

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: P456380

Luminaire Tested: **GALN-SA7C-827-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456380
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-827-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 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: 31029 lumens
Efficiency: N/A
Efficacy: 82.3 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

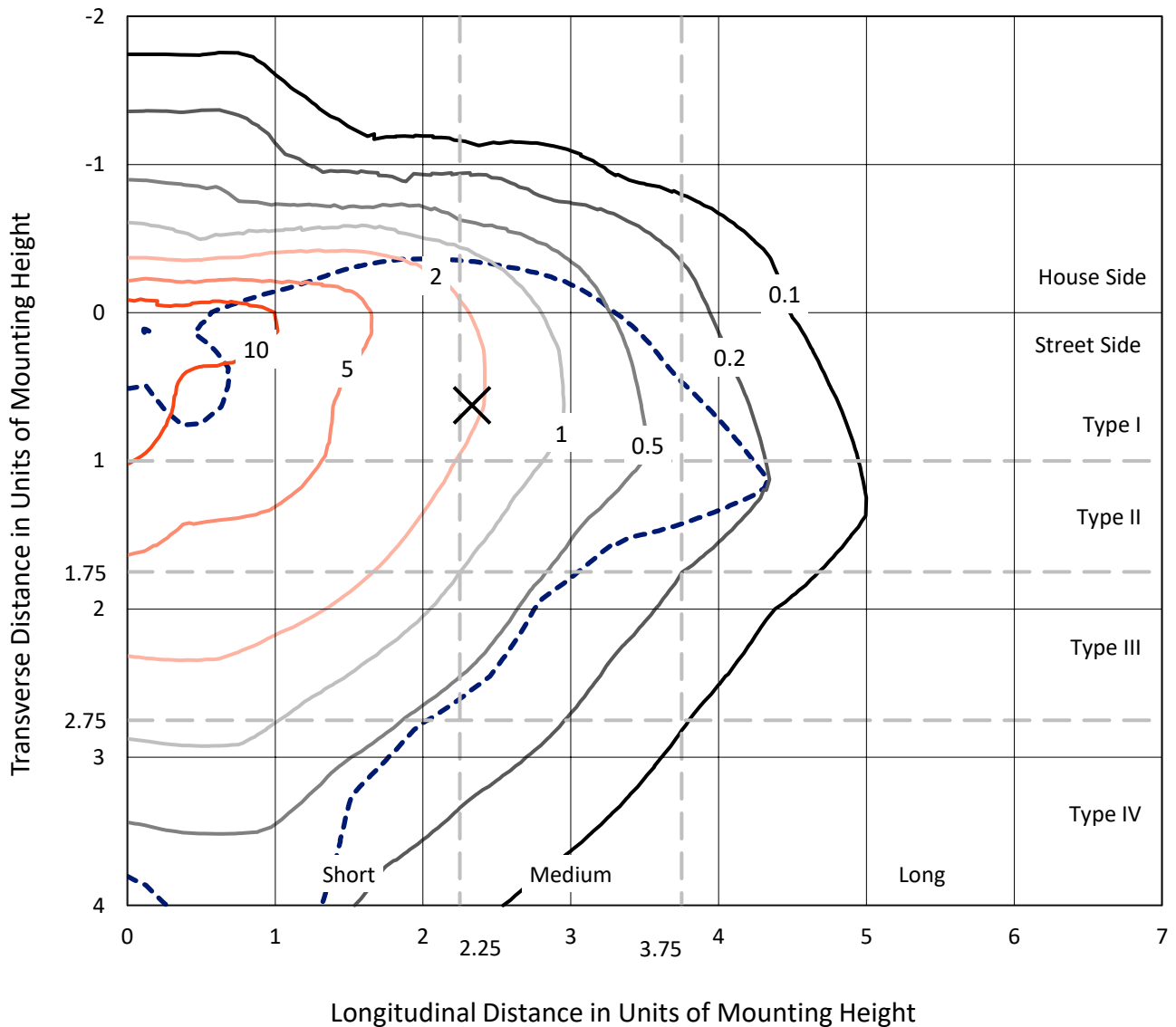




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Iso-Footcandle Lines of Horizontal Illumination

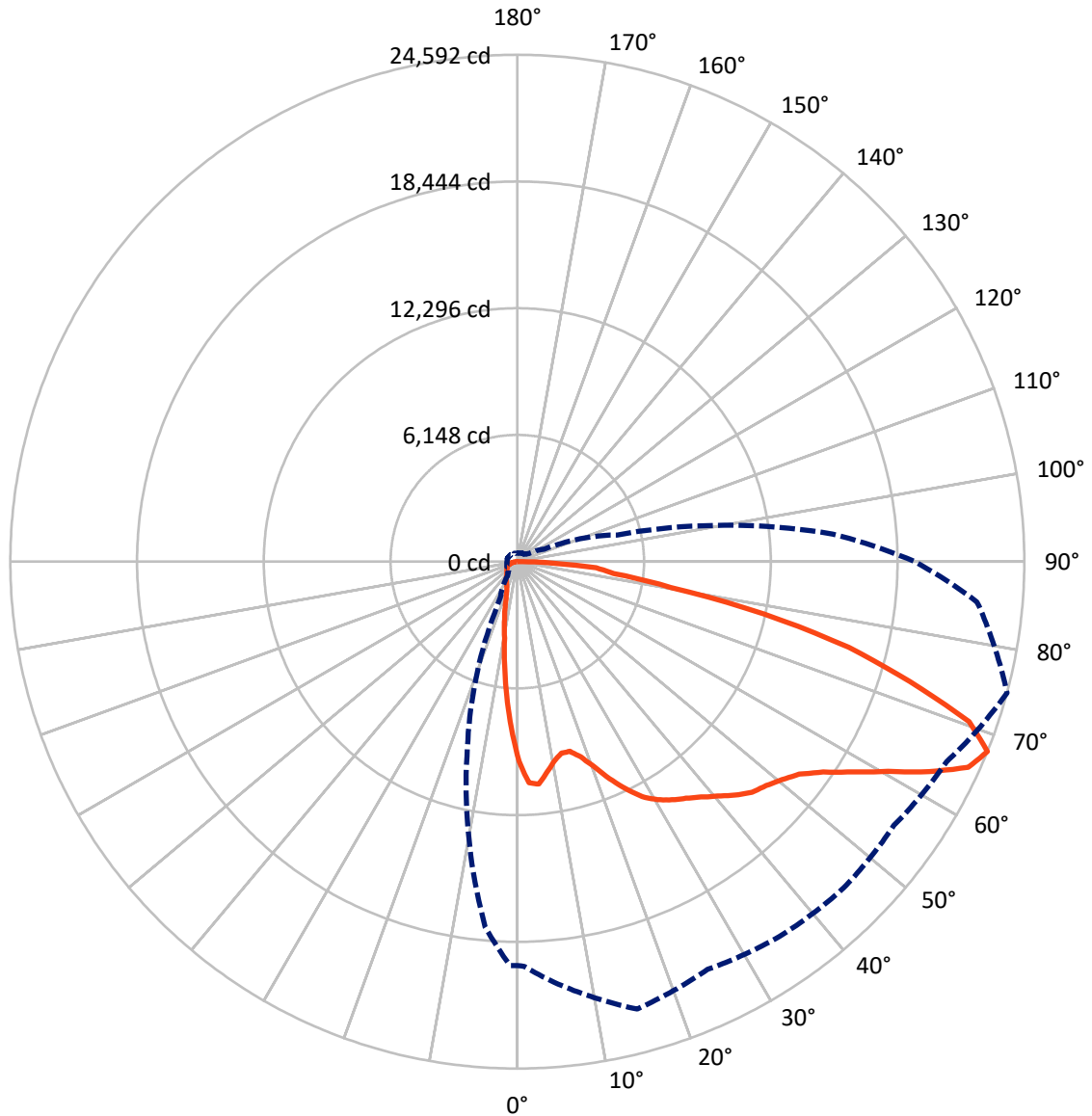
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.1 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	5244.6	0.0	5244.6
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	25784.4	0.0	25784.4
	% Fixture	83.1	0.0	83.1
Total	Lumens	31029.0	0.0	31029.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	735.3	2.4
10°-20°	1533.4	4.9
20°-30°	2206.7	7.1
30°-40°	3178.2	10.2
40°-50°	4464.5	14.4
50°-60°	6226.4	20.1
60°-70°	7402.8	23.9
70°-80°	4359.8	14.1
80°-90°	921.9	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°	31029.0	100.0
0°-180°	31029.0	100.0

Coefficient of Utilization



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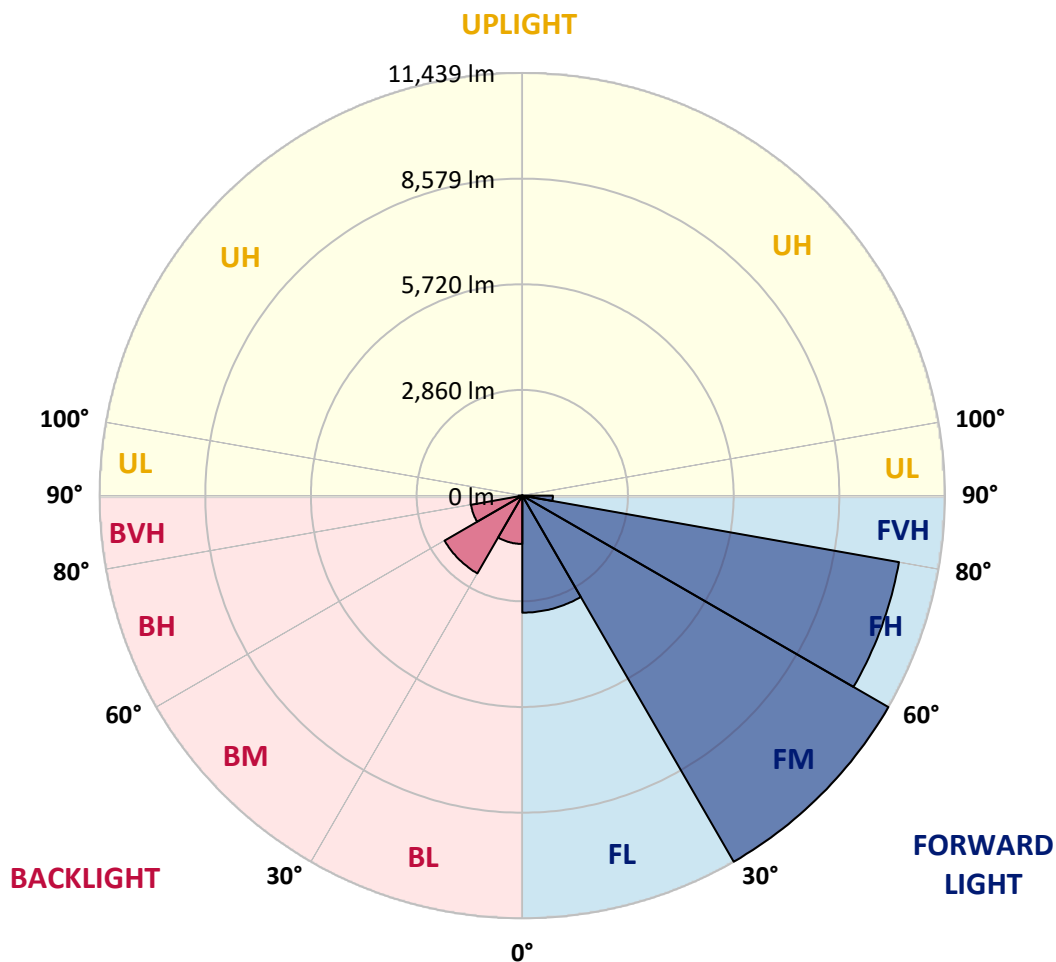
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3167.2	10.2			
FM	(30°-60°)	11439.2	36.9			
FH	(60°-80°)	10351.4	33.4			G4/12000
FVH	(80°-90°)	826.6	2.7			G5
BL	(0°-30°)	1308.2	4.2	B3/2500		
BM	(30°-60°)	2429.8	7.8	B2/2500		
BH	(60°-80°)	1411.2	4.5	B3/2500		G3/2500
BVH	(80°-90°)	95.4	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°	9694.2	9694.2	9694.2	9694.2	9694.2	9694.2	9694.2	9694.2	9694.2	9694.2	9694.2
2.5°	10452.3	10466.2	10555.8	10816.4	10995.5	11061.2	11106.9	11021.4	10937.8	10734.8	10428.4
5°	10420.5	10502.0	10734.8	11319.8	11781.5	11980.4	12040.1	11783.5	11359.6	10838.3	10211.5
7.5°	9811.6	9921.0	10279.2	11260.1	12074.0	12539.6	12477.9	12014.3	11250.2	10321.0	9445.5
10°	9089.3	9210.7	9642.5	10828.4	11877.0	12517.7	12517.7	11952.6	10937.8	9833.5	8824.7
12.5°	8516.2	8643.6	9137.1	10384.6	11467.1	12074.0	12175.4	11689.9	10713.0	9525.1	8416.8
15°	8327.2	8450.6	8981.9	10116.0	11033.3	11403.4	11437.2	11278.1	10603.5	9547.0	8398.8
17.5°	8562.0	8721.2	9258.4	10195.6	10635.4	10657.2	10683.1	10808.5	10615.5	9946.9	8761.0
20°	9240.5	9411.6	9972.8	10452.3	10287.1	10060.3	10074.2	10396.6	10756.7	10607.5	9626.5
22.5°	10219.5	10368.7	10943.8	10904.0	10139.9	9672.3	9574.8	10024.5	10965.7	11431.3	10547.8
25°	11276.1	11451.2	12111.8	11574.5	10181.7	9441.5	9379.8	9805.6	11182.5	12201.3	11612.3
27.5°	12485.9	12657.0	13178.3	12251.1	10400.6	9423.6	9350.0	9785.7	11377.5	12913.7	12629.1
30°	13385.2	13542.4	13896.6	12820.1	10669.2	9543.0	9451.4	9942.9	11544.7	13401.1	13620.0
32.5°	14091.6	14254.8	14447.8	13174.3	11023.4	9759.9	9590.7	10229.4	11763.6	13773.2	14354.3
35°	14827.8	15020.8	15006.9	13488.7	11353.7	10010.6	9845.4	10643.3	12107.8	14097.6	15285.5
37.5°	15761.0	15838.6	15739.1	13771.2	11749.6	10462.2	10370.7	11258.2	12597.3	14489.6	16373.9
40°	16708.2	16863.4	16352.0	14113.5	12231.2	11311.9	11301.9	12167.5	13178.3	14949.2	17428.5
42.5°	17520.0	17651.3	16925.0	14412.0	12814.2	12348.6	12424.2	13387.2	13940.4	15482.5	18276.1
45°	18130.8	18248.2	17454.3	14700.5	13582.2	13546.4	13992.1	14694.5	14901.4	15962.0	18773.5
47.5°	18650.2	18763.6	17822.4	15138.2	14531.3	14977.1	15753.1	16057.5	15723.2	16236.6	19330.7
50°	19087.9	19121.8	18075.1	15659.5	15709.3	16730.0	17482.2	17679.2	16535.0	16630.6	19814.2
52.5°	19543.6	19499.8	18510.9	16316.2	16982.7	18393.5	18940.7	19145.6	17313.1	17116.1	20518.6
55°	20564.3	20606.1	19487.9	17143.9	18270.1	20027.1	20747.4	20550.4	18174.6	18009.5	21414.0
57.5°	21798.0	21762.2	20862.8	18439.3	19581.4	21547.3	22084.5	21768.2	19324.7	19237.2	22321.3
60°	22277.5	22325.3	22012.9	19832.1	20874.8	22878.5	23427.6	22936.2	20703.6	20663.8	23005.8
62.5°	21796.0	22064.6	22275.6	21071.7	21977.1	23857.4	24402.6	23841.5	22142.2	22430.8	23485.3
65°	20836.9	20894.6	21613.0	22122.3	22508.4	24018.6	24303.1	24004.7	23344.1	24040.5	23463.5
67.5°	19591.3	19641.1	20482.8	22466.6	21823.9	22188.0	22387.0	22299.4	22972.0	24591.7	22383.0
70°	18405.4	18365.6	19255.1	21589.1	18998.4	18445.2	18610.4	18335.8	19822.2	23244.6	20263.9
72.5°	16097.3	16240.6	17195.7	19149.6	15042.7	14143.3	14503.5	13793.1	15245.7	19907.7	16447.5
75°	12609.2	12643.0	14236.9	16071.4	11347.7	9929.0	10416.5	10120.0	11678.0	16606.7	11357.6
77.5°	8731.1	8655.5	10368.7	12274.9	8092.4	7268.7	7276.6	7135.3	8154.1	12227.2	7716.4
80°	5545.5	5430.1	6490.7	7583.0	5561.4	5949.4	5754.4	5748.5	5308.7	7543.2	4666.0
82.5°	2996.6	3123.9	4100.9	4753.6	3989.5	4598.4	4214.3	4091.0	3643.3	4721.7	2984.7
85°	1365.0	1484.4	2186.8	3233.4	3030.4	3064.3	2047.5	2415.6	3014.5	3834.3	1593.8
87.5°	133.3	171.1	451.7	1526.2	1034.7	815.8	304.4	587.0	758.1	1363.0	127.3
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9694.2	9694.2	9694.2	9694.2	9694.2	9694.2	9694.2	9694.2	9694.2	9694.2	9694.2
2.5°	10303.1	10199.6	9847.4	9556.9	9248.5	9013.7	8707.3	8502.3	8361.0	8148.1	8122.3
5°	9829.5	9576.8	8963.9	8339.2	7799.9	7394.0	6982.1	6604.1	6381.2	6311.6	6222.0
7.5°	9031.6	8605.8	7817.8	7101.5	6482.7	5877.8	5412.2	5081.9	4861.0	4731.7	4576.5
10°	8375.0	7881.5	6922.4	6044.9	5535.6	5159.5	4749.6	4395.4	4122.8	3890.0	3762.7
12.5°	7933.2	7376.1	6297.6	5585.3	5191.3	4791.4	4311.8	3913.9	3512.0	3247.3	3133.9
15°	7799.9	7211.0	6104.6	5356.5	4791.4	4268.1	3730.8	3211.5	2813.5	2562.8	2479.3
17.5°	8126.2	7413.9	6102.6	5052.0	4321.8	3697.0	3008.5	2521.0	2113.1	1926.1	1866.4
20°	8735.1	7803.9	6120.6	4751.6	3812.4	2932.9	2188.8	1788.8	1593.8	1514.2	1484.4
22.5°	9584.8	8398.8	6174.3	4455.1	3255.3	2252.4	1639.6	1436.6	1367.0	1353.0	1347.1
25°	10631.4	9135.1	6355.3	4188.5	2785.7	1719.2	1371.0	1279.4	1239.6	1225.7	1223.7
27.5°	11594.4	10086.2	6574.2	3959.7	2332.0	1482.4	1239.6	1162.0	1122.2	1120.2	1124.2
30°	12464.0	10882.1	6757.3	3703.0	1987.8	1317.2	1154.1	1076.5	1038.7	1036.7	1048.6
32.5°	13216.1	11536.7	6892.6	3450.3	1796.8	1215.8	1076.5	992.9	961.1	955.1	961.1
35°	14020.0	12189.4	6830.9	3253.3	1687.3	1132.2	1018.8	937.2	899.4	881.5	881.5
37.5°	14937.3	12861.9	6725.4	3090.1	1637.6	1062.5	969.0	889.4	851.6	833.7	831.7
40°	15938.1	13534.5	6580.2	2944.9	1587.8	1020.8	935.2	851.6	805.9	788.0	784.0
42.5°	16821.6	14109.5	6460.8	2849.4	1506.3	1028.7	905.3	823.8	766.1	742.2	740.2
45°	17589.6	14688.5	6438.9	2793.6	1438.6	1016.8	897.4	801.9	734.2	708.4	704.4
47.5°	18190.5	15291.4	6564.3	2761.8	1365.0	953.1	949.1	788.0	706.4	678.5	674.5
50°	18922.8	16147.0	6850.8	2696.1	1297.3	893.4	1002.8	786.0	684.5	648.7	638.7
52.5°	19897.8	17261.3	7238.8	2578.8	1199.8	837.7	957.1	786.0	658.6	622.8	610.9
55°	21372.2	18682.0	7618.9	2413.6	1062.5	764.1	863.6	762.1	620.8	589.0	581.0
57.5°	22349.2	19720.7	7861.6	2184.8	891.4	710.4	744.2	724.3	583.0	549.2	549.2
60°	22398.9	19999.2	7746.2	1896.3	784.0	660.6	646.7	730.2	549.2	513.4	509.4
62.5°	21825.9	19316.8	7145.3	1637.6	726.3	606.9	585.0	640.7	515.4	479.5	473.6
65°	20930.5	17575.7	6102.6	1514.2	694.4	559.1	527.3	525.3	479.5	445.7	437.8
67.5°	19284.9	15359.1	5014.2	1442.6	678.5	505.4	475.6	465.6	437.8	409.9	405.9
70°	16859.4	12863.9	4021.3	1412.7	670.6	449.7	425.8	413.9	390.0	368.1	366.1
72.5°	13116.6	10434.4	3318.9	1392.8	666.6	398.0	372.1	356.2	342.2	322.3	322.3
75°	9421.6	7676.6	2533.0	1255.5	616.8	342.2	314.4	304.4	284.5	268.6	272.6
77.5°	5939.5	5169.4	1667.4	923.3	477.5	274.6	250.7	244.7	228.8	206.9	220.9
80°	4011.4	3635.3	973.0	581.0	300.5	201.0	193.0	191.0	173.1	149.2	151.2
82.5°	2730.0	2678.2	505.4	330.3	173.1	117.4	113.4	117.4	97.5	79.6	79.6
85°	1066.5	1456.5	238.8	129.3	55.7	17.9	25.9	27.9	15.9	8.0	9.9
87.5°	19.9	149.2	6.0	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°	9694.2	9694.2	9694.2	9694.2	9694.2	9694.2	9694.2	9694.2	9694.2	9694.2	9694.2
2.5°	8082.5	8064.6	8094.4	7967.1	7992.9	8040.7	8064.6	8078.5	8275.5	8229.7	8355.1
5°	6305.6	6287.7	6403.1	6419.0	6478.7	6466.8	6524.5	6538.4	6610.0	6635.9	6811.0
7.5°	4586.4	4664.0	4795.4	4863.0	4964.5	4996.3	4966.5	5040.1	4890.9	4998.3	5030.2
10°	3685.1	3591.5	3535.8	3691.0	3710.9	3858.2	3798.5	3750.7	3838.3	3842.3	3925.8
12.5°	3068.2	2867.3	2734.0	2777.7	2825.5	2889.2	2899.1	2994.6	3058.3	3118.0	3167.7
15°	2405.6	2336.0	2214.6	2154.9	2222.6	2248.4	2310.1	2389.7	2457.4	2475.3	2542.9
17.5°	1846.5	1858.5	1838.6	1802.7	1844.5	1864.4	1868.4	1870.4	1888.3	1876.4	1975.8
20°	1486.4	1528.1	1577.9	1585.9	1599.8	1609.7	1591.8	1524.2	1526.2	1567.9	1599.8
22.5°	1345.1	1353.0	1408.8	1426.7	1470.4	1452.5	1400.8	1369.0	1365.0	1374.9	1390.9
25°	1233.7	1245.6	1285.4	1313.3	1347.1	1315.2	1277.4	1247.6	1243.6	1253.6	1269.5
27.5°	1134.2	1152.1	1187.9	1215.8	1247.6	1217.7	1181.9	1156.1	1154.1	1152.1	1162.0
30°	1054.6	1074.5	1100.3	1132.2	1154.1	1128.2	1094.4	1080.4	1078.5	1074.5	1078.5
32.5°	975.0	1006.8	1032.7	1048.6	1070.5	1050.6	1024.7	1016.8	1002.8	990.9	984.9
35°	885.5	919.3	959.1	979.0	1000.9	981.0	963.1	929.2	905.3	903.4	907.3
37.5°	833.7	847.6	879.5	913.3	935.2	925.2	891.4	857.6	851.6	851.6	855.6
40°	788.0	793.9	807.8	851.6	891.4	861.6	819.8	809.8	809.8	807.8	809.8
42.5°	742.2	748.2	748.2	782.0	845.7	797.9	766.1	766.1	766.1	768.1	774.0
45°	700.4	702.4	700.4	724.3	784.0	744.2	722.3	728.3	732.2	736.2	740.2
47.5°	664.6	666.6	664.6	684.5	714.3	698.4	686.5	694.4	702.4	708.4	712.3
50°	632.7	630.8	634.7	646.7	660.6	664.6	656.6	668.6	672.5	680.5	690.5
52.5°	604.9	602.9	606.9	612.9	632.7	632.7	632.7	642.7	650.7	658.6	672.5
55°	573.1	575.0	581.0	589.0	614.8	610.9	612.9	620.8	628.8	640.7	648.7
57.5°	543.2	547.2	555.1	567.1	593.0	591.0	593.0	596.9	606.9	612.9	620.8
60°	509.4	517.3	527.3	535.3	561.1	559.1	569.1	577.0	583.0	583.0	587.0
62.5°	475.6	487.5	497.4	503.4	531.3	533.3	547.2	553.2	557.1	553.2	559.1
65°	441.7	459.6	463.6	471.6	499.4	501.4	517.3	531.3	527.3	523.3	533.3
67.5°	407.9	429.8	427.8	437.8	465.6	469.6	483.5	507.4	499.4	495.5	503.4
70°	370.1	386.0	388.0	394.0	431.8	425.8	447.7	469.6	463.6	465.6	465.6
72.5°	328.3	342.2	342.2	354.2	394.0	384.0	401.9	425.8	425.8	423.8	423.8
75°	278.6	286.5	294.5	312.4	354.2	342.2	354.2	376.1	380.0	376.1	376.1
77.5°	224.8	236.8	240.8	264.6	294.5	292.5	304.4	314.4	322.3	318.4	318.4
80°	159.2	171.1	187.0	212.9	230.8	236.8	242.8	250.7	254.7	254.7	258.7
82.5°	89.5	107.4	121.4	147.2	155.2	185.0	183.1	189.0	183.1	161.2	179.1
85°	19.9	37.8	53.7	67.7	77.6	107.4	113.4	127.3	105.5	97.5	97.5
87.5°	0.0	0.0	0.0	0.0	0.0	15.9	31.8	43.8	37.8	31.8	31.8
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°	9694.2	9694.2	9694.2	9694.2	9694.2	9694.2	9694.2	9694.2	9694.2	9694.2
2.5°	8460.5	8633.6	8842.6	9202.7	9455.4	9728.0	10002.6	10295.1	10372.7	10452.3
5°	6858.8	7199.0	7384.1	7867.6	8375.0	9019.7	9547.0	10124.0	10364.7	10420.5
7.5°	5195.3	5426.1	5911.6	6401.1	7029.9	7706.4	8514.3	9413.6	9694.2	9811.6
10°	4118.8	4433.2	4859.0	5384.3	5935.5	6663.8	7575.1	8625.7	9023.6	9089.3
12.5°	3506.0	3856.2	4319.8	4875.0	5396.3	5945.5	6864.7	7949.2	8375.0	8516.2
15°	2803.6	3227.4	3762.7	4347.7	4914.7	5515.7	6446.9	7670.6	8162.1	8327.2
17.5°	2202.7	2544.9	3123.9	3758.7	4431.2	5191.3	6359.3	7803.9	8408.8	8562.0
20°	1685.3	1930.1	2417.6	3088.1	3876.1	4871.0	6381.2	8307.3	9031.6	9240.5
22.5°	1456.5	1581.9	1878.3	2517.1	3398.5	4592.4	6470.8	8997.8	9871.3	10219.5
25°	1319.2	1384.9	1552.0	1969.9	2942.9	4321.8	6675.7	9927.0	11045.3	11276.1
27.5°	1201.8	1249.6	1353.0	1653.5	2529.0	4071.1	6914.5	10957.7	12141.6	12485.9
30°	1090.4	1154.1	1251.6	1468.5	2264.4	3842.3	7214.9	11793.4	13064.9	13385.2
32.5°	1004.8	1068.5	1158.1	1339.1	2039.5	3601.5	7394.0	12527.6	13819.0	14091.6
35°	935.2	988.9	1082.4	1235.7	1868.4	3418.4	7358.2	13110.6	14549.2	14827.8
37.5°	885.5	931.2	1024.7	1138.2	1739.1	3227.4	7340.3	13880.7	15438.7	15761.0
40°	839.7	887.4	973.0	1074.5	1609.7	3002.6	7350.2	14644.8	16385.8	16708.2
42.5°	803.9	857.6	927.2	1056.6	1476.4	2821.5	7350.2	15309.3	17209.6	17520.0
45°	774.0	831.7	899.4	1054.6	1371.0	2684.2	7300.5	15880.4	17866.2	18130.8
47.5°	748.2	811.8	909.3	1018.8	1345.1	2584.7	7256.7	16338.1	18401.5	18650.2
50°	730.2	805.9	967.0	977.0	1353.0	2554.9	7467.6	16915.1	18873.0	19087.9
52.5°	716.3	807.8	965.0	915.3	1339.1	2574.8	7907.4	17816.5	19527.7	19543.6
55°	688.5	805.9	915.3	845.7	1281.4	2608.6	8472.5	19125.7	20552.4	20564.3
57.5°	660.6	784.0	849.6	786.0	1164.0	2608.6	9153.0	20365.4	21788.1	21798.0
60°	632.7	815.8	746.2	734.2	1010.8	2560.8	9871.3	20910.6	22176.1	22277.5
62.5°	604.9	821.8	666.6	688.5	899.4	2445.4	10406.5	20307.7	21650.8	21796.0
65°	573.1	662.6	614.8	640.7	841.7	2252.4	10237.4	19203.3	20663.8	20836.9
67.5°	535.3	561.1	559.1	591.0	821.8	1967.9	9346.0	17806.5	19601.3	19591.3
70°	489.5	503.4	509.4	543.2	784.0	1747.0	7788.0	15993.8	18182.6	18405.4
72.5°	441.7	453.7	459.6	489.5	746.2	1621.7	6044.9	13496.7	15749.1	16097.3
75°	390.0	398.0	405.9	431.8	706.4	1436.6	4305.9	10303.1	12062.0	12609.2
77.5°	336.3	336.3	346.2	372.1	594.9	1185.9	2889.2	7226.9	8172.0	8731.1
80°	272.6	274.6	270.6	298.5	437.8	811.8	1641.6	4827.2	5438.1	5545.5
82.5°	208.9	203.0	204.9	218.9	326.3	553.2	875.5	2998.6	3056.3	2996.6
85°	131.3	131.3	127.3	143.3	208.9	288.5	477.5	1836.6	1434.6	1365.0
87.5°	53.7	43.8	49.7	57.7	99.5	117.4	187.0	378.1	145.3	133.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)