.1	693.8	1856.7	8438.6	15829.2	17033.1	17175.8
67.5°	441.2	462.5	460.9	487.1	677.4	1622.1	7703.8	14677.8	16157.2	16149.0
70°	403.5	415.0	419.9	447.8	646.2	1440.1	6419.6	13183.6	14987.8	15171.5
72.5°	364.1	374.0	378.9	403.5	615.1	1336.7	4982.8	11125.2	12981.9	13268.9
75°	321.5	328.0	334.6	355.9	582.3	1184.2	3549.3	8492.7	9942.7	10393.7
77.5°	277.2	277.2	285.4	306.7	490.4	977.5	2381.5	5957.1	6736.1	7197.0
80°	224.7	226.3	223.1	246.0	360.8	669.2	1353.1	3979.0	4482.6	4571.1
82.5°	172.2	167.3	168.9	180.4	269.0	456.0	721.7	2471.7	2519.3	2470.1
85°	108.3	108.3	105.0	118.1	172.2	237.8	393.6	1513.9	1182.6	1125.1
87.5°	44.3	36.1	41.0	47.6	82.0	96.8	154.2	311.6	119.7	109.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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