

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: P946083

Luminaire Tested: **GALN-SB1D-830-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946083
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-830-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9316 lumens
Efficiency: N/A
Efficacy: 117.0 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

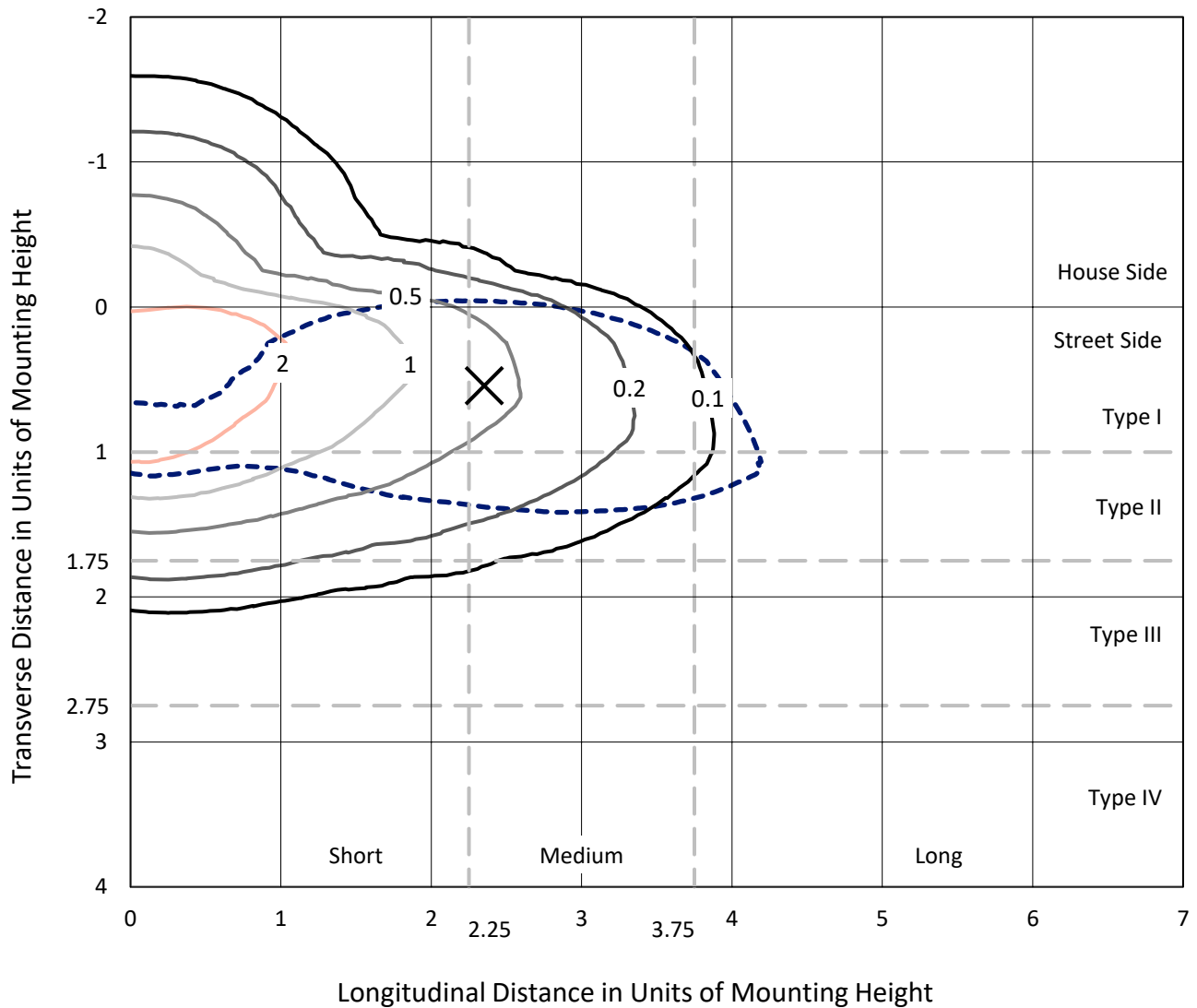
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

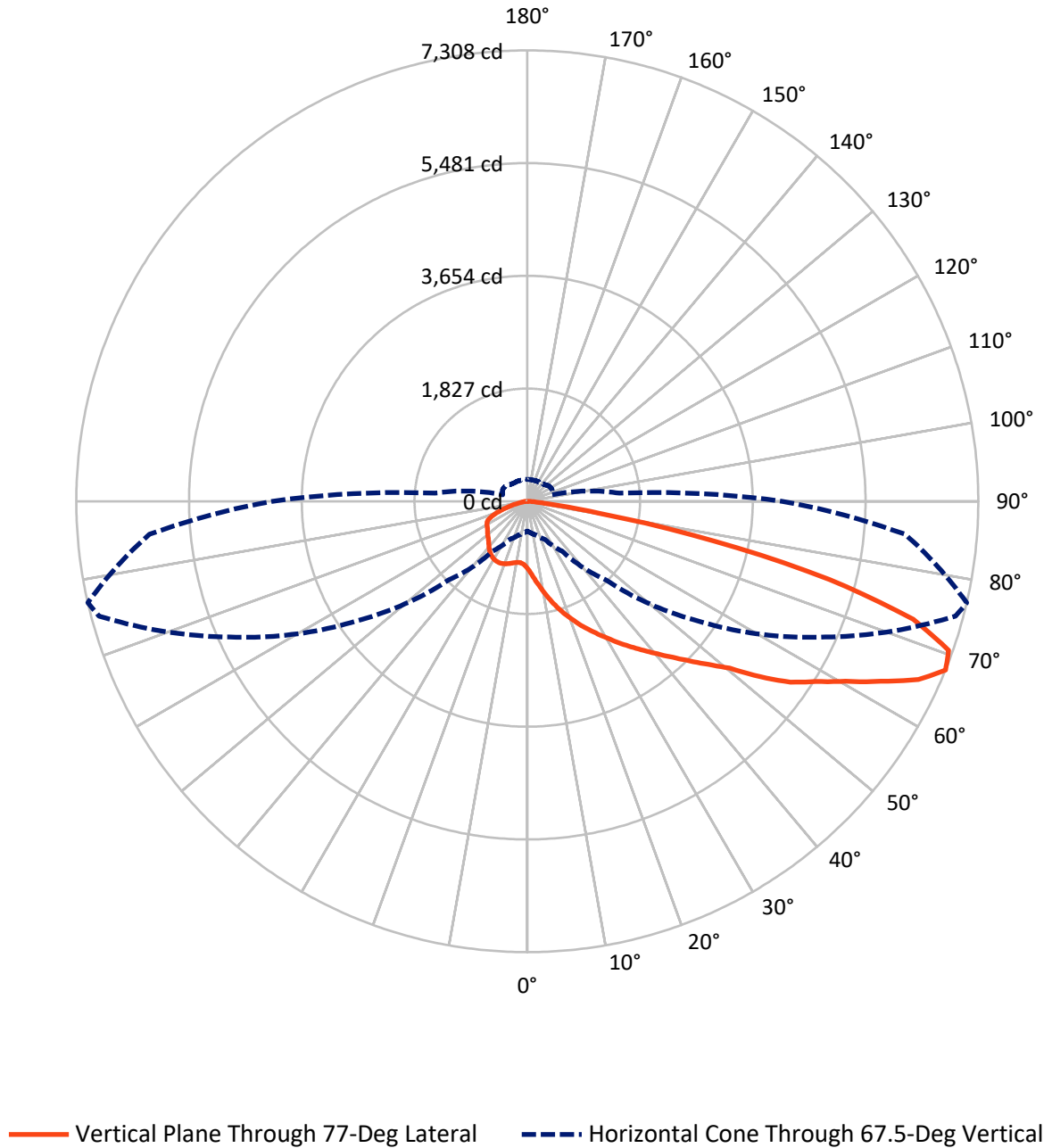
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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	1762.2	0.0	1762.2
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	7553.8	0.0	7553.8
	% Fixture	81.1	0.0	81.1
Total	Lumens	9316.0	0.0	9316.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.2	1.3
10°-20°	420.9	4.5
20°-30°	794.7	8.5
30°-40°	1280.3	13.7
40°-50°	1751.2	18.8
50°-60°	1975.4	21.2
60°-70°	1843.8	19.8
70°-80°	1010.7	10.8
80°-90°	121.9	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°	9316.0	100.0
0°-180°	9316.0	100.0

Coefficient of Utilization



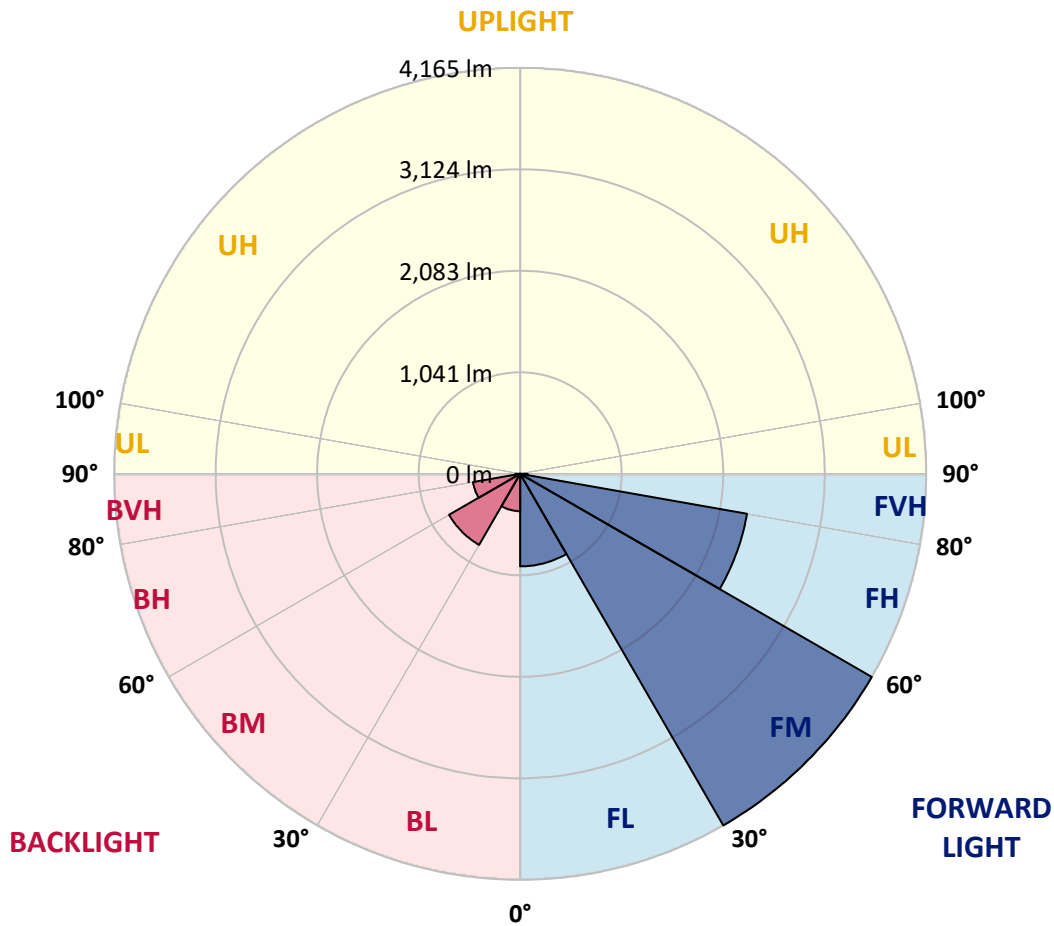
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	949.7	10.2			
FM (30°-60°)	4165.1	44.7			
FH (60°-80°)	2362.8	25.4			G2/5000
FVH (80°-90°)	76.2	0.8			G1/100
BL (0°-30°)	383.1	4.1	B1/500		
BM (30°-60°)	841.8	9.0	B1/1000		
BH (60°-80°)	491.6	5.3	B1/500		G1/500
BVH (80°-90°)	45.7	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1093.1	1093.1	1093.1	1093.1	1093.1	1093.1	1093.1	1093.1	1093.1	1093.1
2.5°	1368.6	1378.2	1366.2	1366.2	1325.8	1304.6	1264.3	1233.5	1178.2	1168.6
5°	1617.7	1629.7	1612.9	1605.7	1558.1	1514.3	1446.5	1379.7	1281.1	1271.0
7.5°	1810.5	1825.9	1811.0	1803.3	1761.0	1712.0	1632.6	1539.3	1400.3	1380.6
10°	1967.8	1970.2	1965.4	1968.3	1935.1	1894.7	1813.4	1704.7	1531.1	1504.2
12.5°	2056.8	2067.8	2077.4	2094.7	2089.0	2064.0	1990.9	1861.0	1669.6	1635.0
15°	2098.6	2117.8	2139.5	2179.4	2211.6	2217.9	2162.1	2028.9	1810.5	1768.7
17.5°	2113.5	2131.8	2165.9	2223.6	2292.9	2339.5	2314.5	2191.9	1950.0	1901.9
20°	2189.0	2194.3	2215.0	2269.8	2344.8	2422.2	2441.0	2348.7	2088.0	2033.7
22.5°	2350.6	2340.0	2345.8	2370.8	2424.6	2499.7	2542.4	2487.1	2229.9	2167.4
25°	2617.5	2586.7	2555.9	2527.1	2554.5	2596.8	2645.4	2625.6	2378.5	2299.1
27.5°	2954.6	2917.1	2849.3	2754.5	2721.3	2736.2	2757.9	2754.0	2516.0	2435.7
30°	3286.4	3242.6	3161.8	3024.8	2937.3	2897.8	2881.5	2870.4	2665.6	2580.0
32.5°	3551.4	3516.7	3437.4	3284.0	3157.0	3089.7	3035.4	2995.9	2821.8	2736.2
35°	3783.1	3750.9	3660.0	3492.7	3354.7	3283.0	3211.8	3127.7	2984.4	2897.8
37.5°	3994.7	3962.5	3838.0	3663.9	3524.9	3475.4	3411.9	3269.1	3147.4	3065.7
40°	4128.4	4121.2	4004.8	3807.7	3663.4	3638.9	3617.7	3433.1	3328.2	3252.2
42.5°	4162.6	4178.4	4086.1	3924.0	3786.5	3766.8	3816.3	3618.7	3531.2	3458.5
45°	4080.3	4126.0	4065.4	3955.3	3874.0	3863.4	3992.3	3821.6	3755.7	3689.4
47.5°	3872.1	3949.5	3924.5	3909.1	3897.6	3943.3	4147.2	4037.0	4010.1	3952.4
50°	3451.8	3598.5	3642.2	3739.4	3850.9	4005.3	4288.1	4272.2	4307.3	4249.1
52.5°	2725.2	2927.2	3181.1	3424.4	3707.6	3984.6	4442.9	4609.8	4757.9	4726.2
55°	2249.6	2340.5	2535.7	2982.0	3429.7	3897.6	4512.6	4882.4	5205.1	5176.7
57.5°	1884.1	1965.4	2085.6	2458.3	3009.4	3699.9	4555.9	5048.8	5511.4	5508.6
60°	1492.2	1578.3	1701.4	1965.4	2518.4	3358.5	4546.3	5238.3	5902.4	5926.5
62.5°	1049.8	1144.5	1281.1	1527.3	2016.8	2916.1	4350.1	5375.4	6362.6	6428.0
65°	690.1	752.6	855.5	1068.1	1502.8	2347.2	3975.5	5393.1	6855.0	6965.6
67.5°	483.8	507.8	568.4	683.8	990.6	1800.0	3378.7	5209.0	7183.5	7308.0
70°	377.5	389.5	420.3	466.5	622.3	1210.4	2589.1	4730.0	7113.3	7243.1
72.5°	326.0	337.6	349.1	354.9	417.4	747.3	1753.8	3954.8	6452.1	6540.1
75°	295.7	298.6	308.2	306.3	318.3	484.7	1012.3	2881.5	5090.7	5060.4
77.5°	248.6	252.5	268.3	265.9	282.8	331.3	525.6	1859.6	3300.3	3094.5
80°	210.6	212.6	229.9	227.0	245.7	240.0	268.3	947.8	1399.9	1185.9
82.5°	73.1	90.4	175.5	180.8	187.5	145.2	154.8	386.6	427.5	327.5
85°	35.6	38.0	89.4	127.0	126.5	73.1	75.5	138.0	134.6	105.8
87.5°	5.8	7.2	10.6	49.5	39.4	19.2	26.0	26.9	27.9	24.0
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°
1093.1	0°	1093.1	1093.1	1093.1	1093.1	1093.1	1093.1	1093.1	1093.1	1093.1	1093.1
1132.0	2.5°	1105.1	1081.0	1030.5	983.9	947.3	912.2	892.5	875.7	866.1	864.2
1184.9	5°	1134.9	1085.4	993.5	916.1	865.6	828.1	808.4	795.9	789.6	785.8
1256.1	7.5°	1177.7	1105.1	974.3	886.3	833.4	806.4	796.3	794.4	793.9	794.4
1342.2	10°	1236.8	1137.3	972.4	879.1	834.8	819.9	819.4	819.9	821.8	822.3
1435.9	12.5°	1300.8	1170.5	980.0	885.3	853.1	844.9	843.5	843.0	844.4	845.4
1530.7	15°	1370.5	1214.2	993.0	898.8	873.3	864.6	863.2	860.3	859.8	859.3
1630.2	17.5°	1442.2	1257.5	1007.5	913.2	886.3	874.3	869.0	862.2	856.9	855.5
1733.1	20°	1514.8	1300.3	1017.6	920.4	887.2	870.4	859.8	848.3	839.1	833.9
1837.0	22.5°	1592.2	1345.0	1023.8	918.5	878.6	855.5	836.3	822.8	808.9	799.7
1941.8	25°	1667.7	1384.0	1023.3	908.4	861.7	832.4	807.9	790.6	771.3	761.7
2050.0	27.5°	1740.3	1419.1	1011.3	890.6	837.7	805.0	775.7	755.0	736.2	727.1
2159.2	30°	1815.3	1448.4	992.6	864.6	809.3	773.3	741.0	723.3	706.4	697.8
2274.6	32.5°	1889.9	1475.4	966.1	832.4	776.6	742.0	710.3	693.9	683.8	683.8
2398.7	35°	1968.8	1494.1	931.0	794.9	742.0	708.8	683.8	674.2	673.2	667.5
2529.9	37.5°	2051.9	1506.1	888.2	756.4	707.9	676.6	668.9	657.4	647.8	635.3
2674.2	40°	2139.5	1518.2	836.7	716.5	671.8	654.5	651.1	635.7	608.3	577.5
2837.7	42.5°	2245.7	1526.3	783.4	676.6	633.8	628.0	632.8	606.4	562.6	539.6
3034.9	45°	2368.8	1539.8	734.3	637.2	594.9	594.9	615.1	580.4	544.4	529.9
3259.9	47.5°	2528.5	1571.1	688.6	593.9	558.8	568.4	575.6	549.2	529.0	511.2
3534.0	50°	2759.3	1646.1	641.5	550.1	531.4	550.6	540.5	525.1	501.6	487.1
3969.7	52.5°	3045.9	1690.3	599.7	510.7	507.8	527.1	512.6	498.2	480.4	461.2
4300.1	55°	3241.2	1698.5	564.6	481.8	491.9	490.0	484.7	471.8	462.1	436.6
4626.1	57.5°	3459.5	1714.8	535.7	464.5	481.8	460.7	458.8	447.7	435.2	417.9
5023.8	60°	3720.6	1740.3	510.7	457.8	473.2	441.5	431.8	427.5	415.0	406.3
5502.3	62.5°	4005.3	1763.4	485.2	458.8	463.1	422.7	408.3	406.8	399.1	396.3
5951.5	65°	4199.6	1700.4	453.5	457.8	447.2	403.5	385.2	384.7	378.5	377.5
6146.2	67.5°	4131.8	1500.8	410.7	444.3	430.9	384.2	364.0	362.1	353.9	354.4
5942.8	70°	3792.3	1216.2	351.5	411.2	410.7	366.9	341.9	335.7	324.6	326.5
5167.1	72.5°	3155.6	901.2	272.2	355.9	378.5	351.0	316.4	306.3	292.4	294.3
3814.4	75°	2278.9	612.7	198.1	270.7	329.4	332.3	291.4	274.1	257.3	260.2
2123.1	77.5°	1166.2	347.2	145.7	186.6	258.7	302.0	268.8	245.7	241.9	268.8
612.2	80°	380.4	174.1	101.0	130.8	169.8	247.2	235.6	209.2	208.2	214.5
128.4	82.5°	113.5	73.6	64.9	86.1	93.8	189.5	203.4	158.2	136.1	143.3
42.8	85°	39.0	35.6	37.0	42.8	44.7	111.1	142.3	104.8	99.1	109.2
9.6	87.5°	9.1	12.5	10.6	9.6	9.6	26.9	55.3	43.8	60.6	40.4
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

180°
1093.1
864.2
785.3
795.9
822.8
845.9
858.9
856.9
835.8
800.2
761.7
726.6
697.3
684.3
666.0
633.3
573.2
540.0
532.3
510.7
485.7
457.3
437.1
412.1
408.8
396.3
377.0
354.4
328.4
293.8
261.1
265.0
184.2
148.1
107.7
39.0
0.0

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