

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: P459483

Luminaire Tested: **GALN-SA9B-735-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459483  
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-SA9B-735-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 800mA 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: 41421 lumens  
Efficiency: N/A  
Efficacy: 113.8 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

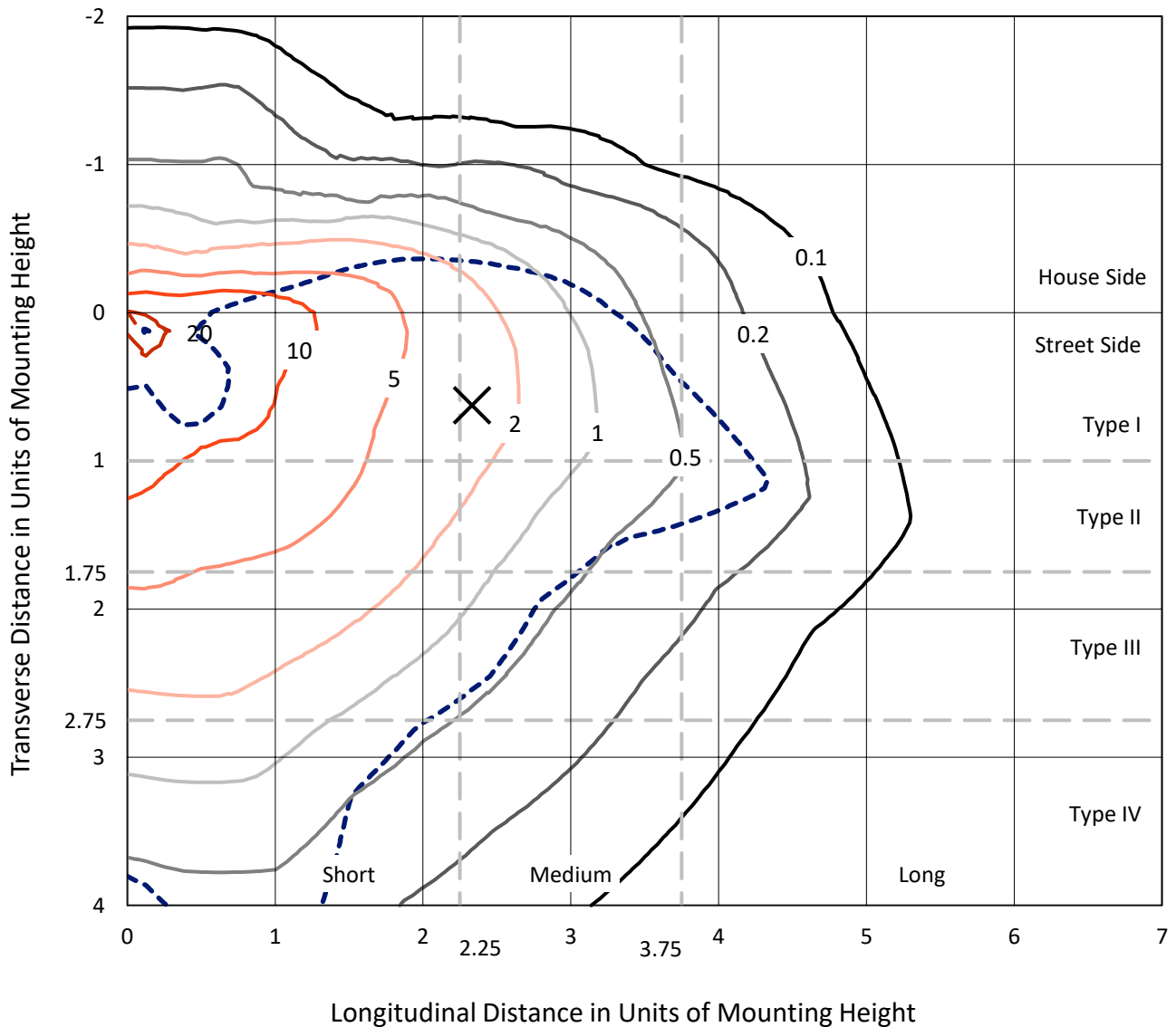
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

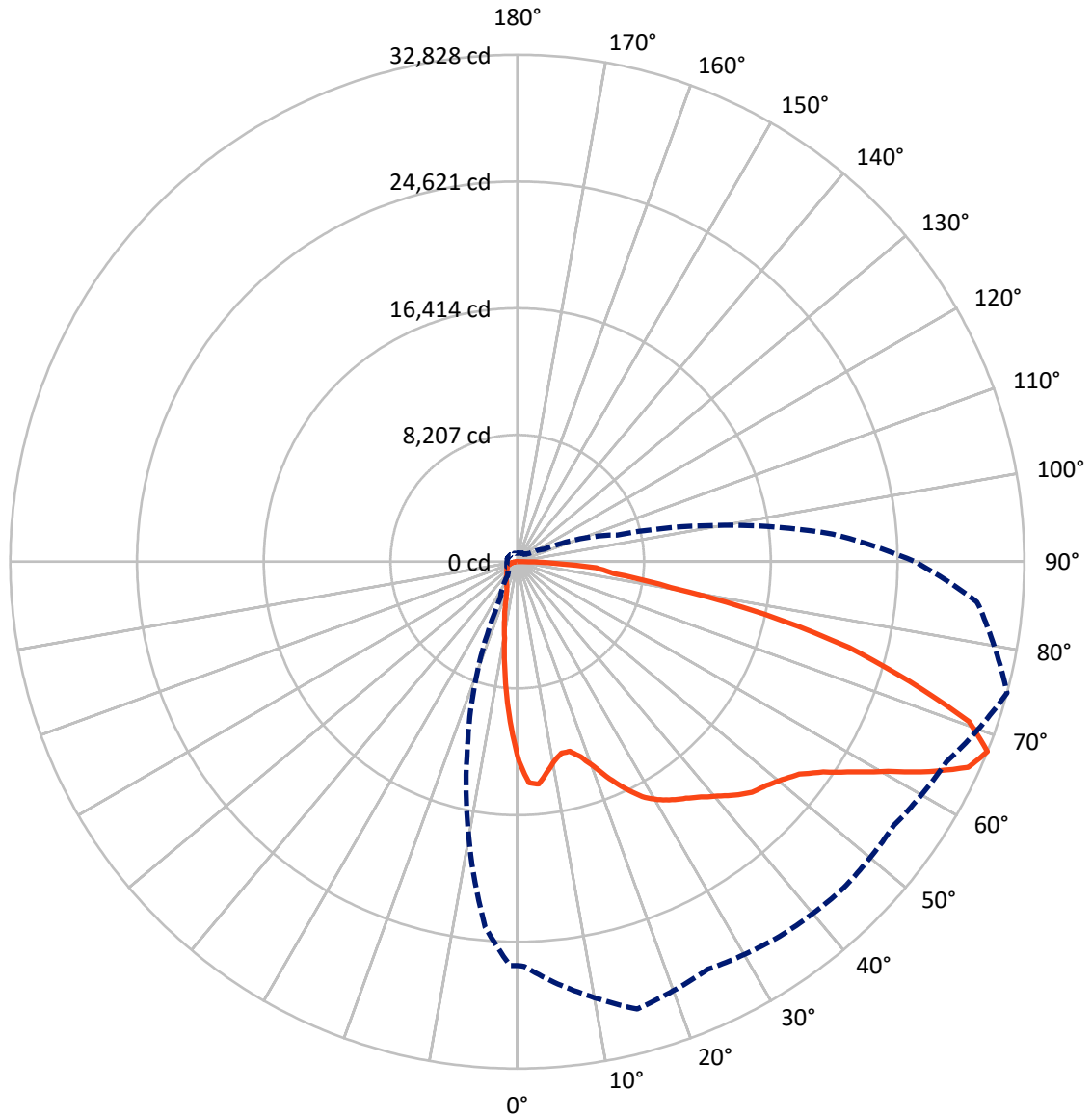
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.5 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
<b>House Side</b>	Lumens	7001.0	0.0	7001.0
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	34420.0	0.0	34420.0
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	41421.0	0.0	41421.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	981.5	2.4
10°-20°	2047.0	4.9
20°-30°	2945.7	7.1
30°-40°	4242.6	10.2
40°-50°	5959.7	14.4
50°-60°	8311.7	20.1
60°-70°	9882.1	23.9
70°-80°	5820.0	14.1
80°-90°	1230.7	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°	41421.0	100.0
0°-180°	41421.0	100.0

**Coefficient of Utilization**



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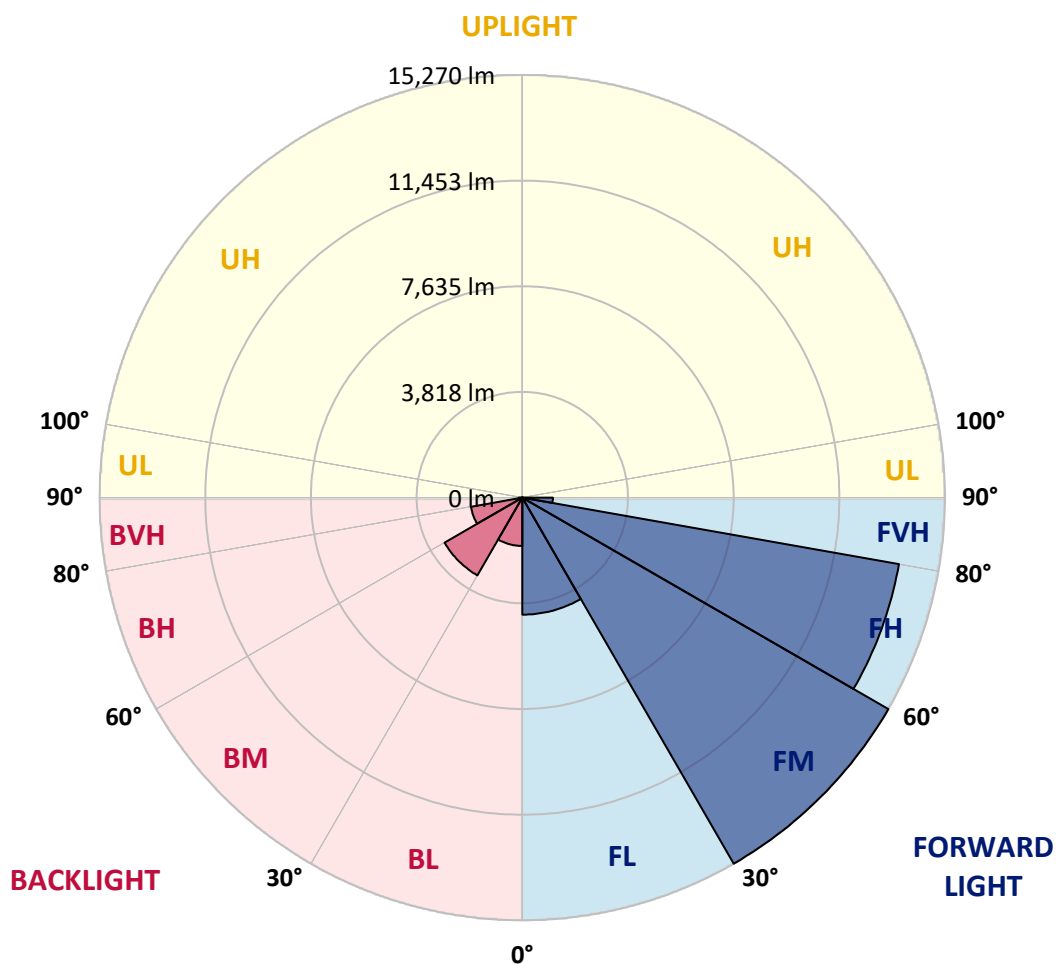
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4228.0	10.2			
FM	(30°-60°)	15270.4	36.9			
FH	(60°-80°)	13818.2	33.4			G5
FVH	(80°-90°)	1103.4	2.7			G5
BL	(0°-30°)	1746.3	4.2	B3/2500		
BM	(30°-60°)	3243.6	7.8	B3/5000		
BH	(60°-80°)	1883.8	4.5	B3/2500		G3/2500
BVH	(80°-90°)	127.3	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°	12940.9	12940.9	12940.9	12940.9	12940.9	12940.9	12940.9	12940.9	12940.9	12940.9	12940.9
2.5°	13952.9	13971.5	14091.0	14439.0	14678.0	14765.7	14826.8	14712.6	14601.0	14330.1	13921.0
5°	13910.4	14019.3	14330.1	15111.0	15727.2	15992.8	16072.5	15729.9	15164.1	14468.2	13631.5
7.5°	13097.6	13243.7	13721.8	15031.3	16117.7	16739.2	16656.9	16038.0	15018.0	13777.6	12608.9
10°	12133.4	12295.4	12871.8	14454.9	15854.7	16710.0	16710.0	15955.7	14601.0	13126.8	11780.2
12.5°	11368.4	11538.4	12197.2	13862.6	15307.6	16117.7	16253.2	15605.0	14300.9	12715.1	11235.6
15°	11116.1	11280.8	11990.0	13504.0	14728.5	15222.6	15267.7	15055.2	14154.8	12744.3	11211.7
17.5°	11429.5	11642.0	12359.2	13610.3	14197.3	14226.5	14261.0	14428.4	14170.7	13278.2	11695.2
20°	12335.3	12563.7	13312.8	13952.9	13732.4	13429.6	13448.2	13878.5	14359.3	14160.1	12850.6
22.5°	13642.1	13841.3	14609.0	14555.9	13535.9	12911.7	12781.5	13381.8	14638.2	15259.7	14080.4
25°	15052.6	15286.3	16168.2	15451.0	13591.7	12603.6	12521.2	13089.6	14927.7	16287.7	15501.5
27.5°	16667.5	16896.0	17591.9	16354.1	13883.8	12579.7	12481.4	13063.1	15188.0	17238.6	16858.8
30°	17868.1	18077.9	18550.7	17113.8	14242.4	12739.0	12616.8	13272.9	15411.1	17889.4	18181.5
32.5°	18811.1	19028.9	19286.5	17586.6	14715.2	13028.6	12802.8	13655.4	15703.3	18386.1	19161.7
35°	19793.8	20051.5	20032.9	18006.2	15156.2	13363.2	13142.8	14207.9	16162.8	18819.0	20404.8
37.5°	21039.6	21143.2	21010.4	18383.4	15684.7	13966.2	13844.0	15028.7	16816.3	19342.3	21857.7
40°	22303.9	22511.1	21828.5	18840.3	16327.5	15100.4	15087.1	16242.5	17591.9	19955.9	23265.5
42.5°	23387.6	23563.0	22593.5	19238.7	17105.8	16484.2	16585.2	17870.8	18609.2	20667.7	24397.0
45°	24203.1	24359.8	23300.0	19623.8	18131.1	18083.3	18678.2	19615.9	19892.1	21307.9	25061.0
47.5°	24896.4	25047.8	23791.4	20208.2	19398.1	19993.1	21029.0	21435.4	20989.1	21674.4	25804.8
50°	25480.7	25525.9	24128.7	20904.1	20970.5	22333.1	23337.2	23600.1	22072.8	22200.3	26450.2
52.5°	26089.0	26030.5	24710.4	21780.7	22670.5	24553.7	25284.2	25557.7	23111.4	22848.4	27390.5
55°	27451.6	27507.4	26014.6	22885.6	24389.0	26734.4	27696.0	27433.0	24261.5	24041.1	28585.8
57.5°	29098.4	29050.6	27850.0	24614.8	26139.5	28763.8	29480.9	29058.6	25796.8	25679.9	29797.0
60°	29738.6	29802.3	29385.3	26474.1	27866.0	30540.7	31273.8	30617.8	27637.5	27584.4	30710.7
62.5°	29095.8	29454.4	29735.9	28128.9	29337.5	31847.6	32575.4	31826.3	29558.0	29943.1	31350.9
65°	27815.5	27892.5	28851.4	29531.4	30046.7	32062.7	32442.6	32044.1	31162.3	32091.9	31321.7
67.5°	26152.7	26219.1	27342.7	29990.9	29133.0	29619.0	29884.7	29767.8	30665.6	32827.7	29879.3
70°	24569.6	24516.5	25703.8	28819.5	25361.2	24622.8	24843.2	24476.7	26460.8	31029.5	27050.5
72.5°	21488.5	21679.7	22954.7	25563.1	20080.7	18880.1	19360.9	18412.6	20351.6	26575.1	21956.0
75°	16832.2	16877.4	19005.0	21454.0	15148.2	13254.3	13905.1	13509.3	15589.1	22168.5	15161.5
77.5°	11655.3	11554.4	13841.3	16386.0	10802.7	9703.0	9713.6	9525.1	10885.0	16322.2	10300.7
80°	7402.8	7248.7	8664.5	10122.7	7424.0	7942.0	7681.7	7673.7	7086.7	10069.6	6228.7
82.5°	4000.2	4170.2	5474.4	6345.6	5325.6	6138.4	5625.8	5461.1	4863.5	6303.1	3984.3
85°	1822.1	1981.5	2919.1	4316.3	4045.4	4090.5	2733.2	3224.6	4024.1	5118.5	2127.6
87.5°	178.0	228.4	603.0	2037.3	1381.2	1089.0	406.4	783.6	1012.0	1819.5	170.0
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°	12940.9	12940.9	12940.9	12940.9	12940.9	12940.9	12940.9	12940.9	12940.9	12940.9	12940.9
2.5°	13753.7	13615.6	13145.4	12757.6	12345.9	12032.5	11623.4	11349.8	11161.3	10877.1	10842.5
5°	13121.5	12784.2	11966.1	11132.0	10412.2	9870.4	9320.5	8815.9	8518.4	8425.4	8305.9
7.5°	12056.4	11488.0	10436.1	9479.9	8653.8	7846.4	7224.8	6783.9	6489.0	6316.4	6109.2
10°	11179.9	10521.1	9240.8	8069.5	7389.5	6887.5	6340.3	5867.5	5503.6	5192.8	5022.8
12.5°	10590.2	9846.5	8406.8	7455.9	6930.0	6396.1	5755.9	5224.7	4688.2	4334.9	4183.5
15°	10412.2	9626.0	8149.2	7150.4	6396.1	5697.5	4980.3	4287.1	3755.8	3421.2	3309.6
17.5°	10847.8	9896.9	8146.5	6744.0	5769.2	4935.2	4016.1	3365.4	2820.9	2571.2	2491.5
20°	11660.6	10417.5	8170.4	6343.0	5089.2	3915.2	2921.8	2387.9	2127.6	2021.4	1981.5
22.5°	12794.8	11211.7	8242.1	5947.2	4345.5	3006.8	2188.7	1917.8	1824.8	1806.2	1798.2
25°	14192.0	12194.5	8483.8	5591.3	3718.6	2294.9	1830.1	1707.9	1654.8	1636.2	1633.5
27.5°	15477.6	13464.2	8776.0	5285.8	3113.0	1978.9	1654.8	1551.2	1498.1	1495.4	1500.7
30°	16638.3	14526.6	9020.4	4943.1	2653.5	1758.4	1540.6	1437.0	1386.5	1383.9	1399.8
32.5°	17642.3	15400.5	9201.0	4605.8	2398.5	1622.9	1437.0	1325.4	1282.9	1275.0	1282.9
35°	18715.4	16271.7	9118.7	4342.9	2252.4	1511.4	1360.0	1251.1	1200.6	1176.7	1176.7
37.5°	19939.9	17169.5	8977.9	4125.0	2186.0	1418.4	1293.6	1187.3	1136.8	1112.9	1110.3
40°	21276.0	18067.3	8784.0	3931.1	2119.6	1362.6	1248.4	1136.8	1075.8	1051.8	1046.5
42.5°	22455.3	18835.0	8624.6	3803.6	2010.7	1373.2	1208.6	1099.7	1022.6	990.8	988.1
45°	23480.6	19607.9	8595.4	3729.3	1920.4	1357.3	1197.9	1070.4	980.1	945.6	940.3
47.5°	24282.8	20412.7	8762.7	3686.8	1822.1	1272.3	1267.0	1051.8	942.9	905.8	900.4
50°	25260.3	21554.9	9145.2	3599.1	1731.8	1192.6	1338.7	1049.2	913.7	865.9	852.6
52.5°	26561.8	23042.3	9663.2	3442.4	1601.7	1118.3	1277.6	1049.2	879.2	831.4	815.4
55°	28530.0	24938.9	10170.5	3221.9	1418.4	1020.0	1152.8	1017.3	828.7	786.2	775.6
57.5°	29834.2	26325.4	10494.6	2916.5	1190.0	948.3	993.4	966.8	778.3	733.1	733.1
60°	29900.6	26697.2	10340.5	2531.3	1046.5	881.9	863.3	974.8	733.1	685.3	680.0
62.5°	29135.6	25786.2	9538.3	2186.0	969.5	810.1	780.9	855.3	688.0	640.1	632.2
65°	27940.3	23462.0	8146.5	2021.4	927.0	746.4	703.9	701.2	640.1	595.0	584.4
67.5°	25743.7	20503.0	6693.6	1925.7	905.8	674.7	634.8	621.5	584.4	547.2	541.9
70°	22505.8	17172.2	5368.1	1885.9	895.1	600.3	568.4	552.5	520.6	491.4	488.7
72.5°	17509.5	13929.0	4430.5	1859.3	889.8	531.2	496.7	475.5	456.9	430.3	430.3
75°	12577.0	10247.5	3381.3	1676.0	823.4	456.9	419.7	406.4	379.8	358.6	363.9
77.5°	7928.7	6900.8	2225.9	1232.5	637.5	366.6	334.7	326.7	305.5	276.2	294.8
80°	5354.9	4852.8	1298.9	775.6	401.1	268.3	257.6	255.0	231.1	199.2	201.9
82.5°	3644.3	3575.2	674.7	440.9	231.1	156.7	151.4	156.7	130.2	106.2	106.2
85°	1423.7	1944.3	318.7	172.7	74.4	23.9	34.5	37.2	21.2	10.6	13.3
87.5°	26.6	199.2	8.0	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°	12940.9	12940.9	12940.9	12940.9	12940.9	12940.9	12940.9	12940.9	12940.9	12940.9	12940.9
2.5°	10789.4	10765.5	10805.3	10635.3	10669.9	10733.6	10765.5	10784.1	11047.0	10986.0	11153.3
5°	8417.4	8393.5	8547.6	8568.8	8648.5	8632.6	8709.6	8728.2	8823.8	8858.4	9092.1
7.5°	6122.5	6226.1	6401.4	6491.7	6627.2	6669.7	6629.8	6728.1	6528.9	6672.3	6714.8
10°	4919.2	4794.4	4720.0	4927.2	4953.8	5150.3	5070.6	5006.9	5123.8	5129.1	5240.6
12.5°	4095.8	3827.6	3649.6	3708.0	3771.8	3856.8	3870.1	3997.5	4082.5	4162.2	4228.6
15°	3211.3	3118.4	2956.3	2876.6	2967.0	3001.5	3083.8	3190.1	3280.4	3304.3	3394.6
17.5°	2464.9	2480.9	2454.3	2406.5	2462.3	2488.8	2494.2	2496.8	2520.7	2504.8	2637.6
20°	1984.2	2039.9	2106.3	2117.0	2135.6	2148.8	2124.9	2034.6	2037.3	2093.1	2135.6
22.5°	1795.6	1806.2	1880.6	1904.5	1962.9	1939.0	1869.9	1827.5	1822.1	1835.4	1856.7
25°	1646.8	1662.8	1715.9	1753.1	1798.2	1755.7	1705.3	1665.4	1660.1	1673.4	1694.6
27.5°	1514.0	1537.9	1585.7	1622.9	1665.4	1625.6	1577.8	1543.2	1540.6	1537.9	1551.2
30°	1407.8	1434.3	1468.9	1511.4	1540.6	1506.1	1460.9	1442.3	1439.6	1434.3	1439.6
32.5°	1301.5	1344.0	1378.6	1399.8	1429.0	1402.5	1367.9	1357.3	1338.7	1322.8	1314.8
35°	1182.0	1227.2	1280.3	1306.8	1336.1	1309.5	1285.6	1240.4	1208.6	1205.9	1211.2
37.5°	1112.9	1131.5	1174.0	1219.2	1248.4	1235.1	1190.0	1144.8	1136.8	1136.8	1142.2
40°	1051.8	1059.8	1078.4	1136.8	1190.0	1150.1	1094.3	1081.1	1081.1	1078.4	1081.1
42.5°	990.8	998.7	998.7	1043.9	1128.9	1065.1	1022.6	1022.6	1022.6	1025.3	1033.3
45°	935.0	937.6	935.0	966.8	1046.5	993.4	964.2	972.2	977.5	982.8	988.1
47.5°	887.2	889.8	887.2	913.7	953.6	932.3	916.4	927.0	937.6	945.6	950.9
50°	844.7	842.0	847.3	863.3	881.9	887.2	876.5	892.5	897.8	908.4	921.7
52.5°	807.5	804.8	810.1	818.1	844.7	844.7	844.7	857.9	868.6	879.2	897.8
55°	765.0	767.6	775.6	786.2	820.8	815.4	818.1	828.7	839.4	855.3	865.9
57.5°	725.1	730.4	741.1	757.0	791.5	788.9	791.5	796.9	810.1	818.1	828.7
60°	680.0	690.6	703.9	714.5	749.0	746.4	759.7	770.3	778.3	778.3	783.6
62.5°	634.8	650.8	664.0	672.0	709.2	711.9	730.4	738.4	743.7	738.4	746.4
65°	589.7	613.6	618.9	629.5	666.7	669.4	690.6	709.2	703.9	698.6	711.9
67.5°	544.5	573.7	571.1	584.4	621.5	626.9	645.5	677.3	666.7	661.4	672.0
70°	494.0	515.3	518.0	525.9	576.4	568.4	597.6	626.9	618.9	621.5	621.5
72.5°	438.3	456.9	456.9	472.8	525.9	512.6	536.5	568.4	568.4	565.8	565.8
75°	371.9	382.5	393.1	417.0	472.8	456.9	472.8	502.0	507.3	502.0	502.0
77.5°	300.1	316.1	321.4	353.3	393.1	390.5	406.4	419.7	430.3	425.0	425.0
80°	212.5	228.4	249.7	284.2	308.1	316.1	324.1	334.7	340.0	340.0	345.3
82.5°	119.5	143.4	162.0	196.6	207.2	247.0	244.4	252.3	244.4	215.2	239.1
85°	26.6	50.5	71.7	90.3	103.6	143.4	151.4	170.0	140.8	130.2	130.2
87.5°	0.0	0.0	0.0	0.0	0.0	21.2	42.5	58.4	50.5	42.5	42.5
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°	12940.9	12940.9	12940.9	12940.9	12940.9	12940.9	12940.9	12940.9	12940.9	12940.9
2.5°	11294.1	11525.2	11804.1	12284.8	12622.2	12986.1	13352.6	13743.1	13846.7	13952.9
5°	9155.8	9610.1	9857.1	10502.5	11179.9	12040.5	12744.3	13514.6	13836.0	13910.4
7.5°	6935.3	7243.4	7891.5	8544.9	9384.3	10287.4	11365.8	12566.4	12940.9	13097.6
10°	5498.3	5918.0	6486.4	7187.6	7923.4	8895.5	10112.1	11514.5	12045.8	12133.4
12.5°	4680.2	5147.7	5766.6	6507.6	7203.6	7936.7	9163.8	10611.4	11179.9	11368.4
15°	3742.6	4308.3	5022.8	5803.7	6560.8	7362.9	8606.0	10239.6	10895.6	11116.1
17.5°	2940.4	3397.3	4170.2	5017.5	5915.3	6930.0	8489.1	10417.5	11225.0	11429.5
20°	2249.8	2576.5	3227.3	4122.4	5174.2	6502.3	8518.4	11089.5	12056.4	12335.3
22.5°	1944.3	2111.7	2507.4	3360.1	4536.8	6130.5	8637.9	12011.2	13177.3	13642.1
25°	1761.0	1848.7	2071.8	2629.6	3928.5	5769.2	8911.5	13251.7	14744.4	15052.6
27.5°	1604.3	1668.1	1806.2	2207.3	3376.0	5434.5	9230.2	14627.6	16208.0	16667.5
30°	1455.6	1540.6	1670.7	1960.3	3022.7	5129.1	9631.3	15743.2	17440.5	17868.1
32.5°	1341.4	1426.4	1545.9	1787.6	2722.6	4807.7	9870.4	16723.3	18447.2	18811.1
35°	1248.4	1320.1	1445.0	1649.5	2494.2	4563.3	9822.5	17501.6	19422.0	19793.8
37.5°	1182.0	1243.1	1367.9	1519.3	2321.5	4308.3	9798.6	18529.5	20609.3	21039.6
40°	1120.9	1184.7	1298.9	1434.3	2148.8	4008.2	9811.9	19549.5	21873.6	22303.9
42.5°	1073.1	1144.8	1237.8	1410.4	1970.9	3766.5	9811.9	20436.6	22973.3	23387.6
45°	1033.3	1110.3	1200.6	1407.8	1830.1	3583.2	9745.5	21199.0	23849.8	24203.1
47.5°	998.7	1083.7	1213.9	1360.0	1795.6	3450.4	9687.1	21809.9	24564.3	24896.4
50°	974.8	1075.8	1290.9	1304.2	1806.2	3410.5	9968.6	22580.2	25193.9	25480.7
52.5°	956.2	1078.4	1288.2	1221.8	1787.6	3437.1	10555.7	23783.4	26067.7	26089.0
55°	919.0	1075.8	1221.8	1128.9	1710.6	3482.2	11310.0	25531.2	27435.7	27451.6
57.5°	881.9	1046.5	1134.2	1049.2	1553.9	3482.2	12218.4	27186.0	29085.2	29098.4
60°	844.7	1089.0	996.1	980.1	1349.3	3418.5	13177.3	27913.8	29603.1	29738.6
62.5°	807.5	1097.0	889.8	919.0	1200.6	3264.4	13891.8	27109.0	28901.9	29095.8
65°	765.0	884.5	820.8	855.3	1123.6	3006.8	13666.0	25634.8	27584.4	27815.5
67.5°	714.5	749.0	746.4	788.9	1097.0	2627.0	12476.1	23770.1	26166.0	26152.7
70°	653.4	672.0	680.0	725.1	1046.5	2332.1	10396.3	21350.4	24272.2	24569.6
72.5°	589.7	605.6	613.6	653.4	996.1	2164.8	8069.5	18016.9	21023.7	21488.5
75°	520.6	531.2	541.9	576.4	942.9	1917.8	5748.0	13753.7	16101.8	16832.2
77.5°	448.9	448.9	462.2	496.7	794.2	1583.1	3856.8	9647.2	10908.9	11655.3
80°	363.9	366.6	361.2	398.4	584.4	1083.7	2191.3	6443.9	7259.3	7402.8
82.5°	278.9	270.9	273.6	292.2	435.6	738.4	1168.7	4002.9	4079.9	4000.2
85°	175.3	175.3	170.0	191.2	278.9	385.1	637.5	2451.7	1915.1	1822.1
87.5°	71.7	58.4	66.4	77.0	132.8	156.7	249.7	504.7	193.9	178.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)