

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: P946797

Luminaire Tested: **GALN-SB2B-830-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946797
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-830-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10306 lumens
Efficiency: N/A
Efficacy: 139.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

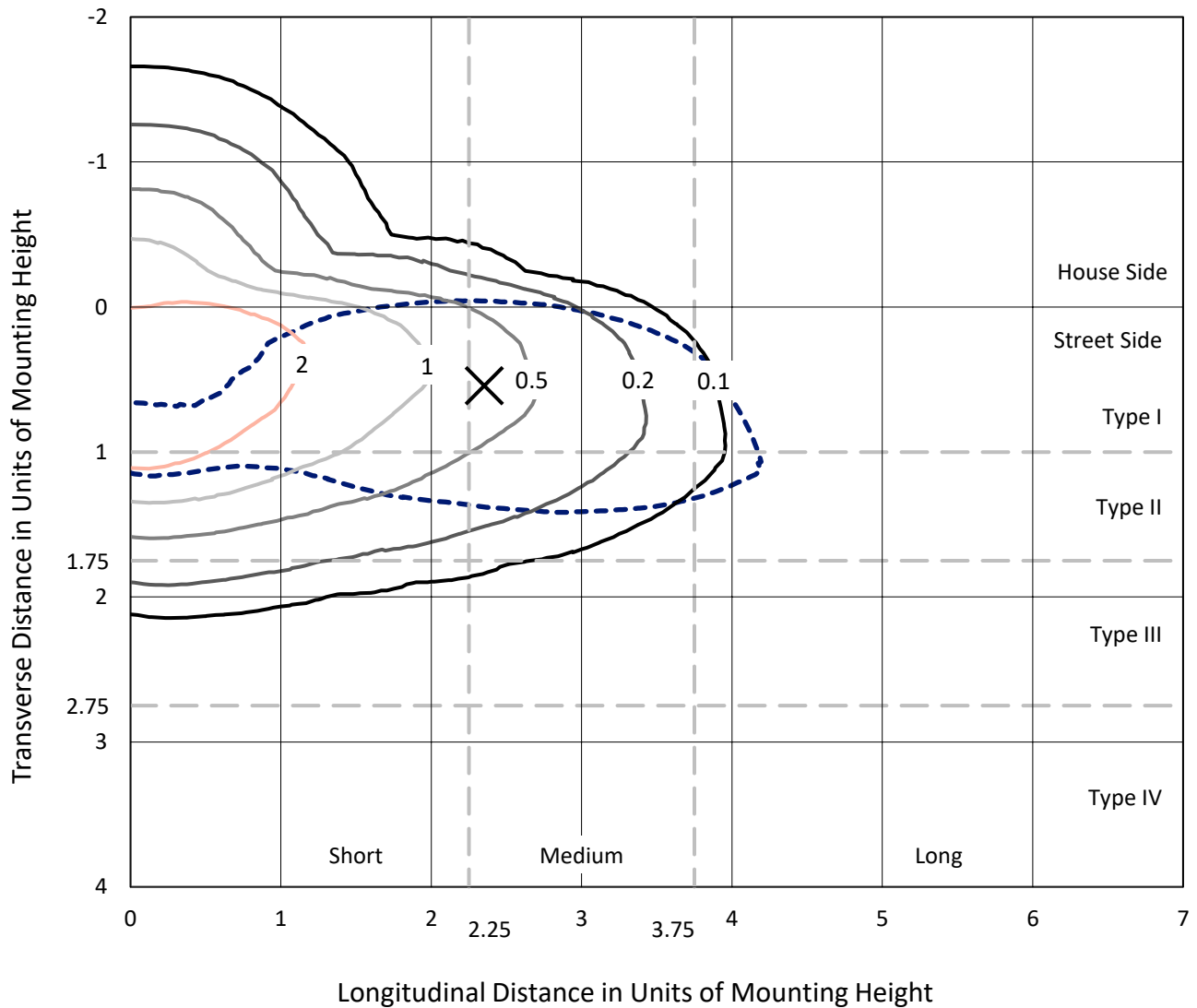
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

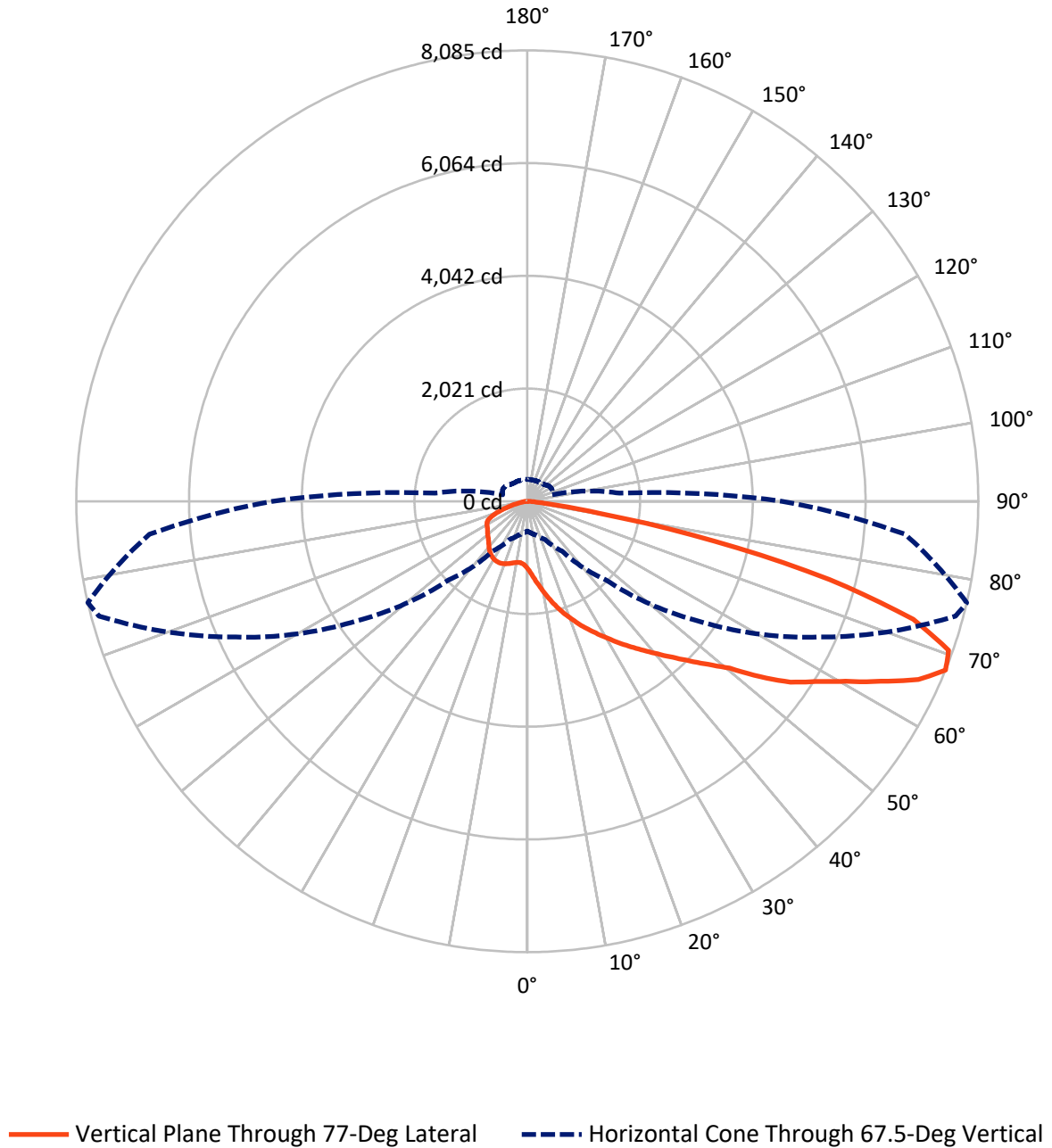
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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	1949.5	0.0	1949.5
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	8356.5	0.0	8356.5
	% Fixture	81.1	0.0	81.1
Total	Lumens	10306.0	0.0	10306.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.6	1.3
10°-20°	465.6	4.5
20°-30°	879.2	8.5
30°-40°	1416.3	13.7
40°-50°	1937.3	18.8
50°-60°	2185.3	21.2
60°-70°	2039.7	19.8
70°-80°	1118.1	10.8
80°-90°	134.9	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°	10306.0	100.0
0°-180°	10306.0	100.0

Coefficient of Utilization



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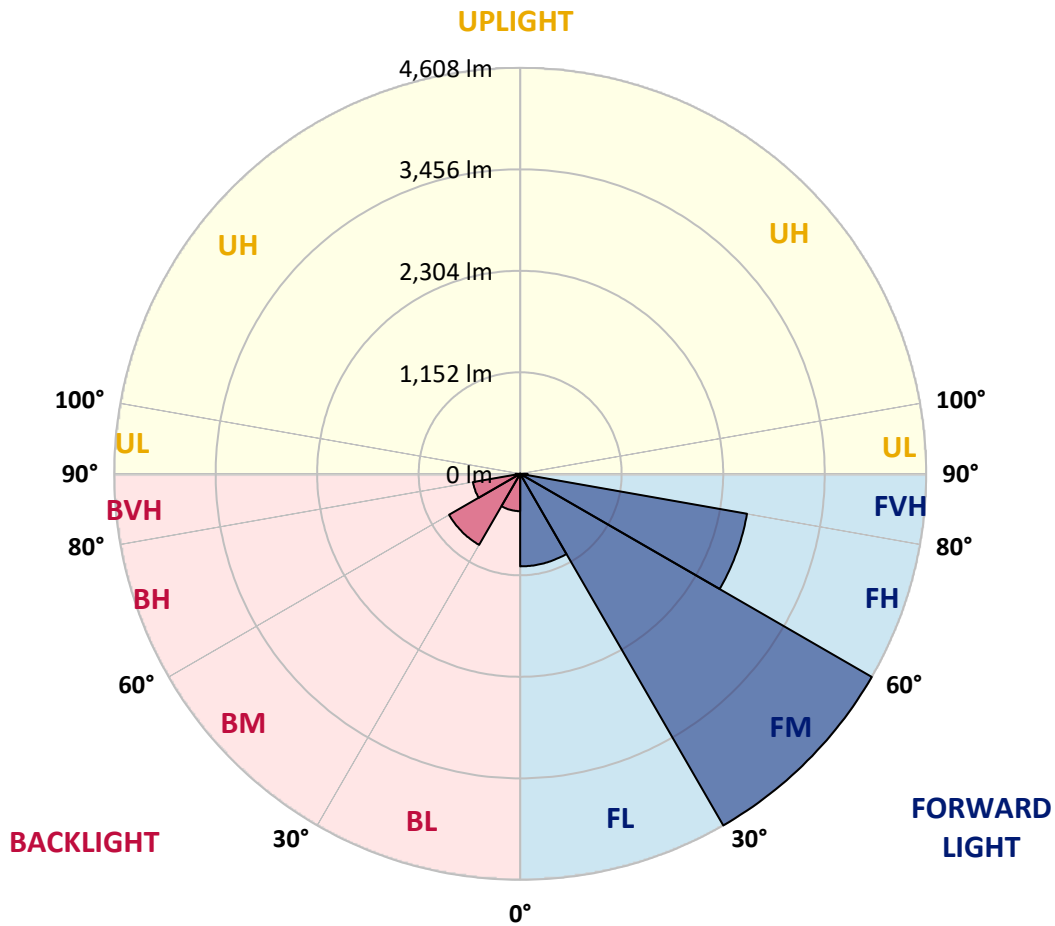
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1050.6	10.2			
FM (30°-60°)	4607.7	44.7			
FH (60°-80°)	2613.9	25.4			G2/5000
FVH (80°-90°)	84.3	0.8			G1/100
BL (0°-30°)	423.9	4.1	B1/500		
BM (30°-60°)	931.2	9.0	B1/1000		
BH (60°-80°)	543.9	5.3	B2/1000		G2/1000
BVH (80°-90°)	50.5	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°	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2
2.5°	1514.0	1524.7	1511.4	1511.4	1466.7	1443.3	1398.6	1364.6	1303.4	1292.7
5°	1789.6	1802.9	1784.3	1776.3	1723.6	1675.2	1600.2	1526.3	1417.2	1406.1
7.5°	2002.9	2020.0	2003.5	1995.0	1948.1	1893.9	1806.1	1702.9	1549.2	1527.3
10°	2176.9	2179.6	2174.2	2177.4	2140.7	2096.0	2006.1	1885.9	1693.9	1664.1
12.5°	2275.3	2287.6	2298.2	2317.3	2311.0	2283.3	2202.4	2058.8	1847.1	1808.8
15°	2321.6	2342.9	2366.8	2411.0	2446.6	2453.5	2391.8	2244.5	2002.9	1956.7
17.5°	2338.1	2358.3	2396.1	2459.9	2536.5	2588.1	2560.5	2424.8	2157.2	2104.0
20°	2421.6	2427.5	2450.3	2511.0	2594.0	2679.6	2700.4	2598.2	2309.9	2249.8
22.5°	2600.4	2588.7	2595.0	2622.7	2682.3	2765.3	2812.6	2751.5	2466.8	2397.7
25°	2895.6	2861.6	2827.5	2795.6	2825.9	2872.7	2926.5	2904.7	2631.2	2543.4
27.5°	3268.5	3227.1	3152.0	3047.2	3010.5	3027.0	3051.0	3046.7	2783.4	2694.5
30°	3635.6	3587.2	3497.8	3346.2	3249.4	3205.8	3187.7	3175.5	2948.8	2854.1
32.5°	3928.7	3890.4	3802.7	3633.0	3492.5	3418.0	3357.9	3314.3	3121.7	3027.0
35°	4185.2	4149.5	4049.0	3863.8	3711.2	3631.9	3553.2	3460.1	3301.5	3205.8
37.5°	4419.2	4383.6	4245.8	4053.2	3899.5	3844.7	3774.5	3616.5	3481.9	3391.4
40°	4567.1	4559.2	4430.4	4212.3	4052.7	4025.6	4002.2	3797.9	3681.9	3597.9
42.5°	4604.9	4622.5	4520.3	4341.0	4188.9	4167.1	4221.9	4003.2	3906.4	3826.1
45°	4513.9	4564.5	4497.4	4375.6	4285.7	4274.0	4416.6	4227.7	4154.8	4081.4
47.5°	4283.6	4369.2	4341.6	4324.5	4311.8	4362.3	4587.9	4466.1	4436.3	4372.4
50°	3818.6	3980.9	4029.3	4136.8	4260.2	4430.9	4743.8	4726.2	4765.0	4700.7
52.5°	3014.8	3238.2	3519.1	3788.3	4101.6	4408.1	4915.1	5099.7	5263.5	5228.4
55°	2488.7	2589.2	2805.2	3298.9	3794.2	4311.8	4992.2	5401.3	5758.3	5726.9
57.5°	2084.3	2174.2	2307.2	2719.5	3329.2	4093.1	5040.1	5585.4	6097.1	6093.9
60°	1650.8	1746.0	1882.2	2174.2	2786.0	3715.4	5029.4	5795.0	6529.6	6556.2
62.5°	1161.3	1266.1	1417.2	1689.6	2231.2	3226.0	4812.4	5946.6	7038.8	7111.1
65°	763.4	832.6	946.4	1181.6	1662.5	2596.6	4398.0	5966.3	7583.5	7705.9
67.5°	535.2	561.8	628.8	756.5	1095.9	1991.2	3737.8	5762.5	7946.9	8084.7
70°	417.6	430.9	465.0	516.0	688.4	1339.0	2864.2	5232.7	7869.2	8012.8
72.5°	360.7	373.5	386.2	392.6	461.8	826.7	1940.2	4375.1	7137.7	7235.1
75°	327.2	330.4	341.0	338.9	352.2	536.2	1119.8	3187.7	5631.6	5598.1
77.5°	275.0	279.3	296.9	294.2	312.8	366.5	581.5	2057.2	3651.0	3423.4
80°	233.0	235.1	254.3	251.1	271.8	265.5	296.9	1048.6	1548.6	1311.9
82.5°	80.9	100.0	194.2	200.0	207.5	160.7	171.3	427.7	472.9	362.3
85°	39.4	42.0	99.0	140.4	139.9	80.9	83.5	152.7	149.0	117.0
87.5°	6.4	8.0	11.7	54.8	43.6	21.3	28.7	29.8	30.9	26.6
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°
1209.2	0°	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2	1209.2
1252.3	2.5°	1222.5	1195.9	1140.1	1088.5	1048.0	1009.2	987.4	968.8	958.1	956.0
1310.8	5°	1255.5	1200.7	1099.1	1013.4	957.6	916.1	894.3	880.4	873.5	869.3
1389.6	7.5°	1302.8	1222.5	1077.8	980.5	921.9	892.1	881.0	878.8	878.3	878.8
1484.8	10°	1368.3	1258.2	1075.7	972.5	923.5	907.0	906.5	907.0	909.2	909.7
1588.5	12.5°	1439.0	1294.9	1084.2	979.4	943.8	934.7	933.1	932.6	934.2	935.2
1693.3	15°	1516.2	1343.3	1098.6	994.3	966.1	956.5	954.9	951.7	951.2	950.7
1803.4	17.5°	1595.4	1391.2	1114.5	1010.2	980.5	967.2	961.3	953.9	948.0	946.4
1917.3	20°	1675.8	1438.5	1125.7	1018.2	981.5	962.9	951.2	938.4	928.3	922.5
2032.2	22.5°	1761.4	1488.0	1132.6	1016.1	971.9	946.4	925.1	910.2	894.8	884.7
2148.2	25°	1844.9	1531.1	1132.1	1004.9	953.3	920.9	893.7	874.6	853.3	842.7
2267.9	27.5°	1925.3	1569.9	1118.8	985.2	926.7	890.6	858.1	835.2	814.5	804.4
2388.6	30°	2008.3	1602.4	1098.0	956.5	895.3	855.4	819.8	800.1	781.5	771.9
2516.3	32.5°	2090.7	1632.1	1068.8	920.9	859.2	820.9	785.7	767.7	756.5	756.5
2653.6	35°	2178.0	1652.9	1029.9	879.4	820.9	784.2	756.5	745.9	744.8	738.4
2798.8	37.5°	2270.0	1666.2	982.6	836.8	783.1	748.5	740.0	727.2	716.6	702.8
2958.4	40°	2366.8	1679.5	925.7	792.7	743.2	724.0	720.3	703.3	673.0	638.9
3139.3	42.5°	2484.4	1688.5	866.6	748.5	701.2	694.8	700.1	670.8	622.4	596.9
3357.4	45°	2620.6	1703.4	812.3	704.9	658.1	658.1	680.4	642.1	602.2	586.3
3606.4	47.5°	2797.2	1738.0	761.8	657.0	618.2	628.8	636.8	607.5	585.2	565.5
3909.6	50°	3052.6	1821.0	709.7	608.6	587.8	609.1	598.0	580.9	554.9	538.9
4391.6	52.5°	3369.6	1869.9	663.4	565.0	561.8	583.1	567.1	551.1	531.5	510.2
4757.1	55°	3585.6	1879.0	624.6	533.1	544.2	542.1	536.2	521.9	511.2	483.0
5117.7	57.5°	3827.1	1897.1	592.6	513.9	533.1	509.6	507.5	495.3	481.5	462.3
5557.7	60°	4116.0	1925.3	565.0	506.5	523.5	488.4	477.7	472.9	459.1	449.5
6087.0	62.5°	4430.9	1950.8	536.8	507.5	512.3	467.6	451.7	450.1	441.6	438.4
6583.9	65°	4645.9	1881.1	501.7	506.5	494.8	446.3	426.1	425.6	418.7	417.6
6799.4	67.5°	4570.9	1660.3	454.3	491.6	476.7	425.1	402.7	400.6	391.5	392.1
6574.3	70°	4195.3	1345.4	388.9	454.9	454.3	405.9	378.2	371.3	359.1	361.2
5716.2	72.5°	3490.9	996.9	301.1	393.7	418.7	388.4	350.0	338.9	323.5	325.6
4219.7	75°	2521.1	677.8	219.2	299.5	364.4	367.6	322.4	303.2	284.6	287.8
2348.7	77.5°	1290.1	384.1	161.2	206.4	286.2	334.1	297.4	271.8	267.6	297.4
677.2	80°	420.8	192.6	111.7	144.7	187.8	273.4	260.7	231.4	230.4	237.3
142.0	82.5°	125.5	81.4	71.8	95.2	103.7	209.6	225.0	175.0	150.6	158.5
47.3	85°	43.1	39.4	41.0	47.3	49.5	122.9	157.5	116.0	109.6	120.8
10.6	87.5°	10.1	13.8	11.7	10.6	10.6	29.8	61.2	48.4	67.0	44.7
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°
1209.2
956.0
868.7
880.4
910.2
935.8
950.1
948.0
924.6
885.2
842.7
803.8
771.4
757.0
736.8
700.6
634.1
597.4
588.9
565.0
537.3
505.9
483.6
455.9
452.2
438.4
417.1
392.1
363.3
325.0
288.9
293.1
203.8
163.9
119.2
43.1
0.0

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