

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: P946692

Luminaire Tested: **GALN-SB2B-735-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946692
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2B-735-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11470 lumens
Efficiency: N/A
Efficacy: 155.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

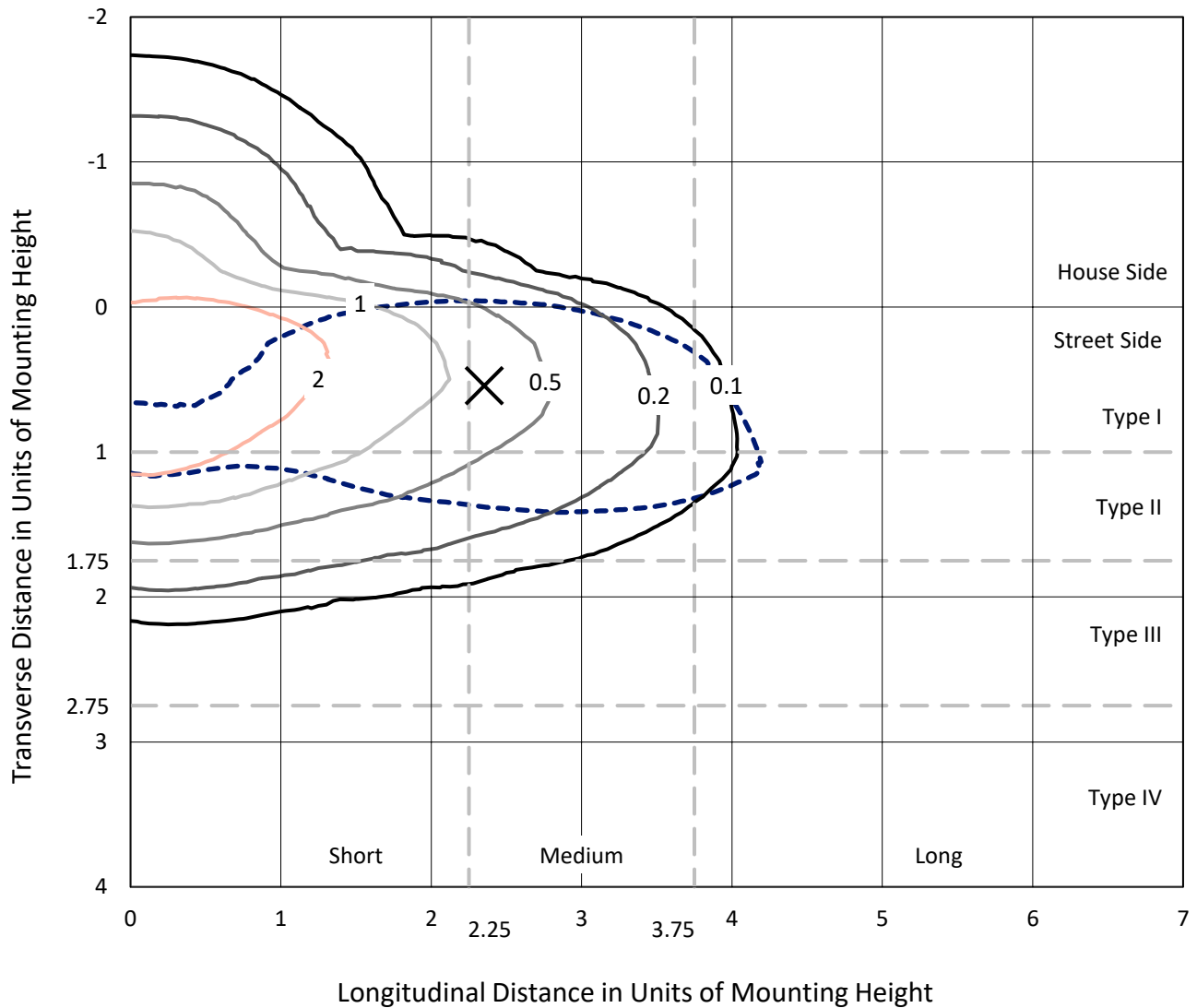
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

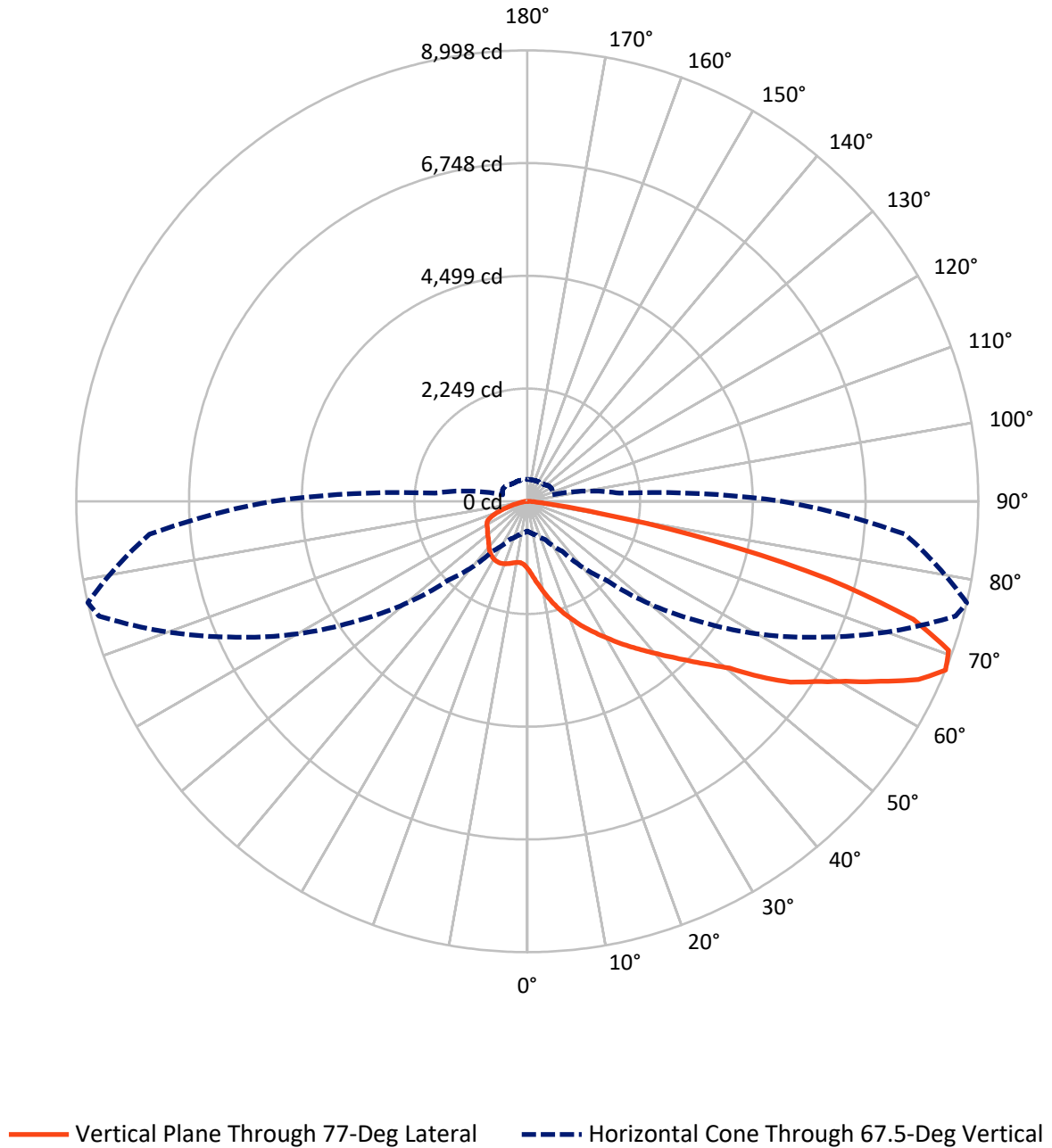
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2169.7	0.0	2169.7
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	9300.3	0.0	9300.3
	% Fixture	81.1	0.0	81.1
Total	Lumens	11470.0	0.0	11470.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.3	1.3
10°-20°	518.2	4.5
20°-30°	978.5	8.5
30°-40°	1576.3	13.7
40°-50°	2156.1	18.8
50°-60°	2432.1	21.2
60°-70°	2270.1	19.8
70°-80°	1244.4	10.8
80°-90°	150.1	1.3
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°	11470.0	100.0
0°-180°	11470.0	100.0

Coefficient of Utilization



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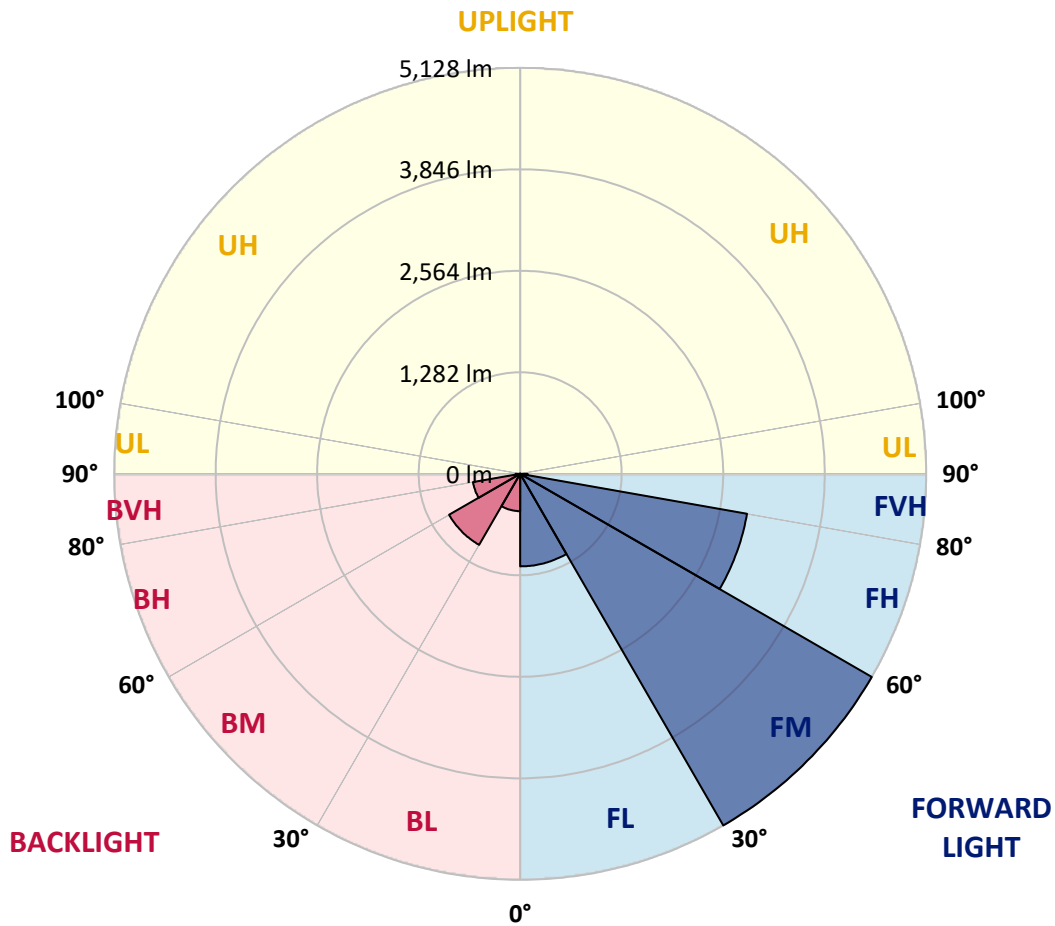
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1169.2	10.2			
FM (30°-60°)	5128.1	44.7			
FH (60°-80°)	2909.1	25.4			G2/5000
FVH (80°-90°)	93.9	0.8			G1/100
BL (0°-30°)	471.7	4.1	B1/500		
BM (30°-60°)	1036.4	9.0	B2/2500		
BH (60°-80°)	605.3	5.3	B2/1000		G2/1000
BVH (80°-90°)	56.2	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1345.8	1345.8	1345.8	1345.8	1345.8	1345.8	1345.8	1345.8	1345.8	1345.8
2.5°	1685.0	1696.9	1682.1	1682.1	1632.4	1606.3	1556.6	1518.7	1450.6	1438.7
5°	1991.7	2006.5	1985.8	1976.9	1918.3	1864.4	1781.0	1698.7	1577.3	1564.9
7.5°	2229.2	2248.1	2229.8	2220.3	2168.2	2107.8	2010.1	1895.2	1724.1	1699.8
10°	2422.8	2425.7	2419.8	2423.4	2382.5	2332.8	2232.7	2098.9	1885.2	1852.0
12.5°	2532.3	2545.9	2557.8	2579.1	2572.0	2541.2	2451.2	2291.3	2055.7	2013.1
15°	2583.8	2607.5	2634.1	2683.3	2723.0	2730.7	2662.0	2498.0	2229.2	2177.7
17.5°	2602.2	2624.7	2666.7	2737.8	2823.0	2880.4	2849.7	2698.7	2400.9	2341.7
20°	2695.1	2701.6	2727.1	2794.6	2887.0	2982.3	3005.4	2891.7	2570.8	2503.9
22.5°	2894.1	2881.0	2888.1	2918.9	2985.2	3077.6	3130.3	3062.2	2745.5	2668.5
25°	3222.7	3184.8	3146.9	3111.4	3145.1	3197.2	3257.0	3232.7	2928.4	2830.7
27.5°	3637.7	3591.5	3508.0	3391.4	3350.6	3368.9	3395.6	3390.8	3097.7	2998.9
30°	4046.2	3992.4	3892.9	3724.2	3616.4	3567.8	3547.7	3534.1	3281.9	3176.5
32.5°	4372.5	4329.8	4232.2	4043.3	3887.0	3804.1	3737.2	3688.6	3474.3	3368.9
35°	4657.9	4618.2	4506.3	4300.2	4130.3	4042.1	3954.5	3850.9	3674.4	3567.8
37.5°	4918.4	4878.7	4725.4	4511.0	4339.9	4278.9	4200.8	4024.9	3875.1	3774.5
40°	5083.0	5074.1	4930.8	4688.1	4510.4	4480.2	4454.2	4226.8	4097.8	4004.2
42.5°	5125.0	5144.5	5030.9	4831.3	4662.0	4637.7	4698.7	4455.4	4347.6	4258.2
45°	5023.8	5080.0	5005.4	4869.8	4769.8	4756.7	4915.4	4705.2	4624.1	4542.4
47.5°	4767.4	4862.7	4831.9	4813.0	4798.8	4855.0	5106.1	4970.5	4937.3	4866.3
50°	4249.9	4430.5	4484.4	4604.0	4741.3	4931.4	5279.5	5260.0	5303.2	5231.6
52.5°	3355.3	3604.0	3916.6	4216.2	4564.9	4905.9	5470.2	5675.6	5858.0	5818.9
55°	2769.7	2881.6	3122.0	3671.5	4222.7	4798.8	5556.0	6011.3	6408.6	6373.7
57.5°	2319.8	2419.8	2567.8	3026.7	3705.2	4555.4	5609.3	6216.2	6785.8	6782.2
60°	1837.2	1943.2	2094.8	2419.8	3100.7	4135.1	5597.5	6449.5	7267.1	7296.7
62.5°	1292.5	1409.1	1577.3	1880.4	2483.2	3590.3	5355.9	6618.2	7833.7	7914.3
65°	849.6	926.6	1053.3	1315.0	1850.2	2889.9	4894.7	6640.1	8440.0	8576.2
67.5°	595.6	625.2	699.8	841.9	1219.7	2216.1	4159.9	6413.4	8844.4	8997.8
70°	464.8	479.6	517.5	574.3	766.1	1490.3	3187.7	5823.7	8758.0	8917.8
72.5°	401.4	415.6	429.8	437.0	513.9	920.1	2159.3	4869.2	7943.9	8052.2
75°	364.1	367.7	379.5	377.2	392.0	596.8	1246.3	3547.7	6267.7	6230.4
77.5°	306.1	310.8	330.4	327.4	348.1	407.9	647.1	2289.6	4063.4	3810.0
80°	259.3	261.7	283.0	279.5	302.6	295.4	330.4	1167.0	1723.5	1460.1
82.5°	90.0	111.3	216.1	222.6	230.9	178.8	190.6	476.0	526.4	403.2
85°	43.8	46.8	110.1	156.3	155.7	90.0	93.0	169.9	165.8	130.3
87.5°	7.1	8.9	13.0	61.0	48.6	23.7	32.0	33.2	34.3	29.6
90°	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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1345.8	0°	1345.8	1345.8	1345.8	1345.8	1345.8	1345.8	1345.8	1345.8	1345.8	1345.8
1393.7	2.5°	1360.6	1331.0	1268.8	1211.4	1166.4	1123.2	1098.9	1078.2	1066.3	1064.0
1458.9	5°	1397.3	1336.3	1223.2	1127.9	1065.7	1019.6	995.3	979.9	972.2	967.5
1546.5	7.5°	1450.0	1360.6	1199.5	1091.2	1026.1	992.9	980.5	978.1	977.5	978.1
1652.5	10°	1522.8	1400.3	1197.2	1082.3	1027.8	1009.5	1008.9	1009.5	1011.9	1012.4
1767.9	12.5°	1601.6	1441.1	1206.6	1090.0	1050.3	1040.3	1038.5	1037.9	1039.7	1040.9
1884.6	15°	1687.4	1495.0	1222.6	1106.6	1075.2	1064.6	1062.8	1059.2	1058.6	1058.0
2007.1	17.5°	1775.6	1548.3	1240.4	1124.4	1091.2	1076.4	1069.9	1061.6	1055.1	1053.3
2133.8	20°	1865.0	1601.0	1252.8	1133.2	1092.4	1071.7	1058.6	1044.4	1033.2	1026.7
2261.7	22.5°	1960.4	1656.0	1260.5	1130.9	1081.7	1053.3	1029.6	1013.0	995.9	984.6
2390.8	25°	2053.3	1704.0	1259.9	1118.4	1061.0	1024.9	994.7	973.4	949.7	937.8
2524.0	27.5°	2142.7	1747.2	1245.1	1096.5	1031.4	991.1	955.0	929.6	906.5	895.2
2658.4	30°	2235.1	1783.3	1222.0	1064.6	996.5	952.1	912.4	890.5	869.8	859.1
2800.5	32.5°	2326.9	1816.5	1189.5	1024.9	956.2	913.6	874.5	854.4	841.9	841.9
2953.3	35°	2424.0	1839.6	1146.3	978.7	913.6	872.7	841.9	830.1	828.9	821.8
3114.9	37.5°	2526.4	1854.4	1093.6	931.3	871.5	833.1	823.6	809.4	797.5	782.1
3292.5	40°	2634.1	1869.2	1030.2	882.2	827.1	805.8	801.7	782.7	749.0	711.1
3493.8	42.5°	2765.0	1879.2	964.5	833.1	780.4	773.3	779.2	746.6	692.7	664.3
3736.6	45°	2916.6	1895.8	904.1	784.5	732.4	732.4	757.3	714.6	670.2	652.5
4013.7	47.5°	3113.1	1934.3	847.9	731.2	688.0	699.8	708.7	676.2	651.3	629.4
4351.2	50°	3397.3	2026.7	789.8	677.3	654.2	677.9	665.5	646.5	617.5	599.8
4887.6	52.5°	3750.2	2081.1	738.3	628.8	625.2	648.9	631.2	613.4	591.5	567.8
5294.3	55°	3990.6	2091.2	695.1	593.3	605.7	603.3	596.8	580.8	569.0	537.6
5695.8	57.5°	4259.4	2111.3	659.6	571.9	593.3	567.2	564.8	551.2	535.8	514.5
6185.4	60°	4580.9	2142.7	628.8	563.7	582.6	543.5	531.7	526.4	511.0	500.3
6774.5	62.5°	4931.4	2171.1	597.4	564.8	570.2	520.4	502.7	500.9	491.4	487.9
7327.5	65°	5170.6	2093.6	558.3	563.7	550.6	496.8	474.3	473.7	466.0	464.8
7567.3	67.5°	5087.1	1847.9	505.6	547.1	530.5	473.1	448.2	445.8	435.8	436.4
7316.9	70°	4669.1	1497.4	432.8	506.2	505.6	451.8	421.0	413.3	399.7	402.0
6361.8	72.5°	3885.2	1109.5	335.1	438.1	466.0	432.2	389.6	377.2	360.0	362.4
4696.3	75°	2805.8	754.3	243.9	333.3	405.6	409.1	358.8	337.5	316.8	320.3
2614.0	77.5°	1435.8	427.5	179.4	229.7	318.5	371.8	331.0	302.6	297.8	331.0
753.7	80°	468.3	214.3	124.3	161.0	209.0	304.3	290.1	257.6	256.4	264.1
158.1	82.5°	139.7	90.6	79.9	106.0	115.5	233.3	250.4	194.8	167.6	176.4
52.7	85°	48.0	43.8	45.6	52.7	55.1	136.8	175.3	129.1	122.0	134.4
11.8	87.5°	11.2	15.4	13.0	11.8	11.8	33.2	68.1	53.9	74.6	49.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
1345.8
1064.0
966.9
979.9
1013.0
1041.5
1057.4
1055.1
1029.0
985.2
937.8
894.6
858.5
842.5
820.0
779.8
705.8
664.9
655.4
628.8
598.0
563.1
538.2
507.4
503.3
487.9
464.2
436.4
404.4
361.8
321.5
326.2
226.8
182.4
132.6
48.0
0.0

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