

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: P458468

Luminaire Tested: **GALN-SA9D-827-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458468
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-SA9D-827-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1200mA 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: 44439 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

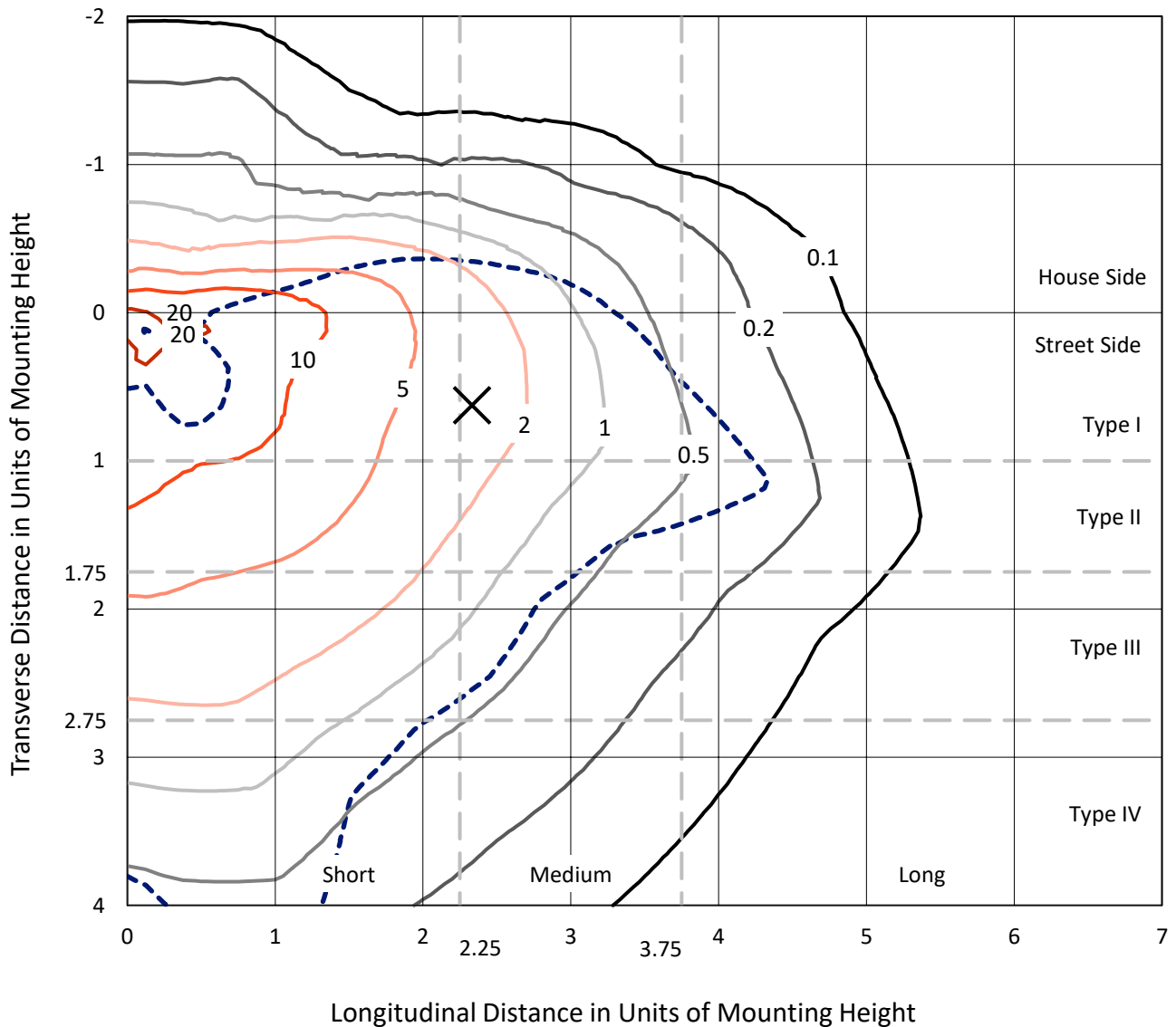
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

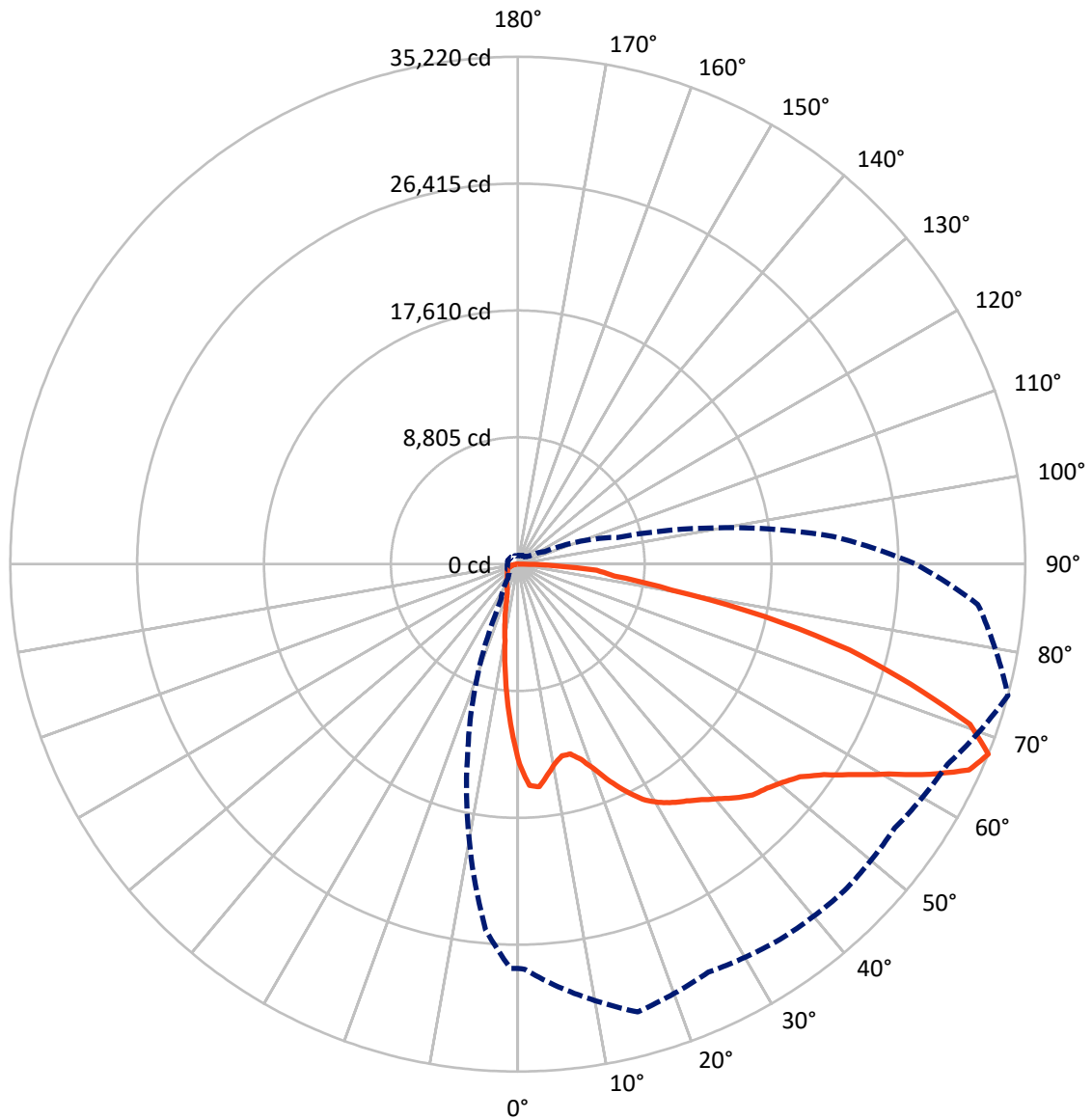
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 27.4 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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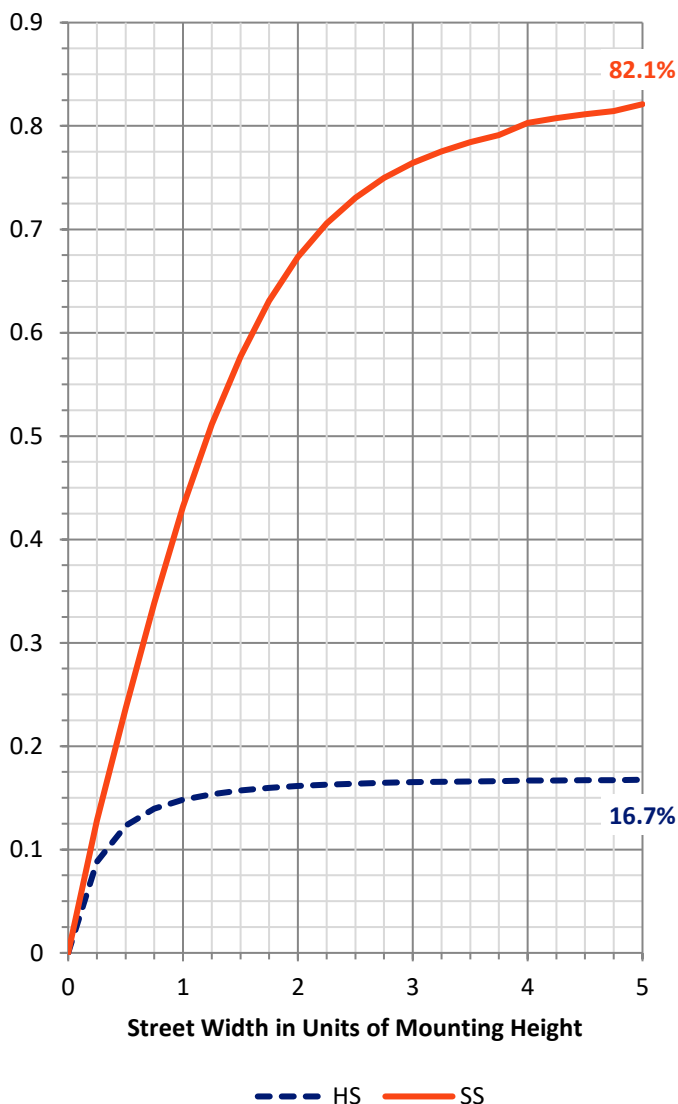
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7511.1	0.0	7511.1
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	36927.9	0.0	36927.9
	% Fixture	83.1	0.0	83.1
Total	Lumens	44439.0	0.0	44439.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1053.1	2.4
10°-20°	2196.2	4.9
20°-30°	3160.3	7.1
30°-40°	4551.7	10.2
40°-50°	6393.9	14.4
50°-60°	8917.3	20.1
60°-70°	10602.1	23.9
70°-80°	6244.0	14.1
80°-90°	1320.4	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°	44439.0	100.0
0°-180°	44439.0	100.0

Coefficient of Utilization



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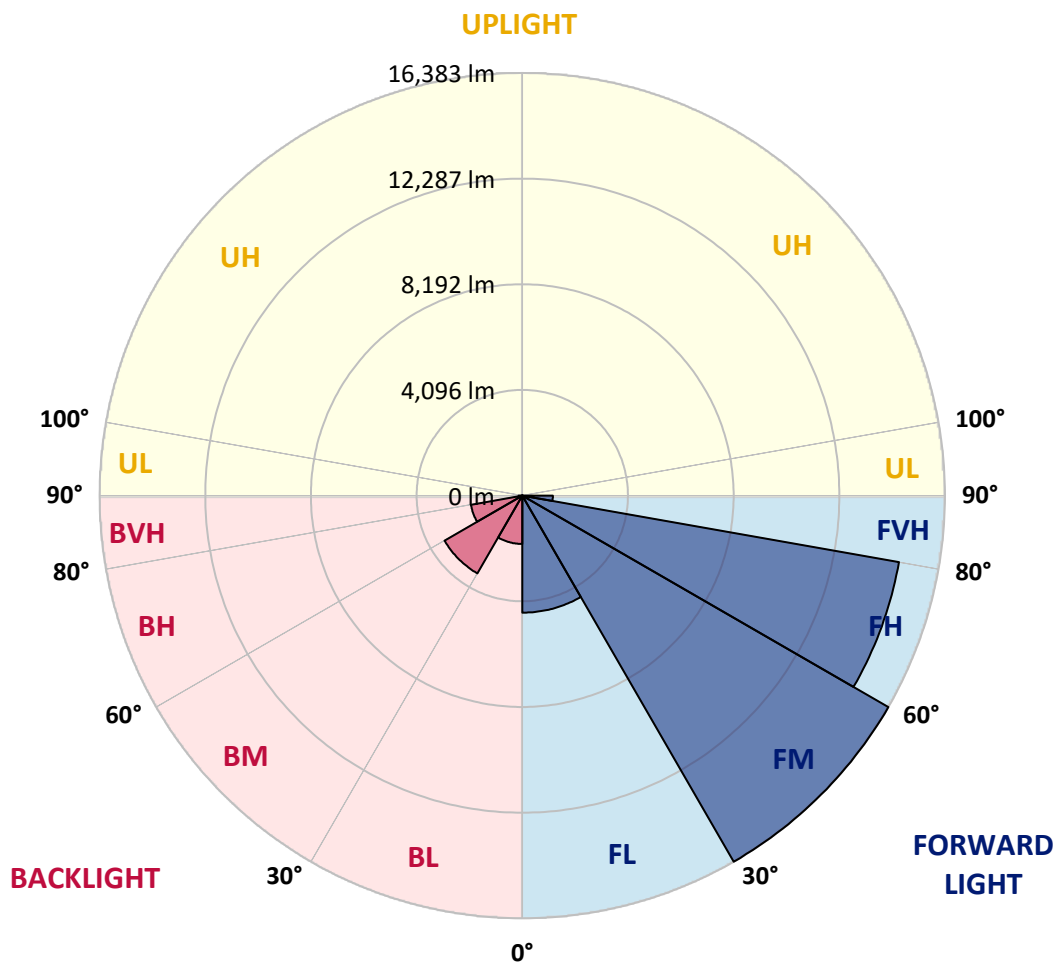
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4536.0	10.2			
FM	(30°-60°)	16383.0	36.9			
FH	(60°-80°)	14825.0	33.4			G5
FVH	(80°-90°)	1183.8	2.7			G5
BL	(0°-30°)	1873.5	4.2	B3/2500		
BM	(30°-60°)	3479.9	7.8	B3/5000		
BH	(60°-80°)	2021.1	4.5	B3/2500		G3/2500
BVH	(80°-90°)	136.6	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13883.8	13883.8	13883.8	13883.8	13883.8	13883.8	13883.8	13883.8	13883.8	13883.8	13883.8
2.5°	14969.5	14989.5	15117.7	15491.0	15747.5	15841.5	15907.1	15784.6	15664.9	15374.2	14935.3
5°	14923.9	15040.8	15374.2	16212.0	16873.1	17158.1	17243.6	16876.0	16269.0	15522.4	14624.7
7.5°	14051.9	14208.7	14721.6	16126.5	17292.1	17958.9	17870.5	17206.6	16112.3	14781.5	13527.6
10°	13017.5	13191.3	13809.7	15508.1	17009.9	17927.5	17927.5	17118.2	15664.9	14083.3	12638.5
12.5°	12196.8	12379.1	13085.9	14872.6	16422.9	17292.1	17437.4	16742.1	15342.8	13641.6	12054.3
15°	11926.0	12102.7	12863.6	14487.9	15801.7	16331.7	16380.1	16152.2	15186.1	13672.9	12028.6
17.5°	12262.3	12490.3	13259.7	14601.9	15231.7	15263.1	15300.1	15479.6	15203.2	14245.7	12547.3
20°	13234.1	13479.1	14282.8	14969.5	14733.0	14408.1	14428.1	14889.7	15405.5	15191.8	13786.9
22.5°	14636.1	14849.8	15673.4	15616.4	14522.1	13852.4	13712.8	14356.8	15704.8	16371.6	15106.3
25°	16149.3	16400.1	17346.2	16576.8	14582.0	13521.9	13433.5	14043.4	16015.4	17474.4	16630.9
27.5°	17881.9	18127.0	18873.6	17545.7	14895.4	13496.2	13390.8	14014.9	16294.7	18494.6	18087.1
30°	19170.0	19395.1	19902.4	18360.7	15280.2	13667.2	13536.1	14240.0	16534.0	19192.8	19506.3
32.5°	20181.7	20415.3	20691.8	18867.9	15787.4	13977.8	13735.6	14650.4	16847.5	19725.7	20557.8
35°	21236.1	21512.5	21492.5	19318.2	16260.5	14336.9	14100.4	15243.1	17340.5	20190.2	21891.5
37.5°	22572.6	22683.7	22541.2	19722.9	16827.5	14983.8	14852.7	16123.7	18041.5	20751.6	23450.3
40°	23929.0	24151.3	23418.9	20213.0	17517.2	16200.6	16186.4	17426.0	18873.6	21409.9	24960.6
42.5°	25091.7	25279.8	24239.6	20640.5	18352.1	17685.3	17793.6	19172.9	19965.1	22173.6	26174.6
45°	25966.6	26134.7	24997.7	21053.7	19452.1	19400.8	20039.2	21045.1	21341.5	22860.4	26887.0
47.5°	26710.3	26872.8	25524.9	21680.6	20811.4	21449.8	22561.2	22997.2	22518.4	23253.6	27684.9
50°	27337.3	27385.7	25886.8	22427.2	22498.5	23960.4	25037.6	25319.7	23681.1	23817.9	28377.4
52.5°	27989.9	27927.2	26510.9	23367.6	24322.3	26342.7	27126.4	27419.9	24795.3	24513.2	29386.2
55°	29451.8	29511.6	27910.1	24553.1	26166.1	28682.3	29713.9	29431.8	26029.3	25792.7	30668.6
57.5°	31218.6	31167.3	29879.2	26408.3	28044.0	30859.5	31628.9	31175.8	27676.4	27551.0	31968.1
60°	31905.4	31973.8	31526.4	28403.1	29896.3	32766.0	33552.5	32848.6	29651.2	29594.3	32948.4
62.5°	31215.7	31600.5	31902.5	30178.4	31475.1	34168.0	34948.9	34145.2	31711.6	32124.8	33635.1
65°	29842.2	29924.8	30953.6	31683.1	32235.9	34398.9	34806.4	34378.9	33432.8	34430.2	33603.8
67.5°	28058.3	28129.5	29334.9	32176.1	31255.6	31777.1	32062.1	31936.7	32899.9	35219.6	32056.4
70°	26359.8	26302.8	27576.7	30919.4	27209.0	26416.8	26653.4	26260.1	28388.8	33290.3	29021.5
72.5°	23054.2	23259.3	24627.2	27425.6	21543.8	20255.8	20771.5	19754.2	21834.5	28511.4	23555.7
75°	18058.6	18107.1	20389.7	23017.1	16251.9	14220.1	14918.2	14493.6	16725.0	23783.7	16266.2
77.5°	12504.5	12396.2	14849.8	17579.9	11589.8	10410.0	10421.4	10219.1	11678.1	17511.5	11051.2
80°	7942.1	7776.9	9295.8	10860.3	7964.9	8520.6	8241.4	8232.8	7603.0	10803.3	6682.6
82.5°	4291.7	4474.0	5873.3	6808.0	5713.7	6585.7	6035.7	5859.0	5217.8	6762.4	4274.6
85°	1954.9	2125.9	3131.8	4630.8	4340.1	4388.6	2932.4	3459.5	4317.3	5491.4	2282.6
87.5°	190.9	245.1	646.9	2185.7	1481.9	1168.4	436.0	840.7	1085.7	1952.1	182.4
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°	13883.8	13883.8	13883.8	13883.8	13883.8	13883.8	13883.8	13883.8	13883.8	13883.8	13883.8
2.5°	14755.8	14607.6	14103.2	13687.2	13245.5	12909.2	12470.3	12176.8	11974.5	11669.6	11632.5
5°	14077.6	13715.7	12838.0	11943.1	11170.9	10589.5	9999.6	9458.2	9139.0	9039.3	8911.0
7.5°	12934.8	12325.0	11196.5	10170.6	9284.4	8418.0	7751.2	7278.2	6961.8	6776.6	6554.3
10°	11994.4	11287.7	9914.1	8657.4	7927.9	7389.3	6802.3	6295.0	5904.6	5571.2	5388.8
12.5°	11361.8	10563.9	9019.3	7999.1	7434.9	6862.1	6175.3	5605.4	5029.7	4650.7	4488.3
15°	11170.9	10327.4	8742.9	7671.4	6862.1	6112.6	5343.2	4599.4	4029.5	3670.4	3550.7
17.5°	11638.2	10618.0	8740.1	7235.4	6189.6	5294.8	4308.8	3610.6	3026.4	2758.5	2673.0
20°	12510.2	11176.6	8765.7	6805.1	5460.0	4200.5	3134.7	2561.9	2282.6	2168.6	2125.9
22.5°	13727.1	12028.6	8842.7	6380.5	4662.1	3225.9	2348.2	2057.5	1957.8	1937.8	1929.3
25°	15226.0	13083.0	9102.0	5998.6	3989.6	2462.2	1963.5	1832.4	1775.4	1755.4	1752.6
27.5°	16605.3	14445.2	9415.4	5670.9	3339.9	2123.0	1775.4	1664.2	1607.2	1604.4	1610.1
30°	17850.6	15585.1	9677.6	5303.3	2846.9	1886.5	1652.8	1541.7	1487.5	1484.7	1501.8
32.5°	18927.8	16522.6	9871.4	4941.4	2573.3	1741.2	1541.7	1422.0	1376.4	1367.9	1376.4
35°	20079.1	17457.3	9783.1	4659.3	2416.6	1621.5	1459.1	1342.2	1288.1	1262.4	1262.4
37.5°	21392.8	18420.5	9632.0	4425.6	2345.3	1521.7	1387.8	1273.8	1219.7	1194.0	1191.2
40°	22826.2	19383.7	9424.0	4217.6	2274.1	1461.9	1339.4	1219.7	1154.1	1128.5	1122.8
42.5°	24091.5	20207.3	9253.0	4080.8	2157.2	1473.3	1296.6	1179.8	1097.1	1062.9	1060.1
45°	25191.5	21036.6	9221.7	4001.0	2060.3	1456.2	1285.2	1148.4	1051.5	1014.5	1008.8
47.5°	26052.1	21900.0	9401.2	3955.4	1954.9	1365.0	1359.3	1128.5	1011.6	971.8	966.1
50°	27100.8	23125.4	9811.6	3861.4	1858.0	1279.5	1436.3	1125.6	980.3	929.0	914.8
52.5°	28497.1	24721.2	10367.3	3693.2	1718.4	1199.7	1370.7	1125.6	943.3	892.0	874.9
55°	30608.8	26755.9	10911.5	3456.7	1521.7	1094.3	1236.8	1091.4	889.1	843.5	832.1
57.5°	32008.0	28243.5	11259.2	3129.0	1276.7	1017.3	1065.8	1037.3	835.0	786.5	786.5
60°	32079.2	28642.5	11093.9	2715.8	1122.8	946.1	926.2	1045.8	786.5	735.2	729.5
62.5°	31258.5	27665.0	10233.3	2345.3	1040.1	869.2	837.8	917.6	738.1	686.8	678.2
65°	29976.1	25171.5	8740.1	2168.6	994.5	800.8	755.2	752.3	686.8	638.3	626.9
67.5°	27619.4	21996.9	7181.3	2066.0	971.8	723.8	681.1	666.8	626.9	587.0	581.3
70°	24145.6	18423.4	5759.3	2023.3	960.4	644.0	609.8	592.7	558.5	527.2	524.3
72.5°	18785.3	14943.9	4753.3	1994.8	954.7	569.9	532.9	510.1	490.2	461.7	461.7
75°	13493.4	10994.2	3627.7	1798.2	883.4	490.2	450.3	436.0	407.5	384.7	390.4
77.5°	8506.4	7403.6	2388.1	1322.3	683.9	393.3	359.1	350.5	327.7	296.4	316.3
80°	5745.0	5206.4	1393.5	832.1	430.3	287.8	276.4	273.6	247.9	213.7	216.6
82.5°	3909.8	3835.7	723.8	473.1	247.9	168.1	162.4	168.1	139.6	114.0	114.0
85°	1527.4	2086.0	342.0	185.2	79.8	25.6	37.0	39.9	22.8	11.4	14.2
87.5°	28.5	213.7	8.5	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°	13883.8	13883.8	13883.8	13883.8	13883.8	13883.8	13883.8	13883.8	13883.8	13883.8	13883.8
2.5°	11575.5	11549.9	11592.6	11410.2	11447.3	11515.7	11549.9	11569.8	11852.0	11786.4	11965.9
5°	9030.7	9005.1	9170.4	9193.2	9278.7	9261.6	9344.2	9364.2	9466.7	9503.8	9754.6
7.5°	6568.6	6679.7	6867.8	6964.7	7110.0	7155.6	7112.9	7218.3	7004.6	7158.5	7204.1
10°	5277.7	5143.7	5063.9	5286.2	5314.7	5525.6	5440.1	5371.7	5497.1	5502.8	5622.5
12.5°	4394.3	4106.4	3915.5	3978.2	4046.6	4137.8	4152.0	4288.8	4380.0	4465.5	4536.7
15°	3445.3	3345.6	3171.7	3086.2	3183.1	3220.2	3308.5	3422.5	3519.4	3545.0	3641.9
17.5°	2644.5	2661.6	2633.1	2581.8	2641.7	2670.2	2675.9	2678.7	2704.4	2687.3	2829.8
20°	2128.7	2188.6	2259.8	2271.2	2291.2	2305.4	2279.8	2182.9	2185.7	2245.6	2291.2
22.5°	1926.4	1937.8	2017.6	2043.2	2105.9	2080.3	2006.2	1960.6	1954.9	1969.2	1991.9
25°	1766.8	1783.9	1840.9	1880.8	1929.3	1883.7	1829.5	1786.8	1781.1	1795.3	1818.1
27.5°	1624.3	1650.0	1701.3	1741.2	1786.8	1744.0	1692.7	1655.7	1652.8	1650.0	1664.2
30°	1510.3	1538.8	1575.9	1621.5	1652.8	1615.8	1567.3	1547.4	1544.5	1538.8	1544.5
32.5°	1396.4	1442.0	1479.0	1501.8	1533.1	1504.6	1467.6	1456.2	1436.3	1419.2	1410.6
35°	1268.1	1316.6	1373.6	1402.1	1433.4	1404.9	1379.3	1330.8	1296.6	1293.8	1299.5
37.5°	1194.0	1214.0	1259.6	1308.0	1339.4	1325.1	1276.7	1228.2	1219.7	1219.7	1225.4
40°	1128.5	1137.0	1157.0	1219.7	1276.7	1233.9	1174.1	1159.8	1159.8	1157.0	1159.8
42.5°	1062.9	1071.5	1071.5	1119.9	1211.1	1142.7	1097.1	1097.1	1097.1	1100.0	1108.5
45°	1003.1	1005.9	1003.1	1037.3	1122.8	1065.8	1034.4	1043.0	1048.7	1054.4	1060.1
47.5°	951.8	954.7	951.8	980.3	1023.0	1000.2	983.2	994.5	1005.9	1014.5	1020.2
50°	906.2	903.4	909.1	926.2	946.1	951.8	940.4	957.5	963.2	974.6	988.8
52.5°	866.3	863.5	869.2	877.7	906.2	906.2	906.2	920.5	931.9	943.3	963.2
55°	820.7	823.6	832.1	843.5	880.6	874.9	877.7	889.1	900.5	917.6	929.0
57.5°	778.0	783.7	795.1	812.2	849.2	846.4	849.2	854.9	869.2	877.7	889.1
60°	729.5	740.9	755.2	766.6	803.6	800.8	815.0	826.4	835.0	835.0	840.7
62.5°	681.1	698.2	712.4	721.0	760.9	763.7	783.7	792.2	797.9	792.2	800.8
65°	632.6	658.3	664.0	675.4	715.3	718.1	740.9	760.9	755.2	749.5	763.7
67.5°	584.2	615.5	612.7	626.9	666.8	672.5	692.5	726.7	715.3	709.6	721.0
70°	530.0	552.8	555.7	564.2	618.4	609.8	641.2	672.5	664.0	666.8	666.8
72.5°	470.2	490.2	490.2	507.2	564.2	550.0	575.6	609.8	609.8	607.0	607.0
75°	399.0	410.4	421.8	447.4	507.2	490.2	507.2	538.6	544.3	538.6	538.6
77.5°	322.0	339.1	344.8	379.0	421.8	418.9	436.0	450.3	461.7	456.0	456.0
80°	228.0	245.1	267.9	304.9	330.6	339.1	347.7	359.1	364.8	364.8	370.5
82.5°	128.2	153.9	173.8	210.9	222.3	265.0	262.2	270.7	262.2	230.8	256.5
85°	28.5	54.1	76.9	96.9	111.1	153.9	162.4	182.4	151.0	139.6	139.6
87.5°	0.0	0.0	0.0	0.0	0.0	22.8	45.6	62.7	54.1	45.6	45.6
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	13883.8	13883.8	13883.8	13883.8	13883.8	13883.8	13883.8	13883.8	13883.8	13883.8
2.5°	12117.0	12364.9	12664.1	13179.9	13541.8	13932.2	14325.5	14744.4	14855.5	14969.5
5°	9823.0	10310.3	10575.3	11267.8	11994.4	12917.7	13672.9	14499.3	14844.1	14923.9
7.5°	7440.6	7771.2	8466.5	9167.5	10068.0	11036.9	12193.9	13482.0	13883.8	14051.9
10°	5898.9	6349.2	6959.0	7711.3	8500.7	9543.7	10848.9	12353.5	12923.4	13017.5
12.5°	5021.2	5522.7	6186.7	6981.8	7728.4	8514.9	9831.5	11384.6	11994.4	12196.8
15°	4015.2	4622.2	5388.8	6226.6	7038.8	7899.4	9233.1	10985.6	11689.5	11926.0
17.5°	3154.6	3644.8	4474.0	5383.1	6346.3	7434.9	9107.7	11176.6	12042.9	12262.3
20°	2413.7	2764.2	3462.4	4422.8	5551.2	6976.1	9139.0	11897.5	12934.8	13234.1
22.5°	2086.0	2265.5	2690.1	3604.9	4867.3	6577.1	9267.3	12886.4	14137.4	14636.1
25°	1889.4	1983.4	2222.8	2821.2	4214.7	6189.6	9560.8	14217.2	15818.7	16149.3
27.5°	1721.2	1789.6	1937.8	2368.1	3622.0	5830.5	9902.7	15693.4	17388.9	17881.9
30°	1561.6	1652.8	1792.5	2103.1	3243.0	5502.8	10333.1	16890.2	18711.2	19170.0
32.5°	1439.1	1530.3	1658.5	1917.9	2921.0	5158.0	10589.5	17941.8	19791.2	20181.7
35°	1339.4	1416.3	1550.2	1769.7	2675.9	4895.8	10538.2	18776.8	20837.1	21236.1
37.5°	1268.1	1333.7	1467.6	1630.0	2490.6	4622.2	10512.6	19879.6	22110.9	22572.6
40°	1202.6	1271.0	1393.5	1538.8	2305.4	4300.2	10526.8	20973.9	23467.4	23929.0
42.5°	1151.3	1228.2	1328.0	1513.2	2114.5	4040.9	10526.8	21925.7	24647.2	25091.7
45°	1108.5	1191.2	1288.1	1510.3	1963.5	3844.3	10455.6	22743.5	25587.6	25966.6
47.5°	1071.5	1162.7	1302.3	1459.1	1926.4	3701.8	10392.9	23399.0	26354.1	26710.3
50°	1045.8	1154.1	1385.0	1399.2	1937.8	3659.0	10695.0	24225.4	27029.5	27337.3
52.5°	1025.9	1157.0	1382.1	1310.9	1917.9	3687.5	11324.8	25516.3	27967.1	27989.9
55°	986.0	1154.1	1310.9	1211.1	1835.2	3736.0	12134.1	27391.4	29434.7	29451.8
57.5°	946.1	1122.8	1216.8	1125.6	1667.1	3736.0	13108.7	29166.8	31204.3	31218.6
60°	906.2	1168.4	1068.6	1051.5	1447.7	3667.6	14137.4	29947.6	31760.0	31905.4
62.5°	866.3	1176.9	954.7	986.0	1288.1	3502.3	14904.0	29084.2	31007.7	31215.7
65°	820.7	949.0	880.6	917.6	1205.4	3225.9	14661.8	27502.6	29594.3	29842.2
67.5°	766.6	803.6	800.8	846.4	1176.9	2818.4	13385.1	25502.1	28072.5	28058.3
70°	701.0	721.0	729.5	778.0	1122.8	2502.0	11153.8	22906.0	26040.7	26359.8
72.5°	632.6	649.7	658.3	701.0	1068.6	2322.5	8657.4	19329.6	22555.5	23054.2
75°	558.5	569.9	581.3	618.4	1011.6	2057.5	6166.8	14755.8	17275.0	18058.6
77.5°	481.6	481.6	495.8	532.9	852.1	1698.4	4137.8	10350.2	11703.8	12504.5
80°	390.4	393.3	387.6	427.5	626.9	1162.7	2351.0	6913.4	7788.3	7942.1
82.5°	299.2	290.7	293.5	313.5	467.4	792.2	1253.9	4294.5	4377.2	4291.7
85°	188.1	188.1	182.4	205.2	299.2	413.2	683.9	2630.3	2054.6	1954.9
87.5°	76.9	62.7	71.2	82.6	142.5	168.1	267.9	541.4	208.0	190.9
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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