

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: P940657

Luminaire Tested: **GALN-SB3D-827-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940657  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB3D-827-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

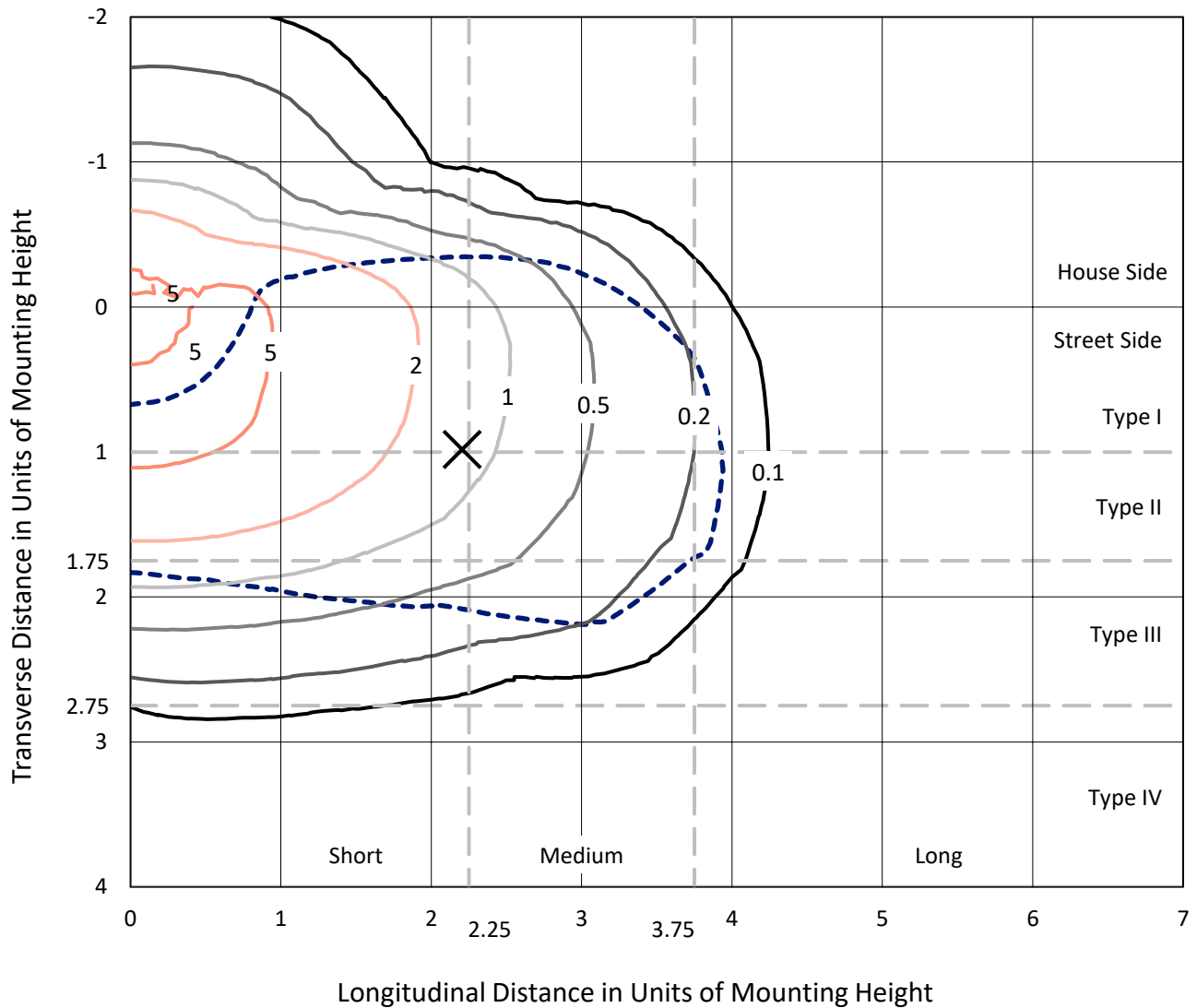
Lumens per Lamp: N/A  
Luminaire Lumens: 26567 lumens  
Efficiency: N/A  
Efficacy: 121.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

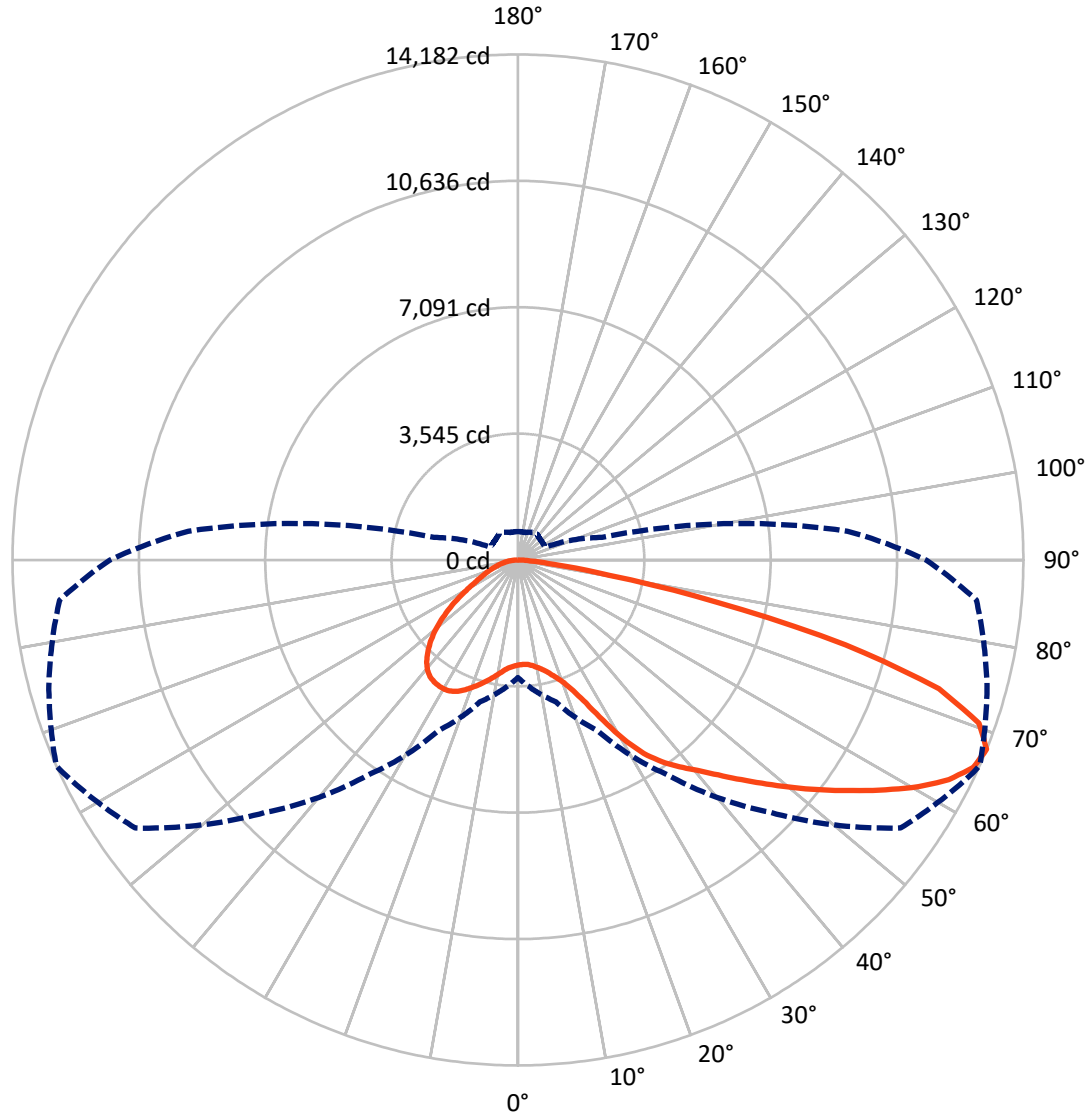
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6605.8	0.0	6605.8
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	19961.2	0.0	19961.2
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	26567.0	0.0	26567.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	292.1	1.1
10°-20°	965.2	3.6
20°-30°	1860.4	7.0
30°-40°	3262.0	12.3
40°-50°	4849.5	18.3
50°-60°	6147.2	23.1
60°-70°	6014.9	22.6
70°-80°	2869.1	10.8
80°-90°	306.6	1.2
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°	26567.0	100.0
0°-180°	26567.0	100.0

**Coefficient of Utilization**



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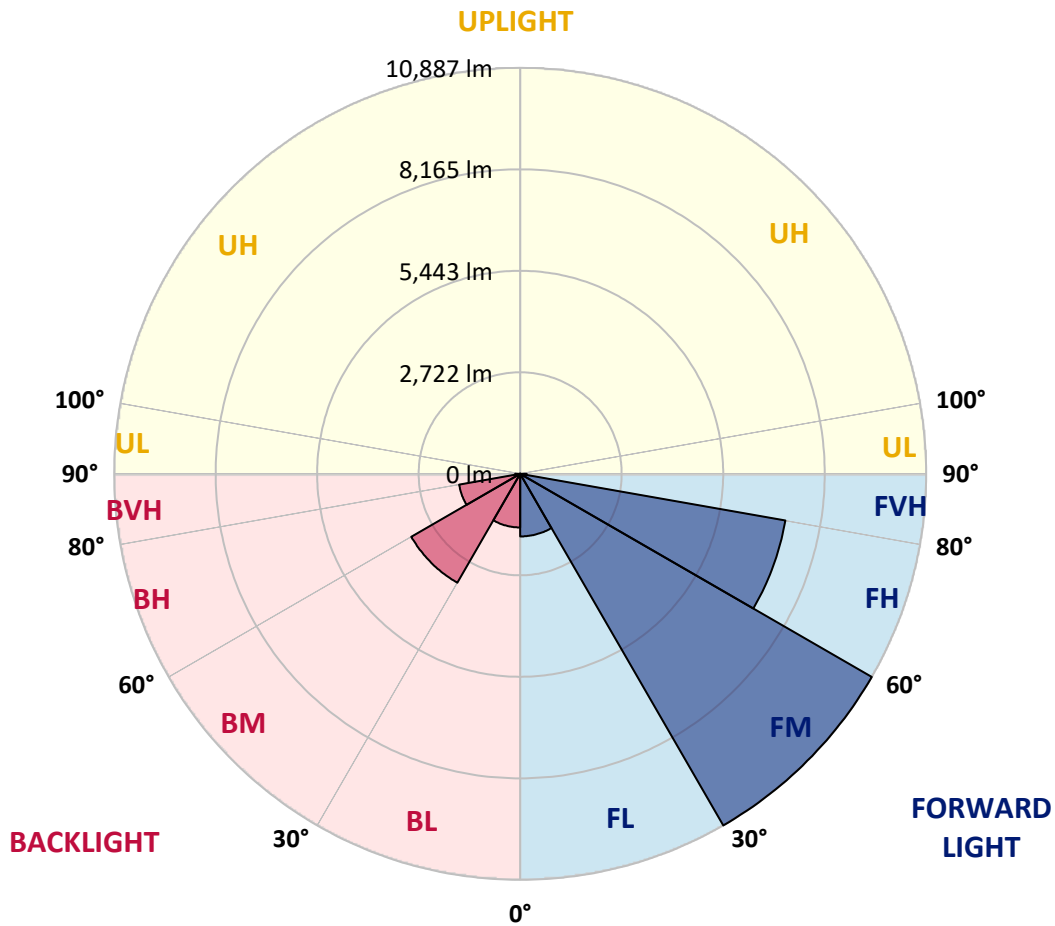
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1678.8	6.3			
FM (30°-60°)	10886.9	41.0			
FH (60°-80°)	7221.6	27.2			G3/7500
FVH (80°-90°)	173.8	0.7			G2/225
BL (0°-30°)	1439.0	5.4	B3/2500		
BM (30°-60°)	3371.7	12.7	B3/5000		
BH (60°-80°)	1662.4	6.3	B3/2500		G3/2500
BVH (80°-90°)	132.8	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	2946.6	2946.6	2946.6	2946.6	2946.6	2946.6	2946.6	2946.6	2946.6	2946.6
2.5°	2915.9	2932.7	2928.5	2921.5	2920.1	2922.9	2927.1	2931.3	2929.9	2936.9
5°	2907.5	2924.3	2922.9	2922.9	2928.5	2939.7	2946.6	2953.6	2946.6	2955.0
7.5°	2913.1	2925.7	2931.3	2936.9	2950.8	2971.8	2988.5	3003.9	2995.5	3005.3
10°	2984.3	2994.1	2999.7	2999.7	3009.4	3033.2	3049.9	3077.8	3070.9	3086.2
12.5°	3114.1	3123.9	3123.9	3118.3	3125.3	3140.7	3146.2	3176.9	3164.4	3189.5
15°	3273.3	3292.8	3277.4	3267.7	3270.5	3285.8	3284.4	3308.2	3295.6	3316.5
17.5°	3449.1	3474.3	3449.1	3447.7	3442.2	3458.9	3460.3	3481.2	3458.9	3474.3
20°	3657.1	3692.0	3671.1	3678.1	3665.5	3672.5	3679.5	3710.2	3675.3	3686.4
22.5°	3950.2	3992.1	3969.8	3996.3	3987.9	3982.3	3981.0	4035.4	3981.0	3985.1
25°	4377.4	4427.6	4388.5	4424.8	4424.8	4443.0	4463.9	4533.7	4443.0	4416.5
27.5°	5008.3	5058.5	4981.8	5004.1	4997.1	5041.8	5019.5	5192.5	5094.8	5051.6
30°	5767.6	5857.0	5711.8	5706.2	5699.2	5770.4	5802.5	5917.0	5817.9	5774.6
32.5°	6588.4	6681.9	6508.8	6458.6	6432.1	6475.3	6448.8	6540.9	6472.5	6405.5
35°	7456.6	7548.7	7384.0	7286.3	7180.2	7089.5	6994.6	7018.3	6954.1	6852.2
37.5°	8277.4	8446.3	8271.8	8167.1	7971.7	7794.4	7529.2	7418.9	7358.9	7265.4
40°	9113.5	9209.8	9077.2	8987.9	8775.7	8497.9	8073.6	7840.5	7759.5	7668.8
42.5°	9729.0	9821.2	9750.0	9688.6	9522.5	9200.0	8651.5	8359.7	8242.5	8140.6
45°	10217.6	10286.0	10241.3	10263.7	10192.5	9879.8	9250.3	8916.7	8795.2	8671.0
47.5°	10414.4	10487.0	10558.2	10690.8	10812.2	10581.9	9893.8	9519.7	9391.3	9264.2
50°	10392.1	10466.1	10672.6	10954.6	11331.5	11254.7	10572.1	10161.8	10043.1	9897.9
52.5°	10213.4	10297.2	10562.4	11031.4	11631.6	11758.6	11263.1	10824.8	10713.1	10540.0
55°	9744.4	9794.7	10192.5	10856.9	11702.8	12110.4	11940.1	11531.1	11419.4	11177.9
57.5°	8874.8	8947.4	9526.7	10386.5	11524.1	12349.1	12534.7	12273.7	12166.2	11818.6
60°	7740.0	7855.8	8518.8	9596.4	11069.1	12347.7	13074.9	13003.7	12914.4	12449.6
62.5°	6455.8	6589.8	7227.7	8479.8	10273.4	11997.3	13412.7	13615.1	13569.0	13031.6
65°	4958.0	5050.2	5685.3	7035.1	9035.3	11244.9	13451.8	14032.4	14040.8	13474.1
67.5°	3301.2	3566.4	4117.7	5279.1	7377.0	10015.2	13108.4	14100.8	14181.8	13626.3
70°	1610.8	1959.8	2500.0	3431.0	5279.1	8129.4	12210.9	13539.7	13719.8	13182.4
72.5°	668.6	781.7	1076.2	1693.2	3030.4	5485.7	10407.4	12018.2	12351.8	11680.4
75°	450.9	488.5	615.6	868.2	1380.5	2705.1	7505.5	8961.3	9498.7	8821.7
77.5°	347.6	371.3	448.1	607.2	820.8	1023.2	4017.2	5400.5	5678.3	5256.8
80°	273.6	291.7	335.0	442.5	582.1	547.2	1369.3	2446.9	2607.4	2187.3
82.5°	237.3	244.3	240.1	300.1	386.6	319.6	449.5	903.1	996.6	723.0
85°	171.7	191.2	199.6	185.6	205.2	161.9	184.3	319.6	351.8	314.1
87.5°	69.8	103.3	127.0	120.0	75.4	46.1	57.2	93.5	107.5	117.3
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°
2946.6	0°	2946.6	2946.6	2946.6	2946.6	2946.6	2946.6	2946.6	2946.6	2946.6	2946.6
2948.0	2.5°	2949.4	2959.2	2966.2	2974.5	2980.1	2988.5	3005.3	3015.0	3016.4	3023.4
2970.4	5°	2975.9	2989.9	3005.3	3027.6	3052.7	3073.7	3105.8	3128.1	3136.5	3143.4
3024.8	7.5°	3033.2	3052.7	3080.6	3119.7	3156.0	3183.9	3223.0	3249.5	3276.1	3285.8
3111.3	10°	3118.3	3146.2	3186.7	3239.8	3278.8	3315.1	3355.6	3377.9	3404.5	3415.6
3214.6	12.5°	3224.4	3253.7	3306.8	3380.7	3417.0	3442.2	3456.1	3450.5	3456.1	3465.9
3338.9	15°	3345.8	3377.9	3438.0	3517.5	3542.7	3520.3	3489.6	3461.7	3457.5	3460.3
3489.6	17.5°	3489.6	3513.3	3583.1	3650.1	3632.0	3539.9	3472.9	3428.2	3405.9	3398.9
3682.2	20°	3690.6	3690.6	3747.8	3789.7	3668.3	3511.9	3407.3	3334.7	3288.6	3269.1
3944.7	22.5°	3934.9	3912.6	3948.8	3919.5	3661.3	3433.8	3288.6	3163.0	3093.2	3065.3
4311.8	25°	4244.8	4218.2	4208.5	4027.0	3611.1	3309.6	3073.7	2921.5	2860.1	2844.7
4840.8	27.5°	4712.4	4645.4	4518.4	4085.6	3518.9	3114.1	2822.4	2681.4	2646.5	2647.9
5520.6	30°	5334.9	5200.9	4889.6	4095.4	3368.2	2837.8	2565.6	2465.1	2448.3	2455.3
6091.5	32.5°	5911.4	5784.4	5269.3	4050.7	3136.5	2567.0	2335.3	2268.3	2243.1	2251.5
6527.0	35°	6363.7	6328.8	5621.1	3987.9	2851.7	2312.9	2128.7	2071.4	2022.6	2011.4
6937.4	37.5°	6790.8	6776.8	5884.9	3900.0	2569.8	2132.9	1962.6	1887.2	1816.0	1776.9
7391.0	40°	7259.8	7245.8	6058.0	3764.6	2319.9	1976.5	1813.2	1714.1	1626.2	1555.0
7904.7	42.5°	7787.4	7705.1	6140.3	3570.6	2107.7	1843.9	1691.8	1557.8	1441.9	1376.3
8485.3	45°	8363.9	8178.3	6138.9	3323.5	1929.1	1722.5	1562.0	1372.1	1264.6	1203.2
9081.4	47.5°	8975.3	8630.5	6063.6	3049.9	1756.0	1588.5	1361.0	1215.8	1144.6	1106.9
9729.0	50°	9606.2	9053.5	5935.1	2735.9	1578.7	1436.3	1235.3	1136.2	1081.8	1046.9
10371.1	52.5°	10199.4	9437.3	5780.2	2379.9	1398.6	1288.4	1179.5	1102.7	1045.5	1006.4
10993.7	55°	10750.8	9768.1	5561.1	2015.6	1252.1	1189.3	1153.0	1088.8	1023.2	977.1
11626.0	57.5°	11240.7	9983.1	5182.8	1673.6	1147.4	1120.9	1125.1	1065.0	989.7	950.6
12248.6	60°	11648.3	10140.8	4623.0	1356.8	1062.2	1053.9	1081.8	1020.4	932.4	887.8
12774.8	62.5°	11892.6	10138.0	3936.3	1111.1	989.7	992.4	1024.6	964.5	875.2	833.3
13049.8	65°	11871.7	9889.6	3182.5	950.6	919.9	922.7	964.5	903.1	827.7	802.6
12911.6	67.5°	11451.5	9283.8	2441.3	845.9	843.1	855.7	904.5	861.2	798.4	795.6
12088.0	70°	10313.9	8026.1	1758.8	762.1	763.5	781.7	845.9	834.7	783.1	788.7
10163.2	72.5°	8270.4	6119.4	1180.9	674.2	675.6	704.9	790.0	813.8	767.7	841.7
7210.9	75°	5508.0	3816.2	759.3	580.7	582.1	619.8	741.2	773.3	725.8	838.9
3752.0	77.5°	2646.5	1715.5	550.0	488.5	488.5	523.4	640.7	692.3	618.4	651.9
1206.0	80°	914.3	644.9	432.7	393.6	385.3	409.0	540.2	600.2	533.2	491.3
393.6	82.5°	360.1	335.0	347.6	305.7	277.8	293.1	420.1	495.5	392.2	354.5
221.9	85°	206.6	217.8	245.7	202.4	160.5	180.1	308.5	355.9	295.9	261.0
72.6	87.5°	55.8	76.8	113.1	104.7	72.6	76.8	146.6	196.8	170.3	131.2
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°  
2946.6  
3022.0  
3142.0  
3287.2  
3421.2  
3468.7  
3470.1  
3408.7  
3264.9  
3061.1  
2847.5  
2652.1  
2479.0  
2262.7  
2019.8  
1778.3  
1562.0  
1380.5  
1200.4  
1098.5  
1034.3  
989.7  
958.9  
925.4  
868.2  
820.8  
801.2  
799.8  
787.3  
852.9  
845.9  
597.4  
460.6  
353.1  
266.6  
135.4  
0.0

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