

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: P947637

Luminaire Tested: **GALN-SB2D-935-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947637
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-SB2D-935-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14419 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

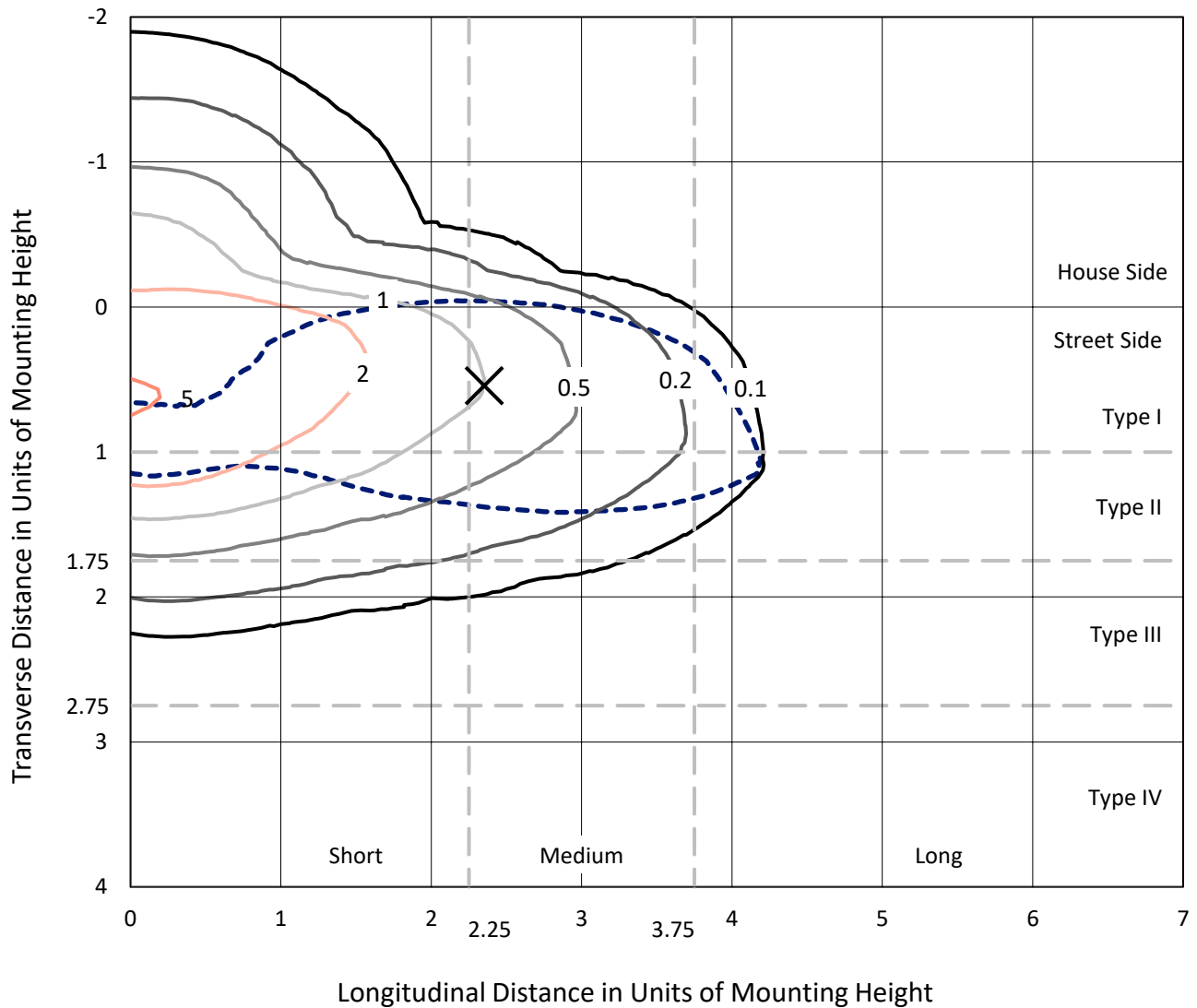
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

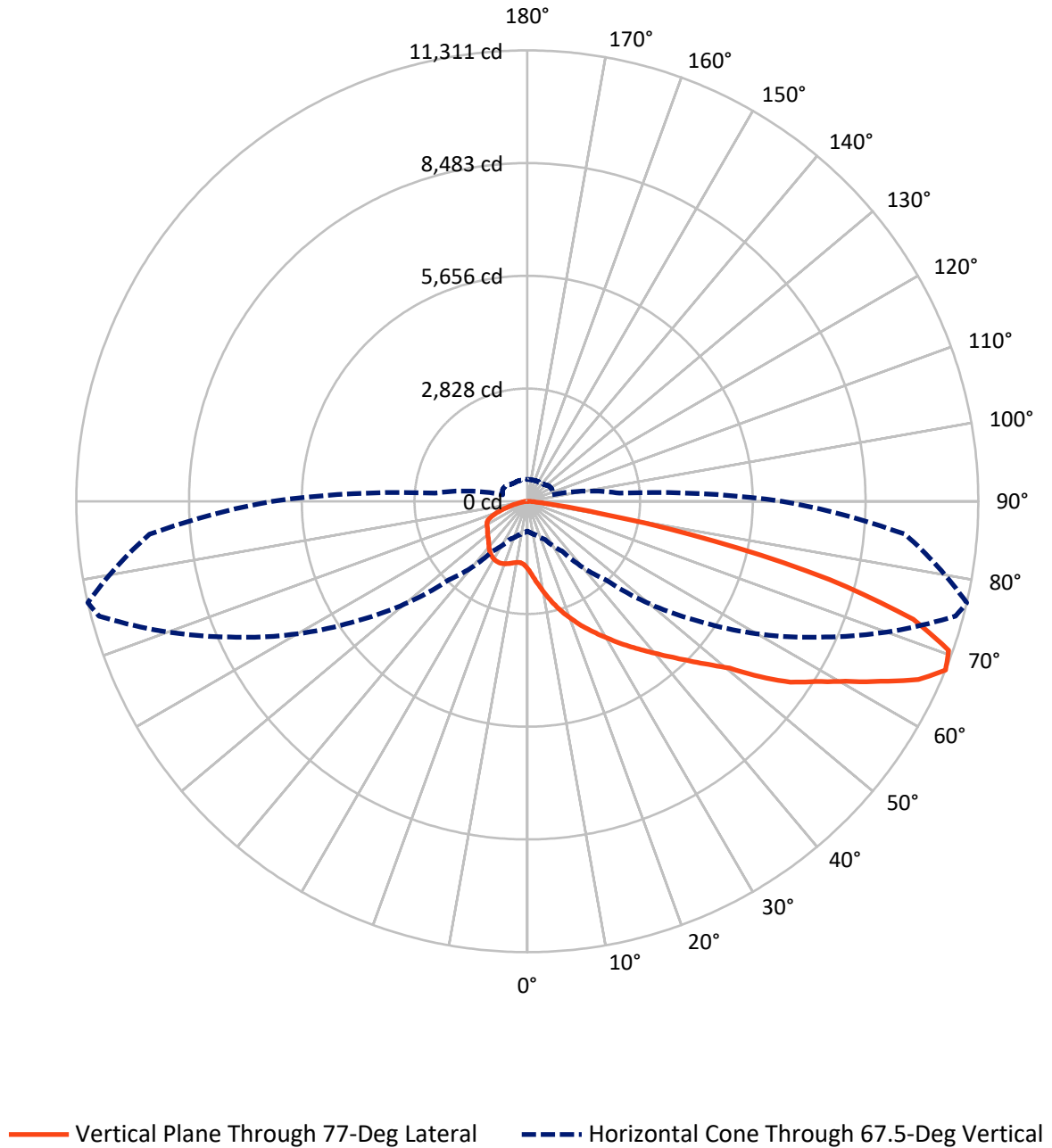
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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	2727.5	0.0	2727.5
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	11691.5	0.0	11691.5
	% Fixture	81.1	0.0	81.1
Total	Lumens	14419.0	0.0	14419.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.3	1.3
10°-20°	651.5	4.5
20°-30°	1230.0	8.5
30°-40°	1981.6	13.7
40°-50°	2710.4	18.8
50°-60°	3057.4	21.2
60°-70°	2853.7	19.8
70°-80°	1564.3	10.8
80°-90°	188.7	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°	14419.0	100.0
0°-180°	14419.0	100.0

Coefficient of Utilization



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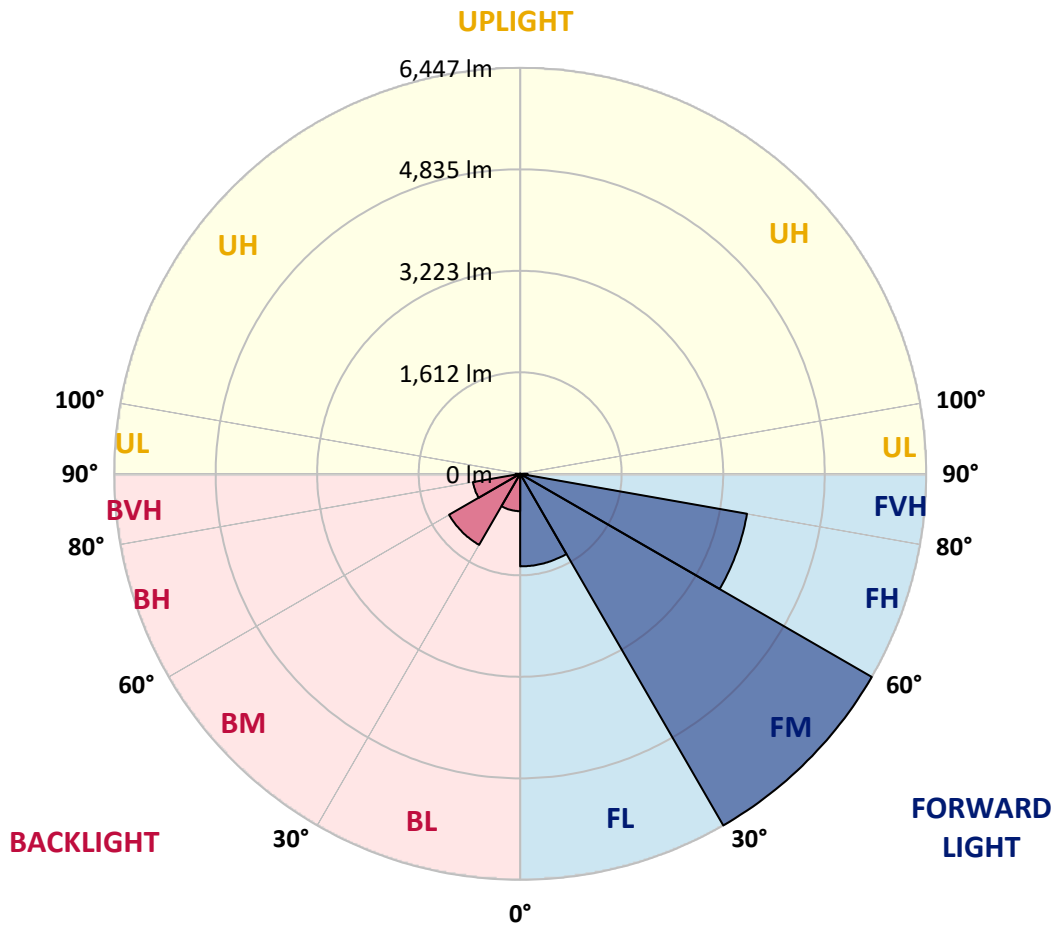
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1469.8	10.2			
FM (30°-60°)	6446.6	44.7			
FH (60°-80°)	3657.1	25.4			G2/5000
FVH (80°-90°)	118.0	0.8			G2/225
BL (0°-30°)	593.0	4.1	B2/1000		
BM (30°-60°)	1302.9	9.0	B2/2500		
BH (60°-80°)	760.9	5.3	B2/1000		G2/1000
BVH (80°-90°)	70.7	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°	1691.8	1691.8	1691.8	1691.8	1691.8	1691.8	1691.8	1691.8	1691.8	1691.8
2.5°	2118.3	2133.2	2114.6	2114.6	2052.0	2019.3	1956.8	1909.1	1823.5	1808.7
5°	2503.8	2522.4	2496.4	2485.2	2411.5	2343.8	2238.9	2135.4	1982.8	1967.2
7.5°	2802.3	2826.1	2803.0	2791.1	2725.6	2649.7	2526.9	2382.5	2167.4	2136.9
10°	3045.7	3049.4	3042.0	3046.4	2995.1	2932.5	2806.8	2638.5	2369.9	2328.2
12.5°	3183.4	3200.5	3215.4	3242.2	3233.2	3194.5	3081.4	2880.4	2584.2	2530.6
15°	3248.1	3277.9	3311.4	3373.2	3423.0	3432.7	3346.4	3140.2	2802.3	2737.5
17.5°	3271.2	3299.5	3352.3	3441.6	3548.8	3621.0	3582.3	3392.5	3018.1	2943.7
20°	3388.1	3396.2	3428.3	3513.1	3629.2	3749.0	3778.1	3635.2	3231.8	3147.6
22.5°	3638.1	3621.8	3630.7	3669.4	3752.8	3868.9	3935.1	3849.5	3451.3	3354.6
25°	4051.2	4003.6	3956.0	3911.3	3953.7	4019.2	4094.4	4063.9	3681.3	3558.5
27.5°	4573.0	4514.9	4410.0	4263.4	4212.0	4235.1	4268.6	4262.6	3894.2	3769.9
30°	5086.6	5018.8	4893.8	4681.7	4546.2	4485.2	4459.9	4442.7	4125.7	3993.2
32.5°	5496.7	5443.1	5320.3	5082.8	4886.3	4782.1	4698.0	4637.0	4367.6	4235.1
35°	5855.4	5805.5	5664.9	5405.9	5192.2	5081.3	4971.2	4840.9	4619.1	4485.2
37.5°	6182.9	6133.0	5940.3	5670.8	5455.7	5379.1	5280.8	5059.8	4871.5	4744.9
40°	6389.8	6378.7	6198.5	5893.4	5670.1	5632.1	5599.4	5313.6	5151.3	5033.7
42.5°	6442.7	6467.2	6324.3	6073.5	5860.6	5830.1	5906.8	5600.9	5465.4	5353.0
45°	6315.4	6386.1	6292.3	6121.9	5996.1	5979.7	6179.2	5915.0	5813.0	5710.3
47.5°	5993.1	6112.9	6074.2	6050.4	6032.6	6103.3	6418.9	6248.4	6206.7	6117.4
50°	5342.6	5569.6	5637.3	5787.7	5960.4	6199.3	6636.9	6612.4	6666.7	6576.6
52.5°	4218.0	4530.6	4923.6	5300.2	5738.6	6167.3	6876.6	7134.9	7364.1	7315.0
55°	3481.8	3622.5	3924.7	4615.4	5308.4	6032.6	6984.5	7556.9	8056.3	8012.4
57.5°	2916.2	3042.0	3228.0	3804.9	4657.8	5726.7	7051.5	7814.4	8530.4	8526.0
60°	2309.6	2442.8	2633.3	3042.0	3897.9	5198.2	7036.6	8107.7	9135.6	9172.8
62.5°	1624.8	1771.4	1982.8	2363.9	3121.6	4513.4	6732.9	8319.8	9847.8	9949.1
65°	1068.1	1164.8	1324.1	1653.1	2325.9	3632.9	6153.1	8347.3	10610.0	10781.2
67.5°	748.8	786.0	879.8	1058.4	1533.3	2785.9	5229.5	8062.3	11118.4	11311.1
70°	584.3	602.9	650.5	722.0	963.1	1873.4	4007.3	7320.9	11009.7	11210.7
72.5°	504.6	522.5	540.4	549.3	646.1	1156.6	2714.5	6121.1	9986.3	10122.5
75°	457.7	462.2	477.1	474.1	492.7	750.3	1566.8	4459.9	7879.2	7832.3
77.5°	384.8	390.8	415.3	411.6	437.6	512.8	813.5	2878.2	5108.1	4789.6
80°	326.0	329.0	355.8	351.3	380.3	371.4	415.3	1467.0	2166.7	1835.4
82.5°	113.1	139.9	271.7	279.9	290.3	224.8	239.7	598.4	661.7	506.9
85°	55.1	58.8	138.4	196.5	195.8	113.1	116.9	213.6	208.4	163.7
87.5°	8.9	11.2	16.4	76.7	61.0	29.8	40.2	41.7	43.2	37.2
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°
1691.8	0°	1691.8	1691.8	1691.8	1691.8	1691.8	1691.8	1691.8	1691.8	1691.8	1691.8
1752.1	2.5°	1710.4	1673.2	1595.0	1522.8	1466.3	1411.9	1381.4	1355.4	1340.5	1337.5
1834.0	5°	1756.6	1679.9	1537.7	1417.9	1339.7	1281.7	1251.2	1231.8	1222.1	1216.2
1944.1	7.5°	1822.8	1710.4	1508.0	1371.7	1289.9	1248.2	1232.6	1229.6	1228.8	1229.6
2077.3	10°	1914.3	1760.3	1505.0	1360.6	1292.1	1269.0	1268.3	1269.0	1272.0	1272.8
2222.5	12.5°	2013.3	1811.6	1516.9	1370.3	1320.4	1307.7	1305.5	1304.8	1307.0	1308.5
2369.1	15°	2121.3	1879.4	1537.0	1391.1	1351.7	1338.3	1336.0	1331.6	1330.8	1330.1
2523.2	17.5°	2232.2	1946.3	1559.3	1413.4	1371.7	1353.1	1345.0	1334.5	1326.3	1324.1
2682.5	20°	2344.5	2012.6	1574.9	1424.6	1373.2	1347.2	1330.8	1312.9	1298.8	1290.6
2843.2	22.5°	2464.4	2081.8	1584.6	1421.6	1359.8	1324.1	1294.3	1273.5	1251.9	1237.8
3005.5	25°	2581.2	2142.1	1583.9	1406.0	1333.8	1288.4	1250.4	1223.6	1193.9	1179.0
3173.0	27.5°	2693.6	2196.4	1565.3	1378.4	1296.6	1246.0	1200.6	1168.6	1139.5	1125.4
3341.9	30°	2809.7	2241.8	1536.2	1338.3	1252.7	1196.8	1147.0	1119.4	1093.4	1080.0
3520.5	32.5°	2925.1	2283.5	1495.3	1288.4	1202.0	1148.5	1099.3	1074.0	1058.4	1058.4
3712.6	35°	3047.2	2312.5	1441.0	1230.3	1148.5	1097.1	1058.4	1043.5	1042.0	1033.1
3915.8	37.5°	3175.9	2331.2	1374.7	1170.8	1095.6	1047.2	1035.3	1017.5	1002.6	983.2
4139.1	40°	3311.4	2349.8	1295.1	1109.0	1039.8	1013.0	1007.8	984.0	941.5	893.9
4392.1	42.5°	3475.9	2362.4	1212.5	1047.2	981.0	972.1	979.5	938.6	870.8	835.1
4697.3	45°	3666.4	2383.3	1136.5	986.2	920.7	920.7	952.0	898.4	842.5	820.2
5045.6	47.5°	3913.5	2431.6	1065.8	919.2	864.9	879.8	890.9	850.0	818.7	791.2
5469.9	50°	4270.8	2547.7	992.9	851.5	822.5	852.2	836.6	812.8	776.3	754.0
6144.2	52.5°	4714.4	2616.2	928.1	790.4	786.0	815.8	793.4	771.1	743.6	713.8
6655.5	55°	5016.6	2628.9	873.8	745.8	761.4	758.4	750.3	730.2	715.3	675.8
7160.2	57.5°	5354.5	2654.2	829.2	719.0	745.8	713.0	710.1	692.9	673.6	646.8
7775.7	60°	5758.7	2693.6	790.4	708.6	732.4	683.3	668.4	661.7	642.3	628.9
8516.3	62.5°	6199.3	2729.4	751.0	710.1	716.8	654.2	631.9	629.7	617.8	613.3
9211.5	65°	6500.0	2631.8	701.9	708.6	692.2	624.5	596.2	595.4	585.8	584.3
9512.9	67.5°	6395.0	2323.0	635.6	687.7	666.9	594.7	563.4	560.5	547.8	548.5
9198.1	70°	5869.6	1882.3	544.1	636.4	635.6	567.9	529.2	519.5	502.4	505.4
7997.5	72.5°	4884.1	1394.8	421.3	550.8	585.8	543.3	489.8	474.1	452.5	455.5
5903.8	75°	3527.2	948.2	306.7	419.0	509.8	514.3	451.0	424.3	398.2	402.7
3286.1	77.5°	1804.9	537.4	225.5	288.8	400.4	467.4	416.1	380.3	374.4	416.1
947.5	80°	588.7	269.4	156.3	202.4	262.7	382.6	364.7	323.8	322.3	332.0
198.7	82.5°	175.7	113.9	100.5	133.2	145.1	293.3	314.8	244.9	210.6	221.8
66.2	85°	60.3	55.1	57.3	66.2	69.2	171.9	220.3	162.3	153.3	169.0
14.9	87.5°	14.1	19.4	16.4	14.9	14.9	41.7	85.6	67.7	93.8	62.5
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>
1691.8
1337.5
1215.4
1231.8
1273.5
1309.2
1329.3
1326.3
1293.6
1238.5
1179.0
1124.6
1079.2
1059.1
1030.9
980.2
887.2
835.9
823.9
790.4
751.7
707.8
676.6
637.9
632.7
613.3
583.5
548.5
508.4
454.8
404.2
410.1
285.1
229.2
166.7
60.3
0.0

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