

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: P459512

Luminaire Tested: **GALN-SA9C-735-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459512
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-SA9C-735-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 51178 lumens
Efficiency: N/A
Efficacy: 106.4 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

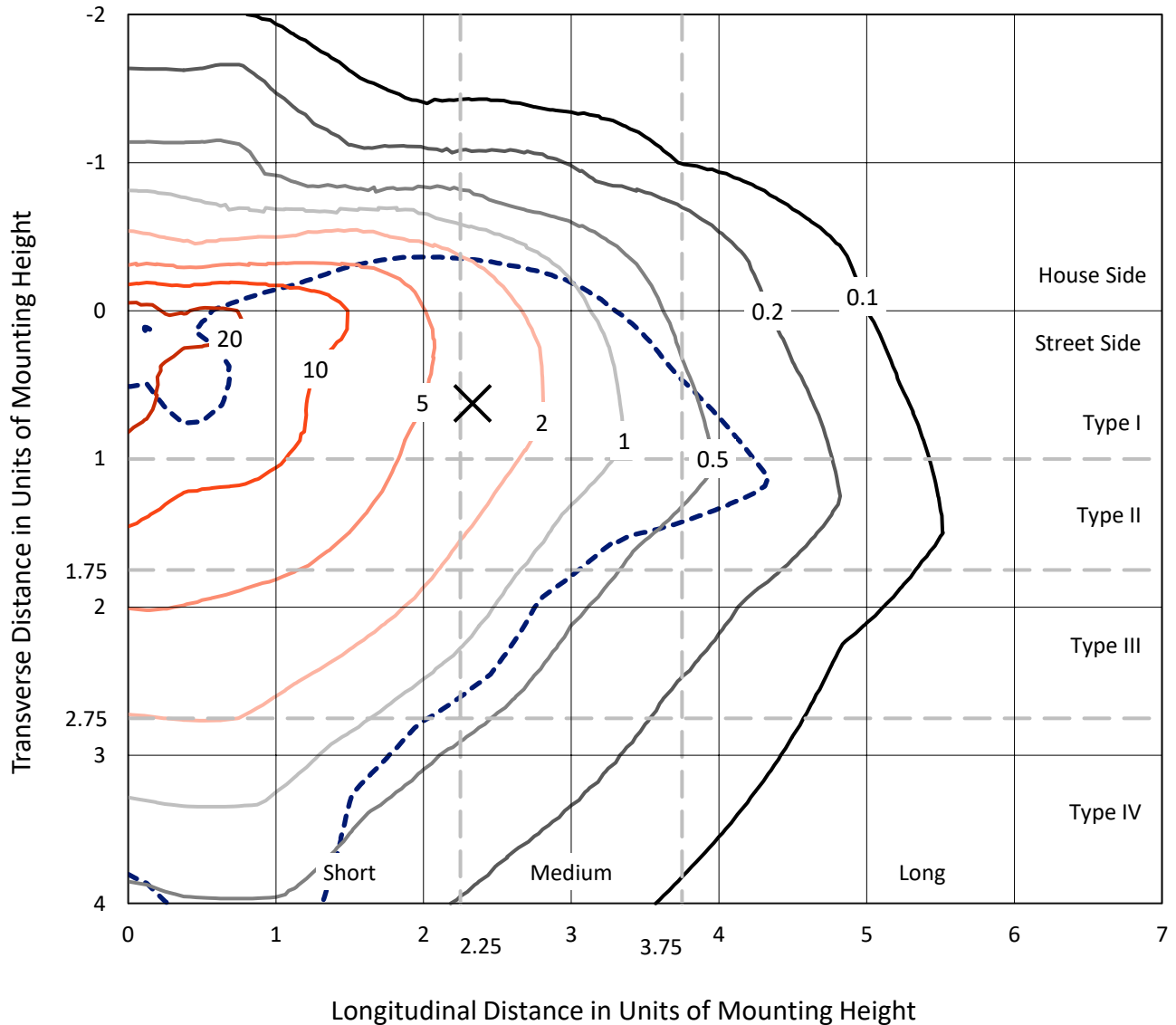
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

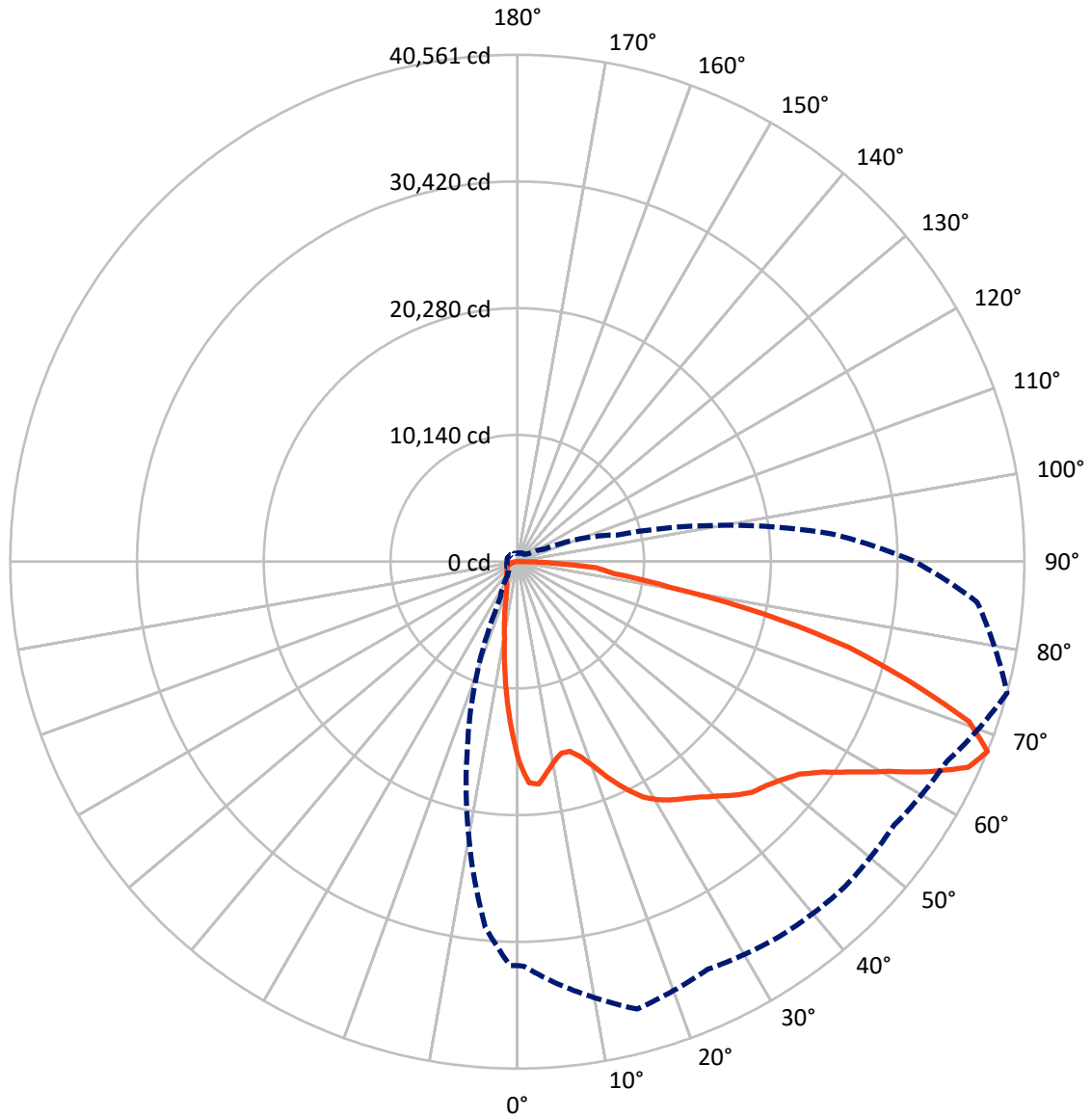
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 31.5 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	8650.2	0.0	8650.2
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	42527.8	0.0	42527.8
	% Fixture	83.1	0.0	83.1
Total	Lumens	51178.0	0.0	51178.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1212.7	2.4
10°-20°	2529.2	4.9
20°-30°	3639.6	7.1
30°-40°	5242.0	10.2
40°-50°	7363.5	14.4
50°-60°	10269.6	20.1
60°-70°	12209.9	23.9
70°-80°	7190.9	14.1
80°-90°	1520.6	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°	51178.0	100.0
0°-180°	51178.0	100.0

Coefficient of Utilization



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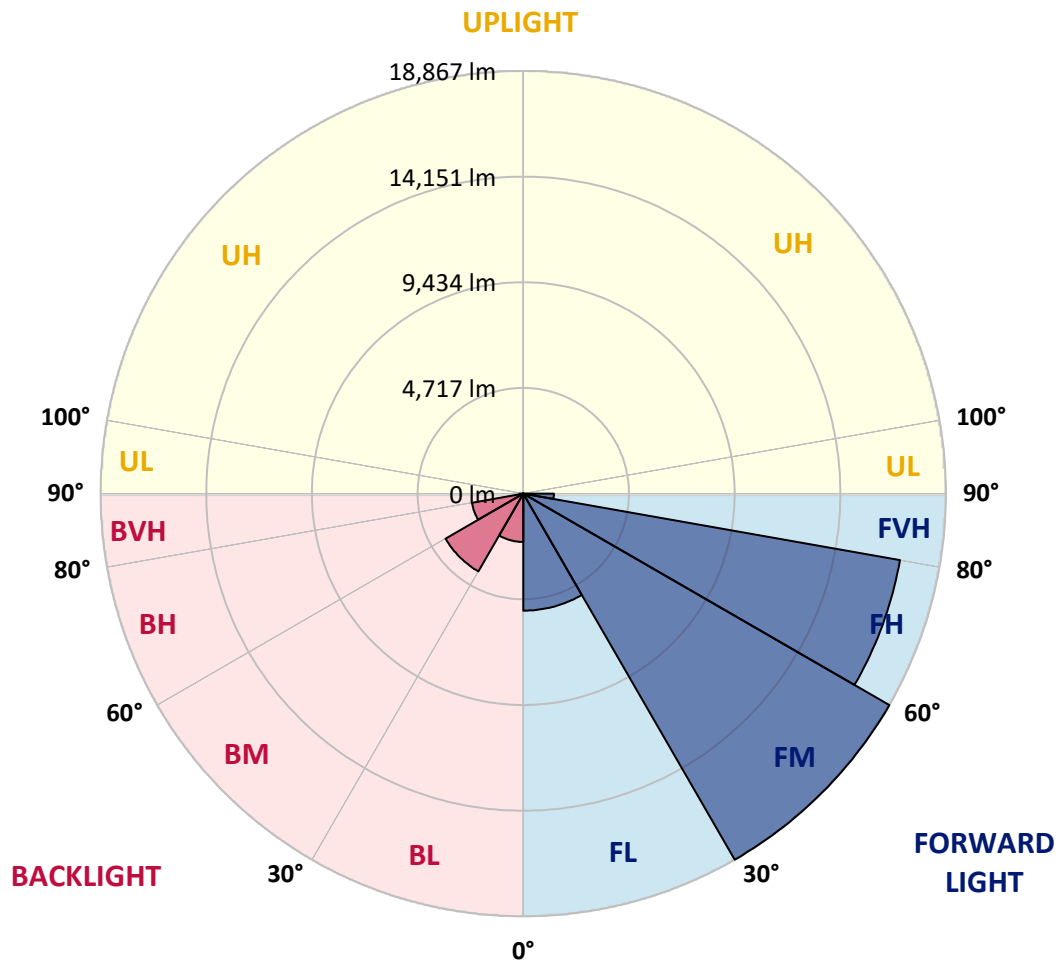
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5223.9	10.2			
FM	(30°-60°)	18867.4	36.9			
FH	(60°-80°)	17073.2	33.4			G5
FVH	(80°-90°)	1363.3	2.7			G5
BL	(0°-30°)	2157.6	4.2	B3/2500		
BM	(30°-60°)	4007.7	7.8	B3/5000		
BH	(60°-80°)	2327.6	4.5	B3/2500		G3/2500
BVH	(80°-90°)	157.3	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°	15989.2	15989.2	15989.2	15989.2	15989.2	15989.2	15989.2	15989.2	15989.2	15989.2	15989.2
2.5°	17239.6	17262.6	17410.3	17840.2	18135.6	18243.9	18319.3	18178.2	18040.4	17705.6	17200.2
5°	17187.1	17321.7	17705.6	18670.5	19431.9	19760.1	19858.5	19435.2	18736.1	17876.3	16842.5
7.5°	16182.8	16363.4	16954.1	18572.0	19914.3	20682.3	20580.5	19815.9	18555.6	17023.0	15579.0
10°	14991.5	15191.7	15903.9	17859.9	19589.4	20646.2	20646.2	19714.1	18040.4	16218.9	14555.0
12.5°	14046.4	14256.4	15070.3	17128.0	18913.4	19914.3	20081.7	19280.9	17669.5	15710.3	13882.3
15°	13734.6	13938.1	14814.3	16685.0	18197.9	18808.3	18864.1	18601.6	17489.0	15746.4	13852.7
17.5°	14121.8	14384.4	15270.5	16816.2	17541.5	17577.6	17620.3	17827.1	17508.7	16406.0	14450.0
20°	15241.0	15523.2	16448.7	17239.6	16967.2	16593.1	16616.1	17147.7	17741.7	17495.6	15877.6
22.5°	16855.6	17101.8	18050.2	17984.6	16724.4	15953.1	15792.3	16534.0	18086.3	18854.3	17397.1
25°	18598.3	18887.1	19976.7	19090.6	16793.3	15572.4	15470.7	16173.0	18444.0	20124.4	19152.9
27.5°	20593.7	20875.9	21735.8	20206.4	17154.3	15542.9	15421.5	16140.2	18765.7	21299.3	20830.0
30°	22077.1	22336.3	22920.5	21145.0	17597.3	15739.8	15588.8	16399.5	19041.3	22103.3	22464.3
32.5°	23242.1	23511.2	23829.6	21729.2	18181.5	16097.5	15818.6	16872.0	19402.4	22717.0	23675.3
35°	24456.4	24774.8	24751.8	22247.7	18726.3	16511.0	16238.6	17554.7	19970.1	23252.0	25211.2
37.5°	25995.6	26123.6	25959.5	22713.7	19379.4	17256.0	17105.1	18568.8	20777.5	23898.5	27006.4
40°	27557.8	27813.8	26970.3	23278.2	20173.6	18657.4	18641.0	20068.6	21735.8	24656.6	28745.8
42.5°	28896.8	29113.4	27915.5	23770.5	21135.2	20367.2	20491.9	22080.3	22992.7	25536.1	30143.9
45°	29904.3	30097.9	28788.5	24246.4	22402.0	22342.9	23078.0	24236.5	24577.8	26327.1	30964.3
47.5°	30760.9	30947.9	29395.6	24968.4	23967.4	24702.6	25982.5	26484.6	25933.3	26780.0	31883.3
50°	31482.9	31538.7	29812.4	25828.2	25910.3	27593.9	28834.4	29159.3	27272.3	27429.8	32680.8
52.5°	32234.4	32162.2	30531.1	26911.2	28010.7	30337.5	31240.0	31578.0	28555.5	28230.6	33842.5
55°	33918.0	33986.9	32142.5	28276.5	30134.0	33031.9	34219.9	33895.0	29976.5	29704.1	35319.4
57.5°	35952.8	35893.7	34410.3	30413.0	32296.8	35539.3	36425.4	35903.5	31873.4	31729.0	36815.9
60°	36743.7	36822.5	36307.2	32710.3	34430.0	37734.8	38640.6	37830.0	34147.7	34082.1	37944.9
62.5°	35949.5	36392.5	36740.4	34754.9	36248.1	39349.5	40248.7	39323.2	36520.5	36996.4	38735.8
65°	34367.6	34462.8	35647.6	36487.7	37124.4	39615.3	40084.6	39592.4	38502.8	39651.4	38699.7
67.5°	32313.2	32395.2	33783.5	37055.5	35995.4	36596.0	36924.2	36779.8	37889.1	40560.5	36917.6
70°	30357.2	30291.6	31758.6	35608.2	31335.2	30422.8	30695.2	30242.3	32693.9	38338.7	33422.5
72.5°	26550.2	26786.5	28361.8	31584.6	24810.9	23327.5	23921.5	22749.8	25145.6	32835.0	27127.8
75°	20797.1	20852.9	23481.7	26507.6	18716.4	16376.5	17180.5	16691.5	19261.2	27390.4	18732.9
77.5°	14400.8	14276.1	17101.8	20245.8	13347.3	11988.6	12001.8	11768.7	13449.1	20167.0	12727.1
80°	9146.5	8956.2	10705.4	12507.2	9172.8	9812.8	9491.1	9481.3	8756.0	12441.5	7696.0
82.5°	4942.5	5152.5	6763.9	7840.4	6580.1	7584.4	6951.0	6747.5	6009.1	7787.9	4922.8
85°	2251.4	2448.3	3606.8	5333.0	4998.3	5054.1	3377.0	3984.2	4972.0	6324.1	2628.8
87.5°	219.9	282.2	745.0	2517.2	1706.6	1345.6	502.1	968.1	1250.4	2248.1	210.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	15989.2	15989.2	15989.2	15989.2	15989.2	15989.2	15989.2	15989.2	15989.2	15989.2	15989.2
2.5°	16993.5	16822.8	16241.9	15762.8	15254.1	14866.8	14361.4	14023.4	13790.4	13439.2	13396.5
5°	16212.4	15795.6	14784.8	13754.3	12864.9	12195.4	11516.0	10892.5	10524.9	10410.1	10262.4
7.5°	14896.4	14194.0	12894.4	11713.0	10692.3	9694.6	8926.7	8381.9	8017.6	7804.3	7548.3
10°	13813.3	12999.4	11417.6	9970.3	9130.1	8509.9	7833.8	7249.6	6800.0	6416.0	6206.0
12.5°	13084.8	12165.9	10387.1	9212.2	8562.4	7902.7	7111.8	6455.4	5792.5	5356.0	5168.9
15°	12864.9	11893.5	10068.7	8834.8	7902.7	7039.6	6153.5	5296.9	4640.5	4227.0	4089.2
17.5°	13403.1	12228.2	10065.5	8332.6	7128.2	6097.7	4962.2	4158.1	3485.3	3176.8	3078.4
20°	14407.4	12871.5	10095.0	7837.1	6288.0	4837.5	3610.0	2950.4	2628.8	2497.5	2448.3
22.5°	15808.7	13852.7	10183.6	7348.1	5369.1	3715.1	2704.3	2369.5	2254.6	2231.7	2221.8
25°	17535.0	15067.0	10482.3	6908.3	4594.6	2835.5	2261.2	2110.2	2044.6	2021.6	2018.3
27.5°	19123.4	16635.7	10843.3	6530.9	3846.3	2445.0	2044.6	1916.6	1851.0	1847.7	1854.3
30°	20557.6	17948.5	11145.2	6107.5	3278.6	2172.6	1903.5	1775.5	1713.1	1709.8	1729.5
32.5°	21798.1	19028.2	11368.4	5690.7	2963.5	2005.2	1775.5	1637.6	1585.1	1575.3	1585.1
35°	23124.0	20104.7	11266.6	5365.8	2783.0	1867.4	1680.3	1545.8	1483.4	1453.9	1453.9
37.5°	24636.9	21213.9	11092.7	5096.7	2701.0	1752.5	1598.3	1467.0	1404.6	1375.1	1371.8
40°	26287.7	22323.2	10853.1	4857.2	2618.9	1683.6	1542.5	1404.6	1329.2	1299.6	1293.1
42.5°	27744.8	23271.7	10656.2	4699.6	2484.4	1696.7	1493.2	1358.7	1263.5	1224.1	1220.9
45°	29011.6	24226.7	10620.1	4607.7	2372.8	1677.0	1480.1	1322.6	1211.0	1168.3	1161.8
47.5°	30002.8	25221.1	10826.9	4555.2	2251.4	1572.0	1565.4	1299.6	1165.1	1119.1	1112.6
50°	31210.5	26632.3	11299.4	4446.9	2139.8	1473.6	1654.1	1296.3	1129.0	1069.9	1053.5
52.5°	32818.6	28470.1	11939.4	4253.3	1979.0	1381.7	1578.6	1296.3	1086.3	1027.2	1007.5
55°	35250.5	30813.4	12566.2	3980.9	1752.5	1260.2	1424.3	1257.0	1023.9	971.4	958.3
57.5°	36861.8	32526.5	12966.6	3603.5	1470.3	1171.6	1227.4	1194.6	961.6	905.8	905.8
60°	36943.9	32986.0	12776.3	3127.6	1293.1	1089.6	1066.6	1204.4	905.8	846.7	840.2
62.5°	35998.7	31860.3	11785.2	2701.0	1197.9	1001.0	964.9	1056.8	850.0	790.9	781.1
65°	34521.9	28988.7	10065.5	2497.5	1145.4	922.2	869.7	866.4	790.9	735.1	722.0
67.5°	31807.8	25332.7	8270.3	2379.3	1119.1	833.6	784.4	768.0	722.0	676.1	669.5
70°	27807.2	21217.2	6632.6	2330.1	1106.0	741.7	702.3	682.6	643.2	607.1	603.9
72.5°	21634.0	17210.1	5474.1	2297.3	1099.4	656.4	613.7	587.5	564.5	531.7	531.7
75°	15539.6	12661.4	4177.8	2070.9	1017.4	564.5	518.5	502.1	469.3	443.1	449.6
77.5°	9796.3	8526.3	2750.2	1522.8	787.6	452.9	413.5	403.7	377.4	341.3	364.3
80°	6616.2	5996.0	1604.8	958.3	495.6	331.5	318.3	315.1	285.5	246.1	249.4
82.5°	4502.7	4417.4	833.6	544.8	285.5	193.6	187.1	193.6	160.8	131.3	131.3
85°	1759.1	2402.3	393.8	213.3	91.9	29.5	42.7	45.9	26.3	13.1	16.4
87.5°	32.8	246.1	9.8	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°	15989.2	15989.2	15989.2	15989.2	15989.2	15989.2	15989.2	15989.2	15989.2	15989.2	15989.2
2.5°	13330.9	13301.4	13350.6	13140.6	13183.2	13262.0	13301.4	13324.3	13649.3	13573.8	13780.5
5°	10400.2	10370.7	10561.0	10587.3	10685.7	10666.0	10761.2	10784.2	10902.3	10945.0	11233.8
7.5°	7564.7	7692.7	7909.3	8020.9	8188.2	8240.7	8191.5	8312.9	8066.8	8244.0	8296.5
10°	6078.0	5923.8	5831.9	6087.8	6120.7	6363.5	6265.1	6186.3	6330.7	6337.3	6475.1
12.5°	5060.6	4729.2	4509.3	4581.5	4660.2	4765.3	4781.7	4939.2	5044.2	5142.7	5224.7
15°	3967.8	3852.9	3652.7	3554.3	3665.8	3708.5	3810.2	3941.5	4053.1	4082.6	4194.2
17.5°	3045.6	3065.3	3032.4	2973.4	3042.3	3075.1	3081.7	3084.9	3114.5	3094.8	3258.9
20°	2451.5	2520.5	2602.5	2615.6	2638.6	2655.0	2625.5	2513.9	2517.2	2586.1	2638.6
22.5°	2218.5	2231.7	2323.6	2353.1	2425.3	2395.8	2310.4	2257.9	2251.4	2267.8	2294.0
25°	2034.8	2054.4	2120.1	2166.0	2221.8	2169.3	2107.0	2057.7	2051.2	2067.6	2093.8
27.5°	1870.7	1900.2	1959.3	2005.2	2057.7	2008.5	1949.4	1906.8	1903.5	1900.2	1916.6
30°	1739.4	1772.2	1814.9	1867.4	1903.5	1860.8	1805.0	1782.0	1778.8	1772.2	1778.8
32.5°	1608.1	1660.6	1703.3	1729.5	1765.6	1732.8	1690.2	1677.0	1654.1	1634.4	1624.5
35°	1460.4	1516.2	1581.9	1614.7	1650.8	1618.0	1588.4	1532.6	1493.2	1490.0	1496.5
37.5°	1375.1	1398.1	1450.6	1506.4	1542.5	1526.1	1470.3	1414.5	1404.6	1404.6	1411.2
40°	1299.6	1309.5	1332.4	1404.6	1470.3	1421.0	1352.1	1335.7	1335.7	1332.4	1335.7
42.5°	1224.1	1234.0	1234.0	1289.8	1394.8	1316.0	1263.5	1263.5	1263.5	1266.8	1276.6
45°	1155.2	1158.5	1155.2	1194.6	1293.1	1227.4	1191.3	1201.2	1207.7	1214.3	1220.9
47.5°	1096.1	1099.4	1096.1	1129.0	1178.2	1151.9	1132.2	1145.4	1158.5	1168.3	1174.9
50°	1043.6	1040.3	1046.9	1066.6	1089.6	1096.1	1083.0	1102.7	1109.3	1122.4	1138.8
52.5°	997.7	994.4	1001.0	1010.8	1043.6	1043.6	1043.6	1060.0	1073.2	1086.3	1109.3
55°	945.2	948.5	958.3	971.4	1014.1	1007.5	1010.8	1023.9	1037.1	1056.8	1069.9
57.5°	895.9	902.5	915.6	935.3	978.0	974.7	978.0	984.6	1001.0	1010.8	1023.9
60°	840.2	853.3	869.7	882.8	925.5	922.2	938.6	951.7	961.6	961.6	968.1
62.5°	784.4	804.1	820.5	830.3	876.3	879.5	902.5	912.4	918.9	912.4	922.2
65°	728.6	758.1	764.7	777.8	823.7	827.0	853.3	876.3	869.7	863.1	879.5
67.5°	672.8	708.9	705.6	722.0	768.0	774.5	797.5	836.9	823.7	817.2	830.3
70°	610.4	636.7	640.0	649.8	712.2	702.3	738.4	774.5	764.7	768.0	768.0
72.5°	541.5	564.5	564.5	584.2	649.8	633.4	662.9	702.3	702.3	699.0	699.0
75°	459.5	472.6	485.7	515.3	584.2	564.5	584.2	620.3	626.8	620.3	620.3
77.5°	370.9	390.5	397.1	436.5	485.7	482.4	502.1	518.5	531.7	525.1	525.1
80°	262.5	282.2	308.5	351.2	380.7	390.5	400.4	413.5	420.1	420.1	426.6
82.5°	147.7	177.2	200.2	242.9	256.0	305.2	301.9	311.8	301.9	265.8	295.4
85°	32.8	62.4	88.6	111.6	128.0	177.2	187.1	210.0	173.9	160.8	160.8
87.5°	0.0	0.0	0.0	0.0	0.0	26.3	52.5	72.2	62.4	52.5	52.5
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°	15989.2	15989.2	15989.2	15989.2	15989.2	15989.2	15989.2	15989.2	15989.2	15989.2
2.5°	13954.5	14240.0	14584.6	15178.6	15595.4	16045.0	16497.9	16980.3	17108.3	17239.6
5°	11312.6	11873.8	12179.0	12976.5	13813.3	14876.7	15746.4	16698.1	17095.2	17187.1
7.5°	8568.9	8949.6	9750.4	10557.7	11594.8	12710.6	14043.1	15526.5	15989.2	16182.8
10°	6793.4	7312.0	8014.3	8880.7	9789.8	10990.9	12494.0	14226.9	14883.2	14991.5
12.5°	5782.6	6360.2	7124.9	8040.6	8900.4	9806.2	11322.4	13111.0	13813.3	14046.4
15°	4624.1	5323.2	6206.0	7170.9	8106.2	9097.3	10633.2	12651.6	13462.2	13734.6
17.5°	3633.0	4197.5	5152.5	6199.4	7308.7	8562.4	10488.8	12871.5	13869.1	14121.8
20°	2779.7	3183.4	3987.5	5093.4	6393.1	8034.0	10524.9	13701.8	14896.4	15241.0
22.5°	2402.3	2609.1	3098.1	4151.6	5605.4	7574.5	10672.6	14840.6	16281.3	16855.6
25°	2175.9	2284.2	2559.9	3249.0	4853.9	7128.2	11010.6	16373.2	18217.6	18598.3
27.5°	1982.2	2061.0	2231.7	2727.2	4171.2	6714.7	11404.5	18073.2	20025.9	20593.7
30°	1798.5	1903.5	2064.3	2422.0	3734.8	6337.3	11900.0	19451.6	21548.7	22077.1
32.5°	1657.3	1762.4	1910.0	2208.7	3363.9	5940.2	12195.4	20662.6	22792.5	23242.1
35°	1542.5	1631.1	1785.3	2038.0	3081.7	5638.2	12136.3	21624.2	23997.0	24456.4
37.5°	1460.4	1535.9	1690.2	1877.2	2868.3	5323.2	12106.8	22894.3	25463.9	25995.6
40°	1384.9	1463.7	1604.8	1772.2	2655.0	4952.3	12123.2	24154.5	27026.1	27557.8
42.5°	1325.9	1414.5	1529.3	1742.7	2435.1	4653.7	12123.2	25250.6	28384.8	28896.8
45°	1276.6	1371.8	1483.4	1739.4	2261.2	4427.2	12041.1	26192.5	29467.8	29904.3
47.5°	1234.0	1339.0	1499.8	1680.3	2218.5	4263.1	11968.9	26947.3	30350.6	30760.9
50°	1204.4	1329.2	1595.0	1611.4	2231.7	4213.9	12316.8	27899.1	31128.4	31482.9
52.5°	1181.5	1332.4	1591.7	1509.7	2208.7	4246.7	13042.1	29385.8	32208.2	32234.4
55°	1135.5	1329.2	1509.7	1394.8	2113.5	4302.5	13974.2	31545.2	33898.3	33918.0
57.5°	1089.6	1293.1	1401.4	1296.3	1919.9	4302.5	15096.6	33589.8	35936.4	35952.8
60°	1043.6	1345.6	1230.7	1211.0	1667.2	4223.8	16281.3	34489.1	36576.3	36743.7
62.5°	997.7	1355.4	1099.4	1135.5	1483.4	4033.4	17164.1	33494.7	35709.9	35949.5
65°	945.2	1092.9	1014.1	1056.8	1388.2	3715.1	16885.2	31673.2	34082.1	34367.6
67.5°	882.8	925.5	922.2	974.7	1355.4	3245.8	15414.9	29369.4	32329.6	32313.2
70°	807.3	830.3	840.2	895.9	1293.1	2881.5	12845.2	26379.6	29989.6	30357.2
72.5°	728.6	748.3	758.1	807.3	1230.7	2674.7	9970.3	22260.9	25975.9	26550.2
75°	643.2	656.4	669.5	712.2	1165.1	2369.5	7101.9	16993.5	19894.6	20797.1
77.5°	554.6	554.6	571.0	613.7	981.3	1956.0	4765.3	11919.7	13478.6	14400.8
80°	449.6	452.9	446.3	492.3	722.0	1339.0	2707.5	7961.8	8969.3	9146.5
82.5°	344.6	334.7	338.0	361.0	538.2	912.4	1444.0	4945.8	5040.9	4942.5
85°	216.6	216.6	210.0	236.3	344.6	475.9	787.6	3029.2	2366.2	2251.4
87.5°	88.6	72.2	82.0	95.2	164.1	193.6	308.5	623.6	239.6	219.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)