

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: P946965

Luminaire Tested: **GALN-SB2B-950-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946965
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-950-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7979 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

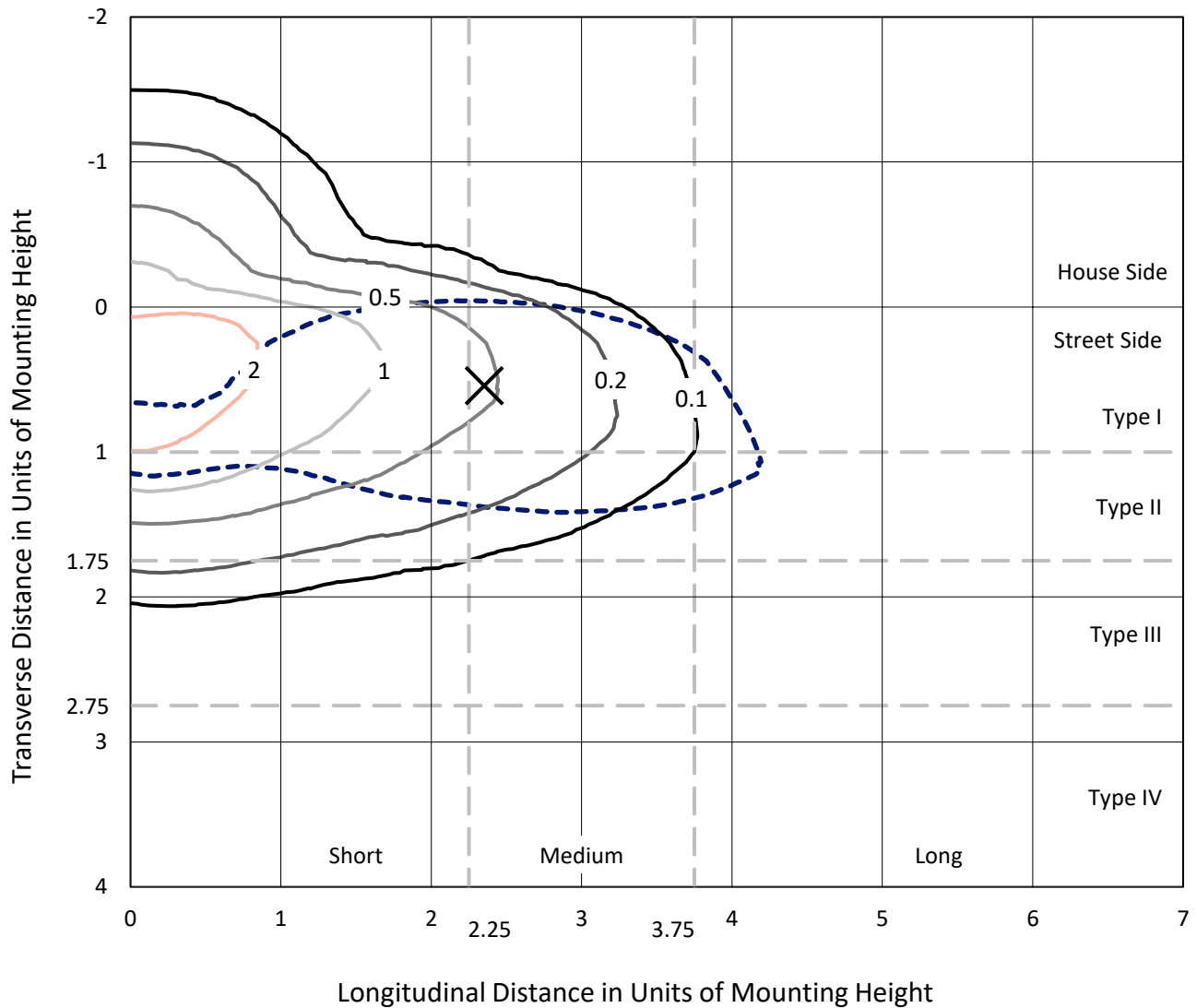
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

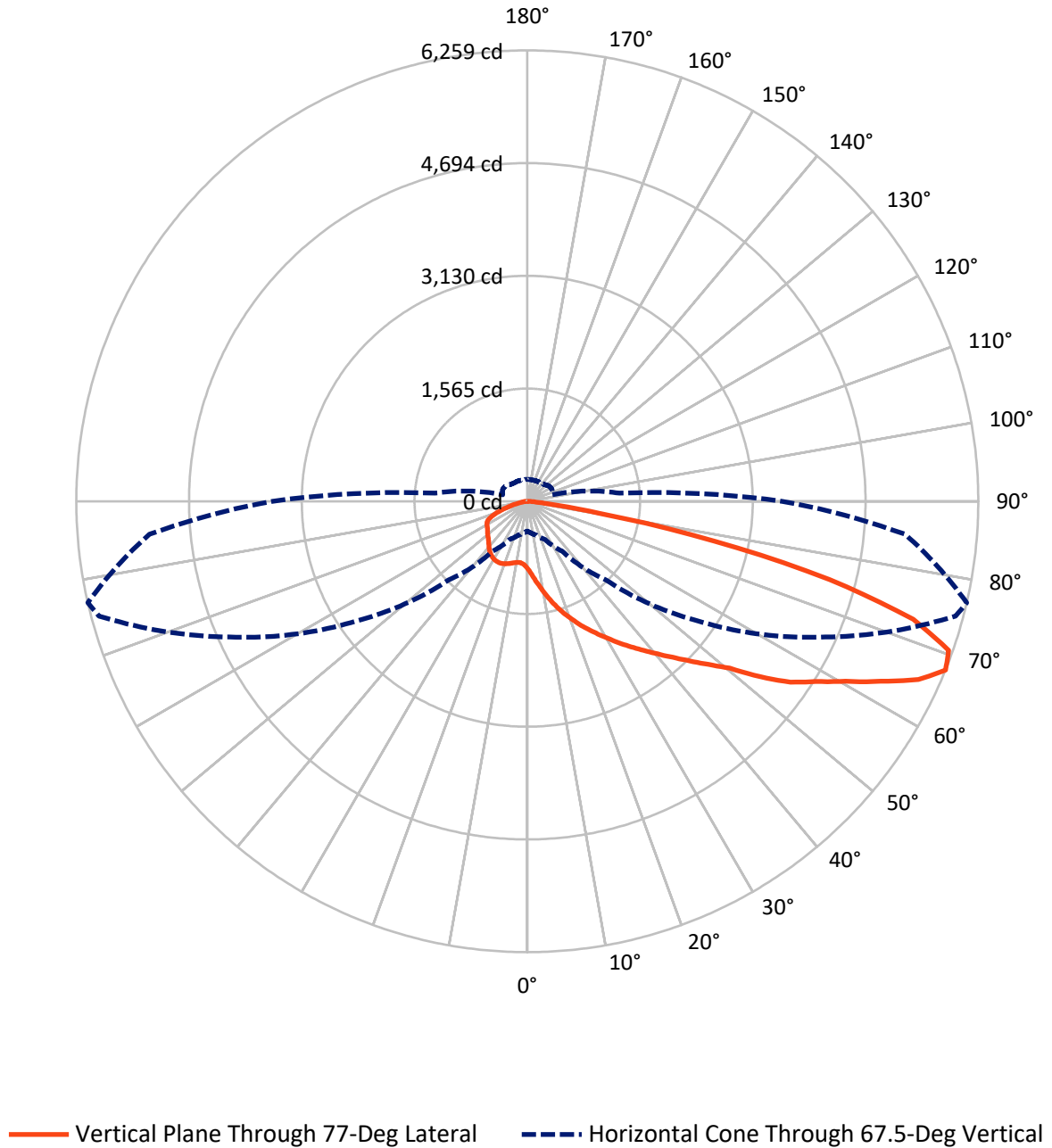
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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	1509.3	0.0	1509.3
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	6469.7	0.0	6469.7
	% Fixture	81.1	0.0	81.1
Total	Lumens	7979.0	0.0	7979.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.3	1.3
10°-20°	360.5	4.5
20°-30°	680.7	8.5
30°-40°	1096.5	13.7
40°-50°	1499.9	18.8
50°-60°	1691.9	21.2
60°-70°	1579.1	19.8
70°-80°	865.6	10.8
80°-90°	104.4	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°	7979.0	100.0
0°-180°	7979.0	100.0

Coefficient of Utilization



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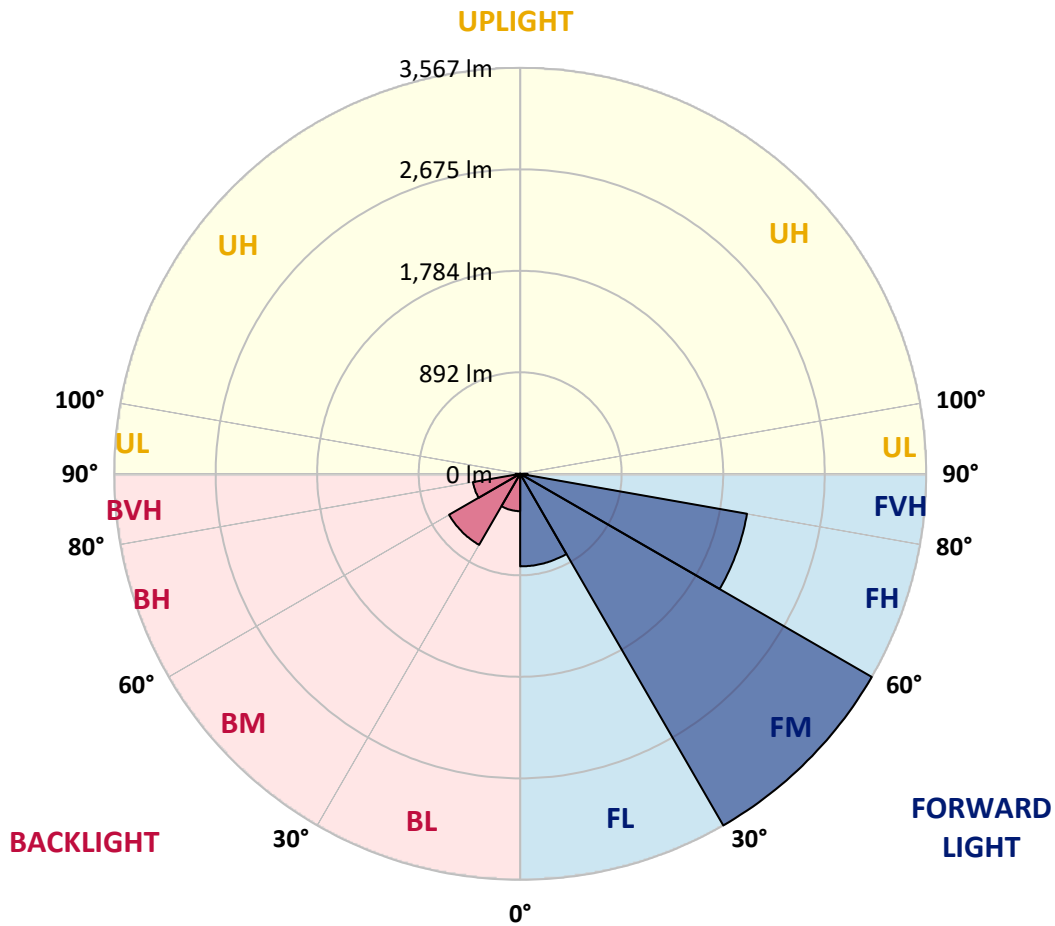
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	813.4	10.2			
FM (30°-60°)	3567.3	44.7			
FH (60°-80°)	2023.7	25.4			G2/5000
FVH (80°-90°)	65.3	0.8			G1/100
BL (0°-30°)	328.2	4.1	B1/500		
BM (30°-60°)	721.0	9.0	B1/1000		
BH (60°-80°)	421.1	5.3	B1/500		G1/500
BVH (80°-90°)	39.1	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	936.2	936.2	936.2	936.2	936.2	936.2	936.2	936.2	936.2	936.2
2.5°	1172.2	1180.4	1170.1	1170.1	1135.5	1117.4	1082.8	1056.5	1009.1	1000.8
5°	1385.5	1395.8	1381.4	1375.2	1334.5	1297.0	1238.9	1181.7	1097.2	1088.6
7.5°	1550.7	1563.9	1551.1	1544.5	1508.3	1466.3	1398.3	1318.4	1199.4	1182.5
10°	1685.4	1687.4	1683.3	1685.8	1657.4	1622.8	1553.2	1460.1	1311.4	1288.3
12.5°	1761.6	1771.0	1779.3	1794.1	1789.2	1767.8	1705.1	1593.9	1430.0	1400.4
15°	1797.4	1813.9	1832.4	1866.6	1894.2	1899.6	1851.8	1737.7	1550.7	1514.9
17.5°	1810.2	1825.8	1855.1	1904.5	1963.8	2003.8	1982.3	1877.3	1670.1	1629.0
20°	1874.8	1879.4	1897.1	1944.0	2008.3	2074.6	2090.7	2011.6	1788.3	1741.8
22.5°	2013.2	2004.2	2009.1	2030.5	2076.7	2140.9	2177.6	2130.2	1909.8	1856.3
25°	2241.8	2215.5	2189.1	2164.4	2187.9	2224.1	2265.7	2248.8	2037.1	1969.2
27.5°	2530.5	2498.4	2440.3	2359.2	2330.8	2343.6	2362.1	2358.8	2154.9	2086.1
30°	2814.7	2777.3	2708.1	2590.7	2515.7	2481.9	2467.9	2458.5	2283.0	2209.7
32.5°	3041.7	3012.0	2944.1	2812.7	2703.9	2646.3	2599.7	2566.0	2416.9	2343.6
35°	3240.2	3212.6	3134.8	2991.4	2873.2	2811.8	2750.9	2678.8	2556.1	2481.9
37.5°	3421.4	3393.8	3287.1	3138.1	3019.0	2976.6	2922.2	2799.9	2695.7	2625.7
40°	3535.9	3529.7	3430.1	3261.2	3137.6	3116.6	3098.5	2940.4	2850.6	2785.5
42.5°	3565.2	3578.8	3499.7	3360.9	3243.1	3226.2	3268.6	3099.3	3024.4	2962.2
45°	3494.7	3533.9	3482.0	3387.6	3318.0	3309.0	3419.4	3273.1	3216.7	3159.9
47.5°	3316.4	3382.7	3361.3	3348.1	3338.2	3377.3	3552.0	3457.7	3434.6	3385.2
50°	2956.4	3082.0	3119.5	3202.7	3298.3	3430.5	3672.7	3659.1	3689.1	3639.3
52.5°	2334.1	2507.1	2724.5	2932.9	3175.5	3412.8	3805.3	3948.2	4075.1	4047.9
55°	1926.7	2004.6	2171.8	2554.0	2937.5	3338.2	3865.0	4181.7	4458.1	4433.8
57.5°	1613.7	1683.3	1786.3	2105.5	2577.5	3168.9	3902.1	4324.2	4720.5	4718.0
60°	1278.0	1351.8	1457.2	1683.3	2157.0	2876.5	3893.8	4486.5	5055.3	5075.9
62.5°	899.1	980.3	1097.2	1308.1	1727.4	2497.6	3725.8	4603.9	5449.5	5505.5
65°	591.0	644.6	732.7	914.8	1287.1	2010.3	3404.9	4619.1	5871.2	5966.0
67.5°	414.3	434.9	486.8	585.7	848.5	1541.6	2893.8	4461.4	6152.5	6259.2
70°	323.3	333.6	360.0	399.5	533.0	1036.7	2217.5	4051.2	6092.4	6203.6
72.5°	279.2	289.1	299.0	304.0	357.5	640.0	1502.1	3387.2	5526.1	5601.5
75°	253.3	255.8	264.0	262.4	272.7	415.2	867.0	2467.9	4360.1	4334.1
77.5°	212.9	216.2	229.8	227.8	242.2	283.8	450.2	1592.7	2826.7	2650.4
80°	180.4	182.0	196.9	194.4	210.5	205.5	229.8	811.8	1199.0	1015.7
82.5°	62.6	77.4	150.3	154.9	160.6	124.4	132.6	331.1	366.2	280.5
85°	30.5	32.5	76.6	108.7	108.3	62.6	64.7	118.2	115.3	90.6
87.5°	4.9	6.2	9.1	42.4	33.8	16.5	22.2	23.1	23.9	20.6
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°
936.2	0°	936.2	936.2	936.2	936.2	936.2	936.2	936.2	936.2	936.2	936.2
969.5	2.5°	946.5	925.9	882.6	842.7	811.4	781.3	764.4	750.0	741.8	740.1
1014.9	5°	972.0	929.6	850.9	784.6	741.4	709.2	692.4	681.6	676.3	673.0
1075.8	7.5°	1008.7	946.5	834.5	759.1	713.8	690.7	682.1	680.4	680.0	680.4
1149.5	10°	1059.3	974.1	832.8	752.9	715.0	702.2	701.8	702.2	703.9	704.3
1229.8	12.5°	1114.1	1002.5	839.4	758.3	730.7	723.7	722.4	722.0	723.2	724.1
1311.0	15°	1173.8	1040.0	850.5	769.8	748.0	740.5	739.3	736.8	736.4	736.0
1396.2	17.5°	1235.2	1077.0	862.9	782.1	759.1	748.8	744.3	738.5	734.0	732.7
1484.4	20°	1297.4	1113.7	871.5	788.3	759.9	745.5	736.4	726.5	718.7	714.2
1573.4	22.5°	1363.7	1152.0	876.9	786.7	752.5	732.7	716.2	704.7	692.8	684.9
1663.1	25°	1428.4	1185.4	876.5	778.0	738.1	713.0	691.9	677.1	660.6	652.4
1755.8	27.5°	1490.6	1215.4	866.2	762.8	717.5	689.5	664.3	646.6	630.6	622.8
1849.3	30°	1554.8	1240.6	850.1	740.5	693.2	662.3	634.7	619.5	605.0	597.6
1948.2	32.5°	1618.7	1263.6	827.5	713.0	665.2	635.5	608.3	594.3	585.7	585.7
2054.4	35°	1686.2	1279.7	797.4	680.8	635.5	607.1	585.7	577.4	576.6	571.7
2166.9	37.5°	1757.5	1290.0	760.7	647.9	606.3	579.5	572.9	563.0	554.8	544.1
2290.4	40°	1832.4	1300.3	716.7	613.7	575.4	560.6	557.7	544.5	521.0	494.7
2430.5	42.5°	1923.4	1307.3	670.9	579.5	542.8	537.9	542.0	519.4	481.9	462.1
2599.3	45°	2028.9	1318.8	628.9	545.7	509.5	509.5	526.8	497.1	466.2	453.9
2792.1	47.5°	2165.6	1345.6	589.8	508.7	478.6	486.8	493.0	470.4	453.1	437.8
3026.8	50°	2363.3	1409.8	549.4	471.2	455.1	471.6	462.9	449.8	429.6	417.2
3400.0	52.5°	2608.8	1447.7	513.6	437.4	434.9	451.4	439.1	426.7	411.5	395.0
3683.0	55°	2776.0	1454.7	483.5	412.7	421.3	419.7	415.2	404.0	395.8	374.0
3962.2	57.5°	2963.0	1468.7	458.8	397.9	412.7	394.6	392.9	383.5	372.7	357.9
4302.8	60°	3186.7	1490.6	437.4	392.1	405.3	378.1	369.9	366.2	355.4	348.0
4712.6	62.5°	3430.5	1510.3	415.6	392.9	396.6	362.0	349.7	348.4	341.9	339.4
5097.3	65°	3596.9	1456.4	388.4	392.1	383.0	345.6	329.9	329.5	324.1	323.3
5264.1	67.5°	3538.8	1285.5	351.7	380.6	369.0	329.1	311.8	310.1	303.1	303.5
5089.9	70°	3248.0	1041.6	301.1	352.2	351.7	314.3	292.8	287.5	278.0	279.7
4425.6	72.5°	2702.7	771.8	233.1	304.8	324.1	300.7	271.0	262.4	250.4	252.1
3267.0	75°	1951.9	524.7	169.7	231.9	282.1	284.6	249.6	234.8	220.4	222.8
1818.4	77.5°	998.8	297.4	124.8	159.8	221.6	258.7	230.2	210.5	207.2	230.2
524.3	80°	325.8	149.1	86.5	112.0	145.4	211.7	201.8	179.2	178.3	183.7
110.0	82.5°	97.2	63.0	55.6	73.7	80.3	162.3	174.2	135.5	116.6	122.7
36.7	85°	33.4	30.5	31.7	36.7	38.3	95.1	121.9	89.8	84.8	93.5
8.2	87.5°	7.8	10.7	9.1	8.2	8.2	23.1	47.4	37.5	51.9	34.6
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>
936.2
740.1
672.6
681.6
704.7
724.5
735.6
734.0
715.8
685.4
652.4
622.3
597.2
586.1
570.4
542.4
491.0
462.5
455.9
437.4
416.0
391.7
374.4
353.0
350.1
339.4
322.9
303.5
281.3
251.7
223.6
226.9
157.7
126.9
92.3
33.4
0.0

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