

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: P458236

Luminaire Tested: **GALN-SA9C-827-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458236
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-827-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 40386 lumens
Efficiency: N/A
Efficacy: 84.0 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

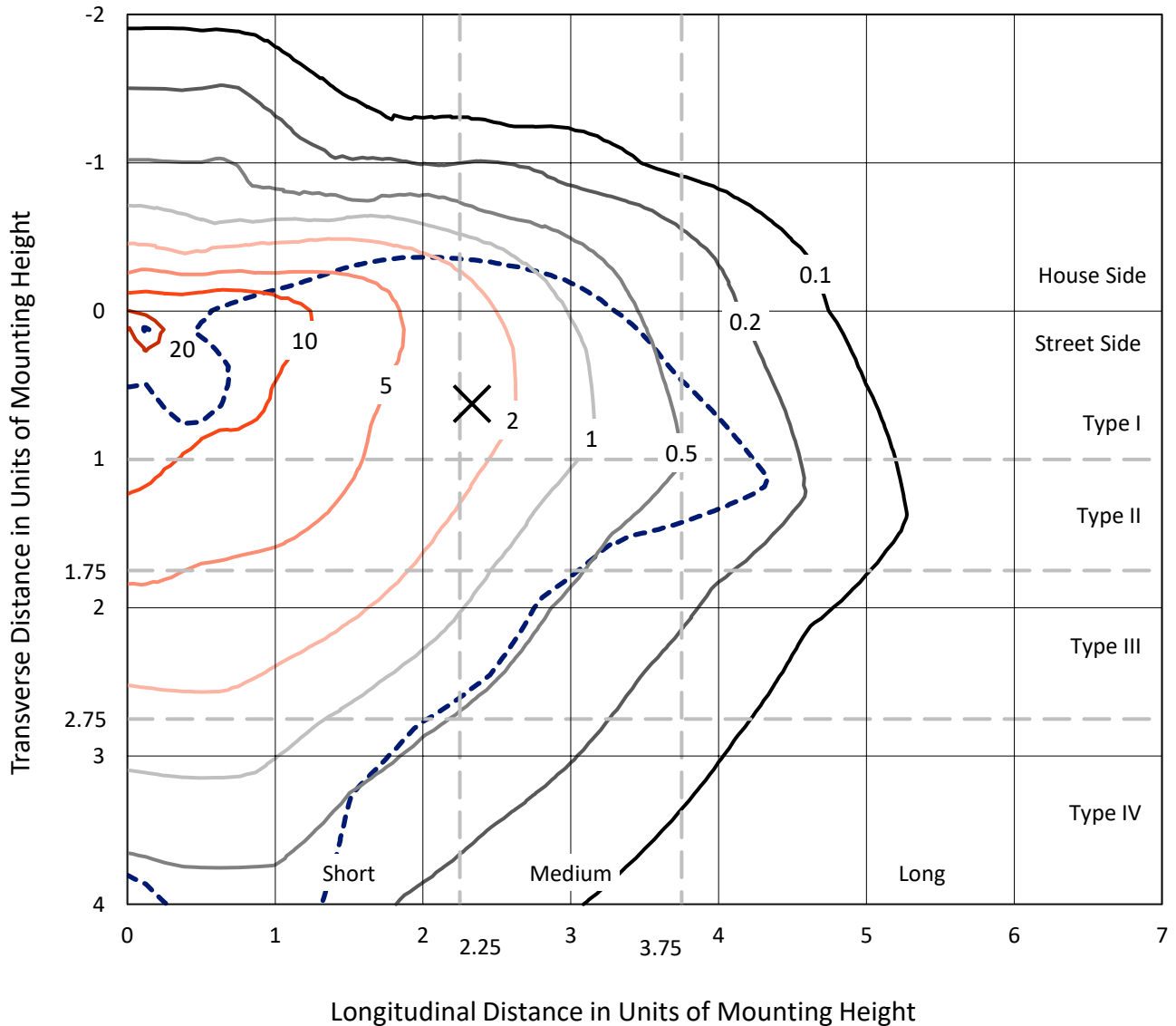
Input Watts (W): 481
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

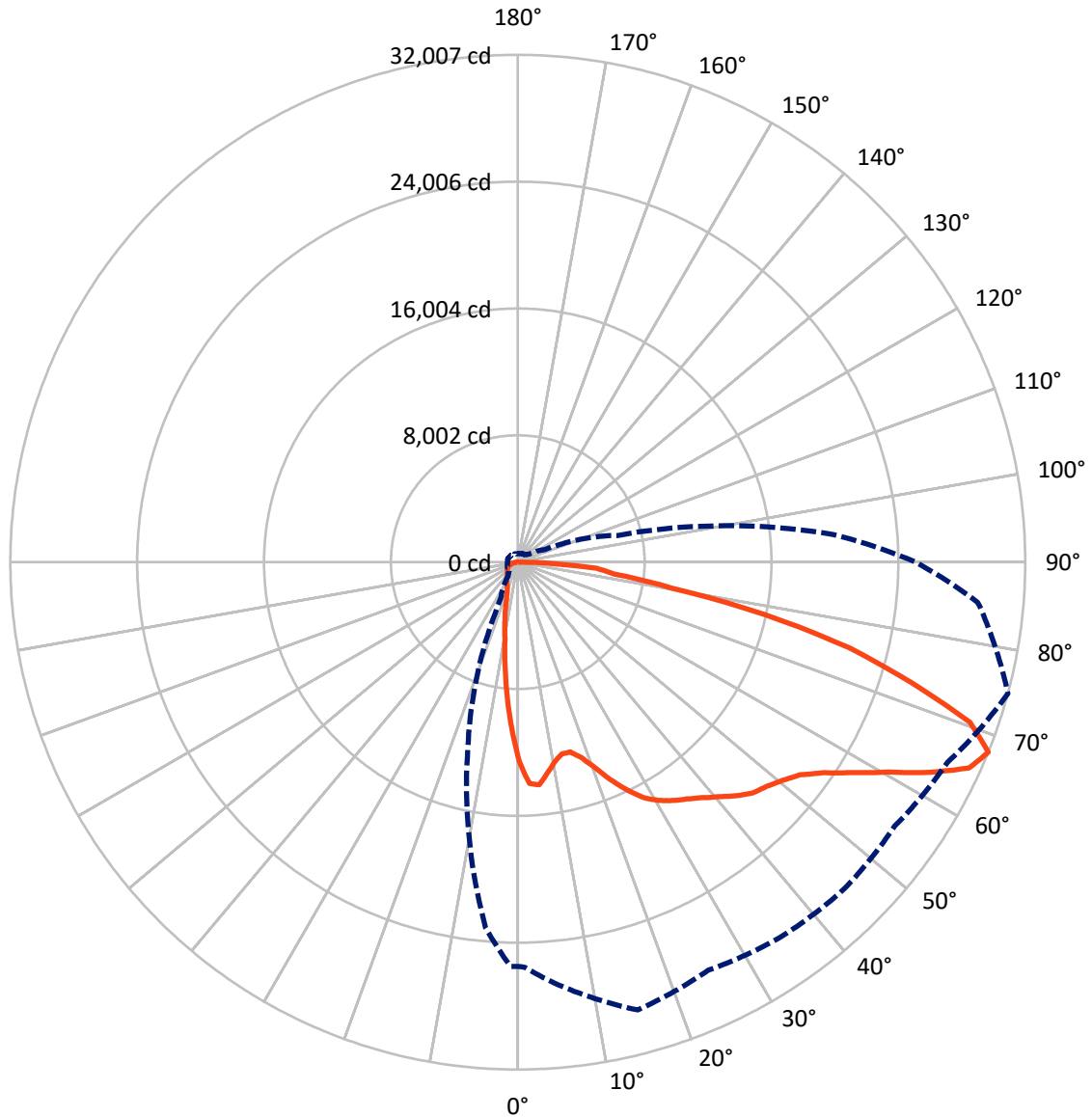
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.9 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	6826.1	0.0	6826.1
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	33559.9	0.0	33559.9
	% Fixture	83.1	0.0	83.1
Total	Lumens	40386.0	0.0	40386.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	957.0	2.4
10°-20°	1995.9	4.9
20°-30°	2872.1	7.1
30°-40°	4136.6	10.2
40°-50°	5810.8	14.4
50°-60°	8104.0	20.1
60°-70°	9635.1	23.9
70°-80°	5674.6	14.1
80°-90°	1200.0	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°	40386.0	100.0
0°-180°	40386.0	100.0



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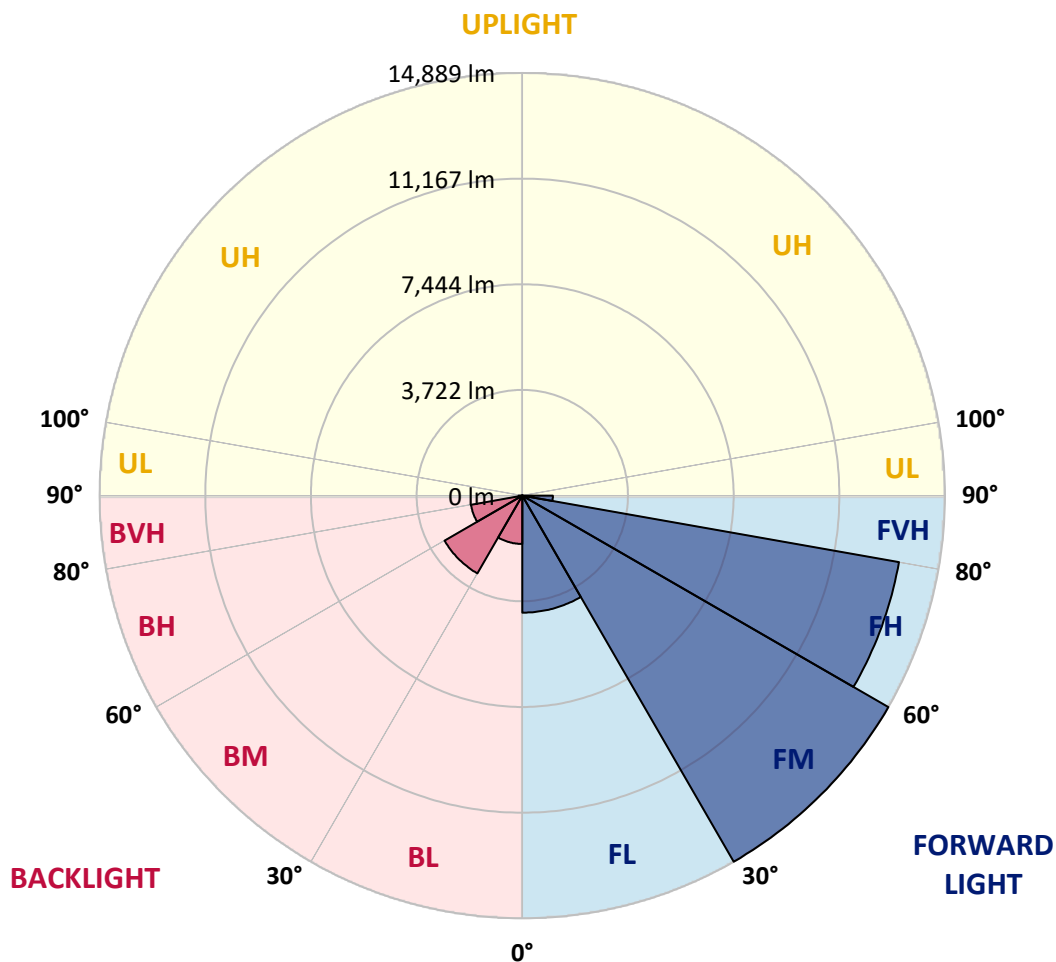
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4122.3	10.2			
FM	(30°-60°)	14888.8	36.9			
FH	(60°-80°)	13472.9	33.4			G5
FVH	(80°-90°)	1075.8	2.7			G5
BL	(0°-30°)	1702.6	4.2	B3/2500		
BM	(30°-60°)	3162.6	7.8	B3/5000		
BH	(60°-80°)	1836.8	4.5	B3/2500		G3/2500
BVH	(80°-90°)	124.1	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	12617.5	12617.5	12617.5	12617.5	12617.5	12617.5	12617.5	12617.5	12617.5	12617.5	12617.5
2.5°	13604.3	13622.4	13738.9	14078.2	14311.3	14396.7	14456.3	14344.9	14236.2	13972.0	13573.2
5°	13562.8	13669.0	13972.0	14733.4	15334.3	15593.2	15670.9	15336.8	14785.2	14106.7	13290.9
7.5°	12770.3	12912.8	13378.9	14655.7	15715.0	16321.0	16240.7	15637.3	14642.8	13433.3	12293.8
10°	11830.2	11988.2	12550.2	14093.7	15458.6	16292.5	16292.5	15557.0	14236.2	12798.8	11485.8
12.5°	11084.4	11250.1	11892.4	13516.2	14925.1	15715.0	15847.0	15215.1	13943.5	12397.4	10954.9
15°	10838.3	10998.9	11690.4	13166.6	14360.5	14842.2	14886.2	14679.0	13801.1	12425.9	10931.6
17.5°	11143.9	11351.1	12050.4	13270.2	13842.5	13871.0	13904.7	14067.8	13816.6	12946.4	11402.9
20°	12027.1	12249.8	12980.1	13604.3	13389.3	13094.1	13112.2	13531.7	14000.5	13806.3	12529.5
22.5°	13301.3	13495.5	14243.9	14192.1	13197.7	12589.1	12462.2	13047.5	14272.4	14878.4	13728.6
25°	14676.4	14904.3	15764.2	15064.9	13252.0	12288.6	12208.4	12762.6	14554.7	15880.7	15114.1
27.5°	16251.0	16473.8	17152.3	15945.4	13536.9	12265.3	12169.5	12736.7	14808.5	16807.9	16437.5
30°	17421.6	17626.2	18087.2	16686.1	13886.5	12420.7	12301.6	12941.3	15026.1	17442.4	17727.2
32.5°	18341.0	18553.4	18804.6	17147.1	14347.5	12703.0	12482.9	13314.2	15310.9	17926.6	18682.9
35°	19299.2	19550.5	19532.3	17556.3	14777.4	13029.3	12814.4	13852.9	15759.0	18348.8	19894.9
37.5°	20513.9	20614.9	20485.4	17924.1	15292.8	13617.2	13498.1	14653.1	16396.1	18859.0	21311.5
40°	21746.6	21948.6	21283.0	18369.5	15919.5	14723.1	14710.1	15836.7	17152.3	19457.2	22684.1
42.5°	22803.3	22974.2	22028.9	18758.0	16678.4	16072.3	16170.8	17424.2	18144.2	20151.3	23787.4
45°	23598.3	23751.1	22717.8	19133.5	17678.0	17631.4	18211.5	19125.7	19395.1	20775.4	24434.8
47.5°	24274.3	24421.9	23196.9	19703.3	18913.4	19493.5	20503.5	20899.7	20464.7	21132.8	25160.0
50°	24844.0	24888.1	23525.8	20381.8	20446.5	21775.1	22754.0	23010.4	21521.3	21645.6	25789.3
52.5°	25437.1	25380.1	24093.0	21236.4	22104.0	23940.2	24652.4	24919.1	22533.9	22277.5	26706.1
55°	26765.7	26820.0	25364.6	22313.8	23779.6	26066.4	27003.9	26747.5	23655.3	23440.3	27871.5
57.5°	28371.3	28324.7	27154.1	23999.7	25486.3	28045.0	28744.3	28332.5	25152.2	25038.3	29052.5
60°	28995.5	29057.6	28651.0	25812.6	27169.7	29777.6	30492.4	29852.7	26946.9	26895.2	29943.4
62.5°	28368.8	28718.4	28992.9	27426.1	28604.4	31051.8	31761.4	31031.1	28819.4	29194.9	30567.5
65°	27120.5	27195.6	28130.5	28793.5	29295.9	31261.6	31631.9	31243.4	30383.6	31290.1	30539.0
67.5°	25499.2	25564.0	26659.5	29241.5	28405.0	28878.9	29137.9	29024.0	29899.3	32007.4	29132.7
70°	23955.7	23903.9	25061.6	28099.4	24727.5	24007.5	24222.5	23865.1	25799.7	30254.1	26374.6
72.5°	20951.5	21138.0	22381.1	24924.3	19578.9	18408.4	18877.1	17952.5	19843.1	25911.0	21407.3
75°	16411.6	16455.6	18530.1	20917.9	14769.7	12923.1	13557.6	13171.8	15199.6	21614.5	14782.6
77.5°	11364.1	11265.7	13495.5	15976.5	10532.7	9460.6	9470.9	9287.0	10613.0	15914.4	10043.3
80°	7217.8	7067.6	8448.0	9869.8	7238.5	7743.5	7489.7	7482.0	6909.6	9818.0	6073.1
82.5°	3900.3	4066.0	5337.6	6187.1	5192.6	5985.0	5485.2	5324.6	4741.9	6145.6	3884.7
85°	1776.6	1932.0	2846.2	4208.4	3944.3	3988.3	2664.9	3144.0	3923.6	4990.6	2074.4
87.5°	173.5	222.7	587.9	1986.4	1346.7	1061.8	396.2	764.0	986.7	1774.0	165.7
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°	12617.5	12617.5	12617.5	12617.5	12617.5	12617.5	12617.5	12617.5	12617.5	12617.5	12617.5
2.5°	13410.0	13275.4	12817.0	12438.8	12037.4	11731.8	11333.0	11066.2	10882.4	10605.3	10571.6
5°	12793.6	12464.7	11667.1	10853.9	10152.0	9623.7	9087.6	8595.6	8305.5	8214.9	8098.3
7.5°	11755.1	11200.9	10175.4	9243.0	8437.6	7650.3	7044.3	6614.4	6326.9	6158.6	5956.6
10°	10900.5	10258.2	9009.9	7867.8	7204.8	6715.4	6181.9	5720.9	5366.1	5063.1	4897.3
12.5°	10325.6	9600.4	8196.7	7269.6	6756.8	6236.3	5612.1	5094.2	4571.0	4226.6	4078.9
15°	10152.0	9385.5	7945.5	6971.8	6236.3	5555.1	4855.9	4179.9	3662.0	3335.7	3226.9
17.5°	10576.8	9649.6	7942.9	6575.5	5625.1	4811.9	3915.8	3281.3	2750.4	2506.9	2429.2
20°	11369.3	10157.2	7966.2	6184.5	4962.1	3817.4	2848.8	2328.2	2074.4	1970.8	1932.0
22.5°	12475.1	10931.6	8036.2	5798.6	4236.9	2931.7	2134.0	1869.8	1779.2	1761.1	1753.3
25°	13837.3	11889.8	8271.8	5451.5	3625.7	2237.6	1784.4	1665.2	1613.5	1595.3	1592.7
27.5°	15090.8	13127.7	8556.7	5153.7	3035.3	1929.4	1613.5	1512.4	1460.7	1458.1	1463.2
30°	16222.6	14163.7	8795.0	4819.6	2587.2	1714.5	1502.1	1401.1	1351.9	1349.3	1364.8
32.5°	17201.5	15015.7	8971.1	4490.7	2338.6	1582.4	1401.1	1292.3	1250.9	1243.1	1250.9
35°	18247.8	15865.2	8890.8	4234.3	2196.2	1473.6	1326.0	1219.8	1170.6	1147.3	1147.3
37.5°	19441.7	16740.5	8753.5	4022.0	2131.4	1383.0	1261.2	1157.6	1108.4	1085.1	1082.5
40°	20744.4	17615.9	8564.5	3832.9	2066.7	1328.6	1217.2	1108.4	1048.9	1025.6	1020.4
42.5°	21894.2	18364.3	8409.1	3708.6	1960.5	1338.9	1178.4	1072.2	997.1	966.0	963.4
45°	22893.9	19118.0	8380.6	3636.1	1872.4	1323.4	1168.0	1043.7	955.6	922.0	916.8
47.5°	23676.0	19902.7	8543.8	3594.7	1776.6	1240.5	1235.3	1025.6	919.4	883.1	877.9
50°	24629.1	21016.3	8916.7	3509.2	1688.6	1162.8	1305.3	1023.0	890.9	844.3	831.3
52.5°	25898.1	22466.6	9421.7	3356.4	1561.7	1090.3	1245.7	1023.0	857.2	810.6	795.1
55°	27817.1	24315.7	9916.4	3141.4	1383.0	994.5	1124.0	991.9	808.0	766.6	756.2
57.5°	29088.7	25667.6	10232.3	2843.6	1160.2	924.6	968.6	942.7	758.8	714.8	714.8
60°	29153.5	26030.2	10082.1	2468.1	1020.4	859.8	841.7	950.5	714.8	668.2	663.0
62.5°	28407.6	25141.9	9300.0	2131.4	945.3	789.9	761.4	833.9	670.8	624.1	616.4
65°	27242.2	22875.8	7942.9	1970.8	903.8	727.7	686.3	683.7	624.1	580.1	569.8
67.5°	25100.4	19990.7	6526.3	1877.6	883.1	657.8	619.0	606.0	569.8	533.5	528.3
70°	21943.4	16743.1	5234.0	1838.8	872.8	585.3	554.2	538.7	507.6	479.1	476.5
72.5°	17072.0	13581.0	4319.8	1812.9	867.6	518.0	484.3	463.6	445.4	419.5	419.5
75°	12262.7	9991.5	3296.8	1634.2	802.8	445.4	409.2	396.2	370.3	349.6	354.8
77.5°	7730.6	6728.3	2170.3	1201.7	621.6	357.4	326.3	318.5	297.8	269.3	287.5
80°	5221.1	4731.6	1266.4	756.2	391.1	261.6	251.2	248.6	225.3	194.2	196.8
82.5°	3553.2	3485.9	657.8	429.9	225.3	152.8	147.6	152.8	126.9	103.6	103.6
85°	1388.1	1895.7	310.8	168.3	72.5	23.3	33.7	36.3	20.7	10.4	12.9
87.5°	25.9	194.2	7.8	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°	12617.5	12617.5	12617.5	12617.5	12617.5	12617.5	12617.5	12617.5	12617.5	12617.5	12617.5
2.5°	10519.8	10496.5	10535.3	10369.6	10403.3	10465.4	10496.5	10514.6	10771.0	10711.4	10874.6
5°	8207.1	8183.8	8334.0	8354.7	8432.4	8416.9	8492.0	8510.1	8603.3	8637.0	8864.9
7.5°	5969.5	6070.5	6241.4	6329.5	6461.6	6503.0	6464.2	6560.0	6365.7	6505.6	6547.0
10°	4796.3	4674.6	4602.1	4804.1	4830.0	5021.6	4943.9	4881.8	4995.7	5000.9	5109.7
12.5°	3993.5	3731.9	3558.4	3615.4	3677.5	3760.4	3773.3	3897.7	3980.5	4058.2	4123.0
15°	3131.1	3040.4	2882.5	2804.8	2892.8	2926.5	3006.8	3110.4	3198.4	3221.7	3309.8
17.5°	2403.3	2418.9	2393.0	2346.4	2400.8	2426.6	2431.8	2434.4	2457.7	2442.2	2571.7
20°	1934.6	1989.0	2053.7	2064.1	2082.2	2095.2	2071.8	1983.8	1986.4	2040.8	2082.2
22.5°	1750.7	1761.1	1833.6	1856.9	1913.9	1890.6	1823.2	1781.8	1776.6	1789.6	1810.3
25°	1605.7	1621.2	1673.0	1709.3	1753.3	1711.9	1662.7	1623.8	1618.6	1631.6	1652.3
27.5°	1476.2	1499.5	1546.1	1582.4	1623.8	1585.0	1538.3	1504.7	1502.1	1499.5	1512.4
30°	1372.6	1398.5	1432.2	1473.6	1502.1	1468.4	1424.4	1406.3	1403.7	1398.5	1403.7
32.5°	1269.0	1310.4	1344.1	1364.8	1393.3	1367.4	1333.8	1323.4	1305.3	1289.7	1282.0
35°	1152.5	1196.5	1248.3	1274.2	1302.7	1276.8	1253.5	1209.4	1178.4	1175.8	1181.0
37.5°	1085.1	1103.3	1144.7	1188.7	1217.2	1204.3	1160.2	1116.2	1108.4	1108.4	1113.6
40°	1025.6	1033.3	1051.5	1108.4	1160.2	1121.4	1067.0	1054.1	1054.1	1051.5	1054.1
42.5°	966.0	973.8	973.8	1017.8	1100.7	1038.5	997.1	997.1	997.1	999.7	1007.4
45°	911.6	914.2	911.6	942.7	1020.4	968.6	940.1	947.9	953.0	958.2	963.4
47.5°	865.0	867.6	865.0	890.9	929.7	909.0	893.5	903.8	914.2	922.0	927.2
50°	823.6	821.0	826.1	841.7	859.8	865.0	854.6	870.2	875.4	885.7	898.7
52.5°	787.3	784.7	789.9	797.7	823.6	823.6	823.6	836.5	846.9	857.2	875.4
55°	745.9	748.5	756.2	766.6	800.3	795.1	797.7	808.0	818.4	833.9	844.3
57.5°	707.0	712.2	722.6	738.1	771.8	769.2	771.8	776.9	789.9	797.7	808.0
60°	663.0	673.3	686.3	696.7	730.3	727.7	740.7	751.0	758.8	758.8	764.0
62.5°	619.0	634.5	647.5	655.2	691.5	694.1	712.2	720.0	725.1	720.0	727.7
65°	574.9	598.2	603.4	613.8	650.0	652.6	673.3	691.5	686.3	681.1	694.1
67.5°	530.9	559.4	556.8	569.8	606.0	611.2	629.3	660.4	650.0	644.9	655.2
70°	481.7	502.4	505.0	512.8	562.0	554.2	582.7	611.2	603.4	606.0	606.0
72.5°	427.3	445.4	445.4	461.0	512.8	499.8	523.1	554.2	554.2	551.6	551.6
75°	362.6	372.9	383.3	406.6	461.0	445.4	461.0	489.5	494.7	489.5	489.5
77.5°	292.6	308.2	313.4	344.4	383.3	380.7	396.2	409.2	419.5	414.4	414.4
80°	207.2	222.7	243.4	277.1	300.4	308.2	316.0	326.3	331.5	331.5	336.7
82.5°	116.5	139.8	158.0	191.6	202.0	240.9	238.3	246.0	238.3	209.8	233.1
85°	25.9	49.2	69.9	88.1	101.0	139.8	147.6	165.7	137.3	126.9	126.9
87.5°	0.0	0.0	0.0	0.0	0.0	20.7	41.4	57.0	49.2	41.4	41.4
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°	12617.5	12617.5	12617.5	12617.5	12617.5	12617.5	12617.5	12617.5	12617.5	12617.5
2.5°	11011.9	11237.2	11509.1	11977.9	12306.8	12661.6	13019.0	13399.7	13500.7	13604.3
5°	8927.1	9369.9	9610.8	10240.1	10900.5	11739.6	12425.9	13176.9	13490.3	13562.8
7.5°	6762.0	7062.4	7694.3	8331.4	9149.8	10030.3	11081.8	12252.4	12617.5	12770.3
10°	5360.9	5770.1	6324.3	7008.0	7725.4	8673.3	9859.4	11226.8	11744.8	11830.2
12.5°	4563.2	5019.0	5622.5	6345.0	7023.6	7738.3	8934.8	10346.3	10900.5	11084.4
15°	3649.0	4200.7	4897.3	5658.7	6396.8	7178.9	8391.0	9983.7	10623.4	10838.3
17.5°	2866.9	3312.4	4066.0	4892.1	5767.5	6756.8	8277.0	10157.2	10944.5	11143.9
20°	2193.6	2512.1	3146.6	4019.4	5044.9	6339.8	8305.5	10812.4	11755.1	12027.1
22.5°	1895.7	2058.9	2444.8	3276.1	4423.4	5977.3	8422.1	11711.1	12848.0	13301.3
25°	1717.0	1802.5	2020.0	2563.9	3830.3	5625.1	8688.8	12920.5	14376.0	14676.4
27.5°	1564.2	1626.4	1761.1	2152.1	3291.6	5298.7	8999.6	14262.1	15803.0	16251.0
30°	1419.2	1502.1	1629.0	1911.3	2947.2	5000.9	9390.6	15349.8	17004.7	17421.6
32.5°	1307.9	1390.7	1507.3	1742.9	2654.6	4687.6	9623.7	16305.4	17986.2	18341.0
35°	1217.2	1287.1	1408.9	1608.3	2431.8	4449.3	9577.1	17064.2	18936.7	19299.2
37.5°	1152.5	1212.0	1333.8	1481.4	2263.5	4200.7	9553.8	18066.5	20094.3	20513.9
40°	1092.9	1155.1	1266.4	1398.5	2095.2	3908.0	9566.7	19061.0	21327.1	21746.6
42.5°	1046.3	1116.2	1206.9	1375.2	1921.6	3672.3	9566.7	19926.0	22399.2	22803.3
45°	1007.4	1082.5	1170.6	1372.6	1784.4	3493.7	9502.0	20669.3	23253.9	23598.3
47.5°	973.8	1056.6	1183.5	1326.0	1750.7	3364.2	9445.0	21264.9	23950.5	24274.3
50°	950.5	1048.9	1258.6	1271.6	1761.1	3325.3	9719.5	22016.0	24564.3	24844.0
52.5°	932.3	1051.5	1256.1	1191.3	1742.9	3351.2	10291.9	23189.1	25416.4	25437.1
55°	896.1	1048.9	1191.3	1100.7	1667.8	3395.2	11027.4	24893.2	26750.1	26765.7
57.5°	859.8	1020.4	1105.8	1023.0	1515.0	3395.2	11913.1	26506.7	28358.4	28371.3
60°	823.6	1061.8	971.2	955.6	1315.6	3333.1	12848.0	27216.3	28863.4	28995.5
62.5°	787.3	1069.6	867.6	896.1	1170.6	3182.9	13544.7	26431.6	28179.7	28368.8
65°	745.9	862.4	800.3	833.9	1095.5	2931.7	13324.6	24994.2	26895.2	27120.5
67.5°	696.7	730.3	727.7	769.2	1069.6	2561.3	12164.3	23176.2	25512.2	25499.2
70°	637.1	655.2	663.0	707.0	1020.4	2273.9	10136.5	20816.9	23665.7	23955.7
72.5°	574.9	590.5	598.2	637.1	971.2	2110.7	7867.8	17566.7	20498.3	20951.5
75°	507.6	518.0	528.3	562.0	919.4	1869.8	5604.3	13410.0	15699.4	16411.6
77.5°	437.7	437.7	450.6	484.3	774.4	1543.5	3760.4	9406.2	10636.3	11364.1
80°	354.8	357.4	352.2	388.5	569.8	1056.6	2136.6	6282.9	7077.9	7217.8
82.5°	271.9	264.2	266.8	284.9	424.7	720.0	1139.5	3902.8	3977.9	3900.3
85°	170.9	170.9	165.7	186.5	271.9	375.5	621.6	2390.4	1867.3	1776.6
87.5°	69.9	57.0	64.7	75.1	129.5	152.8	243.4	492.1	189.1	173.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)