

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: P943594

Luminaire Tested: **GALN-SB8A-927-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943594  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8A-927-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

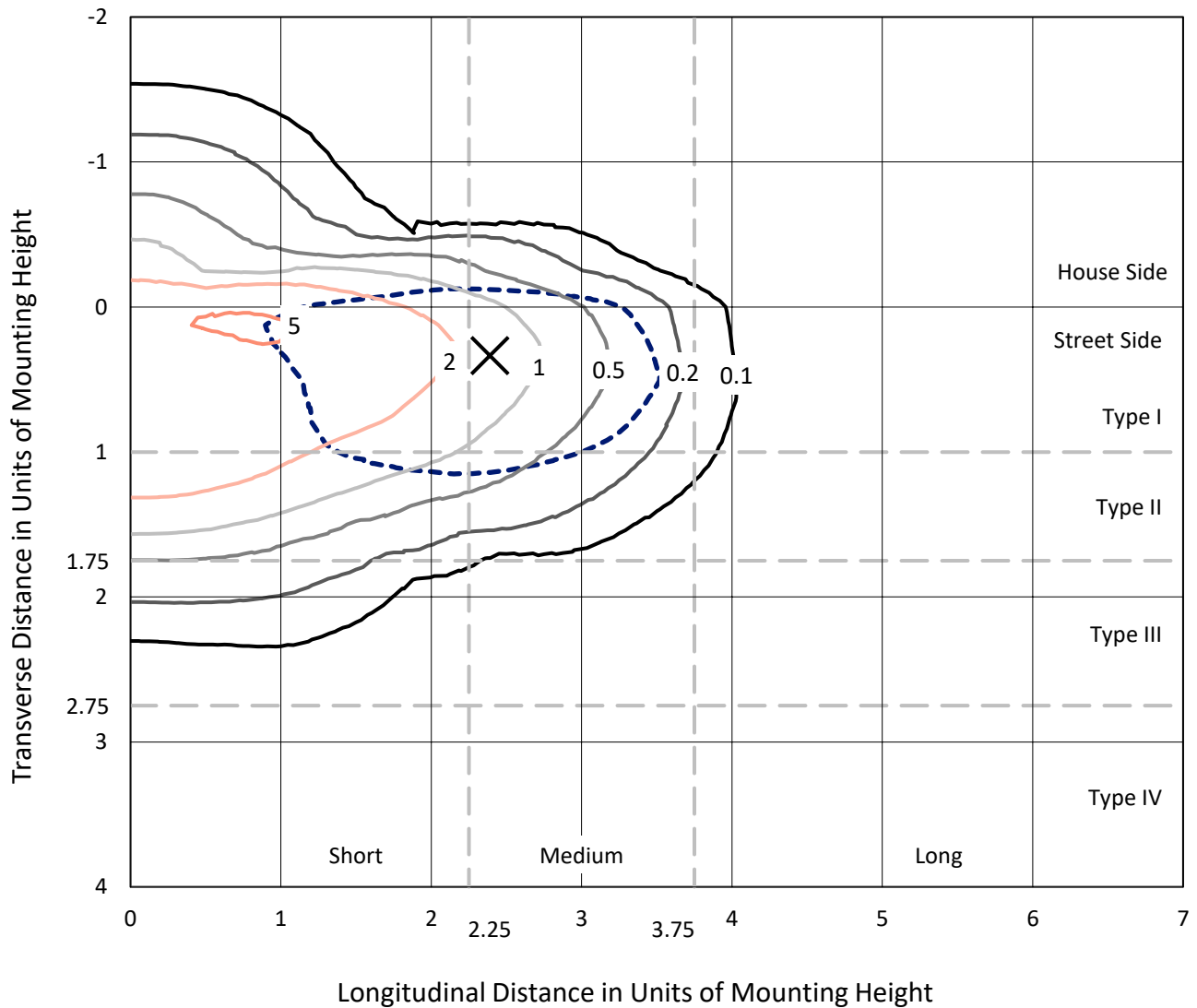
Lumens per Lamp: N/A  
Luminaire Lumens: 16123 lumens  
Efficiency: N/A  
Efficacy: 71.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 227.1  
Input Voltage (V): NR  
Input Current (Ain): 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

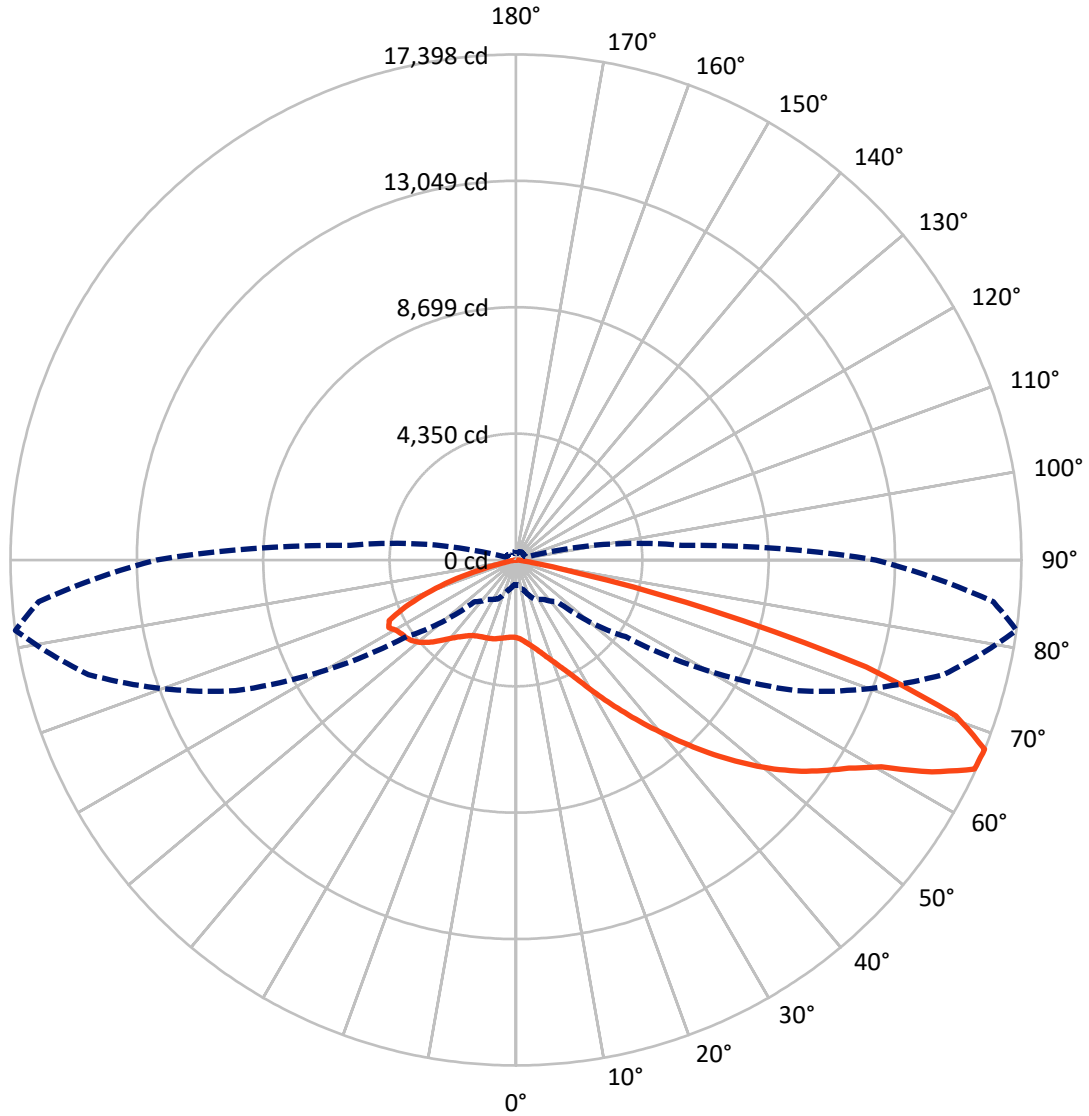
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2920.5	0.0	2920.5
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	13202.5	0.0	13202.5
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	16123.0	0.0	16123.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	238.0	1.5
10°-20°	618.4	3.8
20°-30°	990.5	6.1
30°-40°	1751.4	10.9
40°-50°	3068.7	19.0
50°-60°	4092.8	25.4
60°-70°	3810.2	23.6
70°-80°	1462.3	9.1
80°-90°	90.8	0.6
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°	16123.0	100.0
0°-180°	16123.0	100.0

**Coefficient of Utilization**



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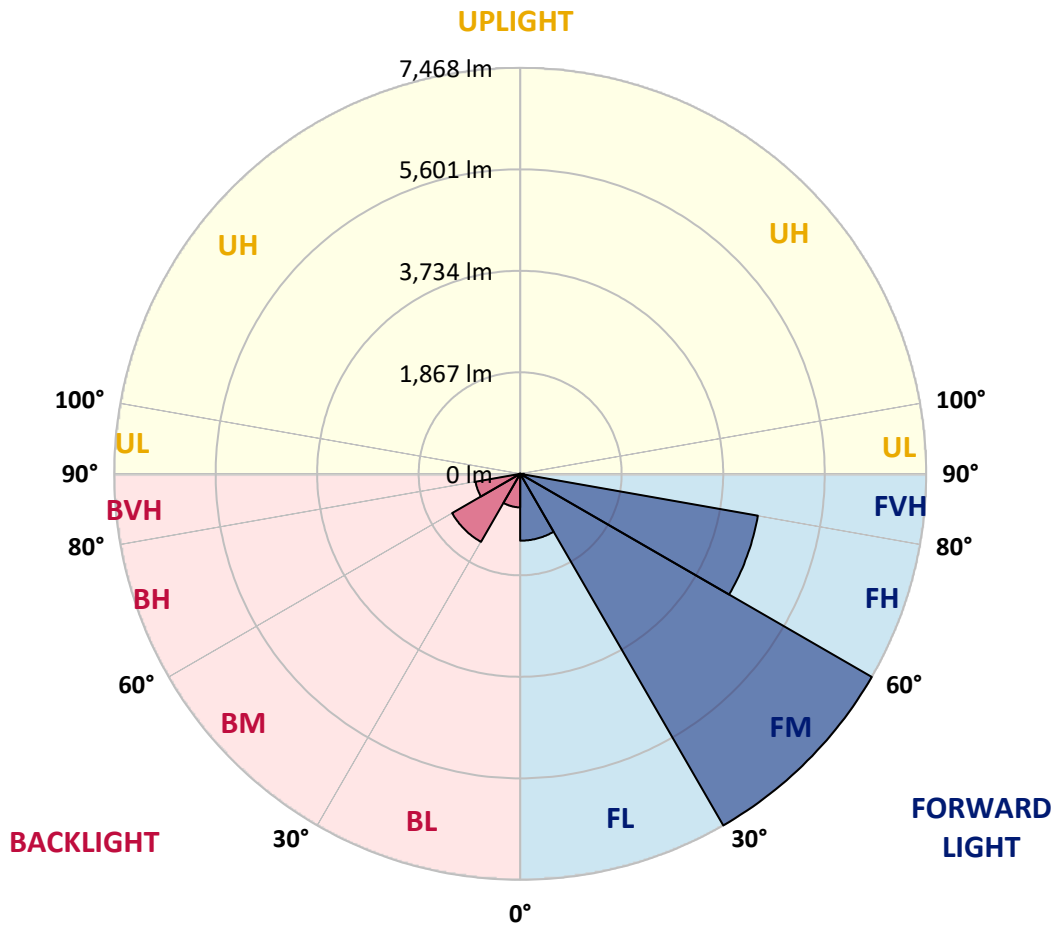
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1230.0	7.6			
FM (30°-60°)	7467.5	46.3			
FH (60°-80°)	4438.9	27.5			G2/5000
FVH (80°-90°)	66.0	0.4			G1/100
BL (0°-30°)	616.8	3.8	B2/1000		
BM (30°-60°)	1445.4	9.0	B2/2500		
BH (60°-80°)	833.6	5.2	B2/1000		G2/1000
BVH (80°-90°)	24.8	0.2			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°	82°
0°	2671.0	2671.0	2671.0	2671.0	2671.0	2671.0	2671.0	2671.0	2671.0	2671.0
2.5°	2823.1	2839.4	2830.1	2825.4	2817.3	2805.7	2796.4	2767.4	2737.2	2717.5
5°	2880.0	2896.2	2895.1	2899.7	2905.5	2909.0	2906.7	2874.2	2831.2	2797.6
7.5°	2831.2	2849.8	2864.9	2888.1	2928.7	2971.7	2992.6	2985.6	2941.5	2895.1
10°	2693.1	2712.8	2748.8	2803.4	2889.3	2982.1	3059.9	3095.9	3068.0	3017.0
12.5°	2440.0	2459.8	2530.6	2649.0	2792.9	2954.3	3102.9	3199.2	3206.2	3155.1
15°	2155.6	2175.4	2250.8	2399.4	2618.8	2877.7	3126.1	3308.3	3369.8	3325.7
17.5°	1979.2	1996.6	2053.5	2173.0	2401.7	2724.4	3117.9	3424.4	3564.9	3530.0
20°	1925.8	1940.9	1967.6	2051.2	2241.5	2565.4	3064.6	3533.5	3775.0	3755.2
22.5°	1982.7	1996.6	2004.7	2041.9	2161.4	2460.9	2997.2	3645.0	4018.7	4021.1
25°	2113.8	2127.8	2118.5	2141.7	2193.9	2428.4	2971.7	3776.1	4325.2	4350.7
27.5°	2329.8	2330.9	2308.9	2307.7	2315.8	2477.2	2998.4	3916.6	4711.7	4759.3
30°	2762.7	2745.3	2660.6	2568.9	2527.1	2623.4	3072.7	4082.6	5167.9	5252.7
32.5°	3430.2	3404.7	3249.1	3029.7	2809.2	2859.1	3206.2	4271.8	5664.8	5818.0
35°	4154.6	4147.6	3985.1	3658.9	3273.5	3194.6	3423.2	4520.2	6206.9	6450.6
37.5°	4827.8	4824.3	4731.5	4347.3	3878.3	3662.4	3771.5	4845.2	6787.3	7140.2
40°	5443.1	5453.5	5360.6	5017.0	4544.6	4262.5	4245.1	5246.9	7432.7	7891.2
42.5°	5974.7	5986.3	5892.3	5638.1	5202.8	4926.5	4826.7	5739.1	8063.0	8698.0
45°	6335.7	6407.7	6393.8	6190.6	5878.4	5591.6	5525.5	6356.6	8781.6	9553.5
47.5°	6437.9	6504.0	6608.5	6636.4	6446.0	6163.9	6242.9	7100.7	9508.2	10410.2
50°	6186.0	6247.5	6464.6	6753.6	6886.0	6798.9	6940.5	7898.2	10252.3	11264.5
52.5°	5689.2	5751.8	6025.8	6483.2	7022.9	7296.9	7640.5	8684.1	10973.2	12073.6
55°	4970.6	5036.8	5388.5	5906.2	6761.7	7502.3	8224.4	9468.8	11633.7	12801.5
57.5°	3993.2	4042.0	4407.6	5132.0	6104.7	7298.0	8655.0	10325.5	12255.9	13516.5
60°	2602.5	2645.5	3070.4	3878.3	5015.9	6615.5	8740.9	11280.8	13082.4	14446.3
62.5°	1730.8	1759.8	2011.7	2604.9	3532.4	5304.9	8238.3	12043.5	14294.3	16064.5
65°	1187.5	1216.5	1468.4	1881.7	2282.2	3509.1	6793.1	11942.5	15392.4	17349.5
67.5°	847.4	871.8	1085.4	1475.4	1651.8	2038.4	4605.0	10651.6	15234.5	17398.3
70°	607.1	621.0	797.5	1149.2	1312.9	1224.7	2560.8	8146.6	13338.9	16065.7
72.5°	424.9	429.5	553.7	875.3	1057.5	893.8	1218.9	5431.5	10088.6	12609.9
75°	287.9	293.7	372.6	641.9	848.6	682.6	645.4	2912.5	5922.5	6980.0
77.5°	176.4	178.8	240.3	438.8	635.0	520.0	415.6	1233.9	2291.4	2249.7
80°	99.8	99.8	153.2	272.8	433.0	335.5	291.4	524.7	725.5	637.3
82.5°	55.7	56.9	111.4	169.5	286.7	198.5	160.2	242.6	313.4	277.4
85°	23.2	25.5	68.5	80.1	137.0	98.7	65.0	102.2	116.1	103.3
87.5°	2.3	3.5	20.9	15.1	16.3	19.7	9.3	19.7	16.3	16.3
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°
2671.0	0°	2671.0	2671.0	2671.0	2671.0	2671.0	2671.0	2671.0	2671.0	2671.0	2671.0
2710.5	2.5°	2688.4	2671.0	2626.9	2575.8	2508.5	2476.0	2431.9	2401.7	2376.2	2378.5
2777.8	5°	2740.7	2696.6	2597.9	2474.9	2321.6	2212.5	2096.4	2016.3	1951.3	1937.4
2870.7	7.5°	2812.7	2743.0	2570.0	2348.3	2089.5	1893.3	1718.0	1605.4	1525.3	1499.8
2983.3	10°	2905.5	2804.5	2534.1	2189.3	1816.7	1567.1	1379.0	1290.8	1236.3	1217.7
3115.6	12.5°	3013.5	2875.3	2486.5	1995.4	1535.8	1295.5	1175.9	1131.8	1114.4	1108.6
3278.1	15°	3149.3	2963.6	2414.5	1765.6	1297.8	1129.5	1078.4	1072.6	1074.9	1072.6
3473.2	17.5°	3310.6	3059.9	2297.3	1528.8	1137.6	1044.7	1026.2	1030.8	1036.6	1035.4
3691.4	20°	3487.1	3155.1	2147.5	1318.7	1028.5	984.4	973.9	978.6	983.2	980.9
3943.3	22.5°	3687.9	3257.2	1981.5	1155.0	955.4	928.7	917.0	918.2	918.2	913.6
4262.5	25°	3928.2	3369.8	1807.4	1038.9	899.6	878.7	864.8	860.2	853.2	839.3
4650.2	27.5°	4214.9	3489.4	1640.2	957.7	855.5	835.8	819.5	807.9	790.5	767.3
5115.7	30°	4537.6	3634.5	1498.6	906.6	820.7	801.0	782.4	765.0	739.4	710.4
5650.8	32.5°	4917.2	3790.1	1395.3	872.9	789.4	768.5	746.4	725.5	697.6	668.6
6252.1	35°	5369.9	3978.1	1334.9	849.7	765.0	737.1	712.7	689.5	668.6	643.1
6905.7	37.5°	5861.0	4177.8	1316.4	838.1	748.7	705.8	677.9	661.7	659.3	644.3
7612.6	40°	6398.4	4414.6	1330.3	831.1	731.3	675.6	645.4	641.9	647.7	621.0
8368.3	42.5°	6967.2	4695.5	1353.5	823.0	706.9	645.4	616.4	616.4	611.7	574.6
9167.0	45°	7582.4	5019.4	1376.7	803.3	677.9	615.2	593.2	585.1	565.3	529.3
9970.2	47.5°	8202.3	5349.0	1394.1	767.3	643.1	589.7	570.0	551.4	522.4	489.9
10758.4	50°	8790.9	5645.0	1375.6	713.9	603.6	565.3	544.4	518.9	487.5	465.5
11504.8	52.5°	9316.7	5901.6	1296.6	651.2	561.8	539.8	521.2	494.5	469.0	445.8
12178.1	55°	9774.1	6109.4	1157.3	592.0	524.7	517.7	499.2	465.5	430.7	410.9
12845.6	57.5°	10212.9	6267.2	983.2	543.3	491.0	493.3	465.5	435.3	402.8	381.9
13745.2	60°	10796.7	6478.5	806.8	498.0	455.0	462.0	431.8	409.8	369.1	342.4
15287.9	62.5°	11730.0	6807.0	640.8	442.3	413.3	415.6	402.8	376.1	327.3	296.0
16431.3	65°	12470.6	6686.3	505.0	381.9	365.7	369.1	369.1	340.1	287.9	251.9
16492.9	67.5°	12387.1	5725.1	402.8	322.7	320.4	322.7	330.8	306.5	255.4	226.4
15236.9	70°	11410.8	4553.9	322.7	268.1	278.6	272.8	296.0	279.8	229.8	200.8
11812.5	72.5°	9310.9	3280.5	246.1	221.7	213.6	222.9	267.0	251.9	191.5	159.0
6256.8	75°	5440.7	1750.5	183.4	175.3	154.4	185.7	236.8	214.8	146.3	117.2
1917.7	77.5°	1771.4	610.6	134.7	128.9	114.9	149.7	202.0	181.1	119.6	92.9
561.8	80°	474.8	184.6	91.7	84.7	74.3	111.4	160.2	143.9	85.9	60.4
241.4	82.5°	190.4	77.8	53.4	47.6	40.6	76.6	126.5	116.1	63.8	38.3
75.5	85°	61.5	25.5	19.7	15.1	18.6	47.6	75.5	78.9	45.3	19.7
11.6	87.5°	8.1	3.5	3.5	4.6	3.5	8.1	23.2	22.1	12.8	2.3
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>
2671.0
2355.3
1906.1
1474.2
1203.8
1105.1
1071.4
1033.1
979.7
911.2
836.9
765.0
708.1
669.8
640.8
643.1
622.2
574.6
528.2
488.7
462.0
443.4
408.6
379.6
339.0
293.7
248.4
221.7
197.3
155.5
113.8
89.4
59.2
38.3
15.1
0.0
0.0

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