

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: P947931

Luminaire Tested: **GALN-SB3A-850-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947931
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-SB3A-850-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13113 lumens
Efficiency: N/A
Efficacy: 154.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

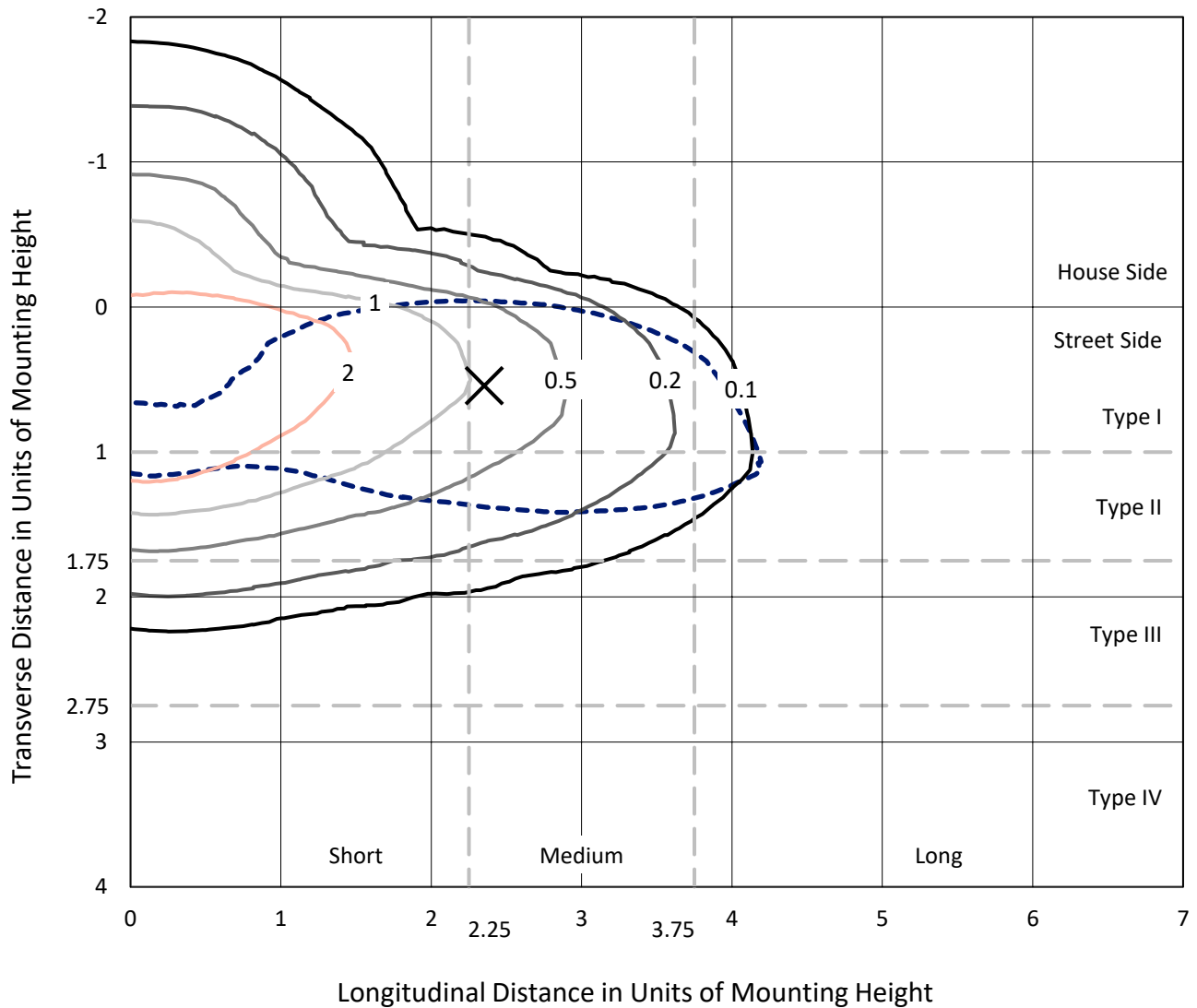
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

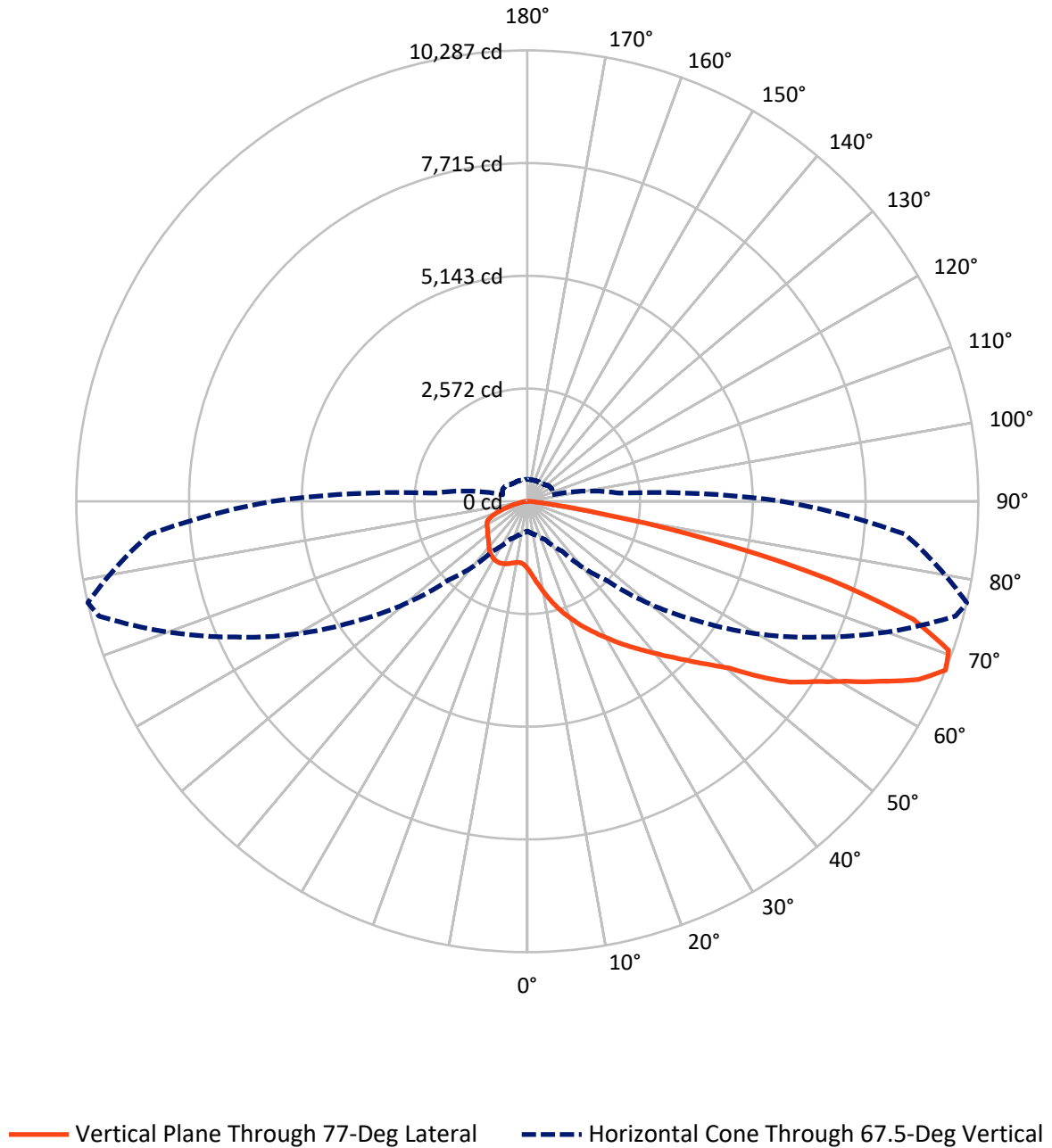
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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	2480.5	0.0	2480.5
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	10632.6	0.0	10632.6
	% Fixture	81.1	0.0	81.1
Total	Lumens	13113.0	0.0	13113.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.9	1.3
10°-20°	592.5	4.5
20°-30°	1118.6	8.5
30°-40°	1802.1	13.7
40°-50°	2465.0	18.8
50°-60°	2780.5	21.2
60°-70°	2595.2	19.8
70°-80°	1422.6	10.8
80°-90°	171.6	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°	13113.0	100.0
0°-180°	13113.0	100.0

Coefficient of Utilization



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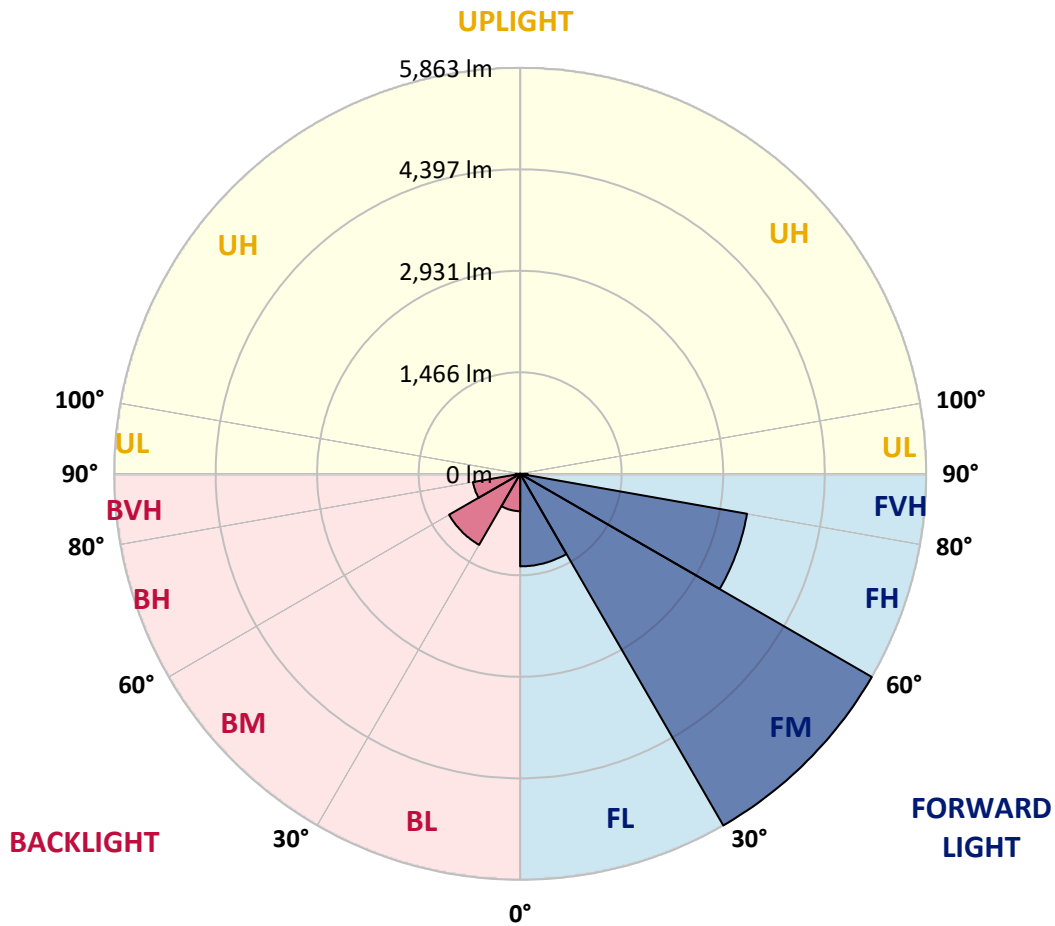
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1336.7	10.2			
FM (30°-60°)	5862.7	44.7			
FH (60°-80°)	3325.8	25.4			G2/5000
FVH (80°-90°)	107.3	0.8			G2/225
BL (0°-30°)	539.3	4.1	B2/1000		
BM (30°-60°)	1184.9	9.0	B2/2500		
BH (60°-80°)	692.0	5.3	B2/1000		G2/1000
BVH (80°-90°)	64.3	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°	1538.6	1538.6	1538.6	1538.6	1538.6	1538.6	1538.6	1538.6	1538.6	1538.6
2.5°	1926.4	1940.0	1923.0	1923.0	1866.2	1836.4	1779.5	1736.2	1658.4	1644.8
5°	2277.0	2294.0	2270.3	2260.1	2193.1	2131.5	2036.1	1942.0	1803.2	1789.0
7.5°	2548.5	2570.1	2549.2	2538.3	2478.8	2409.7	2298.0	2166.7	1971.1	1943.3
10°	2769.8	2773.2	2766.4	2770.5	2723.8	2666.9	2552.5	2399.6	2155.2	2117.3
12.5°	2895.0	2910.6	2924.1	2948.5	2940.4	2905.2	2802.3	2619.5	2350.1	2301.4
15°	2953.9	2981.0	3011.5	3067.6	3113.0	3121.8	3043.3	2855.8	2548.5	2489.6
17.5°	2974.9	3000.6	3048.7	3129.9	3227.4	3293.1	3257.9	3085.2	2744.8	2677.1
20°	3081.2	3088.6	3117.7	3194.9	3300.5	3409.5	3435.9	3305.9	2939.0	2862.6
22.5°	3308.6	3293.7	3301.9	3337.0	3412.9	3518.5	3578.7	3500.9	3138.7	3050.7
25°	3684.3	3641.0	3597.7	3557.0	3595.6	3655.2	3723.6	3695.8	3347.9	3236.2
27.5°	4158.8	4106.0	4010.6	3877.2	3830.5	3851.5	3881.9	3876.5	3541.5	3428.4
30°	4625.8	4564.2	4450.5	4257.6	4134.4	4078.9	4055.9	4040.3	3752.0	3631.5
32.5°	4998.8	4950.1	4838.4	4622.5	4443.8	4349.0	4272.5	4217.0	3972.0	3851.5
35°	5325.1	5279.7	5151.8	4916.2	4722.0	4621.1	4520.9	4402.5	4200.8	4078.9
37.5°	5622.9	5577.5	5402.2	5157.2	4961.6	4891.9	4802.5	4601.5	4430.2	4315.1
40°	5811.1	5800.9	5637.1	5359.6	5156.5	5122.0	5092.2	4832.3	4684.7	4577.8
42.5°	5859.1	5881.5	5751.5	5523.4	5329.8	5302.0	5371.8	5093.6	4970.4	4868.2
45°	5743.4	5807.7	5722.4	5567.4	5453.0	5438.1	5619.5	5379.2	5286.5	5193.1
47.5°	5450.3	5559.3	5524.1	5502.4	5486.2	5550.5	5837.5	5682.5	5644.6	5563.3
50°	4858.7	5065.1	5126.7	5263.5	5420.5	5637.8	6035.8	6013.5	6062.9	5981.0
52.5°	3835.9	4120.2	4477.6	4820.1	5218.8	5608.7	6253.8	6488.6	6697.1	6652.4
55°	3166.5	3294.4	3569.2	4197.4	4827.6	5486.2	6351.9	6872.4	7326.6	7286.7
57.5°	2652.0	2766.4	2935.7	3460.2	4236.0	5208.0	6412.8	7106.6	7757.8	7753.7
60°	2100.4	2221.5	2394.8	2766.4	3544.9	4727.4	6399.3	7373.3	8308.1	8341.9
62.5°	1477.6	1611.0	1803.2	2149.8	2838.9	4104.6	6123.1	7566.2	8955.9	9047.9
65°	971.3	1059.3	1204.2	1503.4	2115.3	3303.9	5595.8	7591.3	9649.0	9804.7
67.5°	680.9	714.8	800.1	962.5	1394.4	2533.6	4755.8	7332.0	10111.3	10286.6
70°	531.4	548.3	591.6	656.6	875.9	1703.7	3644.4	6657.9	10012.5	10195.3
72.5°	458.9	475.2	491.4	499.5	587.5	1051.9	2468.6	5566.7	9081.8	9205.7
75°	416.3	420.3	433.9	431.2	448.1	682.3	1424.8	4055.9	7165.5	7122.9
77.5°	350.0	355.4	377.7	374.3	398.0	466.4	739.8	2617.5	4645.5	4355.8
80°	296.5	299.2	323.6	319.5	345.9	337.8	377.7	1334.1	1970.4	1669.2
82.5°	102.9	127.3	247.1	254.5	264.0	204.4	218.0	544.2	601.8	461.0
85°	50.1	53.5	125.9	178.7	178.0	102.9	106.3	194.3	189.5	148.9
87.5°	8.1	10.2	14.9	69.7	55.5	27.1	36.6	37.9	39.3	33.8
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°
1538.6	0°	1538.6	1538.6	1538.6	1538.6	1538.6	1538.6	1538.6	1538.6	1538.6	1538.6
1593.4	2.5°	1555.5	1521.6	1450.6	1384.9	1333.5	1284.1	1256.3	1232.6	1219.1	1216.4
1667.8	5°	1597.5	1527.7	1398.4	1289.5	1218.4	1165.6	1137.8	1120.2	1111.4	1106.0
1768.0	7.5°	1657.7	1555.5	1371.4	1247.5	1173.0	1135.1	1120.9	1118.2	1117.5	1118.2
1889.2	10°	1741.0	1600.8	1368.7	1237.3	1175.1	1154.1	1153.4	1154.1	1156.8	1157.5
2021.2	12.5°	1831.0	1647.5	1379.5	1246.1	1200.8	1189.3	1187.3	1186.6	1188.6	1190.0
2154.5	15°	1929.1	1709.1	1397.8	1265.1	1229.2	1217.0	1215.0	1210.9	1210.3	1209.6
2294.6	17.5°	2030.0	1770.1	1418.1	1285.4	1247.5	1230.6	1223.1	1213.7	1206.2	1204.2
2439.5	20°	2132.2	1830.3	1432.3	1295.6	1248.9	1225.2	1210.3	1194.0	1181.2	1173.7
2585.7	22.5°	2241.2	1893.3	1441.1	1292.9	1236.7	1204.2	1177.1	1158.2	1138.5	1125.7
2733.3	25°	2347.4	1948.1	1440.4	1278.6	1213.0	1171.7	1137.2	1112.8	1085.7	1072.2
2885.6	27.5°	2449.7	1997.5	1423.5	1253.6	1179.1	1133.1	1091.8	1062.7	1036.3	1023.5
3039.2	30°	2555.2	2038.8	1397.1	1217.0	1139.2	1088.4	1043.1	1018.0	994.3	982.2
3201.7	32.5°	2660.2	2076.7	1359.9	1171.7	1093.2	1044.4	999.8	976.7	962.5	962.5
3376.3	35°	2771.2	2103.1	1310.5	1118.9	1044.4	997.7	962.5	949.0	947.6	939.5
3561.1	37.5°	2888.3	2120.0	1250.2	1064.7	996.4	952.4	941.5	925.3	911.8	894.2
3764.2	40°	3011.5	2136.9	1177.8	1008.6	945.6	921.2	916.5	894.8	856.3	812.9
3994.3	42.5°	3161.1	2148.4	1102.6	952.4	892.1	884.0	890.8	853.6	792.0	759.5
4271.8	45°	3334.3	2167.4	1033.6	896.9	837.3	837.3	865.7	817.0	766.2	745.9
4588.6	47.5°	3559.1	2211.4	969.3	836.0	786.5	800.1	810.2	773.0	744.6	719.5
4974.4	50°	3884.0	2317.0	903.0	774.4	748.0	775.0	760.8	739.2	706.0	685.7
5587.7	52.5°	4287.4	2379.3	844.1	718.9	714.8	741.9	721.6	701.3	676.2	649.1
6052.7	55°	4562.2	2390.8	794.7	678.2	692.5	689.7	682.3	664.0	650.5	614.6
6511.6	57.5°	4869.5	2413.8	754.1	653.9	678.2	648.5	645.7	630.2	612.6	588.2
7071.4	60°	5237.1	2449.7	718.9	644.4	666.1	621.4	607.8	601.8	584.2	572.0
7744.9	62.5°	5637.8	2482.1	683.0	645.7	651.8	595.0	574.7	572.6	561.8	557.8
8377.1	65°	5911.2	2393.5	638.3	644.4	629.5	567.9	542.2	541.5	532.7	531.4
8651.3	67.5°	5815.8	2112.6	578.1	625.4	606.5	540.8	512.4	509.7	498.2	498.9
8365.0	70°	5337.9	1711.8	494.8	578.7	578.1	516.5	481.3	472.5	456.9	459.6
7273.1	72.5°	4441.7	1268.5	383.1	500.9	532.7	494.1	445.4	431.2	411.5	414.3
5369.1	75°	3207.8	862.4	278.9	381.1	463.7	467.7	410.2	385.8	362.1	366.2
2988.5	77.5°	1641.4	488.7	205.1	262.6	364.2	425.1	378.4	345.9	340.5	378.4
861.7	80°	535.4	245.0	142.1	184.1	238.9	347.9	331.7	294.4	293.1	301.9
180.7	82.5°	159.7	103.6	91.4	121.2	132.0	266.7	286.3	222.7	191.6	201.7
60.2	85°	54.8	50.1	52.1	60.2	63.0	156.4	200.4	147.6	139.4	153.7
13.5	87.5°	12.9	17.6	14.9	13.5	13.5	37.9	77.8	61.6	85.3	56.9
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>
1538.6
1216.4
1105.4
1120.2
1158.2
1190.6
1208.9
1206.2
1176.4
1126.3
1072.2
1022.8
981.5
963.2
937.5
891.5
806.8
760.1
749.3
718.9
683.7
643.7
615.3
580.1
575.4
557.8
530.7
498.9
462.3
413.6
367.5
373.0
259.2
208.5
151.6
54.8
0.0

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