

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: P949737

Luminaire Tested: **GALN-SB4B-927-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949737
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-SB4B-927-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13992 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

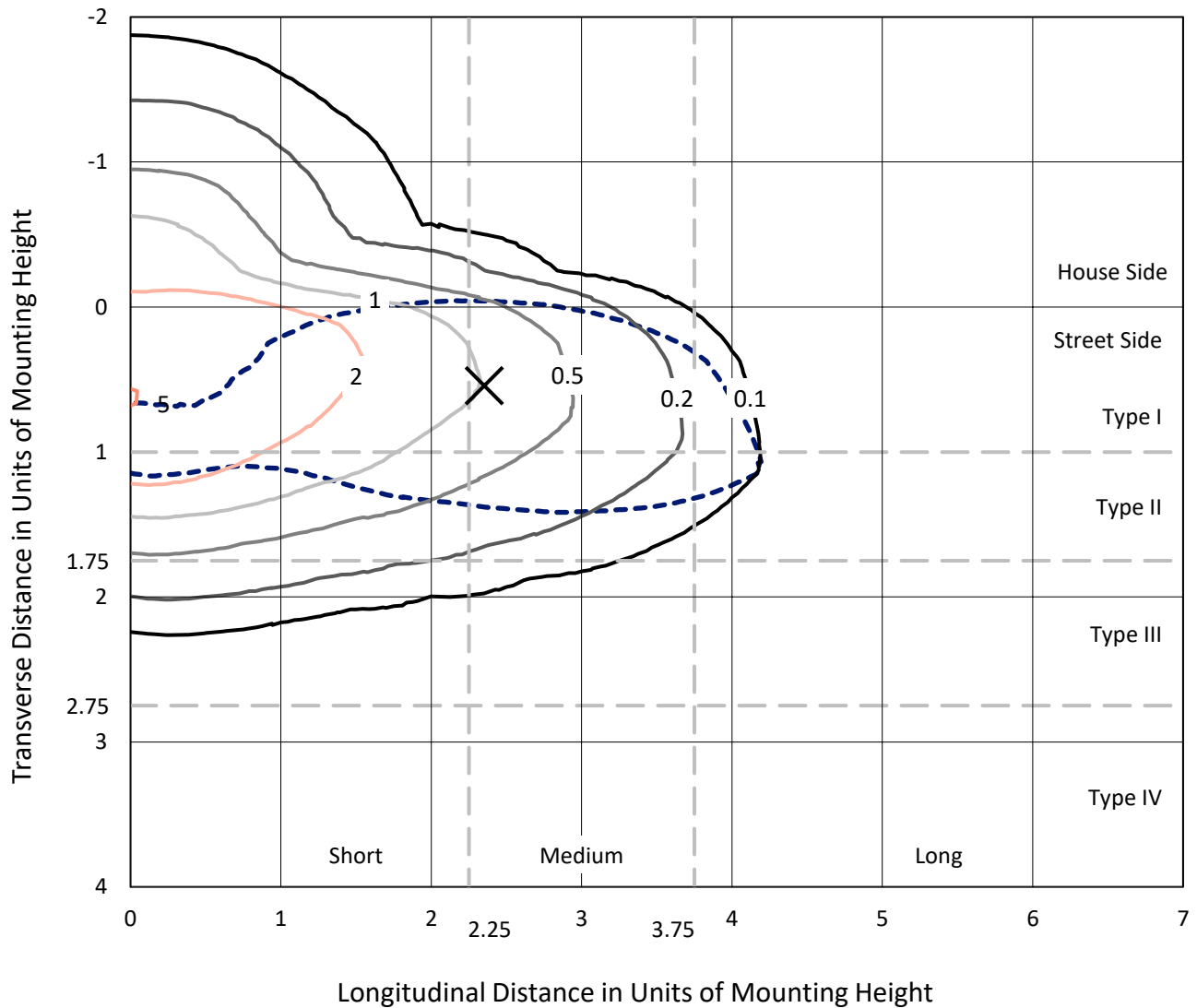
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

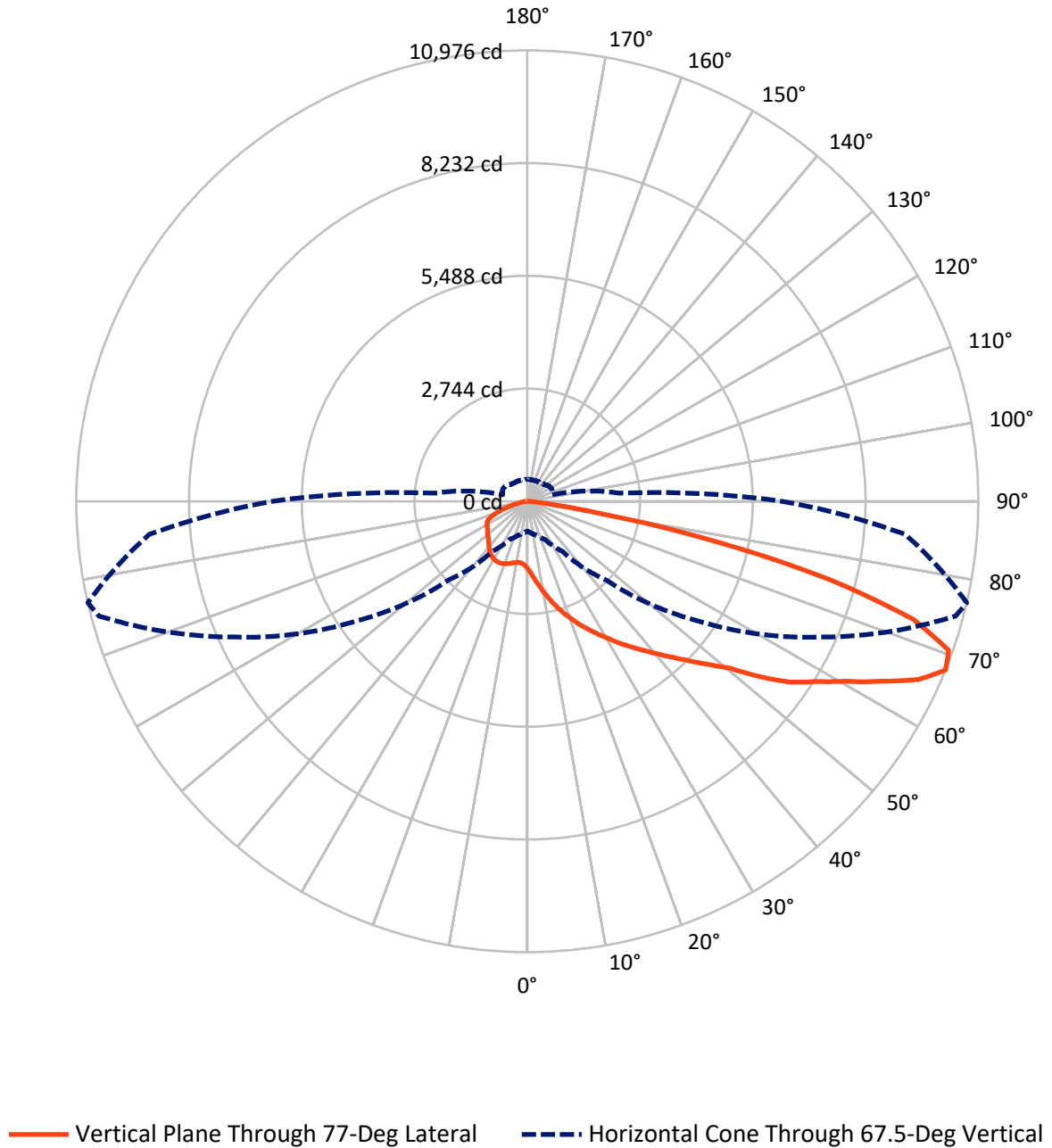
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	2646.7	0.0	2646.7
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	11345.3	0.0	11345.3
	% Fixture	81.1	0.0	81.1
Total	Lumens	13992.0	0.0	13992.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.0	1.3
10°-20°	632.2	4.5
20°-30°	1193.6	8.5
30°-40°	1922.9	13.7
40°-50°	2630.2	18.8
50°-60°	2966.9	21.2
60°-70°	2769.2	19.8
70°-80°	1518.0	10.8
80°-90°	183.1	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°	13992.0	100.0
0°-180°	13992.0	100.0

Coefficient of Utilization



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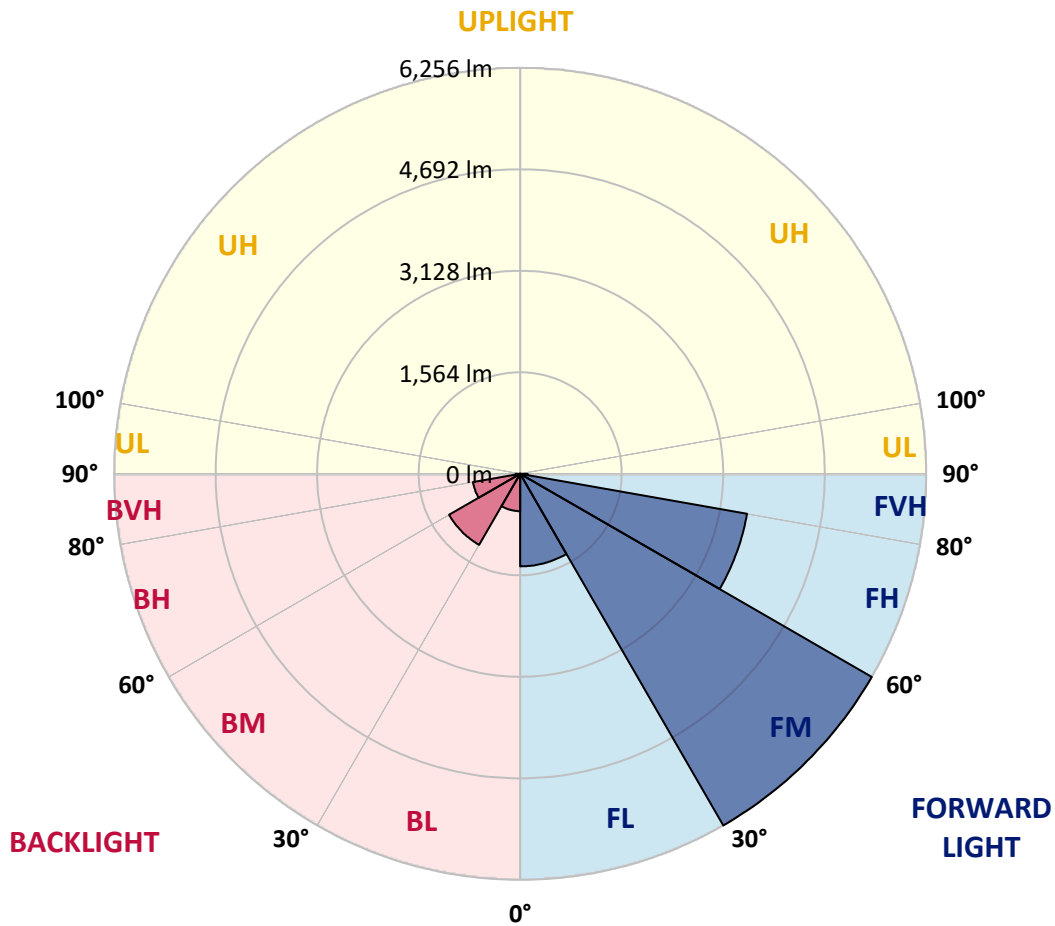
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1426.3	10.2			
FM (30°-60°)	6255.7	44.7			
FH (60°-80°)	3548.8	25.4			G2/5000
FVH (80°-90°)	114.5	0.8			G2/225
BL (0°-30°)	575.5	4.1	B2/1000		
BM (30°-60°)	1264.3	9.0	B2/2500		
BH (60°-80°)	738.4	5.3	B2/1000		G2/1000
BVH (80°-90°)	68.6	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°	1641.7	1641.7	1641.7	1641.7	1641.7	1641.7	1641.7	1641.7	1641.7	1641.7
2.5°	2055.6	2070.0	2051.9	2051.9	1991.3	1959.5	1898.8	1852.6	1769.5	1755.1
5°	2429.7	2447.7	2422.5	2411.6	2340.1	2274.4	2172.6	2072.2	1924.1	1908.9
7.5°	2719.3	2742.4	2720.0	2708.5	2644.9	2571.2	2452.1	2312.0	2103.2	2073.6
10°	2955.5	2959.1	2951.9	2956.2	2906.4	2845.7	2723.6	2560.4	2299.7	2259.2
12.5°	3089.1	3105.7	3120.2	3146.2	3137.5	3099.9	2990.2	2795.1	2507.7	2455.7
15°	3151.9	3180.8	3213.3	3273.3	3321.7	3331.1	3247.3	3047.2	2719.3	2656.5
17.5°	3174.3	3201.8	3253.1	3339.7	3443.7	3513.8	3476.2	3292.1	2928.8	2856.5
20°	3287.7	3295.7	3326.7	3409.1	3521.7	3638.0	3666.2	3527.5	3136.1	3054.4
22.5°	3530.4	3514.5	3523.2	3560.7	3641.6	3754.3	3818.6	3735.5	3349.1	3255.2
25°	3931.3	3885.0	3838.8	3795.5	3836.6	3900.2	3973.2	3943.5	3572.3	3453.1
27.5°	4437.6	4381.2	4279.4	4137.1	4087.3	4109.7	4142.2	4136.4	3778.9	3658.2
30°	4935.9	4870.2	4748.9	4543.0	4411.6	4352.3	4327.8	4311.2	4003.5	3874.9
32.5°	5333.9	5281.9	5162.7	4932.3	4741.6	4640.5	4558.9	4499.7	4238.2	4109.7
35°	5682.0	5633.6	5497.1	5245.8	5038.5	4930.9	4824.0	4697.6	4482.3	4352.3
37.5°	5999.8	5951.4	5764.4	5502.9	5294.2	5219.8	5124.4	4909.9	4727.2	4604.4
40°	6200.6	6189.8	6015.0	5718.9	5502.2	5465.3	5433.6	5156.2	4998.8	4884.6
42.5°	6251.9	6275.7	6137.0	5893.6	5687.1	5657.5	5731.9	5435.0	5303.6	5194.5
45°	6128.4	6197.0	6106.0	5940.6	5818.5	5802.6	5996.2	5739.8	5640.8	5541.2
47.5°	5815.6	5931.9	5894.4	5871.2	5853.9	5922.5	6228.8	6063.4	6022.9	5936.3
50°	5184.4	5404.7	5470.4	5616.3	5783.9	6015.7	6440.4	6416.6	6469.3	6381.9
52.5°	4093.0	4396.4	4777.7	5143.2	5568.6	5984.6	6673.0	6923.6	7146.0	7098.4
55°	3378.7	3515.2	3808.5	4478.7	5151.2	5853.9	6777.7	7333.1	7817.7	7775.1
57.5°	2829.8	2951.9	3132.4	3692.2	4519.9	5557.1	6842.7	7583.0	8277.8	8273.5
60°	2241.2	2370.5	2555.4	2951.9	3782.5	5044.3	6828.2	7867.6	8865.0	8901.1
62.5°	1576.7	1719.0	1924.1	2293.9	3029.2	4379.8	6533.6	8073.4	9556.2	9654.4
65°	1036.4	1130.3	1284.9	1604.1	2257.1	3525.3	5970.9	8100.1	10295.8	10461.9
67.5°	726.6	762.7	853.7	1027.1	1487.9	2703.4	5074.6	7823.5	10789.1	10976.2
70°	567.0	585.0	631.3	700.6	934.6	1817.9	3888.6	7104.1	10683.7	10878.7
72.5°	489.7	507.0	524.4	533.0	626.9	1122.4	2634.1	5939.9	9690.6	9822.7
75°	444.2	448.5	463.0	460.1	478.1	728.0	1520.4	4327.8	7645.8	7600.3
77.5°	373.4	379.2	403.0	399.4	424.7	497.6	789.4	2793.0	4956.9	4647.7
80°	316.3	319.2	345.2	340.9	369.1	360.4	403.0	1423.6	2102.5	1781.1
82.5°	109.8	135.8	263.6	271.6	281.7	218.1	232.6	580.7	642.1	491.9
85°	53.4	57.1	134.3	190.7	190.0	109.8	113.4	207.3	202.2	158.9
87.5°	8.7	10.8	15.9	74.4	59.2	28.9	39.0	40.4	41.9	36.1
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°
1641.7	0°	1641.7	1641.7	1641.7	1641.7	1641.7	1641.7	1641.7	1641.7	1641.7	1641.7
1700.2	2.5°	1659.8	1623.6	1547.8	1477.7	1422.9	1370.1	1340.5	1315.2	1300.8	1297.9
1779.6	5°	1704.5	1630.1	1492.2	1375.9	1300.1	1243.7	1214.1	1195.3	1186.0	1180.2
1886.5	7.5°	1768.8	1659.8	1463.3	1331.1	1251.7	1211.2	1196.1	1193.2	1192.5	1193.2
2015.8	10°	1857.7	1708.1	1460.4	1320.3	1253.8	1231.5	1230.7	1231.5	1234.3	1235.1
2156.7	12.5°	1953.7	1758.0	1472.0	1329.7	1281.3	1269.0	1266.8	1266.1	1268.3	1269.7
2299.0	15°	2058.4	1823.7	1491.5	1349.9	1311.6	1298.6	1296.5	1292.1	1291.4	1290.7
2448.5	17.5°	2166.1	1888.7	1513.1	1371.6	1331.1	1313.1	1305.1	1295.0	1287.1	1284.9
2603.0	20°	2275.1	1953.0	1528.3	1382.4	1332.6	1307.3	1291.4	1274.1	1260.3	1252.4
2759.0	22.5°	2391.4	2020.2	1537.7	1379.5	1319.6	1284.9	1256.0	1235.8	1214.8	1201.1
2916.5	25°	2504.8	2078.7	1537.0	1364.3	1294.3	1250.2	1213.4	1187.4	1158.5	1144.1
3079.0	27.5°	2613.9	2131.4	1518.9	1337.6	1258.2	1209.1	1165.0	1133.9	1105.8	1092.1
3242.9	30°	2726.5	2175.4	1490.7	1298.6	1215.6	1161.4	1113.0	1086.3	1061.0	1048.0
3416.3	32.5°	2838.5	2215.9	1451.0	1250.2	1166.4	1114.4	1066.8	1042.2	1027.1	1027.1
3602.6	35°	2956.9	2244.1	1398.3	1193.9	1114.4	1064.6	1027.1	1012.6	1011.2	1002.5
3799.8	37.5°	3081.9	2262.1	1334.0	1136.1	1063.2	1016.2	1004.7	987.3	972.9	954.1
4016.5	40°	3213.3	2280.2	1256.7	1076.2	1009.0	983.0	977.9	954.8	913.7	867.4
4262.1	42.5°	3373.0	2292.5	1176.6	1016.2	951.9	943.3	950.5	910.8	845.0	810.4
4558.2	45°	3557.9	2312.7	1102.9	957.0	893.4	893.4	923.8	871.8	817.6	795.9
4896.2	47.5°	3797.6	2359.6	1034.3	892.0	839.3	853.7	864.5	824.8	794.5	767.8
5307.9	50°	4144.3	2472.3	963.5	826.3	798.1	827.0	811.8	788.7	753.3	731.6
5962.3	52.5°	4574.8	2538.7	900.7	767.0	762.7	791.6	769.9	748.3	721.5	692.6
6458.4	55°	4868.0	2551.0	847.9	723.7	738.9	736.0	728.0	708.5	694.1	655.8
6948.1	57.5°	5195.9	2575.6	804.6	697.7	723.7	691.9	689.0	672.4	653.6	627.6
7545.4	60°	5588.1	2613.9	767.0	687.6	710.7	663.0	648.6	642.1	623.3	610.3
8264.1	62.5°	6015.7	2648.5	728.8	689.0	695.5	634.9	613.2	611.0	599.5	595.1
8938.7	65°	6307.5	2553.9	681.1	687.6	671.7	606.0	578.5	577.8	568.4	567.0
9231.2	67.5°	6205.7	2254.2	616.8	667.4	647.1	577.1	546.8	543.9	531.6	532.3
8925.7	70°	5695.7	1826.6	528.0	617.5	616.8	551.1	513.5	504.1	487.5	490.4
7760.7	72.5°	4739.5	1353.5	408.8	534.5	568.4	527.2	475.2	460.1	439.1	442.0
5729.0	75°	3422.8	920.2	297.6	406.6	494.7	499.1	437.7	411.7	386.4	390.7
3188.8	77.5°	1751.5	521.5	218.8	280.2	388.6	453.6	403.7	369.1	363.3	403.7
919.4	80°	571.3	261.5	151.7	196.5	255.0	371.2	353.9	314.2	312.7	322.1
192.8	82.5°	170.5	110.5	97.5	129.3	140.8	284.6	305.5	237.6	204.4	215.2
64.3	85°	58.5	53.4	55.6	64.3	67.2	166.8	213.8	157.5	148.8	164.0
14.4	87.5°	13.7	18.8	15.9	14.4	14.4	40.4	83.1	65.7	91.0	60.7
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

<u>180°</u>
1641.7
1297.9
1179.5
1195.3
1235.8
1270.5
1290.0
1287.1
1255.3
1201.8
1144.1
1091.3
1047.3
1027.8
1000.3
951.2
860.9
811.1
799.5
767.0
729.5
686.9
656.5
619.0
613.9
595.1
566.3
532.3
493.3
441.3
392.2
398.0
276.6
222.5
161.8
58.5
0.0

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