

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: P456293

Luminaire Tested: **GALN-SA7C-740-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456293
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-SA7C-740-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 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: 42210 lumens
Efficiency: N/A
Efficacy: 112.0 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

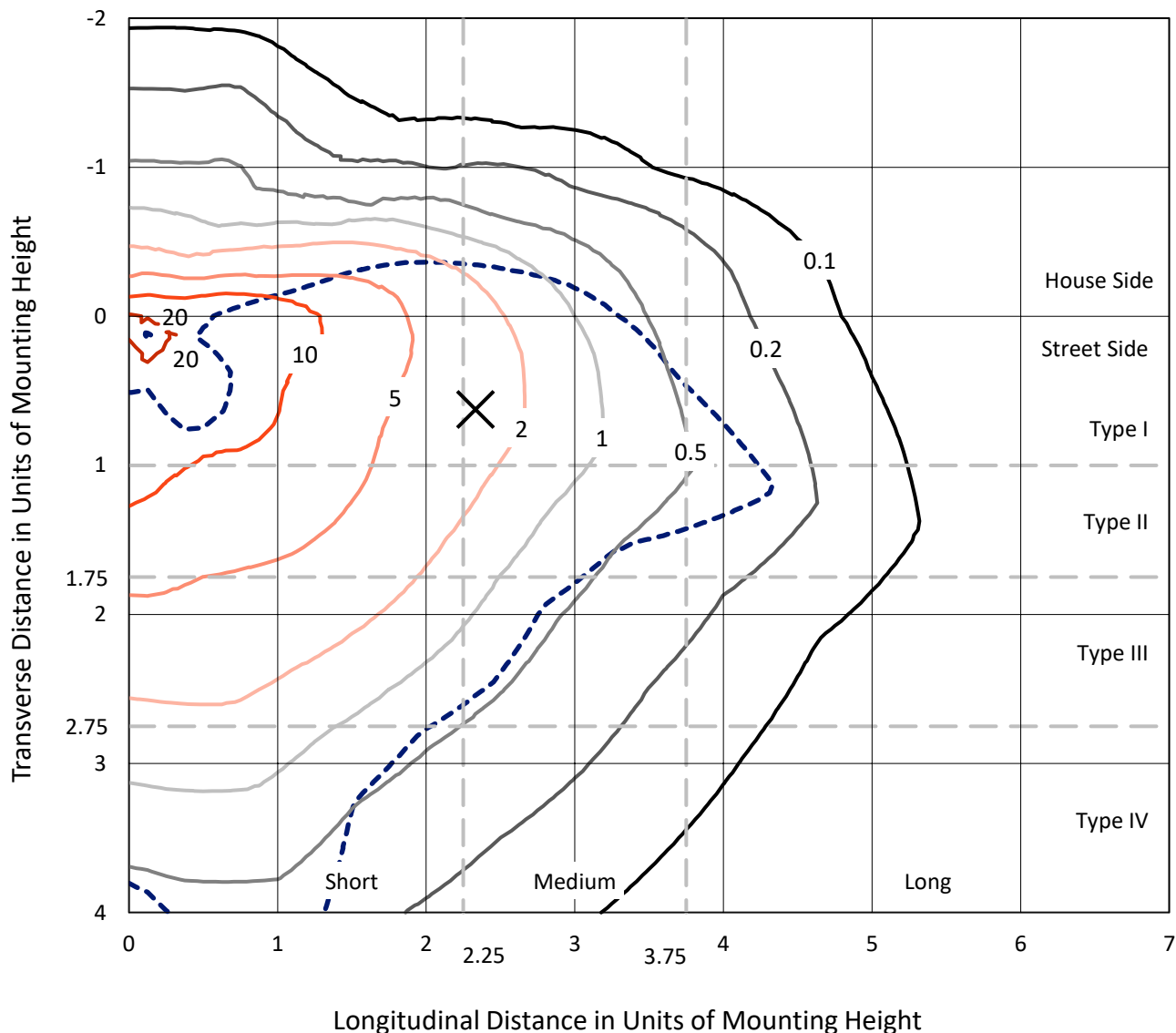
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

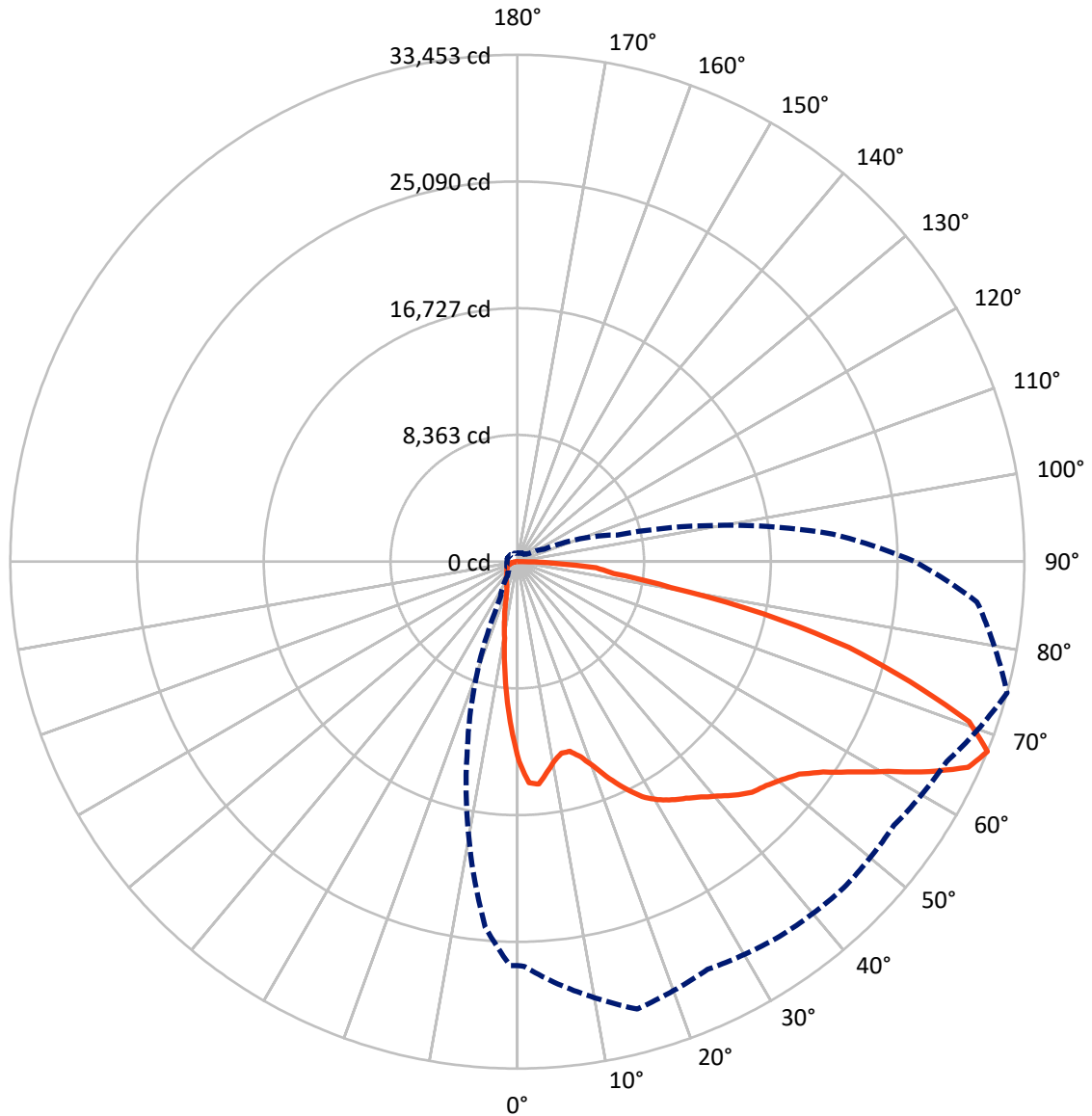
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26 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	7134.4	0.0	7134.4
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	35075.6	0.0	35075.6
	% Fixture	83.1	0.0	83.1
Total	Lumens	42210.0	0.0	42210.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1000.2	2.4
10°-20°	2086.0	4.9
20°-30°	3001.8	7.1
30°-40°	4323.4	10.2
40°-50°	6073.2	14.4
50°-60°	8470.0	20.1
60°-70°	10070.3	23.9
70°-80°	5930.9	14.1
80°-90°	1254.1	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°	42210.0	100.0
0°-180°	42210.0	100.0

Coefficient of Utilization



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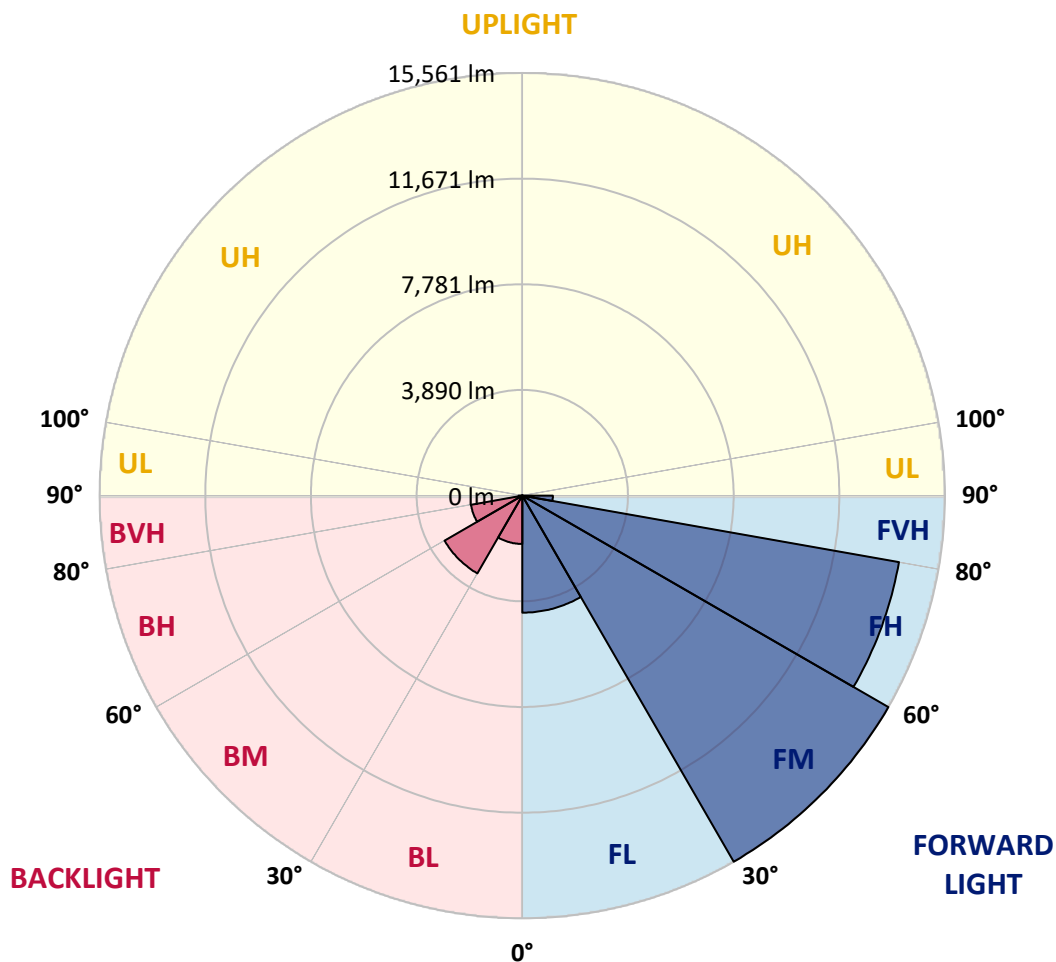
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4308.5	10.2			
FM	(30°-60°)	15561.3	36.9			
FH	(60°-80°)	14081.4	33.4			G5
FVH	(80°-90°)	1124.4	2.7			G5
BL	(0°-30°)	1779.5	4.2	B3/2500		
BM	(30°-60°)	3305.4	7.8	B3/5000		
BH	(60°-80°)	1919.7	4.5	B3/2500		G3/2500
BVH	(80°-90°)	129.7	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°	13187.4	13187.4	13187.4	13187.4	13187.4	13187.4	13187.4	13187.4	13187.4	13187.4	13187.4
2.5°	14218.7	14237.6	14359.4	14714.0	14957.6	15047.0	15109.2	14992.8	14879.1	14603.0	14186.2
5°	14175.4	14286.4	14603.0	15398.8	16026.8	16297.5	16378.7	16029.5	15453.0	14743.8	13891.2
7.5°	13347.1	13496.0	13983.2	15317.6	16424.7	17058.1	16974.2	16343.5	15304.1	14040.0	12849.1
10°	12364.5	12529.7	13117.0	14730.3	16156.7	17028.3	17028.3	16259.6	14879.1	13376.9	12004.5
12.5°	11585.0	11758.2	12429.5	14126.7	15599.1	16424.7	16562.8	15902.3	14573.3	12957.3	11449.7
15°	11327.8	11495.7	12218.4	13761.2	15009.1	15512.5	15558.5	15342.0	14424.4	12987.1	11425.3
17.5°	11647.2	11863.8	12594.6	13869.5	14467.7	14497.5	14532.7	14703.2	14440.6	13531.2	11917.9
20°	12570.3	12803.0	13566.4	14218.7	13994.0	13685.4	13704.4	14142.9	14632.8	14429.8	13095.4
22.5°	13902.0	14105.0	14887.3	14833.1	13793.7	13157.6	13025.0	13636.7	14917.0	15550.4	14348.6
25°	15339.3	15577.5	16476.1	15745.3	13850.6	12843.6	12759.7	13339.0	15212.1	16597.9	15796.7
27.5°	16985.0	17217.8	17927.0	16665.6	14148.3	12819.3	12719.1	13311.9	15477.3	17567.0	17179.9
30°	18208.5	18422.3	18904.1	17439.7	14513.7	12981.7	12857.2	13525.7	15704.7	18230.1	18527.9
32.5°	19169.4	19391.3	19653.9	17921.6	14995.5	13276.7	13046.7	13915.5	16002.4	18736.3	19526.7
35°	20170.9	20433.4	20414.5	18349.2	15444.9	13617.8	13393.1	14478.5	16470.7	19177.5	20793.4
37.5°	21440.4	21545.9	21410.6	18733.6	15983.5	14232.2	14107.7	15314.9	17136.6	19710.7	22274.0
40°	22728.8	22939.9	22244.3	19199.1	16638.5	15388.0	15374.5	16551.9	17927.0	20336.0	23708.6
42.5°	23833.1	24011.8	23023.8	19605.2	17431.6	16798.2	16901.1	18211.2	18963.7	21061.4	24861.7
45°	24664.1	24823.8	23743.8	19997.6	18476.4	18427.7	19034.0	19989.5	20271.0	21713.7	25538.4
47.5°	25370.6	25524.9	24244.6	20593.1	19767.6	20373.9	21429.5	21843.7	21388.9	22087.3	26296.3
50°	25966.1	26012.1	24588.3	21302.3	21370.0	22758.6	23781.7	24049.7	22493.3	22623.2	26954.1
52.5°	26585.9	26526.4	25181.1	22195.5	23102.3	25021.4	25765.8	26044.6	23551.6	23283.7	27912.3
55°	27974.5	28031.4	26510.1	23321.6	24853.6	27243.7	28223.5	27955.6	24723.7	24499.0	29130.3
57.5°	29652.7	29604.0	28380.5	25083.7	26637.4	29311.7	30042.5	29612.1	26288.2	26169.1	30364.6
60°	30305.0	30370.0	29945.0	26978.4	28396.8	31122.5	31869.6	31201.0	28164.0	28109.8	31295.7
62.5°	29650.0	30015.4	30302.3	28664.7	29896.3	32454.2	33195.9	32432.6	30121.0	30513.5	31948.1
65°	28345.3	28423.8	29401.0	30093.9	30619.0	32673.5	33060.5	32654.5	31755.9	32703.2	31918.3
67.5°	26650.9	26718.6	27863.5	30562.2	29687.9	30183.2	30453.9	30334.8	31249.7	33453.0	30448.5
70°	25037.7	24983.5	26193.5	29368.5	25844.3	25091.8	25316.5	24942.9	26964.9	31620.5	27565.8
72.5°	21897.8	22092.7	23391.9	26050.0	20463.2	19239.7	19729.7	18763.4	20739.3	27081.3	22374.2
75°	17152.8	17198.8	19367.0	21862.6	15436.7	13506.8	14170.0	13766.7	15886.1	22590.7	15450.3
77.5°	11877.3	11774.5	14105.0	16698.1	11008.4	9887.8	9898.7	9706.5	11092.4	16633.1	10496.9
80°	7543.8	7386.8	8829.5	10315.5	7565.4	8093.3	7828.0	7819.9	7221.7	10261.4	6347.4
82.5°	4076.4	4249.6	5578.7	6466.5	5427.1	6255.4	5732.9	5565.1	4956.1	6423.2	4060.2
85°	1856.8	2019.3	2974.7	4398.5	4122.4	4168.4	2785.3	3286.0	4100.8	5216.0	2168.1
87.5°	181.4	232.8	614.4	2076.1	1407.5	1109.8	414.1	798.5	1031.3	1854.1	173.2
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°	13187.4	13187.4	13187.4	13187.4	13187.4	13187.4	13187.4	13187.4	13187.4	13187.4	13187.4
2.5°	14015.7	13874.9	13395.8	13000.6	12581.1	12261.7	11844.8	11566.0	11373.9	11084.2	11049.1
5°	13371.5	13027.7	12194.0	11344.1	10610.6	10058.4	9498.1	8983.8	8680.6	8585.9	8464.1
7.5°	12286.0	11706.8	10634.9	9660.5	8818.7	7995.8	7362.4	6913.1	6612.6	6436.7	6225.6
10°	11392.8	10721.5	9416.9	8223.2	7530.2	7018.7	6461.1	5979.3	5608.4	5291.7	5118.5
12.5°	10791.9	10034.0	8566.9	7597.9	7062.0	6517.9	5865.6	5324.2	4777.5	4417.5	4263.2
15°	10610.6	9809.3	8304.4	7286.6	6517.9	5806.0	5075.2	4368.7	3827.4	3486.3	3372.6
17.5°	11054.5	10085.4	8301.7	6872.5	5879.1	5029.2	4092.6	3429.5	2874.6	2620.2	2539.0
20°	11882.7	10616.0	8326.0	6463.8	5186.2	3989.8	2977.5	2433.4	2168.1	2059.9	2019.3
22.5°	13038.5	11425.3	8399.1	6060.5	4428.3	3064.1	2230.4	1954.3	1859.6	1840.6	1832.5
25°	14462.3	12426.8	8645.4	5697.8	3789.5	2338.7	1865.0	1740.5	1686.3	1667.4	1664.7
27.5°	15772.4	13720.6	8943.2	5386.5	3172.3	2016.5	1686.3	1580.8	1526.6	1523.9	1529.3
30°	16955.2	14803.3	9192.2	5037.3	2704.1	1791.9	1569.9	1464.4	1412.9	1410.2	1426.5
32.5°	17978.4	15693.9	9376.3	4693.5	2444.2	1653.8	1464.4	1350.7	1307.4	1299.3	1307.4
35°	19071.9	16581.7	9292.4	4425.6	2295.3	1540.2	1385.9	1274.9	1223.5	1199.1	1199.1
37.5°	20319.8	17496.6	9148.9	4203.6	2227.7	1445.4	1318.2	1209.9	1158.5	1134.1	1131.4
40°	21681.3	18411.5	8951.3	4006.0	2160.0	1388.6	1272.2	1158.5	1096.2	1071.9	1066.5
42.5°	22883.1	19193.7	8788.9	3876.1	2049.0	1399.4	1231.6	1120.6	1042.1	1009.6	1006.9
45°	23927.9	19981.4	8759.1	3800.3	1957.0	1383.2	1220.8	1090.8	998.8	963.6	958.2
47.5°	24745.3	20801.6	8929.6	3757.0	1856.8	1296.5	1291.1	1071.9	960.9	923.0	917.6
50°	25741.4	21965.5	9319.4	3667.7	1764.8	1215.3	1364.2	1069.2	931.1	882.4	868.9
52.5°	27067.7	23481.3	9847.2	3508.0	1632.2	1139.6	1302.0	1069.2	895.9	847.2	831.0
55°	29073.5	25413.9	10364.2	3283.3	1445.4	1039.4	1174.7	1036.7	844.5	801.2	790.4
57.5°	30402.5	26826.8	10694.5	2972.0	1212.6	966.3	1012.3	985.3	793.1	747.1	747.1
60°	30470.2	27205.8	10537.5	2579.6	1066.5	898.6	879.7	993.4	747.1	698.3	692.9
62.5°	29690.6	26277.4	9720.0	2227.7	988.0	825.6	795.8	871.6	701.1	652.3	644.2
65°	28472.6	23908.9	8301.7	2059.9	944.7	760.6	717.3	714.6	652.3	606.3	595.5
67.5°	26234.1	20893.6	6821.1	1962.4	923.0	687.5	646.9	633.4	595.5	557.6	552.2
70°	22934.5	17499.3	5470.4	1921.8	912.2	611.7	579.2	563.0	530.5	500.8	498.0
72.5°	17843.1	14194.3	4514.9	1894.7	906.8	541.4	506.2	484.5	465.6	438.5	438.5
75°	12816.6	10442.7	3445.7	1708.0	839.1	465.6	427.7	414.1	387.1	365.4	370.8
77.5°	8079.7	7032.2	2268.3	1255.9	649.6	373.5	341.1	332.9	311.3	281.5	300.5
80°	5456.9	4945.3	1323.6	790.4	408.7	273.4	262.6	259.9	235.5	203.0	205.7
82.5°	3713.7	3643.3	687.5	449.3	235.5	159.7	154.3	159.7	132.6	108.3	108.3
85°	1450.8	1981.4	324.8	175.9	75.8	24.4	35.2	37.9	21.7	10.8	13.5
87.5°	27.1	203.0	8.1	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°	13187.4	13187.4	13187.4	13187.4	13187.4	13187.4	13187.4	13187.4	13187.4	13187.4	13187.4
2.5°	10994.9	10970.6	11011.2	10837.9	10873.1	10938.1	10970.6	10989.5	11257.5	11195.2	11365.7
5°	8577.8	8553.4	8710.4	8732.1	8813.3	8797.0	8875.5	8894.5	8991.9	9027.1	9265.3
7.5°	6239.1	6344.7	6523.3	6615.4	6753.4	6796.7	6756.1	6856.3	6653.3	6799.4	6842.7
10°	5012.9	4885.7	4809.9	5021.1	5048.1	5248.4	5167.2	5102.3	5221.4	5226.8	5340.5
12.5°	4173.8	3900.5	3719.1	3778.7	3843.6	3930.2	3943.8	4073.7	4160.3	4241.5	4309.2
15°	3272.5	3177.8	3012.6	2931.4	3023.5	3058.7	3142.6	3250.8	3342.9	3367.2	3459.3
17.5°	2511.9	2528.1	2501.1	2452.3	2509.2	2536.2	2541.7	2544.4	2568.7	2552.5	2687.8
20°	2022.0	2078.8	2146.5	2157.3	2176.2	2189.8	2165.4	2073.4	2076.1	2132.9	2176.2
22.5°	1829.8	1840.6	1916.4	1940.8	2000.3	1975.9	1905.6	1862.3	1856.8	1870.4	1892.0
25°	1678.2	1694.4	1748.6	1786.5	1832.5	1789.2	1737.7	1697.1	1691.7	1705.3	1726.9
27.5°	1542.9	1567.2	1615.9	1653.8	1697.1	1656.5	1607.8	1572.6	1569.9	1567.2	1580.8
30°	1434.6	1461.7	1496.8	1540.2	1569.9	1534.7	1488.7	1469.8	1467.1	1461.7	1467.1
32.5°	1326.3	1369.6	1404.8	1426.5	1456.2	1429.2	1394.0	1383.2	1364.2	1348.0	1339.9
35°	1204.5	1250.5	1304.7	1331.7	1361.5	1334.4	1310.1	1264.1	1231.6	1228.9	1234.3
37.5°	1134.1	1153.1	1196.4	1242.4	1272.2	1258.6	1212.6	1166.6	1158.5	1158.5	1163.9
40°	1071.9	1080.0	1099.0	1158.5	1212.6	1172.0	1115.2	1101.7	1101.7	1099.0	1101.7
42.5°	1009.6	1017.7	1017.7	1063.8	1150.4	1085.4	1042.1	1042.1	1042.1	1044.8	1052.9
45°	952.8	955.5	952.8	985.3	1066.5	1012.3	982.6	990.7	996.1	1001.5	1006.9
47.5°	904.1	906.8	904.1	931.1	971.7	950.1	933.8	944.7	955.5	963.6	969.0
50°	860.8	858.0	863.5	879.7	898.6	904.1	893.2	909.5	914.9	925.7	939.3
52.5°	822.9	820.2	825.6	833.7	860.8	860.8	860.8	874.3	885.1	895.9	914.9
55°	779.6	782.3	790.4	801.2	836.4	831.0	833.7	844.5	855.3	871.6	882.4
57.5°	738.9	744.4	755.2	771.4	806.6	803.9	806.6	812.0	825.6	833.7	844.5
60°	692.9	703.8	717.3	728.1	763.3	760.6	774.1	785.0	793.1	793.1	798.5
62.5°	646.9	663.2	676.7	684.8	722.7	725.4	744.4	752.5	757.9	752.5	760.6
65°	600.9	625.3	630.7	641.5	679.4	682.1	703.8	722.7	717.3	711.9	725.4
67.5°	554.9	584.7	582.0	595.5	633.4	638.8	657.7	690.2	679.4	674.0	684.8
70°	503.5	525.1	527.8	535.9	587.4	579.2	609.0	638.8	630.7	633.4	633.4
72.5°	446.6	465.6	465.6	481.8	535.9	522.4	546.8	579.2	579.2	576.5	576.5
75°	378.9	389.8	400.6	425.0	481.8	465.6	481.8	511.6	517.0	511.6	511.6
77.5°	305.9	322.1	327.5	360.0	400.6	397.9	414.1	427.7	438.5	433.1	433.1
80°	216.5	232.8	254.4	289.6	314.0	322.1	330.2	341.1	346.5	346.5	351.9
82.5°	121.8	146.2	165.1	200.3	211.1	251.7	249.0	257.1	249.0	219.2	243.6
85°	27.1	51.4	73.1	92.0	105.6	146.2	154.3	173.2	143.5	132.6	132.6
87.5°	0.0	0.0	0.0	0.0	0.0	21.7	43.3	59.5	51.4	43.3	43.3
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°	13187.4	13187.4	13187.4	13187.4	13187.4	13187.4	13187.4	13187.4	13187.4	13187.4
2.5°	11509.2	11744.7	12028.9	12518.8	12862.6	13233.4	13607.0	14004.8	14110.4	14218.7
5°	9330.2	9793.1	10044.8	10702.6	11392.8	12269.8	12987.1	13772.1	14099.6	14175.4
7.5°	7067.4	7381.4	8041.8	8707.7	9563.0	10483.3	11582.3	12805.7	13187.4	13347.1
10°	5603.0	6030.7	6609.9	7324.5	8074.3	9065.0	10304.7	11733.9	12275.2	12364.5
12.5°	4769.3	5245.7	5876.4	6631.6	7340.8	8087.8	9338.4	10813.6	11392.8	11585.0
15°	3813.8	4390.4	5118.5	5914.3	6685.7	7503.2	8769.9	10434.6	11103.2	11327.8
17.5°	2996.4	3462.0	4249.6	5113.1	6028.0	7062.0	8650.8	10616.0	11438.8	11647.2
20°	2292.6	2625.6	3288.7	4200.9	5272.8	6626.2	8680.6	11300.8	12286.0	12570.3
22.5°	1981.4	2151.9	2555.2	3424.1	4623.2	6247.2	8802.4	12240.0	13428.3	13902.0
25°	1794.6	1883.9	2111.3	2679.7	4003.3	5879.1	9081.2	13504.1	15025.3	15339.3
27.5°	1634.9	1699.9	1840.6	2249.3	3440.3	5538.1	9406.0	14906.2	16516.7	16985.0
30°	1483.3	1569.9	1702.6	1997.6	3080.3	5226.8	9814.8	16043.0	17772.7	18208.5
32.5°	1366.9	1453.5	1575.3	1821.7	2774.4	4899.3	10058.4	17041.8	18798.5	19169.4
35°	1272.2	1345.3	1472.5	1680.9	2541.7	4650.2	10009.7	17834.9	19791.9	20170.9
37.5°	1204.5	1266.8	1394.0	1548.3	2365.7	4390.4	9985.3	18882.5	21001.9	21440.4
40°	1142.3	1207.2	1323.6	1461.7	2189.8	4084.5	9998.8	19921.9	22290.3	22728.8
42.5°	1093.5	1166.6	1261.4	1437.3	2008.4	3838.2	9998.8	20825.9	23410.9	23833.1
45°	1052.9	1131.4	1223.5	1434.6	1865.0	3651.4	9931.2	21602.8	24304.1	24664.1
47.5°	1017.7	1104.4	1237.0	1385.9	1829.8	3516.1	9871.6	22225.3	25032.2	25370.6
50°	993.4	1096.2	1315.5	1329.0	1840.6	3475.5	10158.5	23010.3	25673.8	25966.1
52.5°	974.4	1099.0	1312.8	1245.1	1821.7	3502.6	10756.7	24236.5	26564.3	26585.9
55°	936.5	1096.2	1245.1	1150.4	1743.2	3548.6	11525.4	26017.5	27958.3	27974.5
57.5°	898.6	1066.5	1155.8	1069.2	1583.5	3548.6	12451.2	27703.8	29639.2	29652.7
60°	860.8	1109.8	1015.0	998.8	1375.0	3483.6	13428.3	28445.5	30167.0	30305.0
62.5°	822.9	1117.9	906.8	936.5	1223.5	3326.6	14156.4	27625.3	29452.4	29650.0
65°	779.6	901.4	836.4	871.6	1145.0	3064.1	13926.4	26123.1	28109.8	28345.3
67.5°	728.1	763.3	760.6	803.9	1117.9	2677.0	12713.7	24222.9	26664.4	26650.9
70°	665.9	684.8	692.9	738.9	1066.5	2376.5	10594.3	21757.0	24734.5	25037.7
72.5°	600.9	617.1	625.3	665.9	1015.0	2206.0	8223.2	18360.0	21424.1	21897.8
75°	530.5	541.4	552.2	587.4	960.9	1954.3	5857.5	14015.7	16408.5	17152.8
77.5°	457.4	457.4	471.0	506.2	809.3	1613.2	3930.2	9831.0	11116.7	11877.3
80°	370.8	373.5	368.1	406.0	595.5	1104.4	2233.1	6566.6	7397.6	7543.8
82.5°	284.2	276.1	278.8	297.7	443.9	752.5	1191.0	4079.1	4157.6	4076.4
85°	178.6	178.6	173.2	194.9	284.2	392.5	649.6	2498.4	1951.6	1856.8
87.5°	73.1	59.5	67.7	78.5	135.3	159.7	254.4	514.3	197.6	181.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)