

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: P459164

Luminaire Tested: **GALN-SA6C-735-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459164
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-SA6C-735-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 1050mA 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: 33476 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

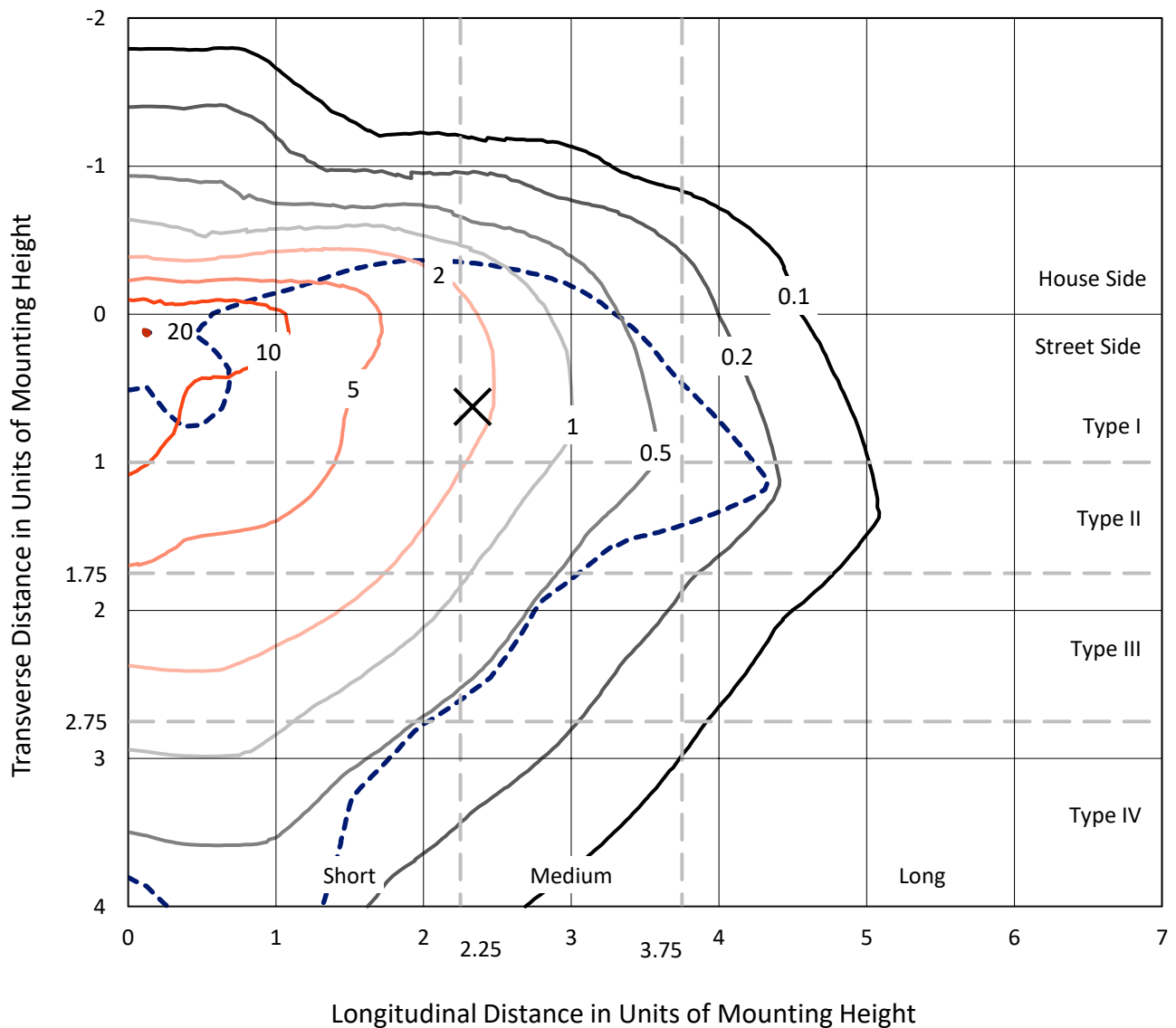
Input Watts (W): 321
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

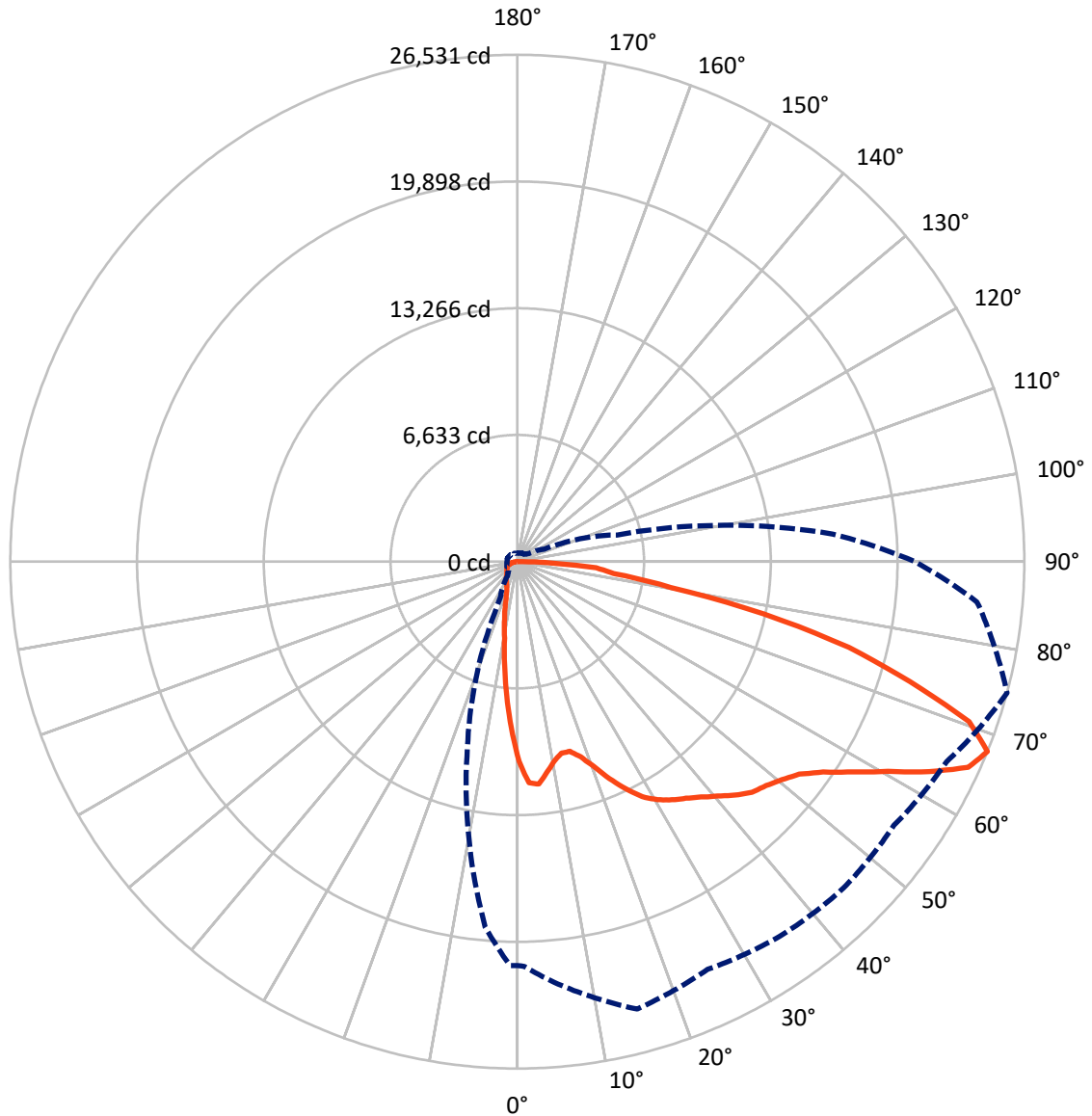
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.6 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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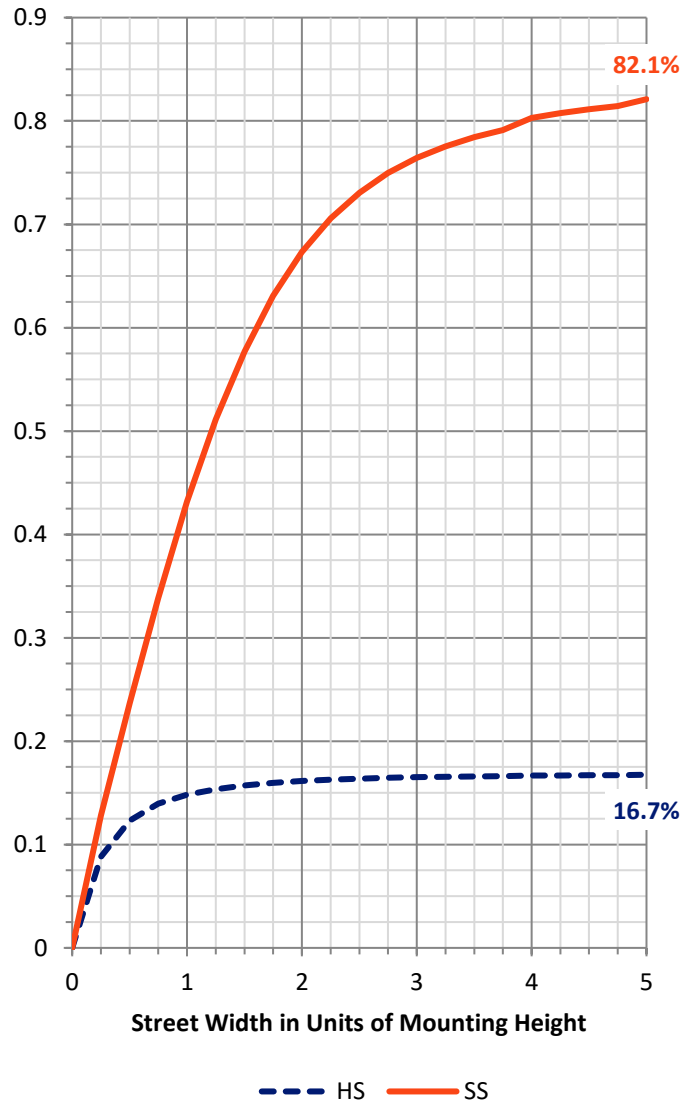
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5658.2	0.0	5658.2
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	27817.8	0.0	27817.8
	% Fixture	83.1	0.0	83.1
Total	Lumens	33476.0	0.0	33476.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	793.3	2.4
10°-20°	1654.4	4.9
20°-30°	2380.7	7.1
30°-40°	3428.8	10.2
40°-50°	4816.6	14.4
50°-60°	6717.4	20.1
60°-70°	7986.6	23.9
70°-80°	4703.6	14.1
80°-90°	994.6	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°	33476.0	100.0
0°-180°	33476.0	100.0



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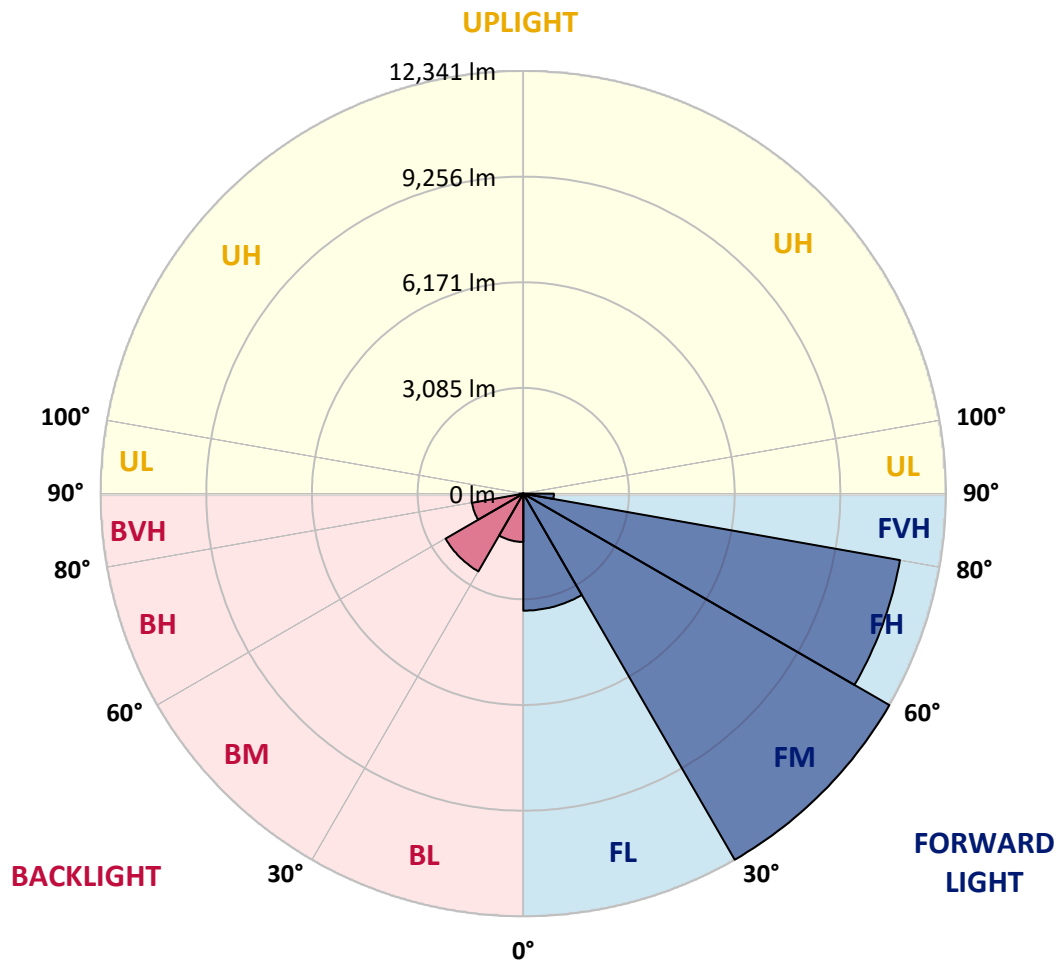
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3417.0	10.2			
FM	(30°-60°)	12341.4	36.9			
FH	(60°-80°)	11167.7	33.4			G4/12000
FVH	(80°-90°)	891.8	2.7			G5
BL	(0°-30°)	1411.3	4.2	B3/2500		
BM	(30°-60°)	2621.4	7.8	B3/5000		
BH	(60°-80°)	1522.5	4.5	B3/2500		G3/2500
BVH	(80°-90°)	102.9	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°	10458.7	10458.7	10458.7	10458.7	10458.7	10458.7	10458.7	10458.7	10458.7	10458.7	10458.7
2.5°	11276.6	11291.6	11388.2	11669.4	11862.6	11933.5	11982.8	11890.5	11800.4	11581.4	11250.8
5°	11242.2	11330.3	11581.4	12212.5	12710.6	12925.2	12989.6	12712.7	12255.5	11693.0	11016.8
7.5°	10585.3	10703.4	11089.8	12148.1	13026.1	13528.5	13461.9	12961.7	12137.4	11134.9	10190.4
10°	9806.1	9937.0	10402.9	11682.3	12813.6	13504.9	13504.9	12895.2	11800.4	10609.0	9520.6
12.5°	9187.9	9325.2	9857.6	11203.6	12371.4	13026.1	13135.6	12611.8	11557.8	10276.2	9080.5
15°	8983.9	9117.0	9690.2	10913.8	11903.4	12302.7	12339.2	12167.5	11439.7	10299.8	9061.2
17.5°	9237.2	9409.0	9988.6	10999.7	11474.1	11497.7	11525.6	11660.8	11452.6	10731.3	9451.9
20°	9969.2	10153.9	10759.2	11276.6	11098.4	10853.7	10868.7	11216.5	11605.0	11444.0	10385.7
22.5°	11025.4	11186.4	11806.8	11763.9	10939.6	10435.1	10329.9	10815.0	11830.4	12332.8	11379.6
25°	12165.3	12354.2	13066.9	12487.3	10984.6	10186.1	10119.5	10578.9	12064.4	13163.5	12528.1
27.5°	13470.5	13655.1	14217.6	13217.2	11220.8	10166.7	10087.3	10557.4	12274.8	13932.0	13625.1
30°	14440.8	14610.4	14992.5	13831.2	11510.6	10295.5	10196.8	10727.0	12455.1	14458.0	14694.1
32.5°	15202.9	15378.9	15587.1	14213.3	11892.7	10529.5	10347.1	11036.2	12691.3	14859.4	15486.3
35°	15997.2	16205.4	16190.4	14552.4	12249.0	10800.0	10621.8	11482.7	13062.6	15209.3	16490.9
37.5°	17004.0	17087.7	16980.4	14857.3	12676.2	11287.3	11188.6	12146.0	13590.7	15632.2	17665.1
40°	18025.8	18193.2	17641.5	15226.5	13195.7	12204.0	12193.2	13127.0	14217.6	16128.1	18802.9
42.5°	18901.6	19043.3	18259.8	15548.5	13824.7	13322.4	13404.0	14443.0	15039.7	16703.4	19717.4
45°	19560.7	19687.3	18830.8	15859.8	14653.3	14614.7	15095.6	15853.3	16076.6	17220.8	20254.1
47.5°	20121.0	20243.3	19227.9	16332.1	15677.3	16158.2	16995.4	17323.8	16963.2	17517.0	20855.1
50°	20593.2	20629.7	19500.6	16894.5	16948.2	18049.4	18860.9	19073.4	17839.0	17942.1	21376.8
52.5°	21084.8	21037.6	19970.7	17602.9	18322.0	19844.0	20434.4	20655.5	18678.4	18465.9	22136.7
55°	22186.1	22231.2	21024.7	18495.9	19710.9	21606.5	22383.6	22171.1	19607.9	19429.7	23102.7
57.5°	23517.0	23478.4	22508.1	19893.4	21125.6	23246.6	23826.2	23484.8	20848.7	20754.2	24081.6
60°	24034.4	24085.9	23748.9	21396.1	22521.0	24682.7	25275.2	24744.9	22336.4	22293.4	24820.1
62.5°	23514.9	23804.7	24032.2	22733.5	23710.2	25738.9	26327.1	25721.7	23888.4	24199.7	25337.4
65°	22480.2	22542.4	23317.4	23866.9	24283.4	25912.7	26219.7	25897.7	25185.0	25936.4	25313.8
67.5°	21136.4	21190.0	22098.1	24238.3	23544.9	23937.8	24152.5	24058.0	24783.6	26531.0	24148.2
70°	19856.9	19814.0	20773.6	23291.6	20496.6	19899.9	20078.0	19781.8	21385.4	25077.7	21861.9
72.5°	17366.8	17521.3	18551.7	20659.8	16229.0	15258.7	15647.3	14880.9	16448.0	21477.7	17744.6
75°	13603.6	13640.1	15359.6	17338.8	12242.6	10712.0	11237.9	10918.1	12598.9	17916.3	12253.3
77.5°	9419.7	9338.1	11186.4	13243.0	8730.6	7841.9	7850.5	7698.0	8797.2	13191.4	8324.9
80°	5982.8	5858.3	7002.5	8181.1	6000.0	6418.6	6208.2	6201.8	5727.4	8138.1	5034.0
82.5°	3232.9	3370.3	4424.3	5128.5	4304.1	4961.0	4546.7	4413.6	3930.6	5094.1	3220.0
85°	1472.6	1601.4	2359.2	3488.4	3269.4	3305.9	2208.9	2606.1	3252.2	4136.7	1719.5
87.5°	143.8	184.6	487.3	1646.5	1116.3	880.1	328.4	633.3	817.9	1470.5	137.4
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°	10458.7	10458.7	10458.7	10458.7	10458.7	10458.7	10458.7	10458.7	10458.7	10458.7	10458.7
2.5°	11115.6	11004.0	10624.0	10310.6	9977.8	9724.5	9393.9	9172.8	9020.4	8790.7	8762.8
5°	10604.7	10332.0	9670.9	8996.8	8415.0	7977.1	7532.8	7124.9	6884.4	6809.3	6712.7
7.5°	9743.8	9284.5	8434.4	7661.6	6993.9	6341.3	5839.0	5482.7	5244.4	5104.8	4937.4
10°	9035.4	8503.1	7468.3	6521.7	5972.1	5566.4	5124.2	4742.0	4448.0	4196.8	4059.4
12.5°	8558.9	7957.8	6794.3	6025.8	5600.7	5169.2	4651.9	4222.5	3788.9	3503.4	3381.0
15°	8415.0	7779.6	6586.1	5778.9	5169.2	4604.7	4025.1	3464.8	3035.4	2764.9	2674.8
17.5°	8767.1	7998.6	6583.9	5450.5	4662.6	3988.6	3245.8	2719.9	2279.8	2078.0	2013.6
20°	9424.0	8419.3	6603.2	5126.3	4113.1	3164.2	2361.4	1929.9	1719.5	1633.6	1601.4
22.5°	10340.6	9061.2	6661.2	4806.4	3512.0	2430.1	1768.9	1549.9	1474.8	1459.8	1453.3
25°	11469.8	9855.5	6856.5	4518.8	3005.4	1854.7	1479.1	1380.3	1337.4	1322.4	1320.2
27.5°	12508.8	10881.6	7092.7	4271.9	2515.9	1599.3	1337.4	1253.7	1210.7	1208.6	1212.9
30°	13446.9	11740.3	7290.2	3995.0	2144.5	1421.1	1245.1	1161.4	1120.6	1118.4	1131.3
32.5°	14258.3	12446.5	7436.1	3722.4	1938.5	1311.6	1161.4	1071.2	1036.9	1030.4	1036.9
35°	15125.6	13150.6	7369.6	3509.8	1820.4	1221.5	1099.1	1011.1	970.3	951.0	951.0
37.5°	16115.2	13876.2	7255.8	3333.8	1766.7	1146.3	1045.4	959.6	918.8	899.5	897.3
40°	17195.0	14601.8	7099.1	3177.1	1713.1	1101.3	1008.9	918.8	869.4	850.1	845.8
42.5°	18148.2	15222.2	6970.3	3074.1	1625.0	1109.8	976.7	888.7	826.5	800.7	798.6
45°	18976.8	15846.9	6946.7	3014.0	1552.1	1097.0	968.2	865.1	792.1	764.2	759.9
47.5°	19625.1	16497.3	7081.9	2979.6	1472.6	1028.3	1024.0	850.1	762.1	732.0	727.7
50°	20415.1	17420.4	7391.1	2908.8	1399.6	963.9	1081.9	847.9	738.5	699.8	689.1
52.5°	21466.9	18622.6	7809.7	2782.1	1294.5	903.8	1032.6	847.9	710.6	671.9	659.0
55°	23057.6	20155.3	8219.7	2603.9	1146.3	824.3	931.7	822.2	669.8	635.4	626.8
57.5°	24111.7	21275.9	8481.6	2357.1	961.7	766.4	802.9	781.4	629.0	592.5	592.5
60°	24165.3	21576.4	8357.1	2045.8	845.8	712.7	697.7	787.8	592.5	553.8	549.6
62.5°	23547.1	20840.1	7708.8	1766.7	783.5	654.7	631.1	691.2	556.0	517.4	510.9
65°	22581.1	18961.8	6583.9	1633.6	749.2	603.2	568.9	566.7	517.4	480.9	472.3
67.5°	20805.8	16570.3	5409.7	1556.4	732.0	545.3	513.1	502.3	472.3	442.2	437.9
70°	18188.9	13878.4	4338.5	1524.2	723.4	485.2	459.4	446.5	420.8	397.1	395.0
72.5°	14151.0	11257.3	3580.7	1502.7	719.1	429.3	401.4	384.3	369.2	347.8	347.8
75°	10164.6	8281.9	2732.7	1354.6	665.5	369.2	339.2	328.4	307.0	289.8	294.1
77.5°	6407.9	5577.1	1798.9	996.1	515.2	296.2	270.5	264.0	246.9	223.3	238.3
80°	4327.7	3922.0	1049.7	626.8	324.2	216.8	208.2	206.1	186.8	161.0	163.1
82.5°	2945.3	2889.5	545.3	356.4	186.8	126.7	122.4	126.7	105.2	85.9	85.9
85°	1150.6	1571.4	257.6	139.5	60.1	19.3	27.9	30.1	17.2	8.6	10.7
87.5°	21.5	161.0	6.4	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°	10458.7	10458.7	10458.7	10458.7	10458.7	10458.7	10458.7	10458.7	10458.7	10458.7	10458.7
2.5°	8719.9	8700.6	8732.8	8595.4	8623.3	8674.8	8700.6	8715.6	8928.1	8878.7	9014.0
5°	6802.9	6783.6	6908.1	6925.2	6989.6	6976.8	7039.0	7054.0	7131.3	7159.2	7348.1
7.5°	4948.1	5031.9	5173.5	5246.5	5356.0	5390.3	5358.1	5437.6	5276.6	5392.5	5426.8
10°	3975.7	3874.8	3814.7	3982.1	4003.6	4162.4	4098.0	4046.5	4141.0	4145.3	4235.4
12.5°	3310.2	3093.4	2949.6	2996.8	3048.3	3117.0	3127.7	3230.8	3299.5	3363.9	3417.5
15°	2595.4	2520.2	2389.3	2324.9	2397.9	2425.8	2492.3	2578.2	2651.2	2670.5	2743.5
17.5°	1992.1	2005.0	1983.5	1944.9	1990.0	2011.5	2015.7	2017.9	2037.2	2024.3	2131.7
20°	1603.6	1648.7	1702.3	1710.9	1725.9	1736.7	1717.4	1644.4	1646.5	1691.6	1725.9
22.5°	1451.2	1459.8	1519.9	1539.2	1586.4	1567.1	1511.3	1476.9	1472.6	1483.4	1500.5
25°	1331.0	1343.8	1386.8	1416.8	1453.3	1419.0	1378.2	1346.0	1341.7	1352.4	1369.6
27.5°	1223.6	1242.9	1281.6	1311.6	1346.0	1313.8	1275.1	1247.2	1245.1	1242.9	1253.7
30°	1137.7	1159.2	1187.1	1221.5	1245.1	1217.2	1180.7	1165.7	1163.5	1159.2	1163.5
32.5°	1051.9	1086.2	1114.1	1131.3	1154.9	1133.5	1105.5	1097.0	1081.9	1069.1	1062.6
35°	955.3	991.8	1034.7	1056.2	1079.8	1058.3	1039.0	1002.5	976.7	974.6	978.9
37.5°	899.5	914.5	948.8	985.3	1008.9	998.2	961.7	925.2	918.8	918.8	923.1
40°	850.1	856.5	871.6	918.8	961.7	929.5	884.4	873.7	873.7	871.6	873.7
42.5°	800.7	807.2	807.2	843.7	912.3	860.8	826.5	826.5	826.5	828.6	835.1
45°	755.6	757.8	755.6	781.4	845.8	802.9	779.3	785.7	790.0	794.3	798.6
47.5°	717.0	719.1	717.0	738.5	770.7	753.5	740.6	749.2	757.8	764.2	768.5
50°	682.6	680.5	684.8	697.7	712.7	717.0	708.4	721.3	725.6	734.2	744.9
52.5°	652.6	650.4	654.7	661.2	682.6	682.6	682.6	693.4	702.0	710.6	725.6
55°	618.2	620.4	626.8	635.4	663.3	659.0	661.2	669.8	678.4	691.2	699.8
57.5°	586.0	590.3	598.9	611.8	639.7	637.6	639.7	644.0	654.7	661.2	669.8
60°	549.6	558.1	568.9	577.5	605.4	603.2	614.0	622.5	629.0	629.0	633.3
62.5°	513.1	525.9	536.7	543.1	573.2	575.3	590.3	596.8	601.1	596.8	603.2
65°	476.6	495.9	500.2	508.8	538.8	541.0	558.1	573.2	568.9	564.6	575.3
67.5°	440.1	463.7	461.5	472.3	502.3	506.6	521.6	547.4	538.8	534.5	543.1
70°	399.3	416.5	418.6	425.0	465.8	459.4	483.0	506.6	500.2	502.3	502.3
72.5°	354.2	369.2	369.2	382.1	425.0	414.3	433.6	459.4	459.4	457.2	457.2
75°	300.5	309.1	317.7	337.0	382.1	369.2	382.1	405.7	410.0	405.7	405.7
77.5°	242.6	255.5	259.8	285.5	317.7	315.6	328.4	339.2	347.8	343.5	343.5
80°	171.7	184.6	201.8	229.7	249.0	255.5	261.9	270.5	274.8	274.8	279.1
82.5°	96.6	115.9	130.9	158.9	167.4	199.6	197.5	203.9	197.5	173.9	193.2
85°	21.5	40.8	58.0	73.0	83.7	115.9	122.4	137.4	113.8	105.2	105.2
87.5°	0.0	0.0	0.0	0.0	0.0	17.2	34.3	47.2	40.8	34.3	34.3
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10458.7	10458.7	10458.7	10458.7	10458.7	10458.7	10458.7	10458.7	10458.7	10458.7
2.5°	9127.7	9314.5	9539.9	9928.5	10201.1	10495.2	10791.4	11107.0	11190.7	11276.6
5°	7399.7	7766.7	7966.4	8488.0	9035.4	9731.0	10299.8	10922.4	11182.1	11242.2
7.5°	5605.0	5854.0	6377.8	6905.9	7584.3	8314.1	9185.7	10156.0	10458.7	10585.3
10°	4443.7	4782.8	5242.2	5809.0	6403.6	7189.3	8172.5	9305.9	9735.3	9806.1
12.5°	3782.5	4160.3	4660.5	5259.4	5821.8	6414.3	7406.1	8576.0	9035.4	9187.9
15°	3024.7	3481.9	4059.4	4690.5	5302.3	5950.6	6955.3	8275.5	8805.7	8983.9
17.5°	2376.4	2745.6	3370.3	4055.1	4780.7	5600.7	6860.8	8419.3	9071.9	9237.2
20°	1818.3	2082.3	2608.2	3331.7	4181.8	5255.1	6884.4	8962.4	9743.8	9969.2
22.5°	1571.4	1706.6	2026.5	2715.6	3666.6	4954.6	6981.0	9707.4	10649.8	11025.4
25°	1423.3	1494.1	1674.4	2125.2	3175.0	4662.6	7202.2	10709.9	11916.3	12165.3
27.5°	1296.6	1348.1	1459.8	1783.9	2728.4	4392.1	7459.8	11821.8	13099.1	13470.5
30°	1176.4	1245.1	1350.3	1584.3	2442.9	4145.3	7783.9	12723.5	14095.2	14440.8
32.5°	1084.1	1152.8	1249.4	1444.7	2200.4	3885.5	7977.1	13515.6	14908.8	15202.9
35°	1008.9	1066.9	1167.8	1333.1	2015.7	3688.0	7938.5	14144.6	15696.6	15997.2
37.5°	955.3	1004.7	1105.5	1227.9	1876.2	3481.9	7919.2	14975.3	16656.2	17004.0
40°	905.9	957.4	1049.7	1159.2	1736.7	3239.4	7929.9	15799.7	17678.0	18025.8
42.5°	867.3	925.2	1000.4	1139.9	1592.8	3044.0	7929.9	16516.7	18566.8	18901.6
45°	835.1	897.3	970.3	1137.7	1479.1	2895.9	7876.2	17132.8	19275.2	19560.7
47.5°	807.2	875.9	981.0	1099.1	1451.2	2788.6	7829.0	17626.5	19852.6	20121.0
50°	787.8	869.4	1043.3	1054.0	1459.8	2756.4	8056.5	18249.0	20361.4	20593.2
52.5°	772.8	871.6	1041.1	987.5	1444.7	2777.8	8531.0	19221.5	21067.7	21084.8
55°	742.8	869.4	987.5	912.3	1382.5	2814.3	9140.6	20634.0	22173.2	22186.1
57.5°	712.7	845.8	916.6	847.9	1255.8	2814.3	9874.8	21971.4	23506.3	23517.0
60°	682.6	880.1	805.0	792.1	1090.5	2762.8	10649.8	22559.6	23924.9	24034.4
62.5°	652.6	886.6	719.1	742.8	970.3	2638.3	11227.2	21909.2	23358.2	23514.9
65°	618.2	714.8	663.3	691.2	908.1	2430.1	11044.7	20717.7	22293.4	22480.2
67.5°	577.5	605.4	603.2	637.6	886.6	2123.1	10083.0	19210.8	21147.1	21136.4
70°	528.1	543.1	549.6	586.0	845.8	1884.8	8402.2	17255.1	19616.5	19856.9
72.5°	476.6	489.4	495.9	528.1	805.0	1749.6	6521.7	14561.0	16991.1	17366.8
75°	420.8	429.3	437.9	465.8	762.1	1549.9	4645.4	11115.6	13013.3	13603.6
77.5°	362.8	362.8	373.5	401.4	641.9	1279.4	3117.0	7796.8	8816.5	9419.7
80°	294.1	296.2	292.0	322.0	472.3	875.9	1771.0	5207.9	5866.9	5982.8
82.5°	225.4	219.0	221.1	236.1	352.1	596.8	944.5	3235.1	3297.3	3232.9
85°	141.7	141.7	137.4	154.6	225.4	311.3	515.2	1981.4	1547.8	1472.6
87.5°	58.0	47.2	53.7	62.3	107.3	126.7	201.8	407.9	156.7	143.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)