

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: P459425

Luminaire Tested: **GALN-SA8D-735-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459425
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-SA8D-735-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 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: 50160 lumens
Efficiency: N/A
Efficacy: 101.7 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

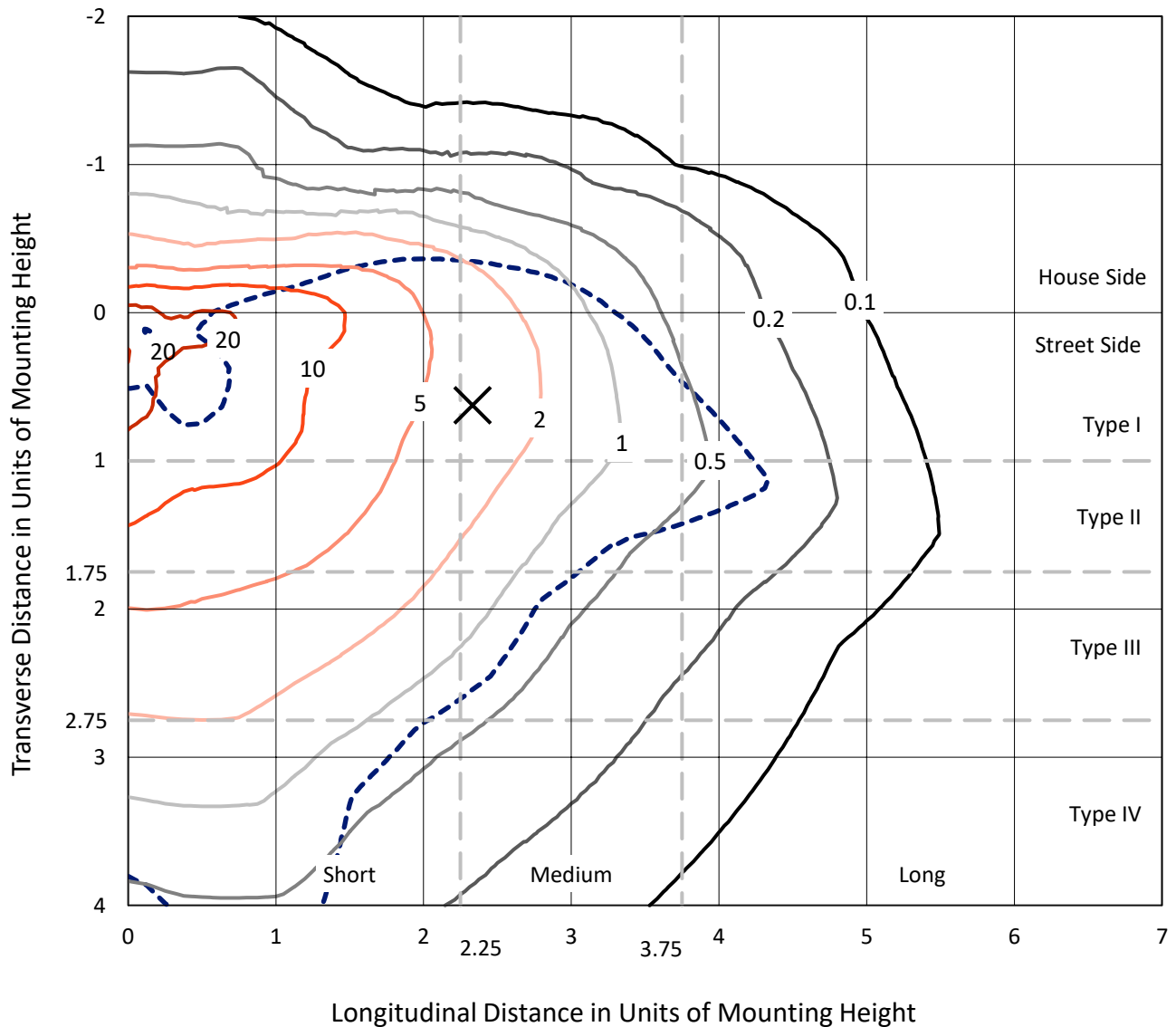
Input Watts (W): 493
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

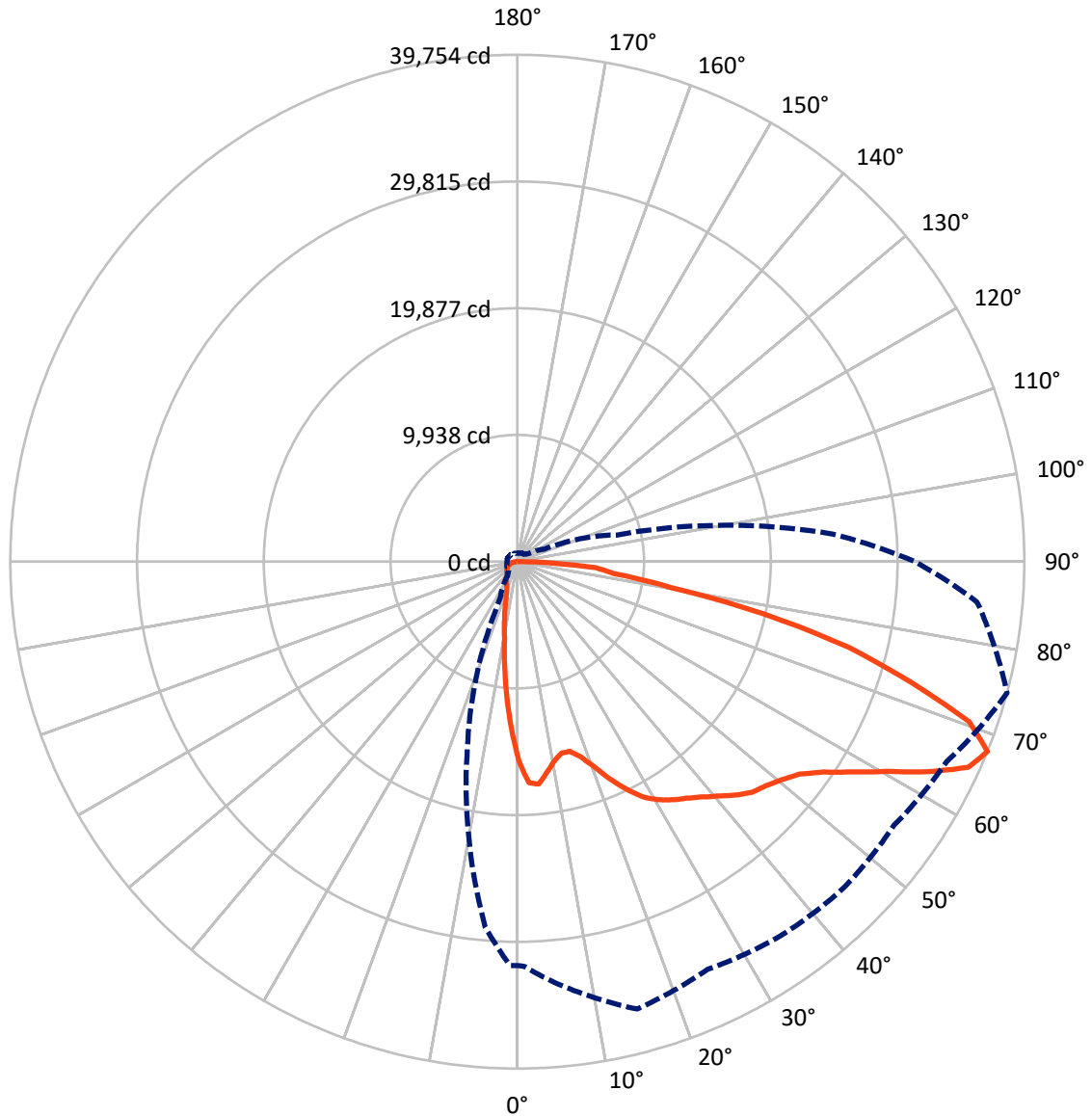
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 30.9 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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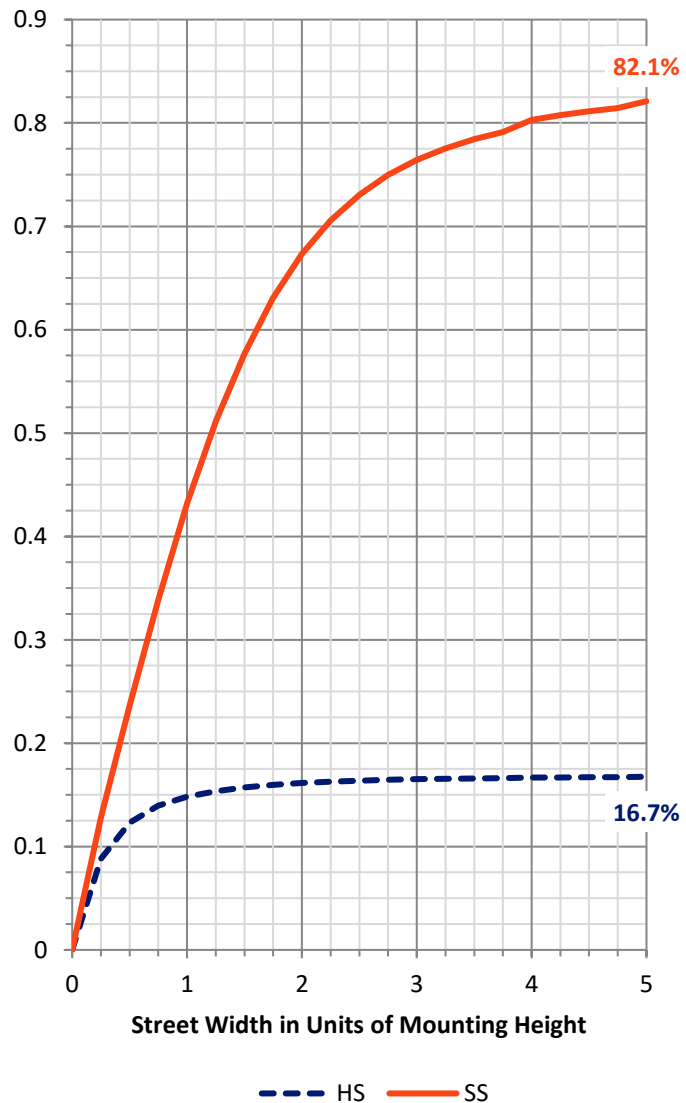
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8478.1	0.0	8478.1
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	41681.9	0.0	41681.9
	% Fixture	83.1	0.0	83.1
Total	Lumens	50160.0	0.0	50160.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1188.6	2.4
10°-20°	2478.9	4.9
20°-30°	3567.2	7.1
30°-40°	5137.7	10.2
40°-50°	7217.1	14.4
50°-60°	10065.3	20.1
60°-70°	11967.0	23.9
70°-80°	7047.9	14.1
80°-90°	1490.4	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°	50160.0	100.0
0°-180°	50160.0	100.0



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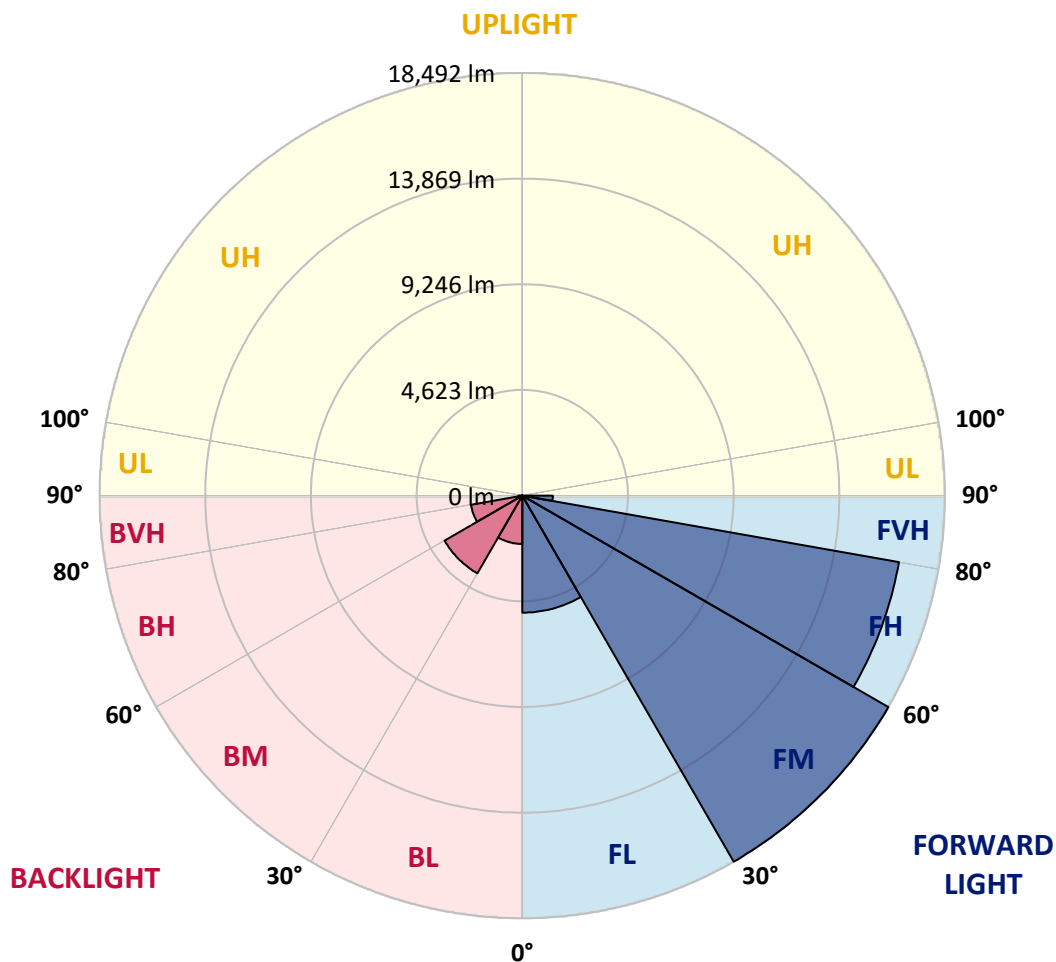
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5120.0	10.2			
FM	(30°-60°)	18492.1	36.9			
FH	(60°-80°)	16733.6	33.4			G5
FVH	(80°-90°)	1336.2	2.7			G5
BL	(0°-30°)	2114.7	4.2	B3/2500		
BM	(30°-60°)	3927.9	7.8	B3/5000		
BH	(60°-80°)	2281.3	4.5	B3/2500		G3/2500
BVH	(80°-90°)	154.1	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°	15671.2	15671.2	15671.2	15671.2	15671.2	15671.2	15671.2	15671.2	15671.2	15671.2	15671.2
2.5°	16896.7	16919.2	17063.9	17485.3	17774.8	17881.0	17954.9	17816.6	17681.5	17353.4	16858.1
5°	16845.2	16977.1	17353.4	18299.1	19045.4	19367.0	19463.5	19048.6	18363.4	17520.7	16507.5
7.5°	15860.9	16037.9	16616.8	18202.6	19518.2	20270.9	20171.2	19421.7	18186.5	16684.4	15269.1
10°	14693.3	14889.5	15587.5	17504.6	19199.8	20235.5	20235.5	19322.0	17681.5	15896.3	14265.5
12.5°	13767.0	13972.8	14770.5	16787.3	18537.1	19518.2	19682.2	18897.4	17318.1	15397.8	13606.1
15°	13461.4	13660.8	14519.6	16353.1	17835.9	18434.2	18488.9	18231.6	17141.1	15433.1	13577.2
17.5°	13840.9	14098.3	14966.7	16481.7	17192.6	17228.0	17269.8	17472.5	17160.4	16079.7	14162.6
20°	14937.8	15214.4	16121.5	16896.7	16629.7	16263.0	16285.5	16806.6	17388.8	17147.6	15561.8
22.5°	16520.3	16761.6	17691.2	17626.9	16391.7	15635.8	15478.2	16205.1	17726.6	18479.2	17051.1
25°	18228.4	18511.4	19579.3	18710.8	16459.2	15262.7	15163.0	15851.3	18077.2	19724.1	18772.0
27.5°	20184.0	20460.7	21303.4	19804.5	16813.1	15233.7	15114.7	15819.1	18392.4	20875.6	20415.6
30°	21637.9	21892.0	22464.6	20724.4	17247.3	15426.7	15278.7	16073.2	18662.6	21663.7	22017.5
32.5°	22779.8	23043.6	23355.6	21297.0	17819.8	15777.3	15503.9	16536.4	19016.4	22265.2	23204.4
35°	23969.9	24282.0	24259.4	21805.2	18353.8	16182.6	15915.6	17205.5	19572.9	22789.5	24709.8
37.5°	25478.5	25604.0	25443.1	22261.9	18993.9	16912.8	16764.8	18199.4	20364.2	23423.1	26469.2
40°	27009.6	27260.5	26433.8	22815.2	19772.3	18286.2	18270.2	19669.4	21303.4	24166.2	28174.0
42.5°	28322.0	28534.3	27360.2	23297.7	20714.8	19962.1	20084.3	21641.1	22535.3	25028.2	29544.3
45°	29309.5	29499.2	28215.8	23764.1	21956.4	21898.5	22619.0	23754.4	24089.0	25803.4	30348.4
47.5°	30149.0	30332.3	28810.9	24471.7	23490.7	24211.2	25465.7	25957.8	25417.4	26247.3	31249.1
50°	30856.6	30911.3	29219.4	25314.5	25394.9	27045.0	28260.9	28579.3	26729.8	26884.2	32030.7
52.5°	31593.2	31522.5	29923.8	26375.9	27453.5	29734.1	30618.6	30949.9	27987.5	27669.0	33169.4
55°	33243.3	33310.9	31503.2	27714.0	29534.6	32374.9	33539.3	33220.8	29380.2	29113.3	34616.8
57.5°	35237.6	35179.7	33725.8	29808.0	31654.4	34832.3	35700.8	35189.4	31239.4	31097.9	36083.6
60°	36012.8	36090.0	35585.0	32059.6	33745.1	36984.2	37872.0	37077.5	33468.5	33404.2	37190.1
62.5°	35234.4	35668.6	36009.6	34063.6	35527.1	38566.8	39448.1	38541.0	35794.1	36260.5	37965.3
65°	33684.0	33777.3	34938.5	35761.9	36385.9	38827.3	39287.3	38804.8	37736.9	38862.7	37929.9
67.5°	31670.4	31750.8	33111.5	36318.4	35279.4	35868.1	36189.7	36048.2	37135.4	39753.7	36183.3
70°	29753.4	29689.0	31126.8	34899.9	30711.9	29817.7	30084.7	29640.8	32043.6	37576.1	32757.6
72.5°	26022.1	26253.7	27797.7	30956.4	24317.3	22863.4	23445.6	22297.3	24645.4	32181.9	26588.2
75°	20383.5	20438.1	23014.6	25980.3	18344.1	16050.7	16838.8	16359.5	18878.1	26845.6	18360.2
77.5°	14114.3	13992.1	16761.6	19843.1	13081.8	11750.2	11763.0	11534.7	13181.5	19765.9	12473.9
80°	8964.6	8778.0	10492.5	12258.4	8990.3	9617.6	9302.3	9292.7	8581.8	12194.0	7542.9
82.5°	4844.2	5050.0	6629.4	7684.4	6449.2	7433.5	6812.7	6613.3	5889.6	7632.9	4824.9
85°	2206.6	2399.6	3535.0	5226.9	4898.8	4953.5	3309.9	3904.9	4873.1	6198.3	2576.5
87.5°	215.5	276.6	730.2	2467.1	1672.6	1318.8	492.1	948.9	1225.5	2203.4	205.9
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	15671.2	15671.2	15671.2	15671.2	15671.2	15671.2	15671.2	15671.2	15671.2	15671.2	15671.2
2.5°	16655.4	16488.2	15918.8	15449.2	14950.7	14571.1	14075.7	13744.4	13516.1	13171.9	13130.1
5°	15889.9	15481.4	14490.7	13480.7	12609.0	11952.8	11287.0	10675.8	10315.6	10203.0	10058.2
7.5°	14600.1	13911.7	12637.9	11480.0	10479.6	9501.8	8749.1	8215.1	7858.1	7649.0	7398.1
10°	13538.6	12740.9	11190.5	9772.0	8948.5	8340.6	7678.0	7105.4	6664.8	6288.4	6082.6
12.5°	12824.5	11923.9	10180.5	9028.9	8392.1	7745.5	6970.3	6327.0	5677.3	5249.5	5066.1
15°	12609.0	11656.9	9868.5	8659.0	7745.5	6899.6	6031.1	5191.6	4548.2	4143.0	4007.9
17.5°	13136.5	11985.0	9865.2	8166.9	6986.4	5976.4	4863.5	4075.4	3416.0	3113.6	3017.2
20°	14120.8	12615.4	9894.2	7681.2	6163.0	4741.2	3538.2	2891.7	2576.5	2447.8	2399.6
22.5°	15494.3	13577.2	9981.0	7201.9	5262.3	3641.2	2650.5	2322.4	2209.8	2187.3	2177.6
25°	17186.2	14767.3	10273.8	6770.9	4503.2	2779.1	2216.2	2068.3	2003.9	1981.4	1978.2
27.5°	18743.0	16304.8	10627.6	6401.0	3769.8	2396.4	2003.9	1878.5	1814.2	1810.9	1817.4
30°	20148.6	17591.5	10923.5	5986.1	3213.4	2129.4	1865.6	1740.2	1679.1	1675.8	1695.1
32.5°	21364.5	18649.7	11142.2	5577.5	2904.6	1965.3	1740.2	1605.1	1553.6	1544.0	1553.6
35°	22664.0	19704.8	11042.5	5259.1	2727.7	1830.2	1646.9	1515.0	1453.9	1424.9	1424.9
37.5°	24146.9	20792.0	10872.0	4995.3	2647.2	1717.7	1566.5	1437.8	1376.7	1347.7	1344.5
40°	25764.8	21879.2	10637.2	4760.5	2566.8	1650.1	1511.8	1376.7	1302.7	1273.8	1267.3
42.5°	27193.0	22808.8	10444.2	4606.1	2435.0	1663.0	1463.5	1331.7	1238.4	1199.8	1196.6
45°	28434.6	23744.8	10408.8	4516.1	2325.6	1643.7	1450.7	1296.3	1186.9	1145.1	1138.7
47.5°	29406.0	24719.4	10611.5	4464.6	2206.6	1540.7	1534.3	1273.8	1141.9	1096.9	1090.4
50°	30589.7	26102.5	11074.7	4358.5	2097.2	1444.2	1621.2	1270.5	1106.5	1048.6	1032.5
52.5°	32165.8	27903.8	11701.9	4168.7	1939.6	1354.2	1547.2	1270.5	1064.7	1006.8	987.5
55°	34549.3	30200.5	12316.3	3901.7	1717.7	1235.2	1396.0	1231.9	1003.6	952.1	939.2
57.5°	36128.6	31879.5	12708.7	3531.8	1441.0	1148.3	1203.0	1170.8	942.5	887.8	887.8
60°	36209.0	32329.8	12522.1	3065.4	1267.3	1067.9	1045.4	1180.5	887.8	829.9	823.4
62.5°	35282.7	31226.5	11550.7	2647.2	1174.1	981.1	945.7	1035.7	833.1	775.2	765.5
65°	33835.2	28412.0	9865.2	2447.8	1122.6	903.9	852.4	849.2	775.2	720.5	707.6
67.5°	31175.1	24828.8	8105.8	2332.0	1096.9	817.0	768.8	752.7	707.6	662.6	656.2
70°	27254.1	20795.2	6500.7	2283.8	1084.0	726.9	688.3	669.0	630.4	595.1	591.9
72.5°	21203.7	16867.7	5365.3	2251.6	1077.6	643.3	601.5	575.8	553.3	521.1	521.1
75°	15230.5	12409.6	4094.7	2029.7	997.1	553.3	508.2	492.1	460.0	434.2	440.7
77.5°	9601.5	8356.7	2695.5	1492.5	772.0	443.9	405.3	395.6	369.9	334.5	357.0
80°	6484.6	5876.7	1572.9	939.2	485.7	324.9	312.0	308.8	279.8	241.2	244.5
82.5°	4413.1	4329.5	817.0	534.0	279.8	189.8	183.3	189.8	157.6	128.7	128.7
85°	1724.1	2354.5	386.0	209.1	90.1	28.9	41.8	45.0	25.7	12.9	16.1
87.5°	32.2	241.2	9.6	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°	15671.2	15671.2	15671.2	15671.2	15671.2	15671.2	15671.2	15671.2	15671.2	15671.2	15671.2
2.5°	13065.7	13036.8	13085.0	12879.2	12921.0	12998.2	13036.8	13059.3	13377.8	13303.8	13506.4
5°	10193.3	10164.4	10350.9	10376.7	10473.2	10453.9	10547.2	10569.7	10685.5	10727.3	11010.3
7.5°	7414.2	7539.7	7752.0	7861.3	8025.4	8076.8	8028.6	8147.6	7906.4	8080.0	8131.5
10°	5957.1	5805.9	5715.9	5966.8	5998.9	6236.9	6140.4	6063.3	6204.8	6211.2	6346.3
12.5°	4960.0	4635.1	4419.6	4490.3	4567.5	4670.5	4686.6	4841.0	4943.9	5040.4	5120.8
15°	3888.8	3776.3	3580.1	3483.6	3592.9	3634.7	3734.4	3863.1	3972.5	4001.4	4110.8
17.5°	2985.0	3004.3	2972.1	2914.2	2981.8	3013.9	3020.4	3023.6	3052.5	3033.2	3194.1
20°	2402.8	2470.3	2550.7	2563.6	2586.1	2602.2	2573.3	2463.9	2467.1	2534.7	2586.1
22.5°	2174.4	2187.3	2277.3	2306.3	2377.1	2348.1	2264.5	2213.0	2206.6	2222.7	2248.4
25°	1994.3	2013.6	2077.9	2122.9	2177.6	2126.2	2065.0	2016.8	2010.4	2026.4	2052.2
27.5°	1833.4	1862.4	1920.3	1965.3	2016.8	1968.5	1910.6	1868.8	1865.6	1862.4	1878.5
30°	1704.8	1737.0	1778.8	1830.2	1865.6	1823.8	1769.1	1746.6	1743.4	1737.0	1743.4
32.5°	1576.1	1627.6	1669.4	1695.1	1730.5	1698.4	1656.5	1643.7	1621.2	1601.9	1592.2
35°	1431.4	1486.1	1550.4	1582.6	1617.9	1585.8	1556.8	1502.1	1463.5	1460.3	1466.8
37.5°	1347.7	1370.3	1421.7	1476.4	1511.8	1495.7	1441.0	1386.3	1376.7	1376.7	1383.1
40°	1273.8	1283.4	1305.9	1376.7	1441.0	1392.8	1325.2	1309.1	1309.1	1305.9	1309.1
42.5°	1199.8	1209.4	1209.4	1264.1	1367.0	1289.8	1238.4	1238.4	1238.4	1241.6	1251.2
45°	1132.2	1135.5	1132.2	1170.8	1267.3	1203.0	1167.6	1177.3	1183.7	1190.1	1196.6
47.5°	1074.3	1077.6	1074.3	1106.5	1154.8	1129.0	1109.7	1122.6	1135.5	1145.1	1151.5
50°	1022.9	1019.7	1026.1	1045.4	1067.9	1074.3	1061.5	1080.8	1087.2	1100.1	1116.2
52.5°	977.8	974.6	981.1	990.7	1022.9	1022.9	1022.9	1039.0	1051.8	1064.7	1087.2
55°	926.4	929.6	939.2	952.1	993.9	987.5	990.7	1003.6	1016.4	1035.7	1048.6
57.5°	878.1	884.6	897.4	916.7	958.5	955.3	958.5	965.0	981.1	990.7	1003.6
60°	823.4	836.3	852.4	865.3	907.1	903.9	919.9	932.8	942.5	942.5	948.9
62.5°	768.8	788.1	804.1	813.8	858.8	862.0	884.6	894.2	900.6	894.2	903.9
65°	714.1	743.0	749.5	762.3	807.4	810.6	836.3	858.8	852.4	846.0	862.0
67.5°	659.4	694.8	691.6	707.6	752.7	759.1	781.6	820.2	807.4	800.9	813.8
70°	598.3	624.0	627.2	636.9	698.0	688.3	723.7	759.1	749.5	752.7	752.7
72.5°	530.7	553.3	553.3	572.6	636.9	620.8	649.7	688.3	688.3	685.1	685.1
75°	450.3	463.2	476.1	505.0	572.6	553.3	572.6	607.9	614.4	607.9	607.9
77.5°	363.5	382.8	389.2	427.8	476.1	472.8	492.1	508.2	521.1	514.7	514.7
80°	257.3	276.6	302.4	344.2	373.1	382.8	392.4	405.3	411.7	411.7	418.2
82.5°	144.7	173.7	196.2	238.0	250.9	299.1	295.9	305.6	295.9	260.5	289.5
85°	32.2	61.1	86.8	109.4	125.4	173.7	183.3	205.9	170.5	157.6	157.6
87.5°	0.0	0.0	0.0	0.0	0.0	25.7	51.5	70.8	61.1	51.5	51.5
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°	15671.2	15671.2	15671.2	15671.2	15671.2	15671.2	15671.2	15671.2	15671.2	15671.2
2.5°	13676.9	13956.7	14294.5	14876.7	15285.2	15725.9	16169.7	16642.6	16768.0	16896.7
5°	11087.5	11637.6	11936.7	12718.4	13538.6	14580.8	15433.1	16366.0	16755.2	16845.2
7.5°	8398.5	8771.6	9556.5	10347.7	11364.2	12457.8	13763.7	15217.6	15671.2	15860.9
10°	6658.3	7166.5	7854.9	8704.1	9595.1	10772.3	12245.5	13943.9	14587.2	14693.3
12.5°	5667.6	6233.7	6983.2	7880.6	8723.4	9611.1	11097.2	12850.2	13538.6	13767.0
15°	4532.2	5217.3	6082.6	7028.2	7944.9	8916.4	10421.7	12399.9	13194.4	13461.4
17.5°	3560.8	4114.0	5050.0	6076.1	7163.3	8392.1	10280.2	12615.4	13593.3	13840.9
20°	2724.4	3120.1	3908.1	4992.1	6265.9	7874.2	10315.6	13429.2	14600.1	14937.8
22.5°	2354.5	2557.2	3036.5	4069.0	5493.9	7423.9	10460.3	14545.4	15957.4	16520.3
25°	2132.6	2238.7	2508.9	3184.4	4757.3	6986.4	10791.6	16047.5	17855.2	18228.4
27.5°	1942.8	2020.0	2187.3	2673.0	4088.3	6581.1	11177.6	17713.7	19627.6	20184.0
30°	1762.7	1865.6	2023.2	2373.8	3660.5	6211.2	11663.3	19064.7	21120.1	21637.9
32.5°	1624.4	1727.3	1872.0	2164.8	3297.0	5822.0	11952.8	20251.6	22339.1	22779.8
35°	1511.8	1598.6	1749.8	1997.5	3020.4	5526.1	11894.9	21194.0	23519.6	23969.9
37.5°	1431.4	1505.4	1656.5	1839.9	2811.3	5217.3	11866.0	22438.9	24957.4	25478.5
40°	1357.4	1434.6	1572.9	1737.0	2602.2	4853.8	11882.0	23674.0	26488.5	27009.6
42.5°	1299.5	1386.3	1498.9	1708.0	2386.7	4561.1	11882.0	24748.4	27820.2	28322.0
45°	1251.2	1344.5	1453.9	1704.8	2216.2	4339.2	11801.6	25671.5	28881.7	29309.5
47.5°	1209.4	1312.4	1470.0	1646.9	2174.4	4178.3	11730.9	26411.3	29746.9	30149.0
50°	1180.5	1302.7	1563.3	1579.3	2187.3	4130.1	12071.8	27344.1	30509.2	30856.6
52.5°	1158.0	1305.9	1560.0	1479.6	2164.8	4162.3	12782.7	28801.2	31567.5	31593.2
55°	1112.9	1302.7	1479.6	1367.0	2071.5	4216.9	13696.2	30917.8	33224.0	33243.3
57.5°	1067.9	1267.3	1373.5	1270.5	1881.7	4216.9	14796.3	32921.7	35221.5	35237.6
60°	1022.9	1318.8	1206.2	1186.9	1634.0	4139.7	15957.4	33803.0	35848.8	36012.8
62.5°	977.8	1328.4	1077.6	1112.9	1453.9	3953.2	16822.7	32828.4	34999.6	35234.4
65°	926.4	1071.1	993.9	1035.7	1360.6	3641.2	16549.3	31043.2	33404.2	33684.0
67.5°	865.3	907.1	903.9	955.3	1328.4	3181.2	15108.3	28785.2	31686.5	31670.4
70°	791.3	813.8	823.4	878.1	1267.3	2824.2	12589.7	25854.9	29393.1	29753.4
72.5°	714.1	733.4	743.0	791.3	1206.2	2621.5	9772.0	21818.1	25459.2	26022.1
75°	630.4	643.3	656.2	698.0	1141.9	2322.4	6960.7	16655.4	19498.9	20383.5
77.5°	543.6	543.6	559.7	601.5	961.8	1917.1	4670.5	11682.6	13210.5	14114.3
80°	440.7	443.9	437.5	482.5	707.6	1312.4	2653.7	7803.4	8790.9	8964.6
82.5°	337.7	328.1	331.3	353.8	527.5	894.2	1415.3	4847.4	4940.7	4844.2
85°	212.3	212.3	205.9	231.6	337.7	466.4	772.0	2968.9	2319.2	2206.6
87.5°	86.8	70.8	80.4	93.3	160.8	189.8	302.4	611.1	234.8	215.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)