

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: P459541

Luminaire Tested: **GALN-SA9D-735-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459541
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-SA9D-735-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1200mA 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: 56313 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

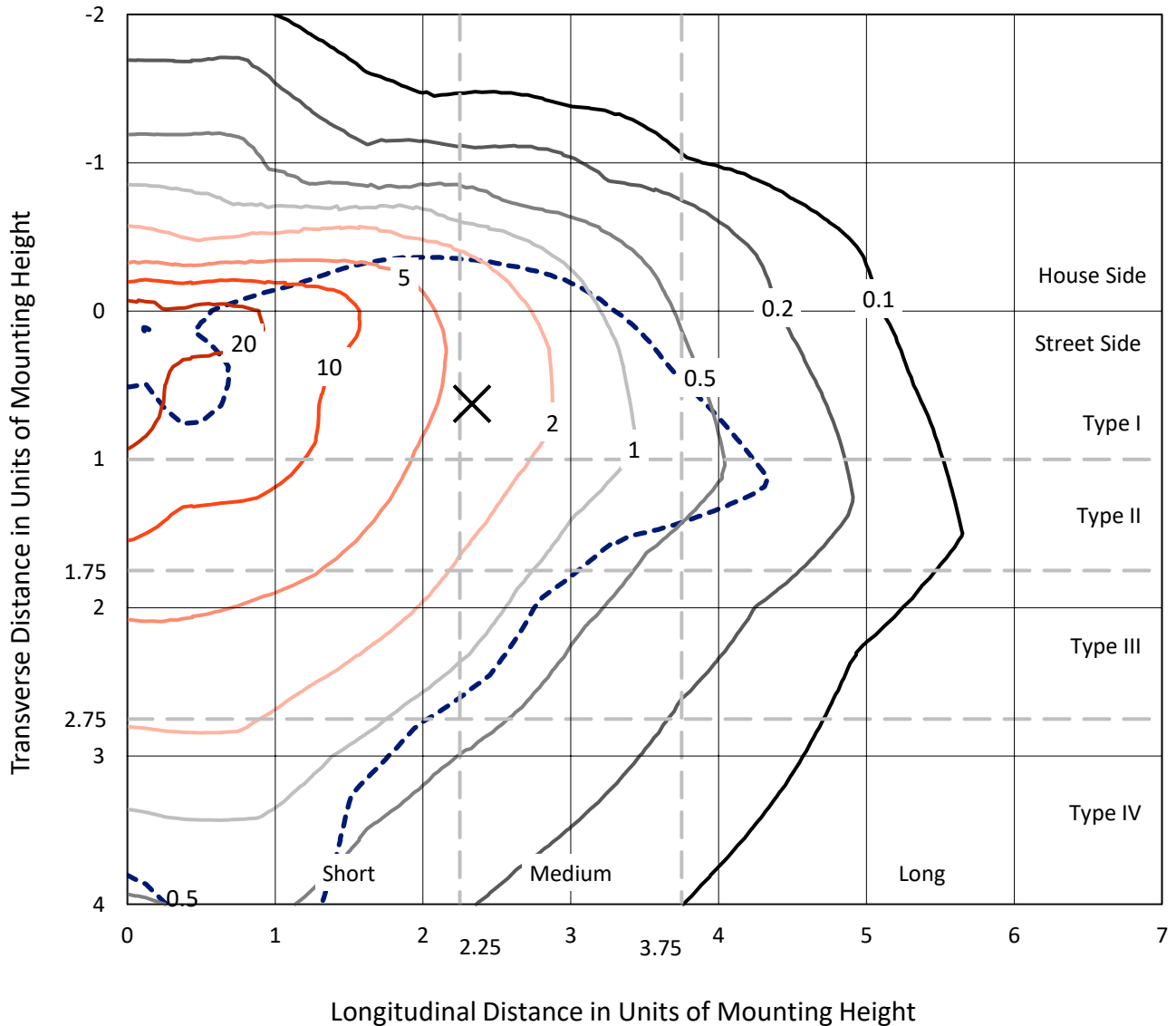
Input Watts (W): 552
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

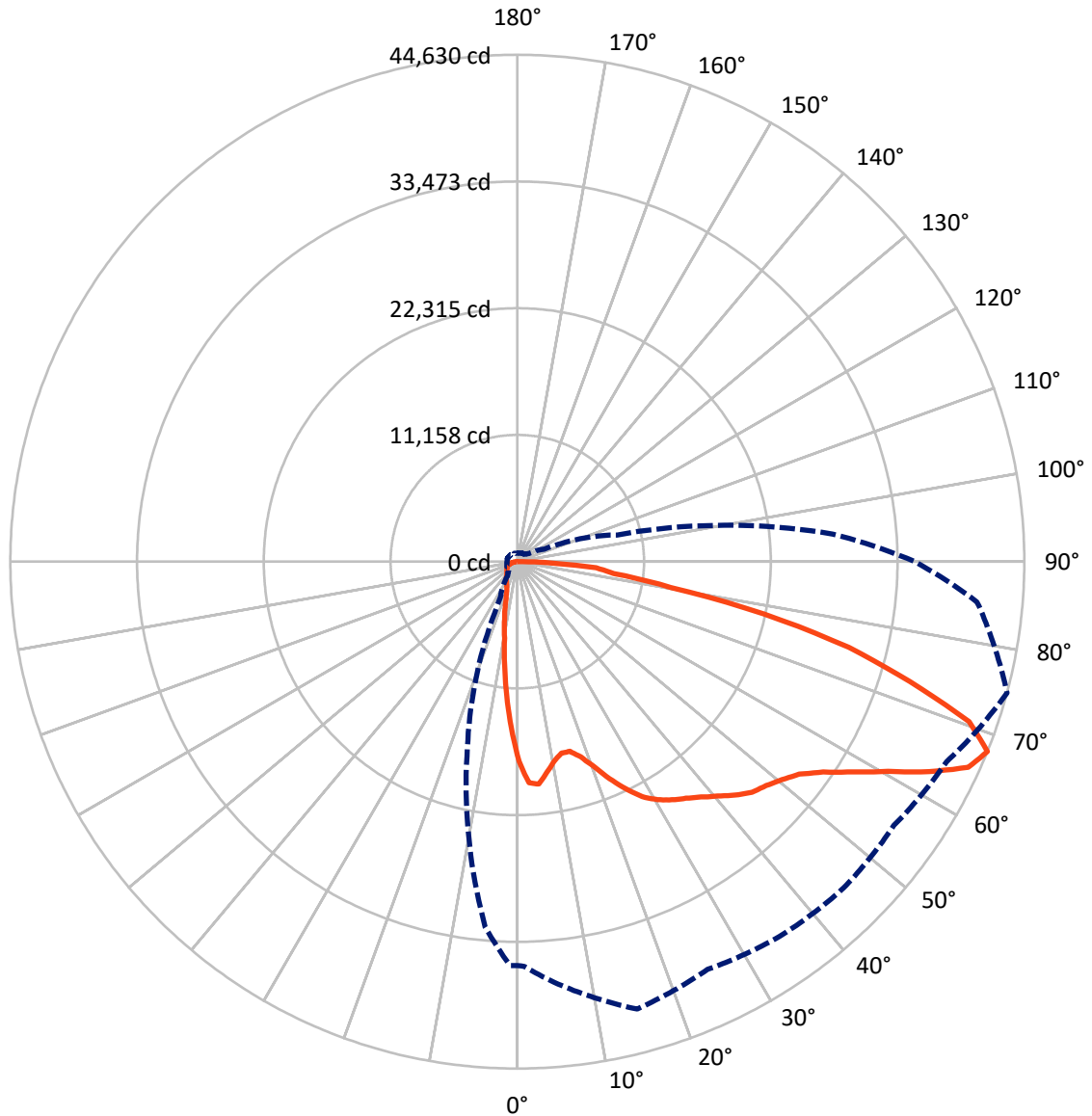
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 34.7 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	9518.1	0.0	9518.1
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	46794.9	0.0	46794.9
	% Fixture	83.1	0.0	83.1
Total	Lumens	56313.0	0.0	56313.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1334.4	2.4
10°-20°	2783.0	4.9
20°-30°	4004.7	7.1
30°-40°	5767.9	10.2
40°-50°	8102.4	14.4
50°-60°	11300.0	20.1
60°-70°	13434.9	23.9
70°-80°	7912.4	14.1
80°-90°	1673.2	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°	56313.0	100.0
0°-180°	56313.0	100.0

Coefficient of Utilization



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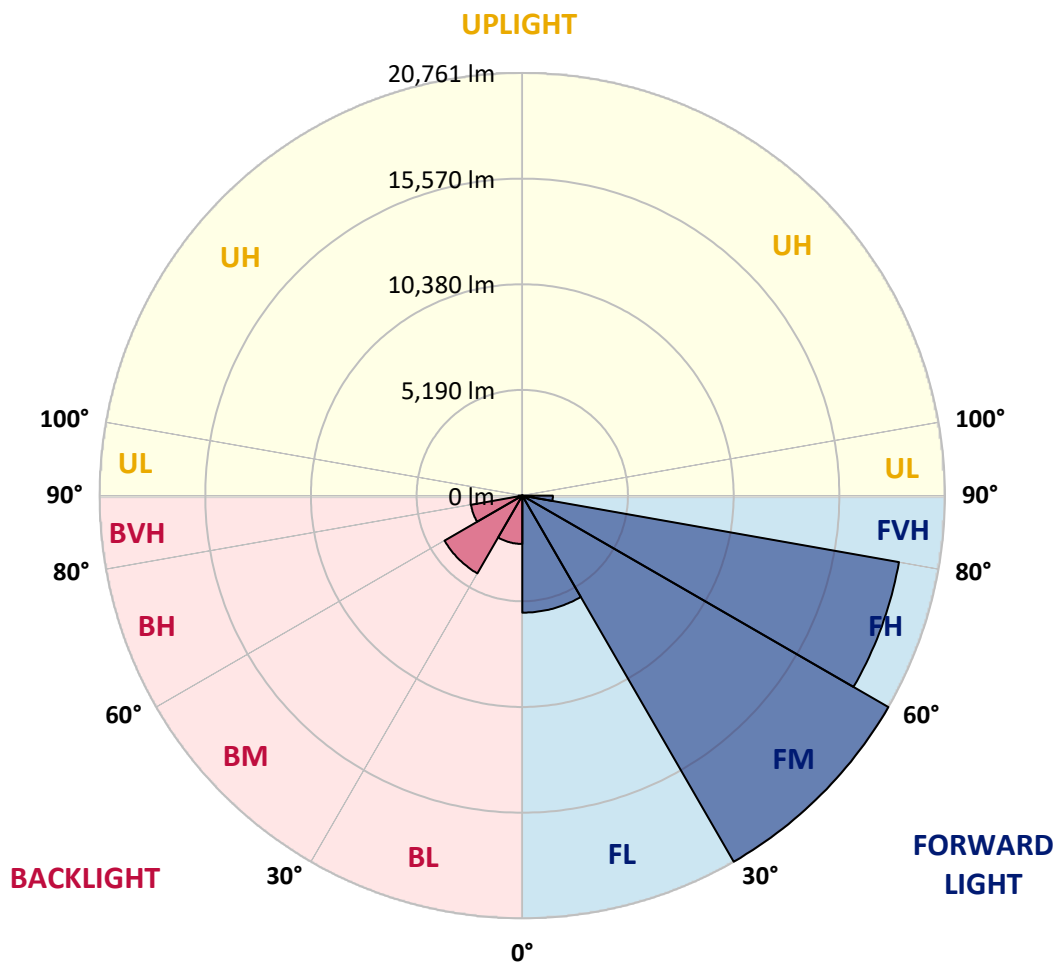
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5748.0	10.2			
FM	(30°-60°)	20760.5	36.9			
FH	(60°-80°)	18786.2	33.4			G5
FVH	(80°-90°)	1500.1	2.7			G5
BL	(0°-30°)	2374.1	4.2	B3/2500		
BM	(30°-60°)	4409.8	7.8	B3/5000		
BH	(60°-80°)	2561.1	4.5	B4/5000		G4/5000
BVH	(80°-90°)	173.1	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	17593.5	17593.5	17593.5	17593.5	17593.5	17593.5	17593.5	17593.5	17593.5	17593.5	17593.5
2.5°	18969.4	18994.6	19157.1	19630.2	19955.2	20074.4	20157.4	20002.1	19850.5	19482.1	18926.0
5°	18911.6	19059.6	19482.1	20543.8	21381.6	21742.7	21851.1	21385.2	20616.0	19669.9	18532.4
7.5°	17806.6	18005.2	18655.2	20435.5	21912.4	22757.5	22645.5	21804.1	20417.4	18731.0	17142.1
10°	16495.7	16716.0	17499.6	19651.9	21554.9	22717.7	22717.7	21692.2	19850.5	17846.3	16015.4
12.5°	15455.7	15686.8	16582.4	18846.6	20811.0	21912.4	22096.6	21215.5	19442.4	17286.6	15275.2
15°	15112.7	15336.5	16300.7	18359.1	20023.8	20695.5	20756.9	20468.0	19243.8	17326.3	15242.7
17.5°	15538.8	15827.7	16802.7	18503.5	19301.6	19341.3	19388.3	19615.8	19265.5	18052.1	15899.9
20°	16770.2	17080.7	18099.1	18969.4	18669.6	18258.0	18283.2	18868.2	19521.9	19251.0	17470.7
22.5°	18546.9	18817.7	19861.3	19789.1	18402.4	17553.8	17376.8	18193.0	19901.0	20746.0	19142.7
25°	20464.4	20782.2	21981.1	21006.0	18478.2	17134.9	17023.0	17795.7	20294.7	22143.6	21074.7
27.5°	22660.0	22970.5	23916.6	22233.8	18875.5	17102.4	16968.8	17759.6	20648.5	23436.4	22920.0
30°	24292.2	24577.5	25220.3	23266.6	19363.0	17319.1	17153.0	18044.9	20951.9	24321.1	24718.3
32.5°	25574.2	25870.3	26220.5	23909.4	20005.8	17712.7	17405.7	18564.9	21349.1	24996.4	26050.8
35°	26910.3	27260.6	27235.3	24480.0	20605.2	18167.7	17868.0	19316.0	21973.8	25585.0	27740.8
37.5°	28603.9	28744.7	28564.2	24992.8	21323.8	18987.4	18821.3	20431.9	22862.2	26296.4	29716.1
40°	30322.8	30604.5	29676.4	25613.9	22197.7	20529.4	20511.3	22082.2	23916.6	27130.6	31630.0
42.5°	31796.2	32034.5	30716.4	26155.5	23255.8	22410.8	22548.0	24295.8	25299.7	28098.3	33168.4
45°	32904.8	33117.8	31677.0	26679.2	24649.7	24584.7	25393.6	26668.3	27043.9	28968.6	34071.2
47.5°	33847.3	34053.1	32345.1	27473.6	26372.2	27181.1	28589.5	29142.0	28535.3	29467.0	35082.3
50°	34641.7	34703.1	32803.7	28419.7	28510.0	30362.5	31727.5	32085.1	30008.6	30182.0	35959.8
52.5°	35468.7	35389.3	33594.5	29611.4	30821.1	33381.5	34374.5	34746.5	31420.6	31063.1	37238.2
55°	37321.2	37397.1	35367.6	31113.7	33157.6	36346.2	37653.4	37295.9	32984.2	32684.5	38863.2
57.5°	39560.1	39495.1	37862.9	33464.5	35537.3	39105.1	40080.1	39506.0	35071.5	34912.6	40509.9
60°	40430.4	40517.1	39950.1	35992.3	37884.6	41521.0	42517.7	41625.7	37574.0	37501.8	41752.1
62.5°	39556.5	40044.0	40426.8	38242.1	39885.1	43297.7	44287.1	43268.8	40184.9	40708.5	42622.4
65°	37815.9	37920.7	39224.3	40148.7	40849.3	43590.2	44106.6	43564.9	42366.0	43629.9	42582.7
67.5°	35555.4	35645.6	37173.2	40773.5	39607.1	40267.9	40629.0	40470.1	41690.7	44630.2	40621.8
70°	33403.1	33330.9	34945.1	39181.0	34479.2	33475.3	33775.1	33276.7	35974.3	42185.4	36775.9
72.5°	29214.2	29474.2	31207.5	34753.7	27300.3	25668.0	26321.7	25032.5	27668.6	36129.5	29849.8
75°	22883.8	22945.2	25837.8	29167.2	20594.4	18019.6	18904.4	18366.3	21193.8	30138.6	20612.4
77.5°	15845.7	15708.5	18817.7	22277.2	14686.5	13191.5	13206.0	12949.6	14798.5	22190.5	14004.0
80°	10064.3	9854.8	11779.6	13762.1	10093.2	10797.3	10443.4	10432.6	9634.5	13689.9	8468.1
82.5°	5438.4	5669.5	7442.6	8627.0	7240.4	8345.4	7648.4	7424.5	6612.0	8569.3	5416.7
85°	2477.2	2693.9	3968.7	5868.1	5499.8	5561.2	3715.9	4383.9	5470.9	6958.7	2892.5
87.5°	241.9	310.6	819.7	2769.8	1877.8	1480.6	552.5	1065.3	1375.8	2473.6	231.1
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°	17593.5	17593.5	17593.5	17593.5	17593.5	17593.5	17593.5	17593.5	17593.5	17593.5	17593.5
2.5°	18698.5	18510.7	17871.6	17344.3	16784.6	16358.5	15802.4	15430.4	15174.0	14787.7	14740.7
5°	17839.1	17380.5	16268.2	15134.3	14155.7	13419.0	12671.5	11985.4	11581.0	11454.6	11292.1
7.5°	16391.0	15618.2	14188.2	12888.2	11765.1	10667.3	9822.3	9222.9	8822.0	8587.3	8305.6
10°	15199.3	14303.8	12563.2	10970.7	10046.2	9363.7	8619.8	7977.0	7482.3	7059.8	6828.7
12.5°	14397.6	13386.5	11429.3	10136.5	9421.5	8695.6	7825.4	7103.1	6373.7	5893.4	5687.6
15°	14155.7	13086.8	11079.0	9721.2	8695.6	7745.9	6770.9	5828.4	5106.2	4651.2	4499.5
17.5°	14747.9	13455.1	11075.4	9168.7	7843.4	6709.5	5460.1	4575.3	3835.0	3495.6	3387.3
20°	15852.9	14162.9	11107.9	8623.4	6919.0	5322.8	3972.3	3246.4	2892.5	2748.1	2693.9
22.5°	17394.9	15242.7	11205.4	8085.4	5907.8	4087.8	2975.6	2607.2	2480.9	2455.6	2444.7
25°	19294.4	16578.8	11534.0	7601.5	5055.6	3120.0	2488.1	2322.0	2249.7	2224.5	2220.9
27.5°	21042.2	18304.9	11931.2	7186.2	4232.3	2690.3	2249.7	2108.9	2036.7	2033.1	2040.3
30°	22620.2	19749.4	12263.5	6720.3	3607.5	2390.6	2094.5	1953.6	1885.0	1881.4	1903.1
32.5°	23985.2	20937.4	12509.0	6261.7	3260.9	2206.4	1953.6	1802.0	1744.2	1733.4	1744.2
35°	25444.1	22121.9	12397.1	5904.2	3062.3	2054.7	1848.9	1700.9	1632.2	1599.7	1599.7
37.5°	27108.9	23342.5	12205.7	5608.1	2972.0	1928.4	1758.6	1614.2	1545.6	1513.1	1509.5
40°	28925.3	24563.0	11942.1	5344.5	2881.7	1852.5	1697.2	1545.6	1462.5	1430.0	1422.8
42.5°	30528.6	25606.7	11725.4	5171.2	2733.6	1867.0	1643.1	1495.0	1390.3	1347.0	1343.3
45°	31922.5	26657.5	11685.7	5070.1	2610.9	1845.3	1628.6	1455.3	1332.5	1285.6	1278.3
47.5°	33013.1	27751.7	11913.2	5012.3	2477.2	1729.7	1722.5	1430.0	1282.0	1231.4	1224.2
50°	34342.0	29304.5	12433.2	4893.1	2354.5	1621.4	1820.0	1426.4	1242.2	1177.2	1159.2
52.5°	36111.5	31326.7	13137.4	4680.0	2177.5	1520.3	1737.0	1426.4	1195.3	1130.3	1108.6
55°	38787.3	33905.1	13827.1	4380.3	1928.4	1386.7	1567.2	1383.1	1126.7	1068.9	1054.5
57.5°	40560.4	35790.1	14267.6	3965.0	1617.8	1289.2	1350.6	1314.5	1058.1	996.7	996.7
60°	40650.7	36295.7	14058.2	3441.4	1422.8	1198.9	1173.6	1325.3	996.7	931.7	924.5
62.5°	39610.7	35057.0	12967.6	2972.0	1318.1	1101.4	1061.7	1162.8	935.3	870.3	859.5
65°	37985.7	31897.3	11075.4	2748.1	1260.3	1014.7	957.0	953.3	870.3	808.9	794.5
67.5°	34999.2	27874.5	9100.1	2618.1	1231.4	917.2	863.1	845.0	794.5	743.9	736.7
70°	30597.3	23346.1	7298.1	2563.9	1217.0	816.1	772.8	751.1	707.8	668.1	664.5
72.5°	23804.7	18936.9	6023.4	2527.8	1209.7	722.2	675.3	646.4	621.1	585.0	585.0
75°	17098.8	13931.8	4597.0	2278.6	1119.5	621.1	570.6	552.5	516.4	487.5	494.7
77.5°	10779.3	9381.8	3026.1	1675.6	866.7	498.3	455.0	444.2	415.3	375.6	400.8
80°	7280.1	6597.6	1765.9	1054.5	545.3	364.7	350.3	346.7	314.2	270.8	274.4
82.5°	4954.5	4860.6	917.2	599.5	314.2	213.1	205.8	213.1	176.9	144.4	144.4
85°	1935.6	2643.4	433.3	234.7	101.1	32.5	46.9	50.6	28.9	14.4	18.1
87.5°	36.1	270.8	10.8	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°	17593.5	17593.5	17593.5	17593.5	17593.5	17593.5	17593.5	17593.5	17593.5	17593.5	17593.5
2.5°	14668.5	14636.0	14690.2	14459.0	14506.0	14592.6	14636.0	14661.3	15018.8	14935.7	15163.2
5°	11443.7	11411.2	11620.7	11649.6	11757.9	11736.2	11841.0	11866.2	11996.2	12043.2	12361.0
7.5°	8323.7	8464.5	8702.9	8825.6	9009.8	9067.6	9013.4	9147.0	8876.2	9071.2	9129.0
10°	6687.8	6518.1	6417.0	6698.7	6734.8	7002.0	6893.7	6807.0	6965.9	6973.1	7124.8
12.5°	5568.4	5203.7	4961.7	5041.2	5127.8	5243.4	5261.4	5434.8	5550.3	5658.7	5748.9
15°	4365.9	4239.5	4019.2	3910.9	4033.7	4080.6	4192.5	4337.0	4459.8	4492.3	4615.0
17.5°	3351.1	3372.8	3336.7	3271.7	3347.5	3383.6	3390.9	3394.5	3427.0	3405.3	3585.9
20°	2697.5	2773.4	2863.6	2878.1	2903.4	2921.4	2888.9	2766.1	2769.8	2845.6	2903.4
22.5°	2441.1	2455.6	2556.7	2589.2	2668.6	2636.1	2542.2	2484.5	2477.2	2495.3	2524.2
25°	2238.9	2260.6	2332.8	2383.4	2444.7	2387.0	2318.4	2264.2	2257.0	2275.0	2303.9
27.5°	2058.4	2090.9	2155.9	2206.4	2264.2	2210.0	2145.0	2098.1	2094.5	2090.9	2108.9
30°	1913.9	1950.0	1997.0	2054.7	2094.5	2047.5	1986.1	1960.9	1957.2	1950.0	1957.2
32.5°	1769.5	1827.2	1874.2	1903.1	1942.8	1906.7	1859.7	1845.3	1820.0	1798.4	1787.5
35°	1607.0	1668.4	1740.6	1776.7	1816.4	1780.3	1747.8	1686.4	1643.1	1639.5	1646.7
37.5°	1513.1	1538.3	1596.1	1657.5	1697.2	1679.2	1617.8	1556.4	1545.6	1545.6	1552.8
40°	1430.0	1440.8	1466.1	1545.6	1617.8	1563.6	1487.8	1469.7	1469.7	1466.1	1469.7
42.5°	1347.0	1357.8	1357.8	1419.2	1534.7	1448.1	1390.3	1390.3	1390.3	1393.9	1404.7
45°	1271.1	1274.7	1271.1	1314.5	1422.8	1350.6	1310.8	1321.7	1328.9	1336.1	1343.3
47.5°	1206.1	1209.7	1206.1	1242.2	1296.4	1267.5	1245.8	1260.3	1274.7	1285.6	1292.8
50°	1148.3	1144.7	1152.0	1173.6	1198.9	1206.1	1191.7	1213.3	1220.6	1235.0	1253.1
52.5°	1097.8	1094.2	1101.4	1112.2	1148.3	1148.3	1148.3	1166.4	1180.8	1195.3	1220.6
55°	1040.0	1043.6	1054.5	1068.9	1115.8	1108.6	1112.2	1126.7	1141.1	1162.8	1177.2
57.5°	985.8	993.1	1007.5	1029.2	1076.1	1072.5	1076.1	1083.3	1101.4	1112.2	1126.7
60°	924.5	938.9	957.0	971.4	1018.3	1014.7	1032.8	1047.2	1058.1	1058.1	1065.3
62.5°	863.1	884.7	902.8	913.6	964.2	967.8	993.1	1003.9	1011.1	1003.9	1014.7
65°	801.7	834.2	841.4	855.8	906.4	910.0	938.9	964.2	957.0	949.7	967.8
67.5°	740.3	780.0	776.4	794.5	845.0	852.2	877.5	920.8	906.4	899.2	913.6
70°	671.7	700.6	704.2	715.0	783.6	772.8	812.5	852.2	841.4	845.0	845.0
72.5°	595.8	621.1	621.1	642.8	715.0	697.0	729.5	772.8	772.8	769.2	769.2
75°	505.6	520.0	534.4	567.0	642.8	621.1	642.8	682.5	689.7	682.5	682.5
77.5°	408.1	429.7	436.9	480.3	534.4	530.8	552.5	570.6	585.0	577.8	577.8
80°	288.9	310.6	339.4	386.4	418.9	429.7	440.6	455.0	462.2	462.2	469.4
82.5°	162.5	195.0	220.3	267.2	281.7	335.8	332.2	343.1	332.2	292.5	325.0
85°	36.1	68.6	97.5	122.8	140.8	195.0	205.8	231.1	191.4	176.9	176.9
87.5°	0.0	0.0	0.0	0.0	0.0	28.9	57.8	79.4	68.6	57.8	57.8
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°	17593.5	17593.5	17593.5	17593.5	17593.5	17593.5	17593.5	17593.5	17593.5	17593.5
2.5°	15354.6	15668.8	16047.9	16701.6	17160.2	17654.9	18153.2	18684.1	18824.9	18969.4
5°	12447.6	13065.1	13401.0	14278.5	15199.3	16369.3	17326.3	18373.5	18810.5	18911.6
7.5°	9428.7	9847.6	10728.7	11617.1	12758.2	13986.0	15452.1	17084.3	17593.5	17806.6
10°	7475.1	8045.6	8818.4	9771.8	10772.1	12093.7	13747.6	15654.3	16376.6	16495.7
12.5°	6362.8	6998.4	7839.8	8847.3	9793.4	10790.1	12458.5	14426.5	15199.3	15455.7
15°	5088.1	5857.3	6828.7	7890.4	8919.5	10010.1	11700.1	13921.0	14812.9	15112.7
17.5°	3997.5	4618.7	5669.5	6821.5	8042.0	9421.5	11541.2	14162.9	15260.7	15538.8
20°	3058.6	3502.8	4387.5	5604.5	7034.5	8840.1	11581.0	15076.5	16391.0	16770.2
22.5°	2643.4	2870.9	3408.9	4568.1	6167.8	8334.5	11743.5	16329.6	17914.9	18546.9
25°	2394.2	2513.4	2816.7	3575.0	5340.9	7843.4	12115.4	18016.0	20045.5	20464.4
27.5°	2181.1	2267.8	2455.6	3000.9	4589.8	7388.4	12548.7	19886.6	22035.2	22660.0
30°	1978.9	2094.5	2271.4	2665.0	4109.5	6973.1	13094.0	21403.3	23710.8	24292.2
32.5°	1823.6	1939.2	2101.7	2430.3	3701.4	6536.2	13419.0	22735.8	25079.4	25574.2
35°	1697.2	1794.7	1964.5	2242.5	3390.9	6204.0	13354.0	23793.9	26404.7	26910.3
37.5°	1607.0	1690.0	1859.7	2065.6	3156.1	5857.3	13321.5	25191.4	28018.9	28603.9
40°	1523.9	1610.6	1765.9	1950.0	2921.4	5449.2	13339.6	26578.1	29737.8	30322.8
42.5°	1458.9	1556.4	1682.8	1917.5	2679.5	5120.6	13339.6	27784.2	31232.8	31796.2
45°	1404.7	1509.5	1632.2	1913.9	2488.1	4871.4	13249.3	28820.6	32424.5	32904.8
47.5°	1357.8	1473.3	1650.3	1848.9	2441.1	4690.9	13169.9	29651.1	33395.9	33847.3
50°	1325.3	1462.5	1755.0	1773.1	2455.6	4636.7	13552.6	30698.4	34251.7	34641.7
52.5°	1300.0	1466.1	1751.4	1661.1	2430.3	4672.8	14350.7	32334.2	35439.8	35468.7
55°	1249.5	1462.5	1661.1	1534.7	2325.6	4734.2	15376.3	34710.4	37299.5	37321.2
57.5°	1198.9	1422.8	1542.0	1426.4	2112.5	4734.2	16611.3	36960.1	39542.1	39560.1
60°	1148.3	1480.6	1354.2	1332.5	1834.5	4647.5	17914.9	37949.6	40246.2	40430.4
62.5°	1097.8	1491.4	1209.7	1249.5	1632.2	4438.1	18886.3	36855.4	39292.9	39556.5
65°	1040.0	1202.5	1115.8	1162.8	1527.5	4087.8	18579.4	34851.2	37501.8	37815.9
67.5°	971.4	1018.3	1014.7	1072.5	1491.4	3571.4	16961.6	32316.2	35573.4	35555.4
70°	888.3	913.6	924.5	985.8	1422.8	3170.6	14134.0	29026.4	32998.7	33403.1
72.5°	801.7	823.3	834.2	888.3	1354.2	2943.1	10970.7	24494.4	28582.2	29214.2
75°	707.8	722.2	736.7	783.6	1282.0	2607.2	7814.5	18698.5	21890.8	22883.8
77.5°	610.3	610.3	628.3	675.3	1079.7	2152.2	5243.4	13115.7	14831.0	15845.7
80°	494.7	498.3	491.1	541.7	794.5	1473.3	2979.2	8760.6	9869.3	10064.3
82.5°	379.2	368.3	371.9	397.2	592.2	1003.9	1588.9	5442.0	5546.7	5438.4
85°	238.3	238.3	231.1	260.0	379.2	523.6	866.7	3333.1	2603.6	2477.2
87.5°	97.5	79.4	90.3	104.7	180.6	213.1	339.4	686.1	263.6	241.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)