

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: P946251

Luminaire Tested: **GALN-SB1D-950-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946251
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-SB1D-950-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 5000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7213 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

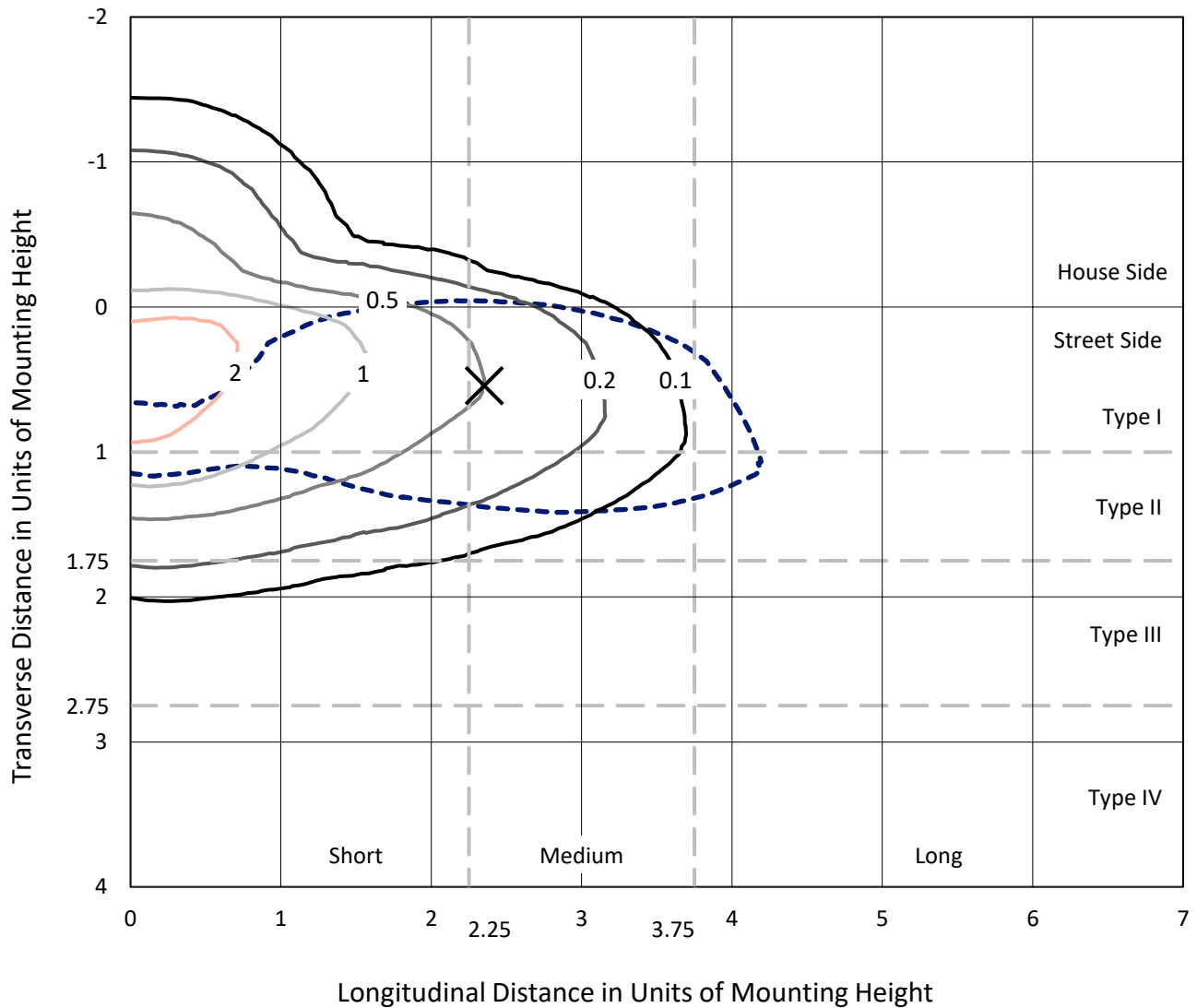
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

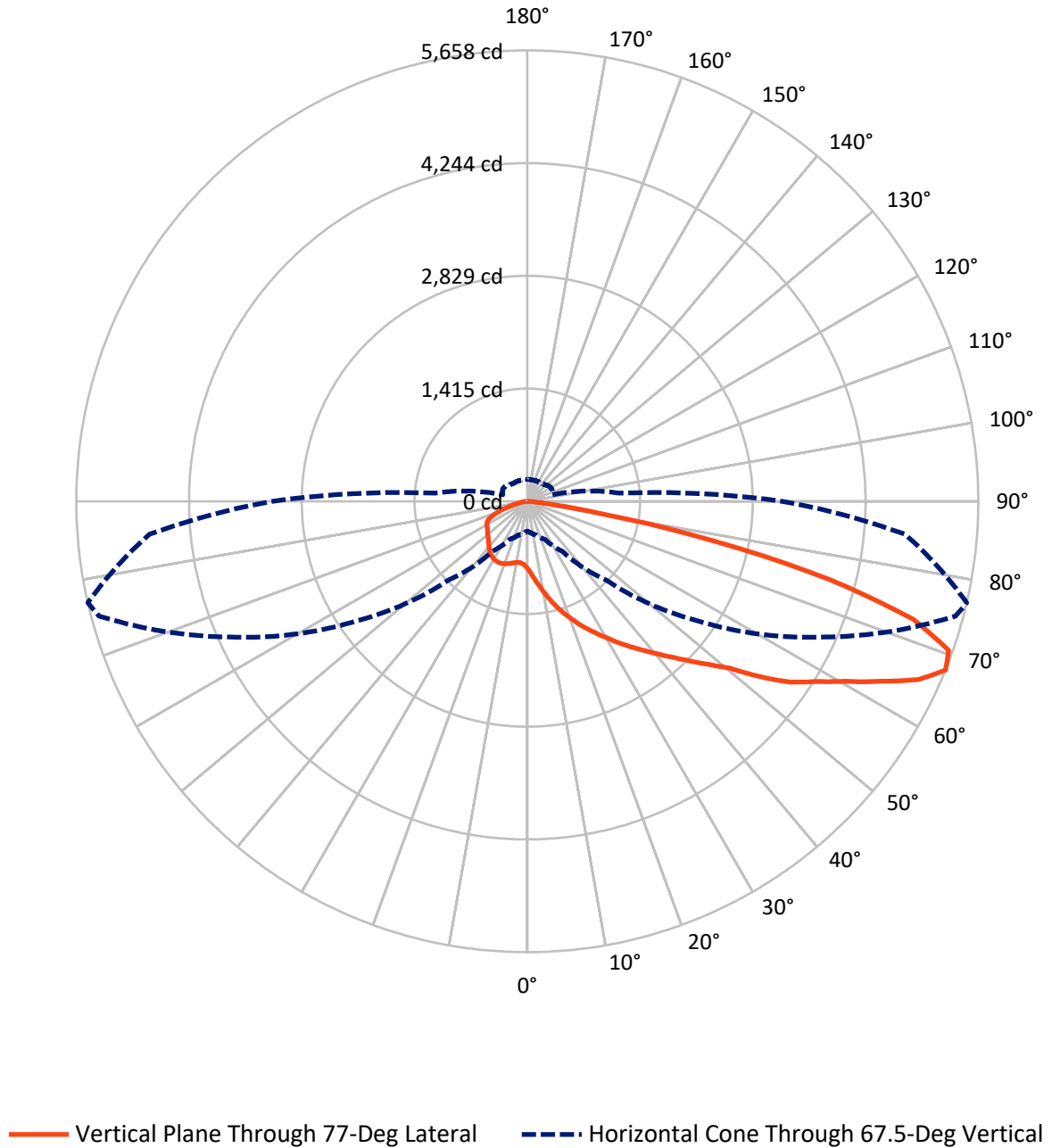
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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	1364.4	0.0	1364.4
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	5848.6	0.0	5848.6
	% Fixture	81.1	0.0	81.1
Total	Lumens	7213.0	0.0	7213.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.7	1.3
10°-20°	325.9	4.5
20°-30°	615.3	8.5
30°-40°	991.3	13.7
40°-50°	1355.9	18.8
50°-60°	1529.4	21.2
60°-70°	1427.5	19.8
70°-80°	782.5	10.8
80°-90°	94.4	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°	7213.0	100.0
0°-180°	7213.0	100.0

Coefficient of Utilization



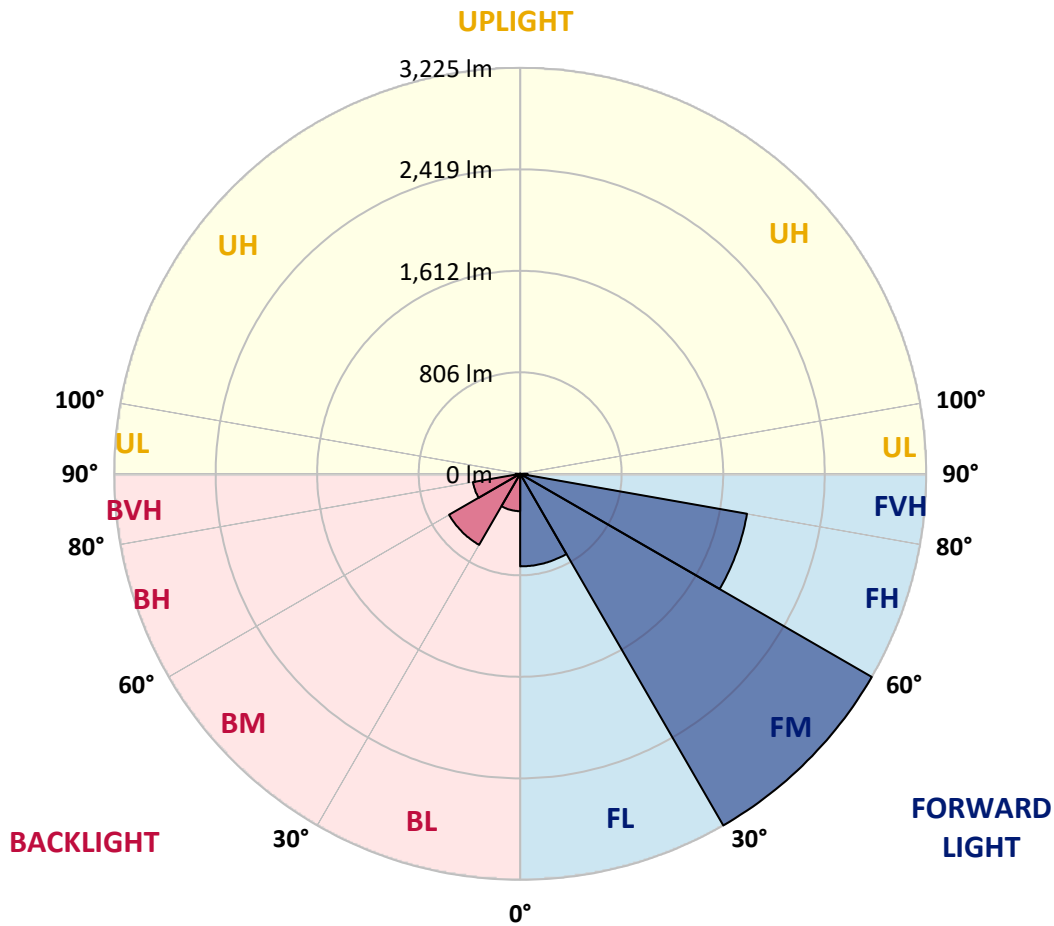
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	735.3	10.2			
FM (30°-60°)	3224.9	44.7			
FH (60°-80°)	1829.4	25.4			G2/5000
FVH (80°-90°)	59.0	0.8			G1/100
BL (0°-30°)	296.7	4.1	B1/500		
BM (30°-60°)	651.7	9.0	B1/1000		
BH (60°-80°)	380.6	5.3	B1/500		G1/500
BVH (80°-90°)	35.4	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°	846.3	846.3	846.3	846.3	846.3	846.3	846.3	846.3	846.3	846.3
2.5°	1059.7	1067.1	1057.8	1057.8	1026.5	1010.1	978.9	955.0	912.2	904.8
5°	1252.5	1261.8	1248.8	1243.2	1206.4	1172.5	1120.0	1068.2	991.9	984.1
7.5°	1401.8	1413.7	1402.2	1396.2	1363.5	1325.5	1264.1	1191.8	1084.2	1069.0
10°	1523.6	1525.4	1521.7	1524.0	1498.3	1467.0	1404.1	1319.9	1185.5	1164.7
12.5°	1592.5	1601.0	1608.5	1621.9	1617.4	1598.0	1541.5	1440.9	1292.7	1265.9
15°	1624.9	1639.7	1656.5	1687.4	1712.4	1717.2	1674.0	1570.9	1401.8	1369.4
17.5°	1636.4	1650.5	1677.0	1721.7	1775.3	1811.4	1792.0	1697.1	1509.8	1472.6
20°	1694.9	1698.9	1715.0	1757.4	1815.5	1875.4	1890.0	1818.5	1616.7	1574.6
22.5°	1820.0	1811.8	1816.2	1835.6	1877.3	1935.4	1968.5	1925.7	1726.5	1678.1
25°	2026.6	2002.8	1978.9	1956.6	1977.8	2010.6	2048.2	2032.9	1841.6	1780.1
27.5°	2287.6	2258.6	2206.1	2132.7	2107.0	2118.6	2135.3	2132.3	1948.0	1885.9
30°	2544.5	2510.6	2448.1	2342.0	2274.2	2243.7	2231.0	2222.4	2063.8	1997.6
32.5°	2749.7	2722.9	2661.4	2542.7	2444.4	2392.2	2350.2	2319.6	2184.8	2118.6
35°	2929.1	2904.2	2833.8	2704.2	2597.4	2541.9	2486.8	2421.6	2310.7	2243.7
37.5°	3093.0	3068.0	2971.6	2836.8	2729.2	2690.8	2641.7	2531.1	2436.9	2373.6
40°	3196.5	3190.9	3100.8	2948.1	2836.4	2817.4	2801.0	2658.1	2576.9	2518.1
42.5°	3222.9	3235.2	3163.7	3038.2	2931.7	2916.5	2954.8	2801.8	2734.0	2677.8
45°	3159.2	3194.6	3147.7	3062.4	2999.5	2991.3	3091.1	2958.9	2907.9	2856.5
47.5°	2998.0	3058.0	3038.6	3026.7	3017.7	3053.1	3211.0	3125.7	3104.9	3060.2
50°	2672.6	2786.2	2820.0	2895.2	2981.6	3101.1	3320.1	3307.8	3335.0	3289.9
52.5°	2110.0	2266.4	2463.0	2651.4	2870.7	3085.1	3440.0	3569.2	3683.8	3659.3
55°	1741.8	1812.1	1963.3	2308.8	2655.5	3017.7	3494.0	3780.3	4030.1	4008.1
57.5°	1458.8	1521.7	1614.8	1903.4	2330.0	2864.7	3527.5	3909.1	4267.3	4265.1
60°	1155.3	1222.0	1317.3	1521.7	1949.9	2600.4	3520.0	4055.8	4570.0	4588.6
62.5°	812.8	886.1	991.9	1182.5	1561.6	2257.8	3368.1	4161.9	4926.3	4977.0
65°	534.3	582.7	662.4	826.9	1163.5	1817.3	3078.1	4175.7	5307.6	5393.2
67.5°	374.6	393.2	440.1	529.5	767.0	1393.6	2616.0	4033.1	5561.9	5658.3
70°	292.3	301.6	325.4	361.2	481.8	937.2	2004.6	3662.3	5507.5	5608.1
72.5°	252.4	261.4	270.3	274.8	323.2	578.6	1357.9	3062.1	4995.6	5063.7
75°	229.0	231.2	238.7	237.2	246.5	375.3	783.8	2231.0	3941.5	3918.0
77.5°	192.5	195.5	207.8	205.9	218.9	256.5	407.0	1439.8	2555.3	2396.0
80°	163.1	164.6	178.0	175.7	190.3	185.8	207.8	733.9	1083.9	918.2
82.5°	56.6	70.0	135.9	140.0	145.2	112.4	119.9	299.4	331.0	253.6
85°	27.6	29.4	69.3	98.3	97.9	56.6	58.5	106.9	104.3	81.9
87.5°	4.5	5.6	8.2	38.4	30.5	14.9	20.1	20.9	21.6	18.6
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°
846.3	0°	846.3	846.3	846.3	846.3	846.3	846.3	846.3	846.3	846.3	846.3
876.5	2.5°	855.6	837.0	797.9	761.8	733.5	706.3	691.0	678.0	670.6	669.1
917.4	5°	878.7	840.4	769.2	709.3	670.2	641.2	625.9	616.2	611.4	608.4
972.5	7.5°	911.8	855.6	754.3	686.2	645.3	624.4	616.6	615.1	614.7	615.1
1039.2	10°	957.6	880.6	752.9	680.6	646.4	634.8	634.5	634.8	636.3	636.7
1111.8	12.5°	1007.2	906.3	758.8	685.5	660.5	654.2	653.1	652.7	653.8	654.6
1185.1	15°	1061.1	940.1	768.9	695.9	676.2	669.5	668.3	666.1	665.7	665.4
1262.2	17.5°	1116.6	973.6	780.0	707.1	686.2	676.9	672.8	667.6	663.5	662.4
1341.9	20°	1172.8	1006.8	787.9	712.6	687.0	673.9	665.7	656.8	649.7	645.6
1422.3	22.5°	1232.8	1041.4	792.7	711.2	680.2	662.4	647.5	637.1	626.3	619.2
1503.5	25°	1291.2	1071.6	792.3	703.3	667.2	644.5	625.5	612.1	597.2	589.8
1587.2	27.5°	1347.5	1098.7	783.0	689.6	648.6	623.3	600.6	584.6	570.0	563.0
1671.8	30°	1405.6	1121.5	768.5	669.5	626.6	598.7	573.8	560.0	547.0	540.3
1761.1	32.5°	1463.3	1142.3	748.0	644.5	601.3	574.5	549.9	537.3	529.5	529.5
1857.2	35°	1524.3	1156.8	720.8	615.5	574.5	548.8	529.5	522.0	521.3	516.8
1958.8	37.5°	1588.7	1166.1	687.7	585.7	548.1	523.9	517.9	509.0	501.5	491.8
2070.5	40°	1656.5	1175.4	647.9	554.8	520.1	506.7	504.1	492.2	471.0	447.2
2197.1	42.5°	1738.8	1181.8	606.5	523.9	490.7	486.3	490.0	469.5	435.6	417.8
2349.8	45°	1834.1	1192.2	568.5	493.3	460.6	460.6	476.2	449.4	421.5	410.3
2524.0	47.5°	1957.7	1216.4	533.2	459.8	432.6	440.1	445.7	425.2	409.6	395.8
2736.3	50°	2136.4	1274.5	496.7	425.9	411.4	426.3	418.5	406.6	388.3	377.2
3073.6	52.5°	2358.3	1308.7	464.3	395.4	393.2	408.1	396.9	385.7	372.0	357.1
3329.4	55°	2509.5	1315.1	437.1	373.1	380.9	379.4	375.3	365.3	357.8	338.1
3581.8	57.5°	2678.6	1327.7	414.8	359.7	373.1	356.7	355.2	346.6	337.0	323.6
3889.7	60°	2880.7	1347.5	395.4	354.5	366.4	341.8	334.4	331.0	321.3	314.6
4260.2	62.5°	3101.1	1365.3	375.7	355.2	358.6	327.3	316.1	315.0	309.0	306.8
4608.0	65°	3251.6	1316.6	351.1	354.5	346.3	312.4	298.2	297.9	293.0	292.3
4758.8	67.5°	3199.1	1162.0	318.0	344.0	333.6	297.5	281.9	280.4	274.0	274.4
4601.3	70°	2936.2	941.6	272.2	318.3	318.0	284.1	264.7	259.9	251.3	252.8
4000.7	72.5°	2443.2	697.7	210.7	275.5	293.0	271.8	245.0	237.2	226.4	227.9
2953.3	75°	1764.5	474.4	153.4	209.6	255.0	257.3	225.6	212.2	199.2	201.4
1643.8	77.5°	902.9	268.8	112.8	144.5	200.3	233.8	208.1	190.3	187.3	208.1
474.0	80°	294.5	134.8	78.2	101.3	131.4	191.4	182.4	162.0	161.2	166.1
99.4	82.5°	87.9	57.0	50.3	66.6	72.6	146.7	157.5	122.5	105.4	111.0
33.1	85°	30.2	27.6	28.7	33.1	34.6	86.0	110.2	81.2	76.7	84.5
7.4	87.5°	7.1	9.7	8.2	7.4	7.4	20.9	42.8	33.9	46.9	31.3
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>
846.3
669.1
608.0
616.2
637.1
654.9
665.0
663.5
647.1
619.6
589.8
562.6
539.9
529.8
515.7
490.4
443.8
418.1
412.2
395.4
376.1
354.1
338.4
319.1
316.5
306.8
291.9
274.4
254.3
227.5
202.2
205.2
142.6
114.7
83.4
30.2
0.0

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