

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: P951159

Luminaire Tested: **GALN-SB5B-927-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951159
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5B-927-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16922 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

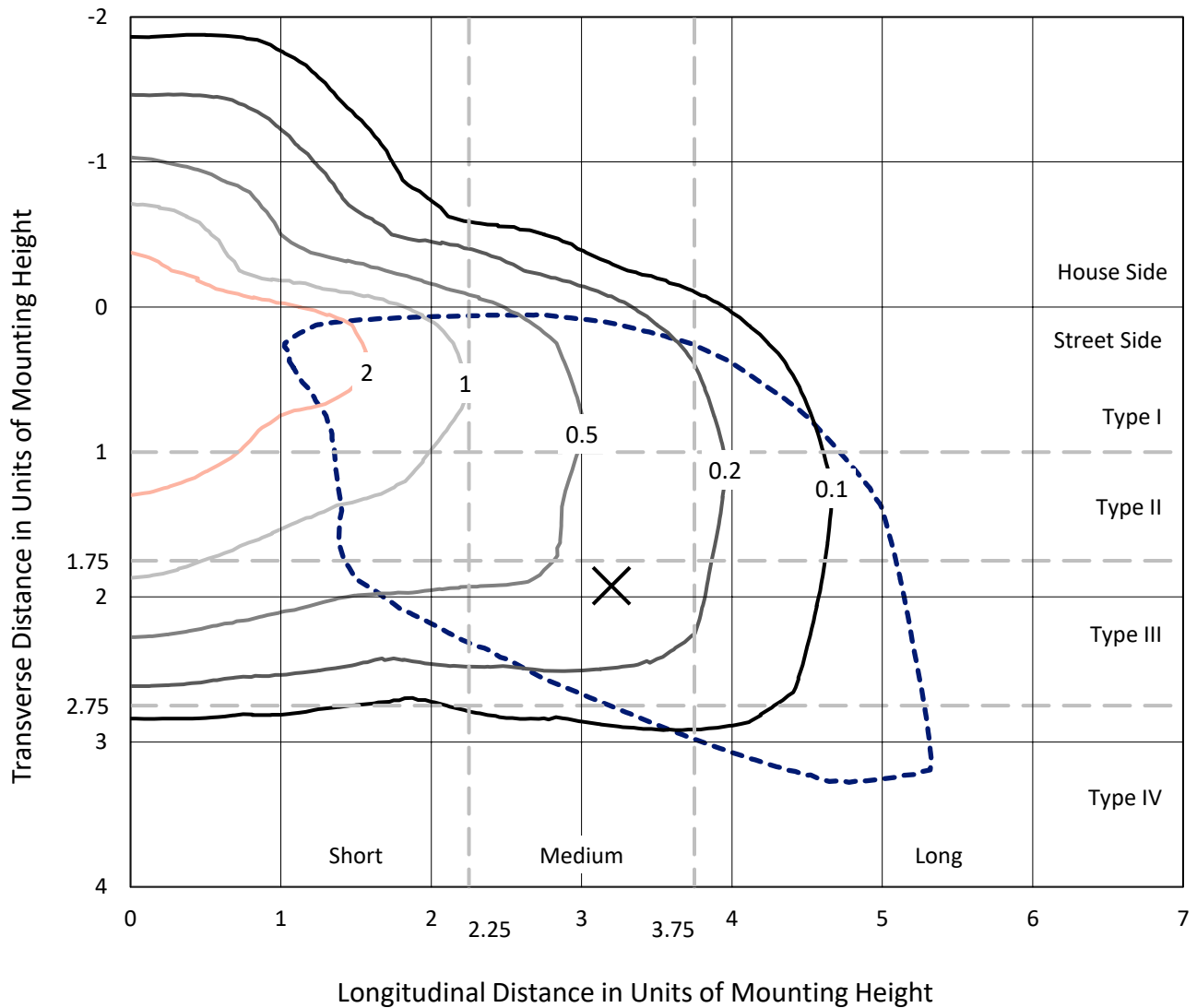
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

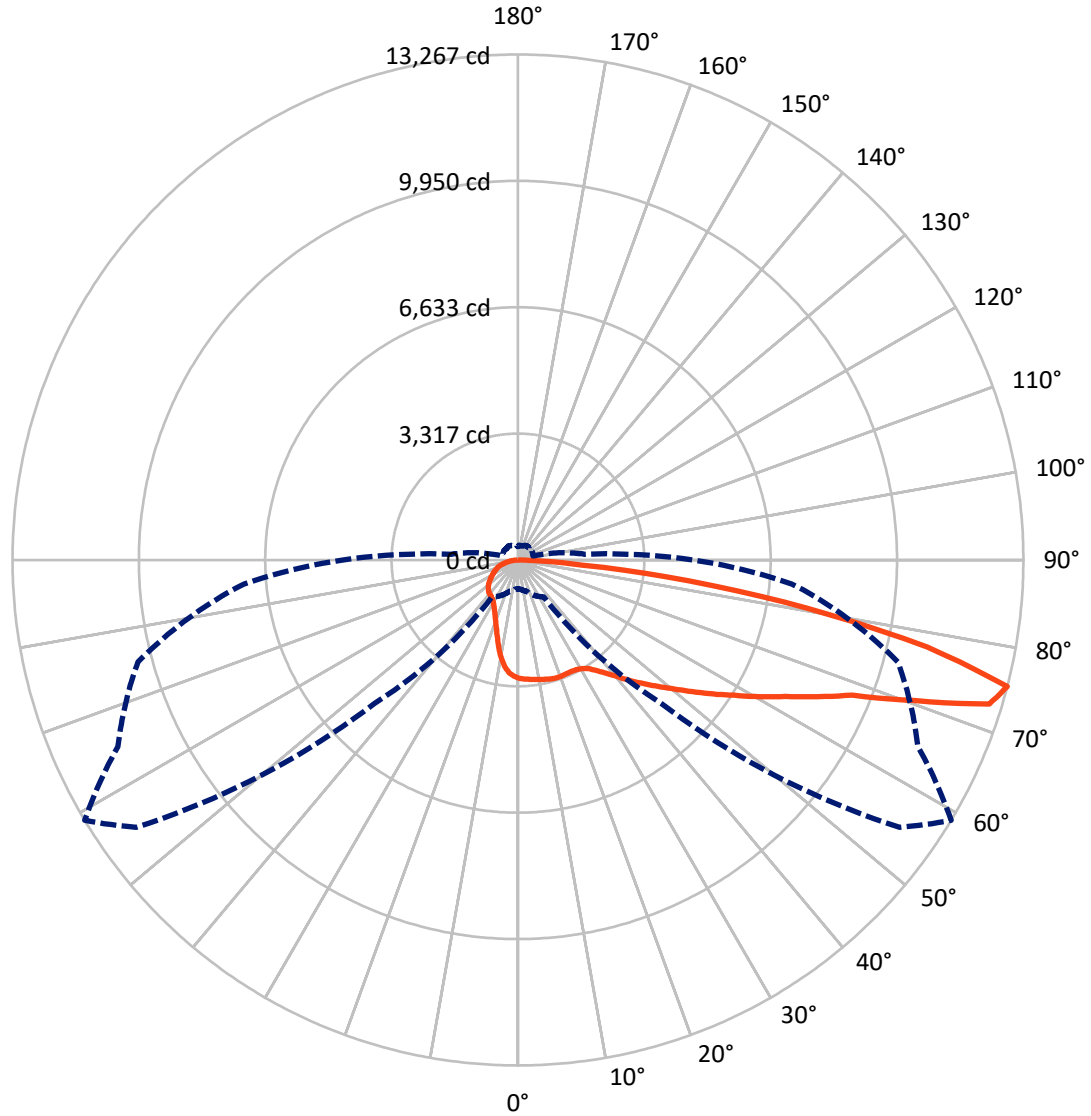
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3173.8	0.0	3173.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	13748.2	0.0	13748.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	16922.0	0.0	16922.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.5	1.6
10°-20°	711.9	4.2
20°-30°	1081.3	6.4
30°-40°	1607.3	9.5
40°-50°	2390.3	14.1
50°-60°	3244.6	19.2
60°-70°	3961.1	23.4
70°-80°	3108.6	18.4
80°-90°	538.5	3.2
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°	16922.0	100.0
0°-180°	16922.0	100.0



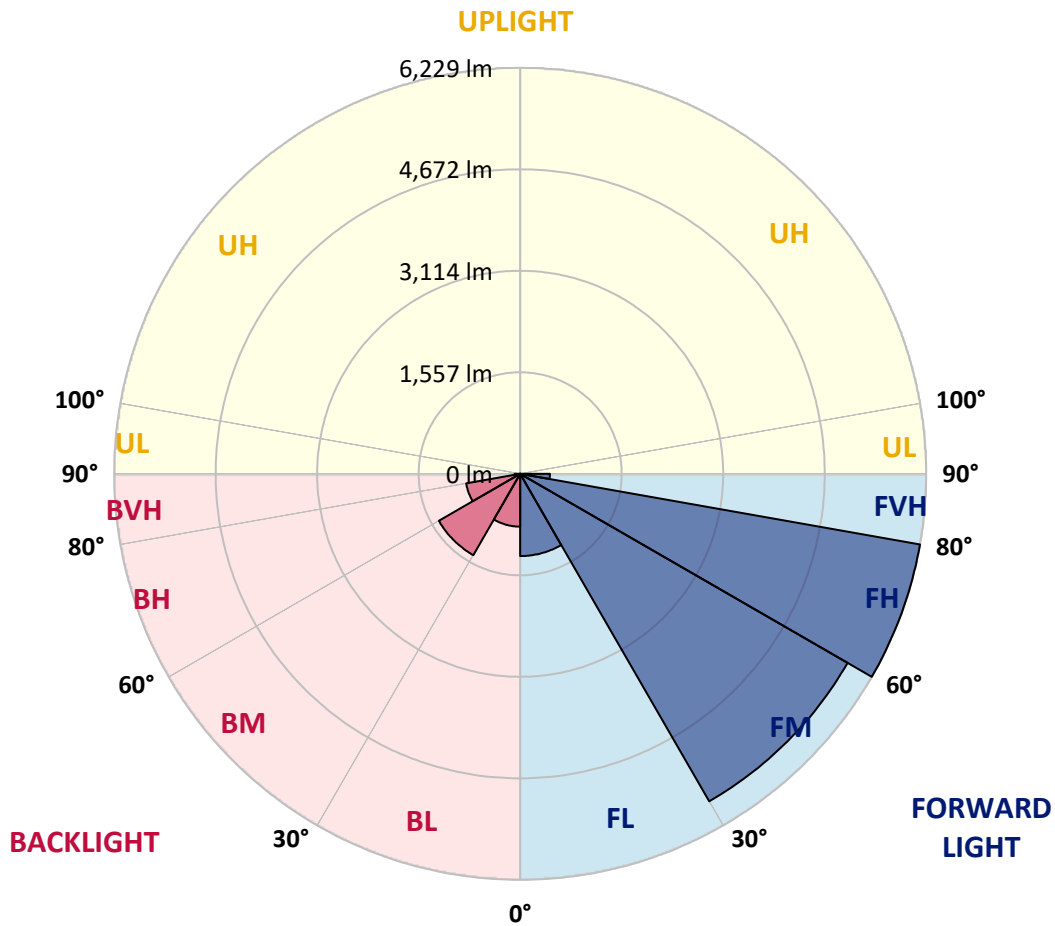
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1261.7	7.5			
FM (30°-60°)	5801.6	34.3			
FH (60°-80°)	6228.8	36.8			G3/7500
FVH (80°-90°)	456.1	2.7			G3/500
BL (0°-30°)	809.9	4.8	B2/1000		
BM (30°-60°)	1440.6	8.5	B2/2500		
BH (60°-80°)	840.9	5.0	B2/1000		G2/1000
BVH (80°-90°)	82.4	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	3106.0	3106.0	3106.0	3106.0	3106.0	3106.0	3106.0	3106.0	3106.0	3106.0
2.5°	3132.4	3121.5	3132.4	3127.8	3126.0	3122.4	3123.3	3129.7	3126.0	3130.6
5°	3111.5	3105.1	3116.0	3113.3	3125.1	3126.9	3138.8	3146.0	3150.6	3151.5
7.5°	3076.9	3070.5	3086.0	3098.7	3124.2	3131.5	3156.1	3167.9	3174.3	3185.2
10°	2950.3	2947.6	2985.8	3034.1	3094.2	3131.5	3168.8	3188.8	3198.8	3228.0
12.5°	2726.4	2730.0	2780.1	2873.0	2993.1	3113.3	3183.4	3212.5	3228.0	3264.4
15°	2512.5	2511.6	2566.2	2665.4	2833.8	3033.2	3190.7	3240.7	3267.1	3320.8
17.5°	2388.7	2385.0	2423.3	2498.8	2655.4	2910.3	3172.4	3256.2	3312.6	3380.0
20°	2365.9	2358.6	2378.7	2416.0	2527.0	2775.6	3125.1	3256.2	3349.0	3436.4
22.5°	2448.7	2436.9	2428.7	2424.2	2473.3	2664.5	3071.4	3245.3	3402.8	3517.5
25°	2615.3	2597.1	2555.3	2514.3	2499.7	2614.4	3024.1	3242.5	3482.9	3626.7
27.5°	2884.8	2862.0	2777.4	2679.1	2590.8	2639.9	3003.1	3258.9	3571.2	3742.3
30°	3218.9	3194.3	3087.8	2936.7	2778.3	2734.6	3029.5	3307.2	3684.0	3896.1
32.5°	3518.4	3491.1	3400.0	3246.2	3032.3	2898.4	3113.3	3399.1	3861.6	4110.1
35°	3784.2	3752.3	3670.4	3528.4	3343.6	3128.8	3264.4	3562.1	4113.7	4457.8
37.5°	4044.5	4007.2	3918.0	3767.8	3638.5	3435.5	3472.9	3771.4	4448.7	4880.2
40°	4335.8	4282.1	4173.8	4025.4	3899.8	3795.1	3746.9	4028.1	4789.2	5351.7
42.5°	4618.0	4567.1	4437.8	4311.3	4153.8	4123.7	4064.6	4328.5	5161.5	5869.7
45°	4922.1	4861.1	4704.5	4544.3	4445.1	4342.2	4372.2	4629.0	5526.5	6397.7
47.5°	5207.0	5138.7	4953.9	4775.5	4720.9	4526.1	4654.4	4959.4	5906.1	6933.0
50°	5360.8	5293.5	5139.6	4978.5	4935.7	4752.8	4960.3	5322.6	6303.9	7466.4
52.5°	5489.2	5416.4	5215.2	5126.0	5113.2	4999.5	5337.2	5737.7	6701.7	7937.9
55°	5625.7	5544.7	5288.0	5207.9	5266.2	5276.2	5784.1	6208.3	7122.3	8397.7
57.5°	5783.2	5680.4	5358.1	5277.1	5415.5	5600.3	6297.6	6696.3	7535.6	8823.7
60°	5931.6	5827.8	5492.8	5387.2	5576.6	5976.2	6886.5	7287.1	8003.5	9203.3
62.5°	5960.7	5875.2	5600.3	5599.3	5795.1	6415.0	7583.8	7883.3	8412.2	9578.3
65°	5456.4	5402.7	5239.8	5591.2	6108.2	7046.7	8360.3	8646.2	8932.0	9906.0
67.5°	4152.9	4160.1	4148.3	4826.5	5855.1	7954.3	9484.6	9462.7	9573.8	10273.8
70°	1898.9	1941.7	2220.3	3331.8	4690.9	8059.0	11343.4	11060.3	10379.4	10749.9
72.5°	1025.9	1058.7	1172.5	1614.0	2820.2	7165.1	12732.6	12933.8	11450.9	11070.3
75°	752.8	771.0	850.2	1025.9	1184.3	5325.3	12234.6	13266.9	11584.7	10323.0
77.5°	563.5	571.7	636.3	812.9	606.3	2807.4	9775.9	10987.5	9917.0	8481.4
80°	408.7	417.8	466.1	609.9	425.1	1026.8	6712.7	7712.2	6791.9	5406.4
82.5°	282.2	285.8	306.8	415.1	296.8	398.7	3808.8	4522.4	3791.5	1897.1
85°	170.2	174.8	183.9	242.1	168.4	189.3	1644.0	1700.5	1133.3	453.3
87.5°	70.1	74.6	81.9	102.0	66.5	52.8	271.3	340.5	212.1	132.9
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°
3106.0	0°	3106.0	3106.0	3106.0	3106.0	3106.0	3106.0	3106.0	3106.0	3106.0	3106.0
3115.1	2.5°	3110.5	3104.2	3086.9	3063.2	3041.4	3014.1	3002.2	2992.2	2983.1	2965.8
3139.7	5°	3129.7	3112.4	3065.9	3005.9	2937.6	2862.9	2790.1	2740.0	2697.3	2665.4
3167.9	7.5°	3158.8	3126.0	3041.4	2918.5	2761.9	2601.7	2456.9	2354.1	2276.7	2248.5
3208.0	10°	3188.8	3149.7	3002.2	2785.6	2515.2	2268.5	2076.4	1970.8	1908.9	1888.9
3255.3	12.5°	3224.3	3167.0	2941.2	2600.8	2239.4	1969.0	1801.5	1739.6	1707.8	1696.8
3313.5	15°	3276.2	3181.6	2849.3	2369.6	1976.3	1750.5	1642.2	1599.4	1583.0	1582.1
3373.6	17.5°	3315.4	3184.3	2706.4	2121.9	1774.2	1618.5	1529.3	1512.9	1523.9	1540.3
3432.8	20°	3359.1	3159.7	2518.8	1896.2	1632.2	1502.9	1465.6	1476.5	1502.9	1526.6
3511.1	22.5°	3390.0	3115.1	2292.2	1720.5	1509.3	1436.5	1434.7	1457.4	1472.0	1483.8
3603.0	25°	3417.3	3039.5	2051.9	1573.0	1408.3	1396.4	1416.5	1409.2	1399.2	1409.2
3695.0	27.5°	3437.4	2920.3	1837.0	1443.8	1337.3	1369.1	1357.3	1340.9	1340.0	1345.4
3803.3	30°	3431.0	2761.0	1660.4	1320.9	1287.2	1318.1	1289.9	1287.2	1284.5	1287.2
3966.2	32.5°	3431.0	2579.8	1524.8	1236.2	1255.3	1243.5	1240.8	1234.4	1223.5	1222.6
4187.4	35°	3450.1	2398.7	1408.3	1190.7	1228.9	1200.7	1202.5	1187.1	1164.3	1153.4
4480.6	37.5°	3489.2	2253.0	1292.6	1168.8	1182.5	1181.6	1174.3	1147.9	1107.9	1073.3
4846.5	40°	3583.9	2210.2	1213.5	1158.8	1160.7	1171.6	1152.5	1101.5	1010.4	954.0
5217.9	42.5°	3732.3	2282.2	1196.2	1134.3	1146.1	1157.0	1119.7	1001.3	936.7	903.0
5607.5	45°	3920.7	2407.8	1233.5	1098.8	1111.5	1130.6	1019.6	963.1	934.0	934.9
5993.5	47.5°	4159.2	2539.8	1302.7	1067.8	1061.4	1072.4	953.1	918.5	878.5	888.5
6364.0	50°	4435.1	2673.6	1368.2	1025.9	1005.9	970.4	910.3	877.5	826.6	802.9
6721.8	52.5°	4733.6	2802.9	1394.6	974.9	945.8	904.9	881.2	841.1	779.2	740.1
7059.5	55°	5016.7	2920.3	1365.5	914.0	885.7	853.9	850.2	825.7	759.2	704.6
7359.9	57.5°	5284.4	3018.6	1292.6	852.1	824.7	805.6	830.2	818.4	734.6	664.5
7643.9	60°	5511.0	3086.0	1187.1	789.2	770.1	760.1	797.4	793.8	700.0	621.7
7898.8	62.5°	5691.3	3112.4	1070.5	729.2	724.6	706.4	751.9	751.9	656.3	579.9
8122.7	65°	5832.4	3086.9	952.2	670.0	679.1	651.8	696.4	690.9	609.9	542.5
8380.4	67.5°	5957.1	3003.1	821.1	611.7	632.7	598.1	638.1	625.4	558.9	505.2
8603.4	70°	6012.6	2808.3	671.8	553.5	579.0	545.3	579.9	556.2	501.6	465.2
8358.5	72.5°	5566.6	2334.0	528.9	492.5	514.3	487.0	517.1	489.7	439.7	423.3
7217.9	75°	4605.3	1751.4	406.9	426.0	442.4	421.5	441.5	421.5	376.0	387.8
5331.7	77.5°	3344.5	1182.5	311.3	355.9	363.2	352.3	369.6	346.8	305.9	303.1
2657.2	80°	1663.1	692.7	244.0	281.3	278.6	271.3	291.3	280.4	245.8	260.4
717.3	82.5°	481.6	296.8	177.5	197.5	192.1	193.9	208.5	213.9	320.4	317.7
223.0	85°	151.1	116.5	106.5	110.1	104.7	107.4	122.9	244.0	225.8	132.0
69.2	87.5°	39.1	40.1	26.4	28.2	29.1	34.6	39.1	148.4	71.0	46.4
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

<u>180°</u>
3106.0
2957.6
2639.0
2199.3
1858.0
1699.6
1585.8
1546.6
1534.8
1490.2
1415.5
1354.5
1297.2
1234.4
1164.3
1085.1
961.3
903.0
939.4
914.0
809.3
739.2
704.6
660.9
619.0
577.1
538.9
501.6
457.9
409.6
354.1
289.5
257.6
325.0
142.9
49.2
0.0

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