

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: P953584

Luminaire Tested: **GALN-SB7A-830-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953584
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7A-830-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29427 lumens
Efficiency: N/A
Efficacy: 147.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

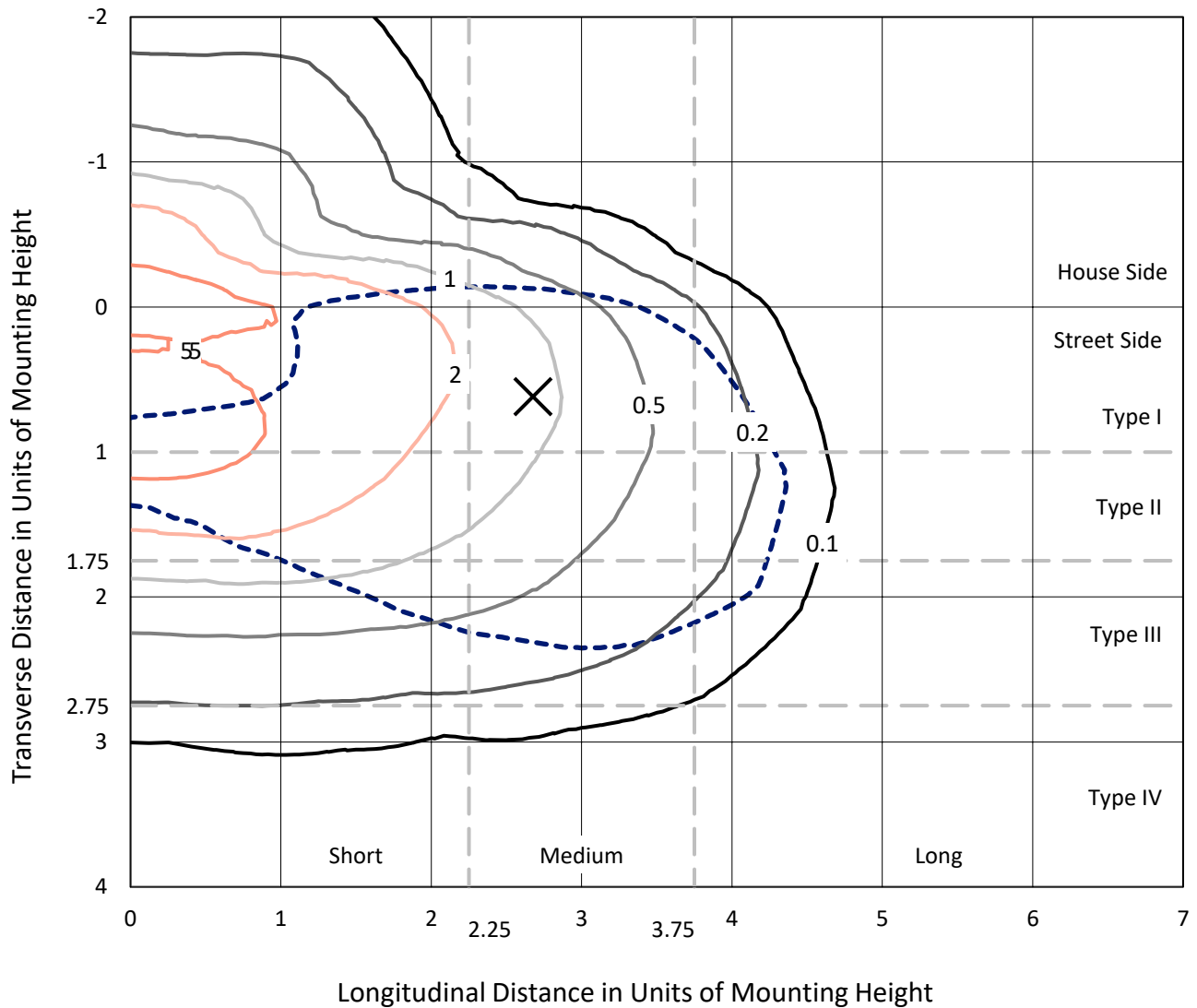
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

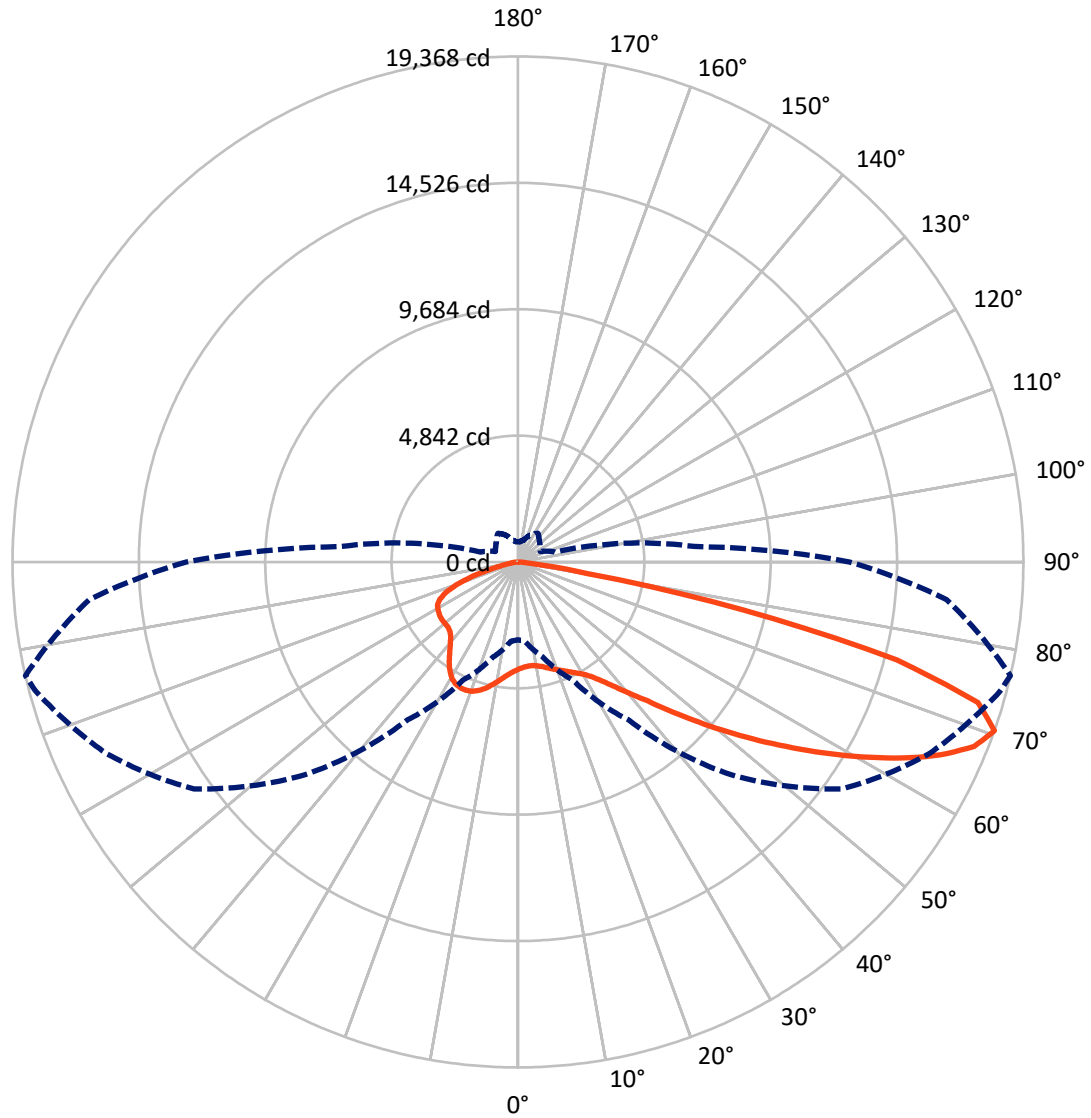
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6444.1	0.0	6444.1
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	22982.9	0.0	22982.9
	% Fixture	78.1	0.0	78.1
Total	Lumens	29427.0	0.0	29427.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	391.5	1.3
10°-20°	1130.0	3.8
20°-30°	1932.5	6.6
30°-40°	3107.6	10.6
40°-50°	4851.8	16.5
50°-60°	6480.9	22.0
60°-70°	6907.6	23.5
70°-80°	4252.3	14.5
80°-90°	372.6	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°	29427.0	100.0
0°-180°	29427.0	100.0



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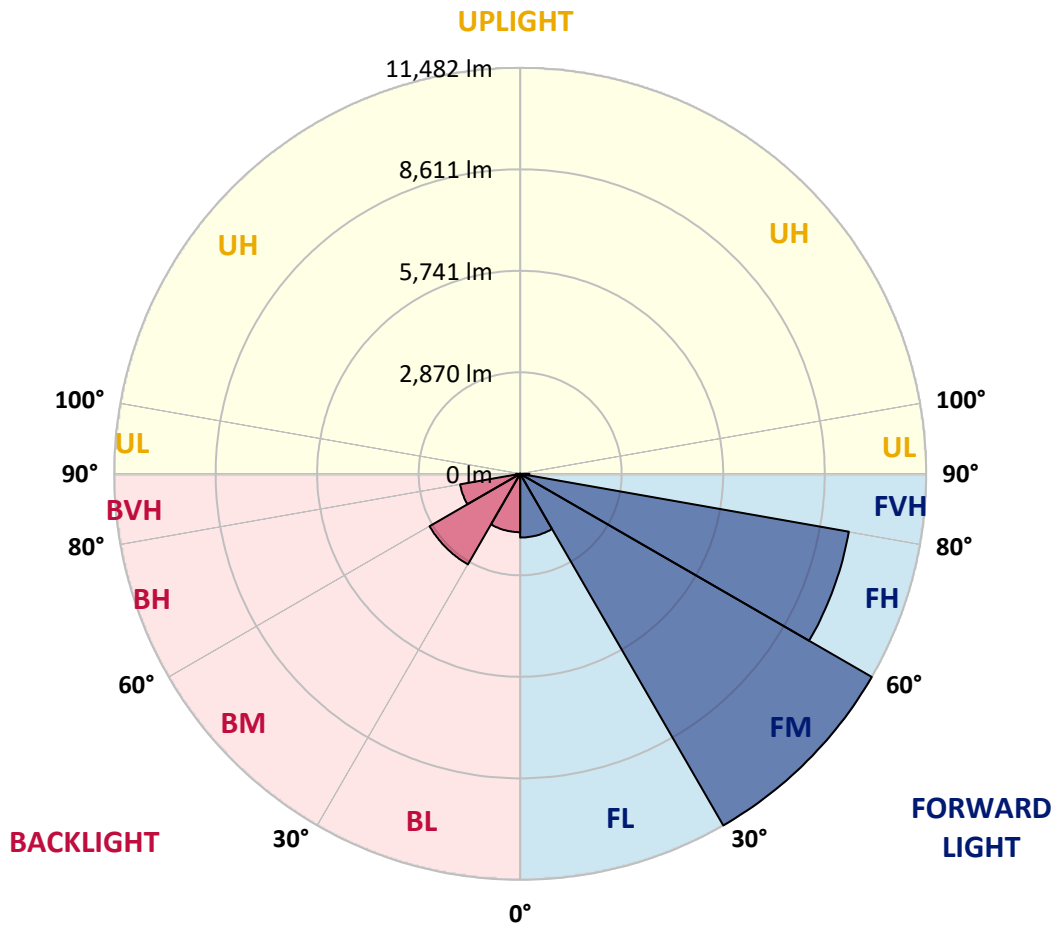
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1802.9	6.1			
FM (30°-60°)	11481.8	39.0			
FH (60°-80°)	9437.7	32.1			G4/12000
FVH (80°-90°)	260.6	0.9			G3/500
BL (0°-30°)	1651.2	5.6	B3/2500		
BM (30°-60°)	2958.6	10.1	B3/5000		
BH (60°-80°)	1722.2	5.9	B3/2500		G3/2500
BVH (80°-90°)	112.1	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4105.3	4105.3	4105.3	4105.3	4105.3	4105.3	4105.3	4105.3	4105.3	4105.3
2.5°	3784.3	3782.8	3802.4	3808.4	3844.6	3870.2	3918.5	3969.7	4036.0	4043.5
5°	3565.8	3565.8	3588.4	3612.5	3659.2	3710.5	3784.3	3873.2	3987.8	4005.9
7.5°	3380.4	3392.5	3412.1	3458.8	3513.0	3586.9	3699.9	3826.5	3977.2	4005.9
10°	3231.2	3244.8	3268.9	3306.6	3388.0	3490.4	3638.1	3800.9	4002.9	4048.1
12.5°	3184.5	3198.1	3211.6	3240.3	3315.6	3436.2	3612.5	3813.0	4064.6	4109.9
15°	3293.0	3309.6	3299.0	3291.5	3330.7	3440.7	3624.6	3856.7	4141.5	4206.3
17.5°	3543.2	3549.2	3525.1	3454.3	3448.2	3507.0	3681.8	3916.9	4238.0	4308.8
20°	3947.1	3936.5	3886.8	3746.6	3666.8	3654.7	3779.8	4007.4	4337.4	4412.8
22.5°	4495.7	4483.6	4384.1	4162.6	3984.8	3867.2	3921.5	4124.9	4449.0	4533.4
25°	5179.9	5163.3	5017.1	4715.7	4439.9	4149.0	4114.4	4280.2	4586.1	4664.5
27.5°	5978.7	5965.1	5806.8	5409.0	5011.1	4534.9	4354.0	4462.5	4729.3	4818.2
30°	6837.7	6876.9	6596.6	6168.6	5665.2	5038.2	4676.5	4687.1	4914.6	4994.5
32.5°	7847.5	7915.3	7577.7	7035.1	6347.9	5585.3	5083.4	5000.6	5184.4	5250.7
35°	8848.2	8925.0	8644.7	8044.9	7253.7	6230.3	5508.4	5360.7	5543.1	5615.4
37.5°	9713.2	9815.7	9671.0	9149.6	8222.7	7008.0	6063.1	5784.2	5984.7	6075.1
40°	10396.0	10552.7	10542.2	10216.6	9365.1	7951.4	6766.9	6307.2	6533.3	6631.2
42.5°	10950.6	11086.2	11203.8	11187.2	10557.2	9023.0	7594.3	6986.9	7158.7	7271.7
45°	11333.4	11478.1	11731.3	12004.0	11704.1	10169.9	8542.2	7793.2	7949.9	8120.2
47.5°	11675.5	11839.8	12168.3	12600.8	12677.7	11321.3	9580.6	8732.1	8875.3	9051.6
50°	11705.6	11847.3	12356.7	12970.1	13369.5	12427.5	10695.9	9785.6	9919.7	10108.1
52.5°	10977.7	11200.8	12089.9	12959.5	13687.5	13352.9	11803.6	10881.2	11032.0	11258.0
55°	8521.1	8848.2	11307.8	12555.6	13574.4	13951.2	12857.1	12046.2	12239.1	12475.8
57.5°	7339.6	7482.7	8976.3	11820.2	13059.0	14106.4	13746.2	13223.3	13533.7	13793.0
60°	6596.6	6715.6	7598.8	10676.3	12380.8	13860.8	14433.5	14320.4	14857.0	15165.9
62.5°	5800.8	5913.9	6717.1	8914.5	11512.7	13452.4	14867.5	15333.2	16213.4	16551.0
65°	5011.1	5107.6	5877.7	7490.3	10409.5	13043.9	15092.1	16208.8	17468.8	17818.4
67.5°	4131.0	4210.8	4938.8	6319.3	9068.2	12484.8	15203.6	16897.6	18561.4	18861.3
70°	2981.0	3042.8	3794.9	4997.5	7384.8	11523.3	15158.4	17385.9	19128.1	19367.7
72.5°	1409.1	1464.9	2348.1	3244.8	5216.1	9651.5	14243.6	16998.6	18552.4	18433.3
75°	752.0	800.3	1348.9	1779.9	2755.0	6616.2	11655.9	14643.0	15578.9	15000.1
77.5°	509.4	547.1	834.9	1068.5	1258.4	3140.8	7491.8	10138.2	9753.9	8798.4
80°	403.9	443.1	684.2	723.4	608.9	1134.8	3095.6	4693.1	3371.4	2696.2
82.5°	310.5	354.2	575.7	524.5	331.6	465.7	901.2	1484.5	863.6	657.1
85°	189.9	236.6	452.1	334.6	186.9	212.5	305.9	412.9	263.7	220.0
87.5°	96.5	135.6	229.1	122.1	84.4	49.7	81.4	81.4	69.3	60.3
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°
4105.3	0°	4105.3	4105.3	4105.3	4105.3	4105.3	4105.3	4105.3	4105.3	4105.3	4105.3
4084.2	2.5°	4120.4	4150.5	4201.8	4250.0	4287.7	4323.9	4360.0	4379.6	4385.7	4409.8
4106.8	5°	4168.6	4224.4	4323.9	4417.3	4476.1	4512.3	4537.9	4552.9	4556.0	4563.5
4168.6	7.5°	4257.6	4346.5	4485.1	4578.6	4622.3	4619.3	4608.7	4571.0	4556.0	4542.4
4259.1	10°	4382.6	4500.2	4670.5	4735.3	4708.2	4635.8	4542.4	4432.4	4381.1	4331.4
4382.6	12.5°	4537.9	4687.1	4854.4	4851.3	4717.2	4531.8	4314.8	4146.0	4039.0	3962.2
4534.9	15°	4726.3	4898.1	5026.2	4923.7	4629.8	4296.7	3978.7	3758.7	3662.2	3577.9
4688.6	17.5°	4920.7	5104.5	5163.3	4901.1	4409.8	3948.6	3588.4	3415.1	3320.1	3274.9
4854.4	20°	5110.6	5292.9	5244.7	4771.5	4075.2	3553.7	3232.7	3137.8	3118.2	3128.7
5015.6	22.5°	5311.0	5473.8	5261.3	4521.3	3648.7	3149.8	2973.5	2976.5	3020.2	3051.9
5184.4	25°	5516.0	5626.0	5217.6	4159.6	3190.5	2852.9	2809.2	2857.5	2943.4	3005.2
5374.3	27.5°	5713.4	5761.6	5122.6	3712.0	2797.2	2640.4	2648.0	2747.4	2877.1	2963.0
5604.9	30°	5936.5	5882.2	4940.3	3208.6	2524.4	2458.1	2521.4	2637.4	2767.0	2843.9
5895.8	32.5°	6188.1	5986.2	4650.9	2742.9	2331.5	2311.9	2415.9	2491.2	2548.5	2571.1
6281.6	35°	6501.6	6132.4	4280.2	2415.9	2158.2	2204.9	2304.4	2266.7	2244.1	2232.0
6800.0	37.5°	6908.5	6329.8	3846.1	2203.4	2018.0	2128.0	2168.7	2051.2	1962.2	1918.5
7428.5	40°	7398.3	6619.2	3428.6	2039.1	1929.1	2061.7	1990.9	1849.2	1736.2	1674.4
8135.3	42.5°	7942.4	6922.1	3077.5	1915.5	1879.4	2007.5	1859.8	1691.0	1508.6	1489.0
8977.8	45°	8513.6	7234.1	2837.9	1820.6	1855.2	1960.7	1784.4	1511.6	1382.0	1461.9
9823.3	47.5°	9084.8	7520.4	2693.2	1749.7	1843.2	1908.0	1718.1	1412.2	1320.2	1436.3
10729.0	50°	9720.8	7776.6	2628.4	1698.5	1829.6	1886.9	1618.6	1386.5	1255.4	1332.3
11666.4	52.5°	10352.3	7975.6	2580.2	1647.3	1810.0	1870.3	1570.4	1356.4	1177.0	1181.6
12609.9	55°	10982.2	8105.2	2527.4	1579.4	1766.3	1834.1	1565.9	1323.2	1118.3	1097.2
13607.6	57.5°	11654.4	8179.0	2462.6	1504.1	1691.0	1742.2	1561.4	1297.6	1100.2	1065.5
14627.9	60°	12338.6	8287.5	2378.2	1412.2	1590.0	1632.2	1550.8	1288.6	1089.6	1030.9
15589.4	62.5°	12952.0	8325.2	2277.2	1324.7	1460.4	1523.7	1528.2	1281.0	1061.0	960.0
16388.2	65°	13354.4	8162.4	2100.9	1225.3	1320.2	1412.2	1484.5	1255.4	1009.8	908.8
16783.0	67.5°	13337.8	7698.3	1825.1	1097.2	1184.6	1288.6	1421.2	1211.7	948.0	845.5
16484.6	70°	12716.9	6781.9	1475.4	948.0	1035.4	1155.9	1339.8	1146.9	874.1	776.2
14658.0	72.5°	10906.9	5308.0	1071.5	773.1	862.1	1018.8	1234.3	1068.5	798.8	714.4
10833.0	75°	7791.7	3359.3	726.4	593.8	670.7	863.6	1103.2	976.6	729.4	717.4
5425.6	77.5°	3980.2	1605.1	480.8	434.0	467.2	681.2	926.9	872.6	740.0	592.3
1543.3	80°	1294.6	592.3	302.9	295.4	310.5	453.6	717.4	715.9	560.6	402.4
373.8	82.5°	412.9	254.7	197.4	189.9	182.4	284.8	500.4	566.7	378.3	254.7
134.1	85°	164.3	152.2	116.0	107.0	76.9	134.1	262.2	376.8	281.8	183.9
34.7	87.5°	60.3	60.3	31.6	22.6	16.6	45.2	70.8	113.0	161.3	94.9
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>
4105.3
4423.3
4575.5
4545.4
4316.3
3944.1
3568.8
3288.5
3124.2
3059.4
3021.7
2984.1
2862.0
2583.2
2244.1
1929.1
1678.9
1508.6
1504.1
1490.5
1389.5
1213.2
1112.2
1070.0
1035.4
960.0
908.8
850.0
785.2
709.8
676.7
527.5
355.7
253.2
188.4
93.4
0.0

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