

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: P456902

Luminaire Tested: **GALN-SA8B-722-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456902
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-SA8B-722-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2200K, 800mA 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: 29116 lumens
Efficiency: N/A
Efficacy: 89.6 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

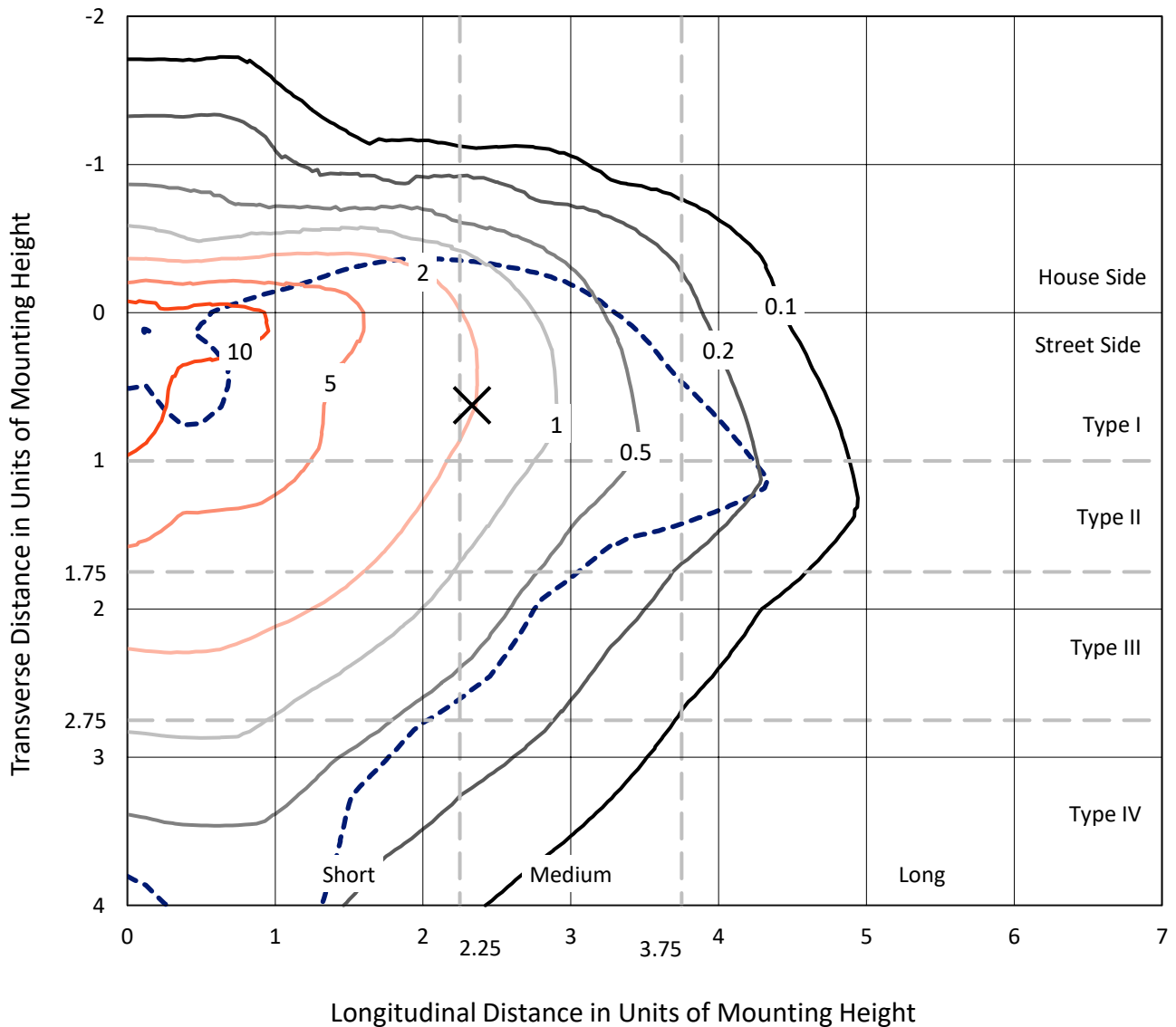
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

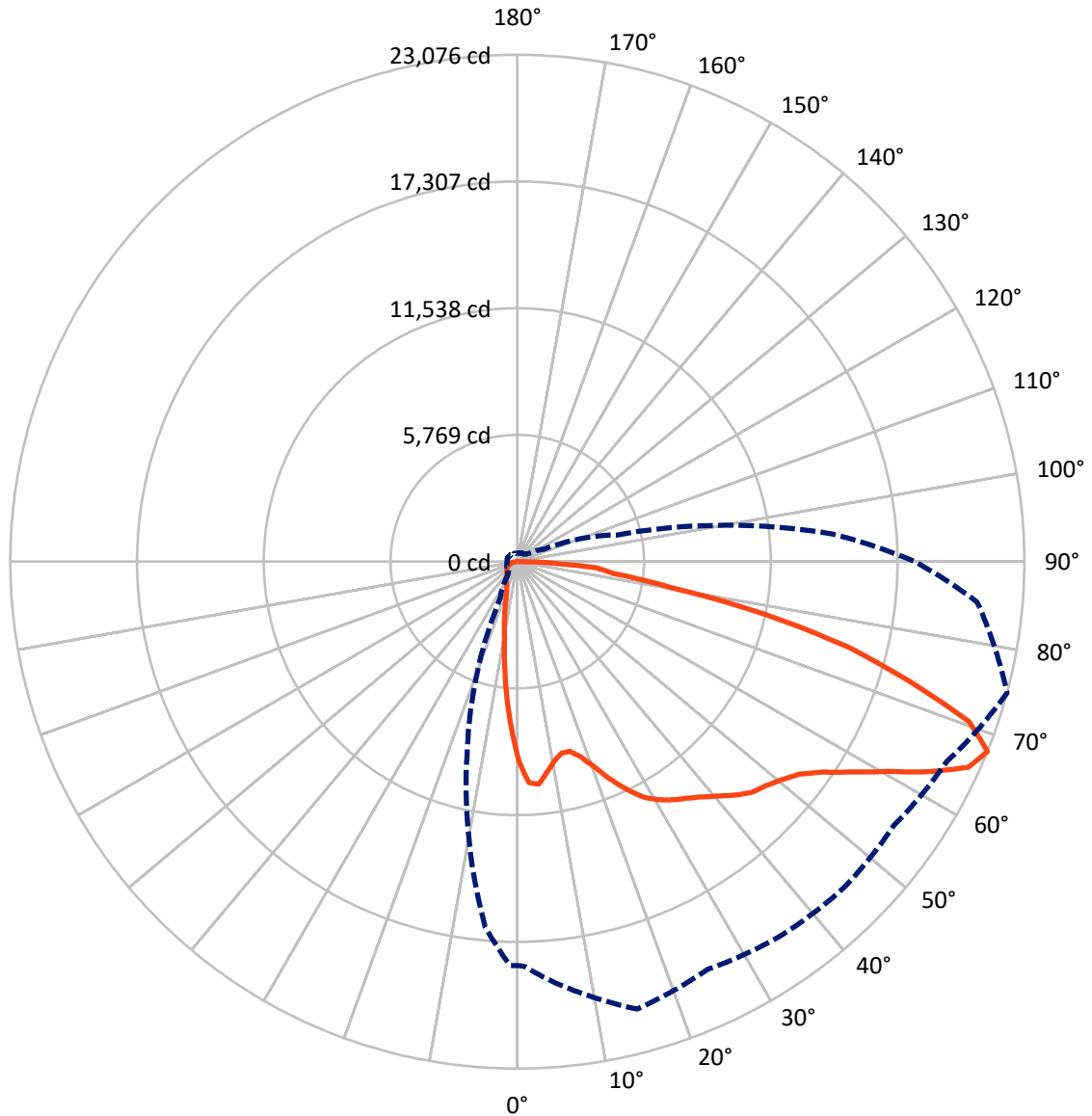
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.9 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	4921.2	0.0	4921.2
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	24194.8	0.0	24194.8
	% Fixture	83.1	0.0	83.1
Total	Lumens	29116.0	0.0	29116.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	689.9	2.4
10°-20°	1438.9	4.9
20°-30°	2070.6	7.1
30°-40°	2982.2	10.2
40°-50°	4189.2	14.4
50°-60°	5842.5	20.1
60°-70°	6946.4	23.9
70°-80°	4091.0	14.1
80°-90°	865.1	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°	29116.0	100.0
0°-180°	29116.0	100.0

Coefficient of Utilization



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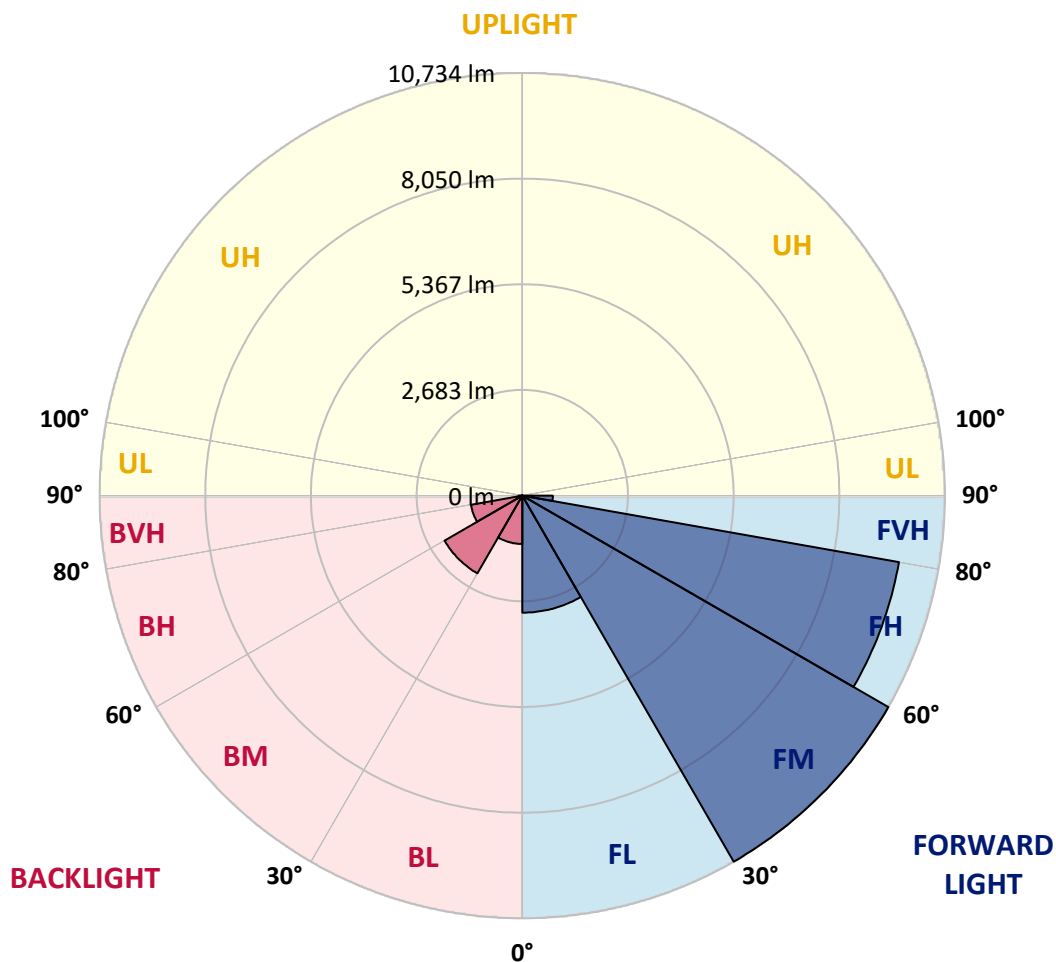
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2971.9	10.2			
FM	(30°-60°)	10734.0	36.9			
FH	(60°-80°)	9713.2	33.4			G4/12000
FVH	(80°-90°)	775.6	2.7			G5
BL	(0°-30°)	1227.5	4.2	B3/2500		
BM	(30°-60°)	2280.0	7.8	B2/2500		
BH	(60°-80°)	1324.2	4.5	B3/2500		G3/2500
BVH	(80°-90°)	89.5	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-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9096.5	9096.5	9096.5	9096.5	9096.5	9096.5	9096.5	9096.5	9096.5	9096.5	9096.5
2.5°	9807.9	9821.0	9905.0	10149.6	10317.6	10379.2	10422.2	10341.9	10263.5	10073.0	9785.5
5°	9778.0	9854.6	10073.0	10622.0	11055.1	11241.8	11297.8	11057.0	10659.3	10170.1	9582.0
7.5°	9206.7	9309.4	9645.5	10565.9	11329.6	11766.5	11708.6	11273.6	10556.6	9684.7	8863.1
10°	8528.9	8642.8	9048.0	10160.8	11144.7	11745.9	11745.9	11215.7	10263.5	9227.2	8280.6
12.5°	7991.2	8110.7	8573.7	9744.4	10760.1	11329.6	11424.8	10969.2	10052.5	8937.8	7897.8
15°	7813.8	7929.6	8428.1	9492.4	10353.1	10700.4	10732.1	10582.7	9949.8	8958.4	7881.0
17.5°	8034.1	8183.5	8687.6	9567.0	9979.7	10000.2	10024.5	10142.1	9961.0	9333.6	8220.9
20°	8670.8	8831.4	9357.9	9807.9	9652.9	9440.1	9453.1	9755.6	10093.6	9953.5	9033.0
22.5°	9589.4	9729.5	10269.1	10231.7	9514.8	9076.0	8984.5	9406.5	10289.6	10726.5	9897.5
25°	10580.9	10745.2	11365.1	10860.9	9554.0	8859.4	8801.5	9201.1	10493.1	11449.1	10896.4
27.5°	11716.1	11876.6	12365.8	11495.8	9759.3	8842.6	8773.5	9182.4	10676.1	12117.5	11850.5
30°	12560.0	12707.5	13039.8	12029.7	10011.4	8954.6	8868.7	9329.9	10832.9	12574.9	12780.3
32.5°	13222.8	13375.9	13557.0	12362.1	10343.8	9158.1	8999.4	9598.8	11038.3	12924.1	13469.3
35°	13913.7	14094.8	14081.7	12657.1	10653.7	9393.4	9238.4	9987.1	11361.3	13228.4	14343.1
37.5°	14789.3	14862.1	14768.8	12922.2	11025.2	9817.2	9731.3	10564.1	11820.6	13596.2	15364.4
40°	15678.1	15823.7	15343.9	13243.4	11477.1	10614.5	10605.1	11417.3	12365.8	14027.5	16354.0
42.5°	16439.8	16563.1	15881.6	13523.4	12024.1	11587.2	11658.2	12561.9	13080.9	14527.9	17149.3
45°	17013.0	17123.2	16378.2	13794.2	12744.8	12711.2	13129.5	13788.6	13982.7	14977.9	17616.1
47.5°	17500.4	17606.8	16723.6	14204.9	13635.5	14053.7	14781.9	15067.5	14753.9	15235.6	18138.9
50°	17911.1	17942.9	16960.8	14694.1	14740.8	15698.6	16404.4	16589.2	15515.6	15605.2	18592.6
52.5°	18338.7	18297.6	17369.7	15310.2	15935.7	17259.5	17773.0	17965.3	16245.7	16060.8	19253.6
55°	19296.5	19335.7	18286.4	16087.0	17143.7	18792.4	19468.3	19283.4	17054.1	16899.2	20093.8
57.5°	20454.1	20420.5	19576.6	17302.4	18374.2	20218.9	20723.0	20426.1	18133.3	18051.2	20945.2
60°	20904.1	20948.9	20655.8	18609.4	19587.8	21468.0	21983.3	21522.1	19427.2	19389.9	21587.4
62.5°	20452.2	20704.3	20902.2	19772.6	20622.2	22386.6	22898.2	22371.6	20777.1	21047.9	22037.4
65°	19552.3	19606.5	20280.5	20758.5	21120.7	22537.8	22804.8	22524.7	21904.9	22558.3	22016.9
67.5°	18383.5	18430.2	19220.0	21081.5	20478.4	20820.1	21006.8	20924.6	21555.7	23075.5	21003.0
70°	17270.7	17233.4	18068.0	20258.1	17827.1	17308.0	17463.0	17205.4	18600.1	21811.5	19014.6
72.5°	15104.9	15239.3	16135.5	17969.0	14115.3	13271.4	13609.3	12942.8	14305.7	18680.4	15433.5
75°	11831.8	11863.6	13359.1	15080.6	10648.1	9316.8	9774.3	9496.1	10958.0	15582.8	10657.4
77.5°	8192.8	8121.9	9729.5	11518.2	7593.5	6820.5	6828.0	6695.4	7651.4	11473.3	7240.6
80°	5203.6	5095.3	6090.5	7115.5	5218.6	5582.6	5399.7	5394.1	4981.4	7078.2	4378.4
82.5°	2811.9	2931.4	3848.1	4460.5	3743.5	4314.9	3954.5	3838.8	3418.7	4430.6	2800.7
85°	1280.8	1392.9	2051.9	3034.0	2843.6	2875.3	1921.2	2266.7	2828.7	3597.9	1495.5
87.5°	125.1	160.6	423.8	1432.1	970.9	765.5	285.7	550.8	711.4	1279.0	119.5
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9096.5	9096.5	9096.5	9096.5	9096.5	9096.5	9096.5	9096.5	9096.5	9096.5	9096.5
2.5°	9667.9	9570.8	9240.3	8967.7	8678.3	8458.0	8170.4	7978.1	7845.6	7645.8	7621.5
5°	9223.5	8986.4	8411.3	7825.0	7319.0	6938.2	6551.7	6196.9	5987.8	5922.5	5838.4
7.5°	8474.8	8075.2	7335.8	6663.7	6083.0	5515.4	5078.5	4768.6	4561.3	4440.0	4294.3
10°	7858.6	7395.6	6495.7	5672.3	5194.3	4841.4	4456.8	4124.4	3868.6	3650.2	3530.7
12.5°	7444.1	6921.4	5909.4	5241.0	4871.3	4496.0	4046.0	3672.6	3295.4	3047.1	2940.7
15°	7319.0	6766.4	5728.3	5026.2	4496.0	4004.9	3500.8	3013.5	2640.1	2404.8	2326.4
17.5°	7625.2	6956.8	5726.4	4740.6	4055.3	3469.1	2823.1	2365.6	1982.9	1807.4	1751.3
20°	8196.6	7322.8	5743.2	4458.6	3577.4	2752.1	2053.8	1678.5	1495.5	1420.9	1392.9
22.5°	8993.8	7881.0	5793.6	4180.4	3054.6	2113.6	1538.5	1348.0	1282.7	1269.6	1264.0
25°	9975.9	8571.9	5963.5	3930.3	2613.9	1613.2	1286.4	1200.5	1163.2	1150.1	1148.3
27.5°	10879.6	9464.3	6168.9	3715.5	2188.2	1391.0	1163.2	1090.4	1053.0	1051.2	1054.9
30°	11695.5	10211.2	6340.7	3474.7	1865.2	1236.0	1082.9	1010.1	974.6	972.8	984.0
32.5°	12401.3	10825.5	6467.6	3237.6	1686.0	1140.8	1010.1	931.7	901.8	896.2	901.8
35°	13155.6	11437.9	6409.8	3052.7	1583.3	1062.4	956.0	879.4	843.9	827.1	827.1
37.5°	14016.3	12069.0	6310.8	2899.6	1536.6	997.0	909.3	834.6	799.1	782.3	780.4
40°	14955.5	12700.0	6174.5	2763.3	1489.9	957.8	877.5	799.1	756.2	739.4	735.6
42.5°	15784.5	13239.6	6062.5	2673.7	1413.4	965.3	849.5	773.0	718.8	696.4	694.6
45°	16505.2	13783.0	6041.9	2621.4	1349.9	954.1	842.1	752.4	689.0	664.7	661.0
47.5°	17069.1	14348.7	6159.6	2591.5	1280.8	894.3	890.6	739.4	662.8	636.7	632.9
50°	17756.2	15151.5	6428.4	2529.9	1217.4	838.3	941.0	737.5	642.3	608.7	599.3
52.5°	18671.0	16197.1	6792.5	2419.8	1125.9	786.1	898.1	737.5	618.0	584.4	573.2
55°	20054.6	17530.2	7149.1	2264.8	997.0	717.0	810.3	715.1	582.5	552.7	545.2
57.5°	20971.3	18504.9	7376.9	2050.1	836.5	666.6	698.3	679.6	547.1	515.3	515.3
60°	21018.0	18766.3	7268.6	1779.3	735.6	619.9	606.8	685.2	515.3	481.7	478.0
62.5°	20480.3	18125.8	6704.8	1536.6	681.5	569.5	548.9	601.2	483.6	450.0	444.4
65°	19640.1	16492.1	5726.4	1420.9	651.6	524.7	494.8	492.9	450.0	418.2	410.8
67.5°	18096.0	14412.2	4705.1	1353.6	636.7	474.2	446.2	436.9	410.8	384.6	380.9
70°	15820.0	12070.8	3773.4	1325.6	629.2	422.0	399.6	388.4	366.0	345.4	343.5
72.5°	12307.9	9791.1	3114.3	1307.0	625.5	373.4	349.1	334.2	321.1	302.5	302.5
75°	8840.7	7203.3	2376.8	1178.1	578.8	321.1	295.0	285.7	267.0	252.1	255.8
77.5°	5573.3	4850.7	1564.6	866.3	448.1	257.7	235.3	229.7	214.7	194.2	207.2
80°	3764.1	3411.2	913.0	545.2	281.9	188.6	181.1	179.2	162.4	140.0	141.9
82.5°	2561.7	2513.1	474.2	309.9	162.4	110.2	106.4	110.2	91.5	74.7	74.7
85°	1000.8	1366.7	224.1	121.4	52.3	16.8	24.3	26.1	14.9	7.5	9.3
87.5°	18.7	140.0	5.6	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°	9096.5	9096.5	9096.5	9096.5	9096.5	9096.5	9096.5	9096.5	9096.5	9096.5	9096.5
2.5°	7584.2	7567.4	7595.4	7475.9	7500.2	7545.0	7567.4	7580.4	7765.3	7722.3	7840.0
5°	5916.9	5900.0	6008.3	6023.3	6079.3	6068.1	6122.2	6135.3	6202.5	6226.8	6391.1
7.5°	4303.7	4376.5	4499.7	4563.2	4658.4	4688.3	4660.3	4729.4	4589.3	4690.2	4720.0
10°	3457.9	3370.1	3317.8	3463.5	3482.1	3620.3	3564.3	3519.5	3601.6	3605.4	3683.8
12.5°	2879.1	2690.5	2565.4	2606.5	2651.3	2711.0	2720.4	2810.0	2869.7	2925.8	2972.4
15°	2257.3	2192.0	2078.1	2022.1	2085.6	2109.8	2167.7	2242.4	2305.9	2322.7	2386.2
17.5°	1732.7	1743.9	1725.2	1691.6	1730.8	1749.5	1753.2	1755.1	1771.9	1760.7	1854.0
20°	1394.7	1433.9	1480.6	1488.1	1501.2	1510.5	1493.7	1430.2	1432.1	1471.3	1501.2
22.5°	1262.2	1269.6	1321.9	1338.7	1379.8	1363.0	1314.4	1284.6	1280.8	1290.2	1305.1
25°	1157.6	1168.8	1206.1	1232.3	1264.0	1234.2	1198.7	1170.7	1166.9	1176.3	1191.2
27.5°	1064.2	1081.1	1114.7	1140.8	1170.7	1142.7	1109.1	1084.8	1082.9	1081.1	1090.4
30°	989.6	1008.2	1032.5	1062.4	1082.9	1058.6	1026.9	1013.8	1012.0	1008.2	1012.0
32.5°	914.9	944.8	969.0	984.0	1004.5	985.8	961.6	954.1	941.0	929.8	924.2
35°	830.9	862.6	899.9	918.6	939.2	920.5	903.7	871.9	849.5	847.7	851.4
37.5°	782.3	795.4	825.3	857.0	877.5	868.2	836.5	804.7	799.1	799.1	802.9
40°	739.4	745.0	758.0	799.1	836.5	808.5	769.2	759.9	759.9	758.0	759.9
42.5°	696.4	702.0	702.0	733.8	793.5	748.7	718.8	718.8	718.8	720.7	726.3
45°	657.2	659.1	657.2	679.6	735.6	698.3	677.8	683.4	687.1	690.8	694.6
47.5°	623.6	625.5	623.6	642.3	670.3	655.4	644.2	651.6	659.1	664.7	668.4
50°	593.7	591.9	595.6	606.8	619.9	623.6	616.1	627.3	631.1	638.5	647.9
52.5°	567.6	565.7	569.5	575.1	593.7	593.7	593.7	603.1	610.5	618.0	631.1
55°	537.7	539.6	545.2	552.7	576.9	573.2	575.1	582.5	590.0	601.2	608.7
57.5°	509.7	513.5	520.9	532.1	556.4	554.5	556.4	560.1	569.5	575.1	582.5
60°	478.0	485.4	494.8	502.3	526.5	524.7	534.0	541.5	547.1	547.1	550.8
62.5°	446.2	457.4	466.8	472.4	498.5	500.4	513.5	519.1	522.8	519.1	524.7
65°	414.5	431.3	435.0	442.5	468.6	470.5	485.4	498.5	494.8	491.0	500.4
67.5°	382.8	403.3	401.4	410.8	436.9	440.6	453.7	476.1	468.6	464.9	472.4
70°	347.3	362.2	364.1	369.7	405.2	399.6	420.1	440.6	435.0	436.9	436.9
72.5°	308.1	321.1	321.1	332.3	369.7	360.4	377.2	399.6	399.6	397.7	397.7
75°	261.4	268.9	276.3	293.1	332.3	321.1	332.3	352.9	356.6	352.9	352.9
77.5°	211.0	222.2	225.9	248.3	276.3	274.5	285.7	295.0	302.5	298.7	298.7
80°	149.4	160.6	175.5	199.8	216.6	222.2	227.8	235.3	239.0	239.0	242.7
82.5°	84.0	100.8	113.9	138.2	145.6	173.6	171.8	177.4	171.8	151.2	168.0
85°	18.7	35.5	50.4	63.5	72.8	100.8	106.4	119.5	99.0	91.5	91.5
87.5°	0.0	0.0	0.0	0.0	0.0	14.9	29.9	41.1	35.5	29.9	29.9
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9096.5	9096.5	9096.5	9096.5	9096.5	9096.5	9096.5	9096.5	9096.5	9096.5
2.5°	7938.9	8101.4	8297.4	8635.4	8872.5	9128.3	9385.9	9660.4	9733.2	9807.9
5°	6435.9	6755.2	6928.8	7382.5	7858.6	8463.6	8958.4	9499.8	9725.7	9778.0
7.5°	4875.0	5091.6	5547.2	6006.5	6596.5	7231.3	7989.3	8833.3	9096.5	9206.7
10°	3864.9	4159.9	4559.5	5052.4	5569.6	6252.9	7108.1	8093.9	8467.3	8528.9
12.5°	3289.8	3618.4	4053.5	4574.4	5063.6	5578.9	6441.5	7459.1	7858.6	7991.2
15°	2630.7	3028.4	3530.7	4079.6	4611.7	5175.6	6049.4	7197.7	7658.9	7813.8
17.5°	2066.9	2388.0	2931.4	3527.0	4158.0	4871.3	5967.3	7322.8	7890.4	8034.1
20°	1581.4	1811.1	2268.5	2897.7	3637.1	4570.7	5987.8	7795.2	8474.8	8670.8
22.5°	1366.7	1484.3	1762.5	2361.9	3189.0	4309.3	6071.8	8443.0	9262.7	9589.4
25°	1237.9	1299.5	1456.3	1848.4	2761.4	4055.3	6264.1	9315.0	10364.3	10580.9
27.5°	1127.7	1172.5	1269.6	1551.6	2373.1	3820.1	6488.2	10282.1	11393.1	11716.1
30°	1023.2	1082.9	1174.4	1377.9	2124.8	3605.4	6770.1	11066.3	12259.4	12560.0
32.5°	942.9	1002.6	1086.7	1256.6	1913.8	3379.5	6938.2	11755.3	12967.0	13222.8
35°	877.5	928.0	1015.7	1159.5	1753.2	3207.7	6904.5	12302.3	13652.3	13913.7
37.5°	830.9	873.8	961.6	1068.0	1631.8	3028.4	6887.7	13024.9	14486.9	14789.3
40°	787.9	832.7	913.0	1008.2	1510.5	2817.5	6897.1	13741.9	15375.6	15678.1
42.5°	754.3	804.7	870.1	991.4	1385.4	2647.6	6897.1	14365.5	16148.6	16439.8
45°	726.3	780.4	843.9	989.6	1286.4	2518.7	6850.4	14901.4	16764.7	17013.0
47.5°	702.0	761.8	853.3	956.0	1262.2	2425.4	6809.3	15330.8	17267.0	17500.4
50°	685.2	756.2	907.4	916.7	1269.6	2397.4	7007.2	15872.2	17709.5	17911.1
52.5°	672.2	758.0	905.5	858.9	1256.6	2416.0	7419.9	16718.0	18323.8	18338.7
55°	646.0	756.2	858.9	793.5	1202.4	2447.8	7950.1	17946.6	19285.3	19296.5
57.5°	619.9	735.6	797.3	737.5	1092.3	2447.8	8588.7	19109.8	20444.8	20454.1
60°	593.7	765.5	700.2	689.0	948.5	2403.0	9262.7	19621.4	20808.9	20904.1
62.5°	567.6	771.1	625.5	646.0	843.9	2294.7	9765.0	19055.7	20316.0	20452.2
65°	537.7	621.7	576.9	601.2	789.8	2113.6	9606.2	18019.4	19389.9	19552.3
67.5°	502.3	526.5	524.7	554.5	771.1	1846.6	8769.8	16708.7	18392.8	18383.5
70°	459.3	472.4	478.0	509.7	735.6	1639.3	7307.8	15007.8	17061.6	17270.7
72.5°	414.5	425.7	431.3	459.3	700.2	1521.7	5672.3	12664.6	14778.1	15104.9
75°	366.0	373.4	380.9	405.2	662.8	1348.0	4040.4	9667.9	11318.4	11831.8
77.5°	315.5	315.5	324.9	349.1	558.3	1112.8	2711.0	6781.3	7668.2	8192.8
80°	255.8	257.7	253.9	280.1	410.8	761.8	1540.4	4529.6	5102.8	5203.6
82.5°	196.0	190.4	192.3	205.4	306.2	519.1	821.5	2813.7	2867.9	2811.9
85°	123.2	123.2	119.5	134.4	196.0	270.7	448.1	1723.3	1346.2	1280.8
87.5°	50.4	41.1	46.7	54.1	93.4	110.2	175.5	354.7	136.3	125.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)