

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: P193064

Luminaire Tested: **GLEON-AF-06-LED-E1-SLR-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193064
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24296)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-AF-06-LED-E1-SLR-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24447.9 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 249
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: 25 FT

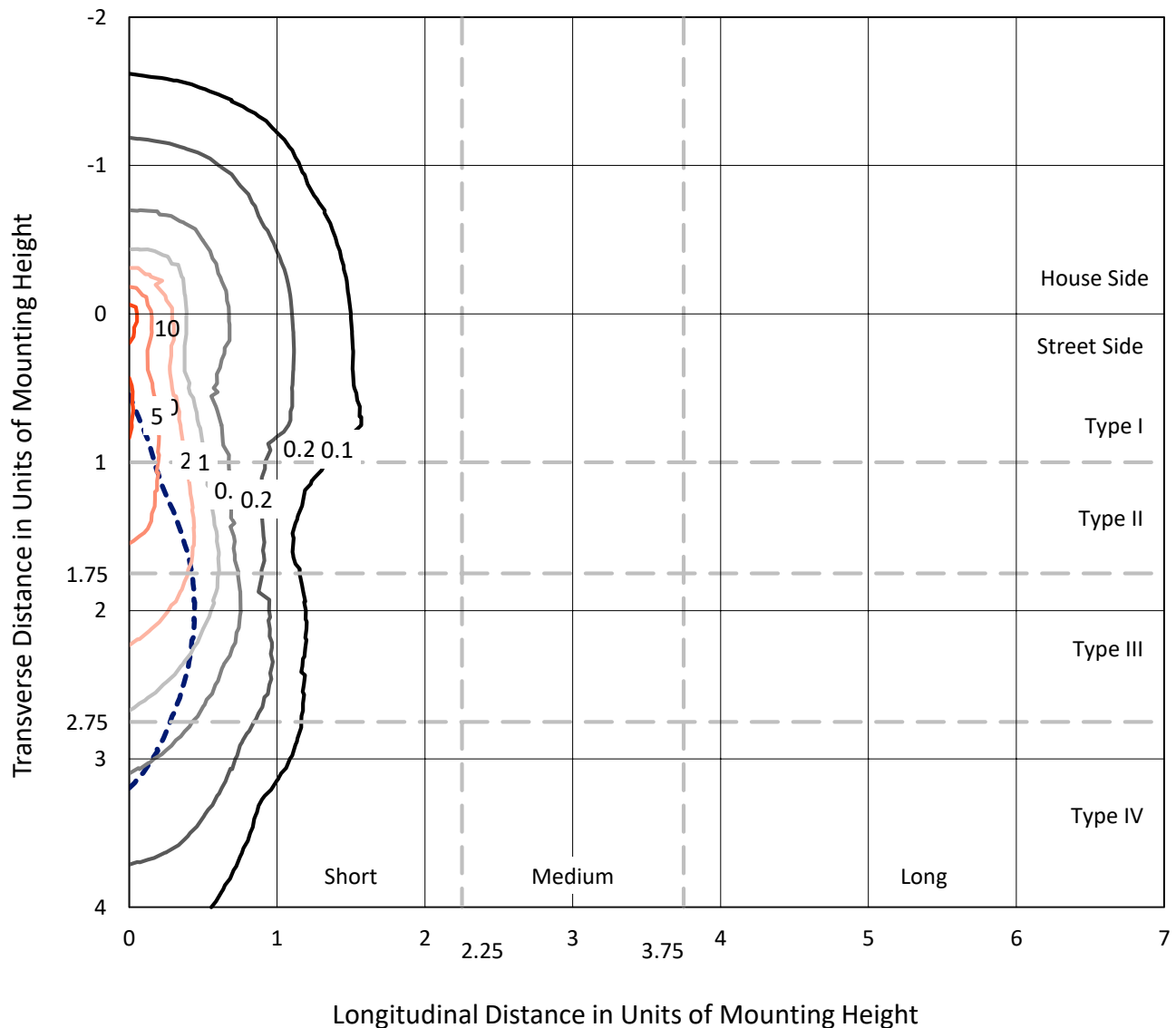


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

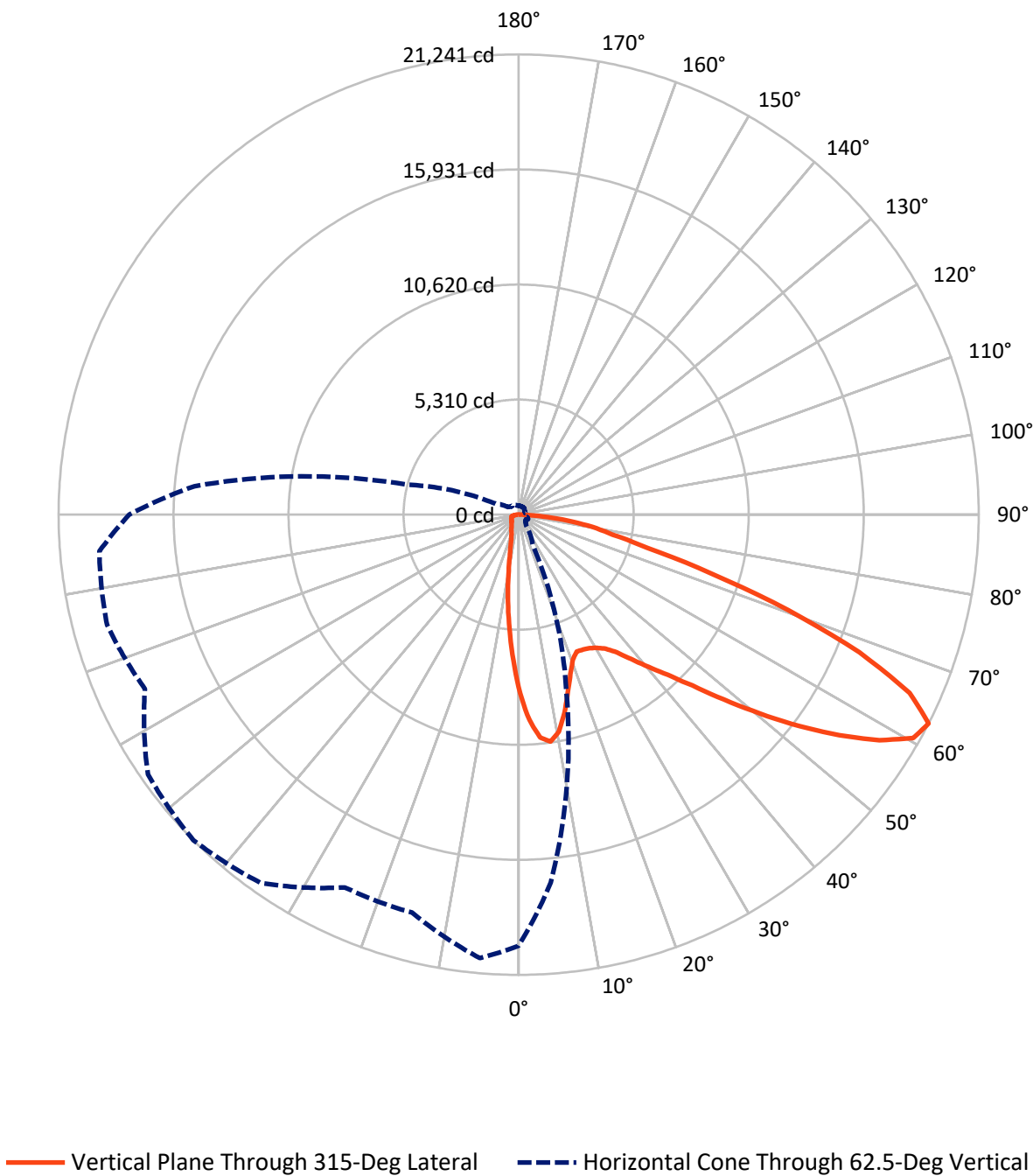


Based on 25 foot mounting height. Maximum calculated value = 13.2 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4045.8	0.0	4045.8
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	20402.1	0.0	20402.1
	% Fixture	83.5	0.0	83.5
Total	Lumens	24447.9	0.0	24447.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	601.3	2.5
10°-20°	1102.6	4.5
20°-30°	1607.6	6.6
30°-40°	2475.9	10.1
40°-50°	3643.8	14.9
50°-60°	5344.7	21.9
60°-70°	5974.6	24.4
70°-80°	2925.1	12.0
80°-90°	772.3	3.2
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°	24447.9	100.0
0°-180°	24447.9	100.0

Coefficient of Utilization



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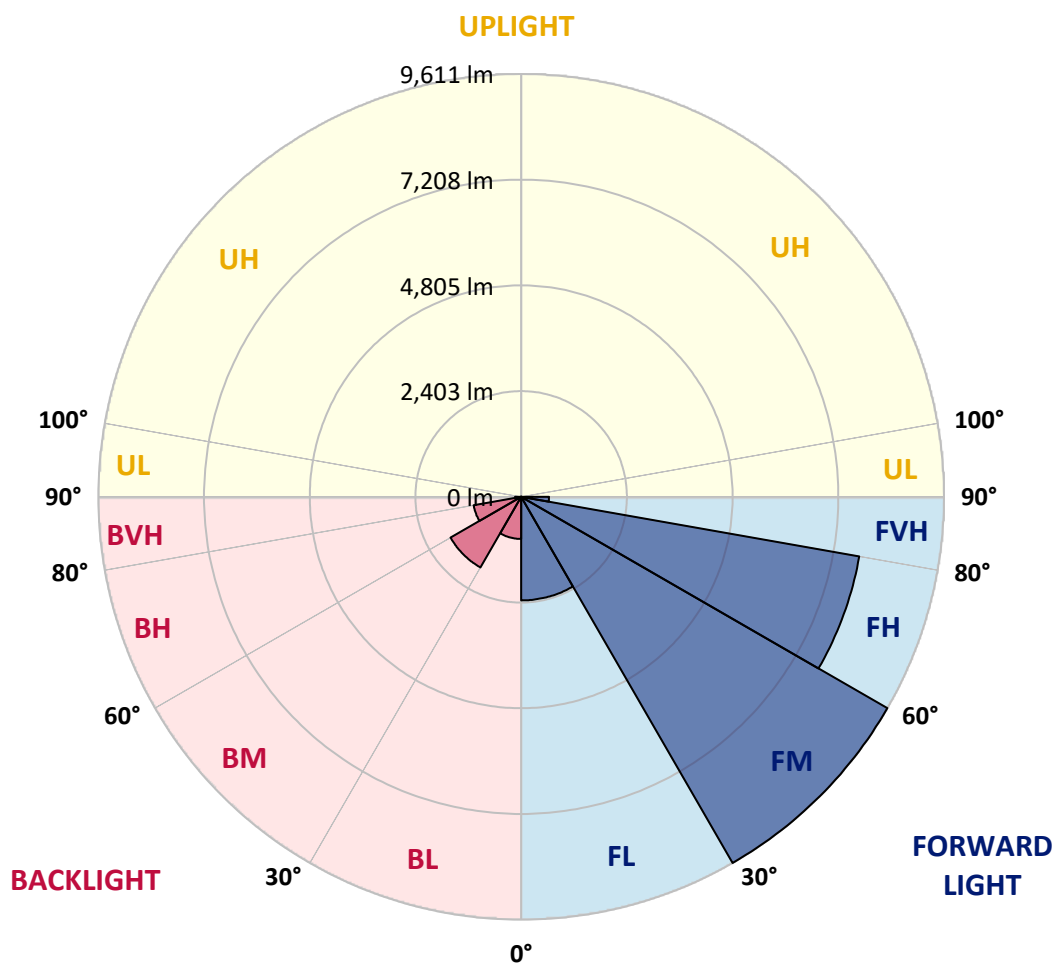
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2354.2	9.6			
FM	(30°-60°)	9610.7	39.3			
FH	(60°-80°)	7802.9	31.9			G4/12000
FVH	(80°-90°)	634.2	2.6			G4/750
BL	(0°-30°)	957.2	3.9	B2/1000		
BM	(30°-60°)	1853.7	7.6	B2/2500		
BH	(60°-80°)	1096.8	4.5	B3/2500		G3/2500
BVH	(80°-90°)	138.1	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8259.8	8259.8	8259.8	8259.8	8259.8	8259.8	8259.8	8259.8	8259.8	8259.8	8259.8
2.5°	8582.4	8407.6	8117.3	7815.0	7630.8	7415.9	7247.8	7100.0	6804.3	6746.5	6798.9
5°	8070.3	7719.5	7172.6	6621.5	6254.6	5860.8	5554.5	5308.6	4933.6	4867.7	4947.0
7.5°	7249.2	6829.9	6106.8	5404.0	4885.2	4393.4	4062.7	3799.3	3506.3	3379.9	3388.0
10°	6541.0	6067.8	5213.1	4448.4	4023.7	3691.8	3413.6	3143.5	2846.4	2651.6	2597.8
12.5°	6144.4	5600.2	4615.1	3932.3	3538.6	3189.2	2889.5	2600.5	2283.3	2084.4	2028.0
15°	6075.9	5484.6	4390.6	3601.7	3108.5	2666.4	2312.9	1990.3	1663.8	1502.6	1468.9
17.5°	6372.9	5691.6	4318.0	3307.4	2703.9	2158.3	1724.2	1364.1	1097.9	1017.3	1010.6
20°	6942.8	6089.3	4308.6	3030.6	2304.9	1665.1	1201.6	939.4	822.5	799.7	801.0
22.5°	7742.4	6706.3	4424.2	2822.2	1937.9	1241.8	903.1	786.2	740.6	719.0	719.0
25°	8777.3	7555.6	4690.3	2670.4	1619.4	991.8	796.9	727.1	684.1	669.3	672.0
27.5°	9779.8	8382.2	4999.3	2550.7	1411.1	900.4	755.3	692.1	654.5	639.7	646.4
30°	10562.0	9115.9	5257.4	2388.2	1305.0	874.9	770.1	705.6	651.8	629.0	630.3
32.5°	11209.8	9758.3	5473.8	2271.3	1210.9	749.9	663.9	635.7	629.0	602.1	588.7
35°	12037.6	10458.6	5618.9	2273.9	1166.6	669.3	591.3	541.6	505.4	474.4	474.4
37.5°	13007.9	11262.1	5773.5	2304.9	1150.4	622.2	565.8	516.0	482.5	452.9	447.5
40°	13967.4	12049.6	5914.6	2334.5	1141.0	594.1	545.6	500.0	469.0	439.4	431.3
42.5°	14783.3	12697.4	6041.0	2349.2	1108.8	591.3	530.9	489.2	459.7	427.4	419.3
45°	15386.7	13240.4	6176.8	2372.0	1076.5	602.1	530.9	487.9	451.6	420.6	412.6
47.5°	15925.6	13877.4	6403.8	2372.0	1037.5	582.0	548.4	489.2	450.2	417.9	411.3
50°	16647.3	14751.0	6833.8	2317.0	982.5	560.4	577.9	483.8	438.1	412.6	404.5
52.5°	17641.8	15870.5	7516.6	2221.6	897.8	518.8	573.8	481.2	426.0	399.2	389.7
55°	18817.7	17069.2	8261.1	2110.1	771.4	489.2	553.7	474.4	412.6	383.1	373.6
57.5°	19735.6	17894.5	8785.3	1937.9	661.2	473.1	490.6	467.7	396.5	365.6	357.5
60°	20101.2	17862.1	8929.1	1708.2	607.5	459.7	428.8	524.1	383.1	352.2	342.7
62.5°	19903.6	17037.1	8525.9	1546.9	595.4	442.2	401.8	485.1	372.2	342.7	329.3
65°	18991.1	15574.8	7457.5	1503.9	630.3	424.7	384.4	380.3	357.5	329.3	315.9
67.5°	17003.5	13389.6	5971.1	1507.9	674.6	407.2	366.9	348.1	337.3	314.4	302.4
70°	13849.1	10586.1	4451.1	1518.6	697.5	387.1	348.1	327.9	315.9	293.0	284.9
72.5°	10183.0	8159.1	3233.5	1448.8	701.6	364.2	322.6	305.1	293.0	268.8	262.1
75°	6966.9	6241.2	2243.0	1200.1	611.6	331.9	294.4	278.2	270.1	240.6	236.5
77.5°	5089.6	4684.9	1435.3	891.0	471.7	291.6	259.4	247.3	241.9	209.7	204.4
80°	4084.2	3706.5	897.8	610.1	345.4	244.6	217.8	211.0	205.6	173.4	169.4
82.5°	2833.0	2482.3	576.6	396.5	259.4	189.4	172.0	169.4	161.2	131.6	127.8
85°	1494.4	1347.9	365.6	270.1	188.2	130.3	119.6	119.6	115.6	87.4	84.6
87.5°	190.8	310.4	185.4	141.2	103.5	57.8	57.8	56.5	60.5	49.7	43.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	8259.8	8259.8	8259.8	8259.8	8259.8	8259.8	8259.8	8259.8	8259.8	8259.8	8259.8
2.5°	6675.3	6739.7	6678.0	6682.1	6750.6	6954.9	7047.6	7124.1	7206.2	7259.9	7284.1
5°	4838.1	4988.7	5039.7	5147.2	5305.8	5566.5	5670.0	5745.3	5795.0	5824.6	5836.7
7.5°	3308.8	3400.1	3502.3	3675.7	4021.1	4174.2	4242.7	4225.3	4168.9	4148.7	4128.6
10°	2494.4	2458.0	2439.2	2534.7	2814.2	2968.8	3017.0	2970.1	2939.2	2945.8	2979.5
12.5°	1932.6	1869.4	1792.8	1782.0	1966.1	2104.6	2135.5	2138.2	2194.7	2244.4	2318.3
15°	1408.5	1401.7	1364.1	1341.2	1446.0	1558.9	1572.4	1596.6	1647.6	1683.9	1748.4
17.5°	993.1	1029.4	1059.0	1073.8	1153.1	1233.7	1218.9	1206.9	1197.5	1197.5	1228.4
20°	801.0	825.1	862.8	905.8	986.4	1042.9	1006.6	958.2	923.2	912.6	916.5
22.5°	721.6	740.6	762.0	799.7	872.2	911.2	872.2	837.3	802.3	790.3	786.2
25°	681.3	705.6	725.7	754.0	807.8	834.6	796.9	771.4	749.9	735.1	724.4
27.5°	658.5	680.0	685.4	698.8	744.5	768.7	749.9	739.1	725.7	712.3	698.8
30°	634.4	630.3	620.9	622.2	658.5	682.8	681.3	684.1	682.8	678.7	676.0
32.5°	579.2	571.2	563.1	571.2	604.8	626.3	627.5	632.9	632.9	631.6	642.5
35°	482.5	497.2	506.6	530.9	571.2	590.0	582.0	568.4	544.3	529.5	528.2
37.5°	446.3	448.8	465.0	498.6	542.9	560.4	548.4	517.5	501.3	498.6	502.6
40°	428.8	431.3	440.9	471.7	516.0	533.5	522.8	500.0	485.1	483.8	490.6
42.5°	416.6	419.3	424.7	446.3	482.5	504.0	505.4	489.2	471.7	473.1	479.7
45°	409.9	411.3	409.9	420.6	454.3	479.7	490.6	479.7	465.0	467.7	475.8
47.5°	408.5	404.5	399.2	401.8	436.8	462.2	475.8	471.7	465.0	467.7	474.4
50°	403.1	393.8	387.1	385.6	420.6	447.5	459.7	459.7	462.2	467.7	474.4
52.5°	387.1	376.3	376.3	372.2	409.9	435.4	443.5	444.8	448.8	458.3	467.7
55°	366.9	362.8	366.9	360.2	401.8	426.0	430.1	432.7	435.4	443.5	456.9
57.5°	349.4	344.0	353.5	350.7	395.1	416.6	416.6	422.0	422.0	432.7	443.5
60°	340.1	329.3	333.2	336.0	385.6	408.5	405.9	411.3	414.0	423.4	431.3
62.5°	327.9	318.5	318.5	325.3	375.0	396.5	395.1	399.2	409.9	412.6	420.6
65°	313.1	309.1	305.1	313.1	364.2	383.1	384.4	389.7	399.2	401.8	408.5
67.5°	298.4	299.7	291.6	299.7	354.8	369.7	369.7	380.3	384.4	389.7	396.5
70°	282.2	283.5	276.9	286.3	348.1	354.8	353.5	368.2	370.9	375.0	381.7
72.5°	262.1	262.1	259.4	272.8	337.3	340.1	337.3	349.4	350.7	354.8	357.5
75°	240.6	240.6	237.8	256.6	330.6	323.9	315.9	325.3	327.9	330.6	330.6
77.5°	212.3	215.0	215.0	237.8	307.8	317.2	290.3	295.6	299.7	301.0	296.9
80°	177.4	184.1	186.9	216.4	258.1	293.0	259.4	263.5	264.7	264.7	259.4
82.5°	135.7	147.8	154.6	186.9	197.5	246.0	225.7	229.8	225.7	217.8	215.0
85°	94.1	110.3	118.2	142.5	149.1	189.4	188.2	188.2	180.1	169.4	168.0
87.5°	51.1	60.5	65.9	84.6	102.1	127.8	138.4	134.4	127.8	121.0	122.3
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	8259.8	8259.8	8259.8	8259.8	8259.8	8259.8	8259.8	8259.8	8259.8	8259.8	8259.8
2.5°	7410.4	7593.2	7884.8	8107.9	8332.3	8548.8	8782.6	8961.3	9113.2	9172.4	9352.4
5°	5959.0	6187.5	6463.0	6960.3	7312.2	7700.7	8149.6	8743.6	8972.1	9287.9	9805.4
7.5°	4213.2	4420.2	4863.6	5265.5	5764.1	6313.8	6919.9	7739.7	8039.4	8546.0	9388.7
10°	3146.1	3386.7	3742.9	4081.5	4521.0	5082.7	5778.9	6695.5	7059.7	7609.4	8579.7
12.5°	2534.7	2818.3	3195.9	3514.5	3854.4	4250.8	4926.8	5932.1	6420.0	6901.1	7882.2
15°	1947.3	2244.4	2595.1	2999.6	3374.6	3802.0	4510.2	5609.6	6171.3	6672.6	7509.9
17.5°	1347.9	1602.0	2044.1	2466.1	2945.8	3492.9	4394.6	5678.1	6348.7	6926.6	7574.4
20°	955.6	1100.7	1463.5	1952.7	2550.7	3237.6	4373.1	6038.3	6910.5	7570.3	7988.4
22.5°	803.7	857.4	1068.4	1517.3	2208.1	3046.7	4448.4	6543.6	7668.5	8511.1	8648.2
25°	732.5	764.7	874.9	1190.7	1903.0	2908.3	4702.4	7296.3	8606.6	9451.9	9427.7
27.5°	693.5	727.1	799.7	1005.3	1673.2	2822.2	4956.4	8188.6	9678.9	10473.3	10172.2
30°	681.3	727.1	803.7	947.5	1509.2	2686.4	5164.6	8972.1	10504.1	11162.7	10510.8
32.5°	672.0	678.7	713.7	817.1	1353.2	2527.9	5305.8	9674.9	11311.8	11818.6	10998.7
35°	542.9	576.6	632.9	732.5	1262.0	2432.5	5305.8	10281.1	12107.4	12481.1	11463.7
37.5°	522.8	552.3	602.1	686.7	1210.9	2385.4	5199.6	10865.8	12920.6	13232.4	11846.8
40°	512.0	536.3	583.2	651.8	1189.4	2331.7	5045.1	11381.7	13714.8	13984.9	12204.3
42.5°	504.0	525.4	569.8	630.3	1161.2	2272.6	4920.2	11795.7	14404.3	14627.3	12545.5
45°	500.0	522.8	571.2	641.1	1104.7	2194.7	4878.4	12243.3	14971.4	15163.5	12915.2
47.5°	500.0	526.8	577.9	663.9	1037.5	2114.0	5008.9	12833.1	15507.6	15601.6	13350.6
50°	495.9	525.4	596.7	641.1	939.4	2011.9	5315.3	13576.4	16088.2	16099.0	13901.6
52.5°	487.9	522.8	642.5	627.5	826.5	1877.5	5729.2	14530.6	16946.9	17011.4	14764.4
55°	478.4	518.8	630.3	596.7	733.7	1717.5	6067.8	15690.4	18153.9	18332.6	16033.1
57.5°	466.3	513.4	610.1	553.7	673.2	1511.9	6190.2	16539.7	18996.5	19445.3	17463.0
60°	455.6	509.3	551.0	528.2	635.7	1338.5	5953.6	16371.7	18938.7	19906.3	18730.5
62.5°	444.8	513.4	502.6	512.0	618.2	1227.0	5335.4	15026.5	17980.5	19430.5	19669.7
65°	432.7	477.1	474.4	498.6	614.1	1182.6	4423.0	13009.3	16128.6	17926.7	19891.5
67.5°	416.6	440.9	454.3	481.2	627.5	1143.7	3569.5	10731.3	13554.9	15672.9	18735.8
70°	399.2	419.3	434.1	459.7	619.5	1126.3	2968.8	8462.7	10755.5	12845.3	16455.1
72.5°	376.3	393.8	407.2	431.3	611.6	1116.8	2507.8	6815.0	8030.0	9541.9	13378.8
75°	349.4	365.6	375.0	399.2	585.9	1022.7	1971.6	5766.8	6008.7	6637.7	10656.0
77.5°	318.5	330.6	338.7	365.6	518.8	850.7	1426.0	4448.4	4666.1	4819.3	8169.8
80°	282.2	294.4	298.4	323.9	430.1	665.3	930.1	3285.9	3490.2	3525.1	5335.4
82.5°	240.6	252.6	252.6	276.9	352.2	478.4	610.1	2251.1	2291.3	2409.7	3771.1
85°	193.5	202.9	202.9	215.0	272.8	357.5	419.3	1130.3	1118.2	1276.7	3267.1
87.5°	138.4	145.1	151.9	154.6	194.9	236.5	252.6	344.0	227.2	260.7	2097.9
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	8259.8	8259.8	8259.8	8259.8	8259.8	8259.8	8259.8	8259.8
2.5°	9488.2	9564.8	9486.8	9430.3	9187.1	8986.9	8719.4	8582.4
5°	10199.2	10394.0	10328.1	10091.6	9583.5	9012.4	8363.2	8070.3
7.5°	10113.0	10566.0	10576.8	10134.6	9386.0	8544.7	7665.7	7249.2
10°	9443.9	10023.0	10188.3	9759.6	8965.4	8024.6	7016.6	6541.0
12.5°	8696.6	9263.8	9390.1	9242.2	8578.3	7633.5	6610.8	6144.4
15°	8085.0	8339.1	8489.7	8618.6	8246.4	7477.6	6587.9	6075.9
17.5°	7712.8	7684.6	7727.6	7952.0	8015.3	7656.4	6937.4	6372.9
20°	7578.4	7146.9	7136.3	7445.4	7906.3	8082.5	7620.1	6942.8
22.5°	7652.3	6953.5	6864.8	7231.7	7964.1	8696.6	8515.1	7742.4
25°	7907.6	6969.6	6898.4	7253.1	8173.8	9351.1	9481.4	8777.3
27.5°	8309.5	7071.8	6977.8	7341.9	8452.0	9900.7	10432.9	9779.8
30°	8691.2	7249.2	7132.2	7516.6	8706.0	10118.5	11016.2	10562.0
32.5°	9154.9	7581.1	7375.5	7837.8	9020.5	10465.2	11536.3	11209.8
35°	9609.2	8054.1	7798.8	8333.8	9371.2	10896.7	12130.3	12037.6
37.5°	10107.7	8672.4	8461.4	8974.8	9851.1	11303.9	12888.3	13007.9
40°	10639.8	9492.2	9242.2	9910.2	10595.5	11814.5	13680.0	13967.4
42.5°	11176.1	10402.0	10103.6	10781.0	11414.0	12318.4	14357.2	14783.3
45°	11790.2	11389.8	11248.7	11981.2	12200.2	12798.3	14857.2	15386.7
47.5°	12505.3	12510.6	12737.8	13030.8	12993.1	13341.2	15359.7	15925.6
50°	13339.9	13909.7	14411.0	14605.9	13810.3	13924.4	16057.3	16647.3
52.5°	14342.5	15582.9	16203.8	16076.1	14690.6	14636.8	17162.0	17641.8
55°	15596.3	17354.2	17971.1	17879.6	15702.5	15607.0	18538.2	18817.7
57.5°	17047.7	19070.3	19637.5	19226.3	16917.3	16671.5	19676.5	19735.6
60°	18323.1	20430.4	20927.7	20472.1	18143.0	17804.5	20387.4	20101.2
62.5°	19032.8	20891.5	21240.9	20750.3	18983.0	19011.2	20543.4	19903.6
65°	18715.6	19726.2	19839.1	19798.8	18766.7	19711.5	19982.9	18991.1
67.5°	16979.2	16780.4	16969.8	17232.0	16912.0	18789.6	18430.7	17003.5
70°	13920.4	12827.8	13205.5	13381.5	13526.7	16168.8	15996.8	13849.1
72.5°	10490.7	8986.9	9285.2	9248.9	9920.8	12969.0	12440.8	10183.0
75°	7433.2	6093.4	6131.0	6116.3	6922.5	10146.7	9008.3	6966.9
77.5°	5201.0	4414.8	4435.0	4518.3	4654.0	7652.3	6436.1	5089.6
80°	3576.2	3350.4	3462.0	3468.7	3225.5	5140.5	4754.9	4084.2
82.5°	2663.6	2329.1	2302.2	2341.1	2527.9	4164.9	3654.1	2833.0
85°	2181.3	1378.9	1108.8	1389.7	2240.4	4124.5	2427.0	1494.4
87.5°	1228.4	654.5	295.6	548.4	893.7	2730.8	701.6	190.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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