

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: P951818

Luminaire Tested: **GALN-SB5D-835-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951818
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5D-835-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48318 lumens
Efficiency: N/A
Efficacy: 132.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

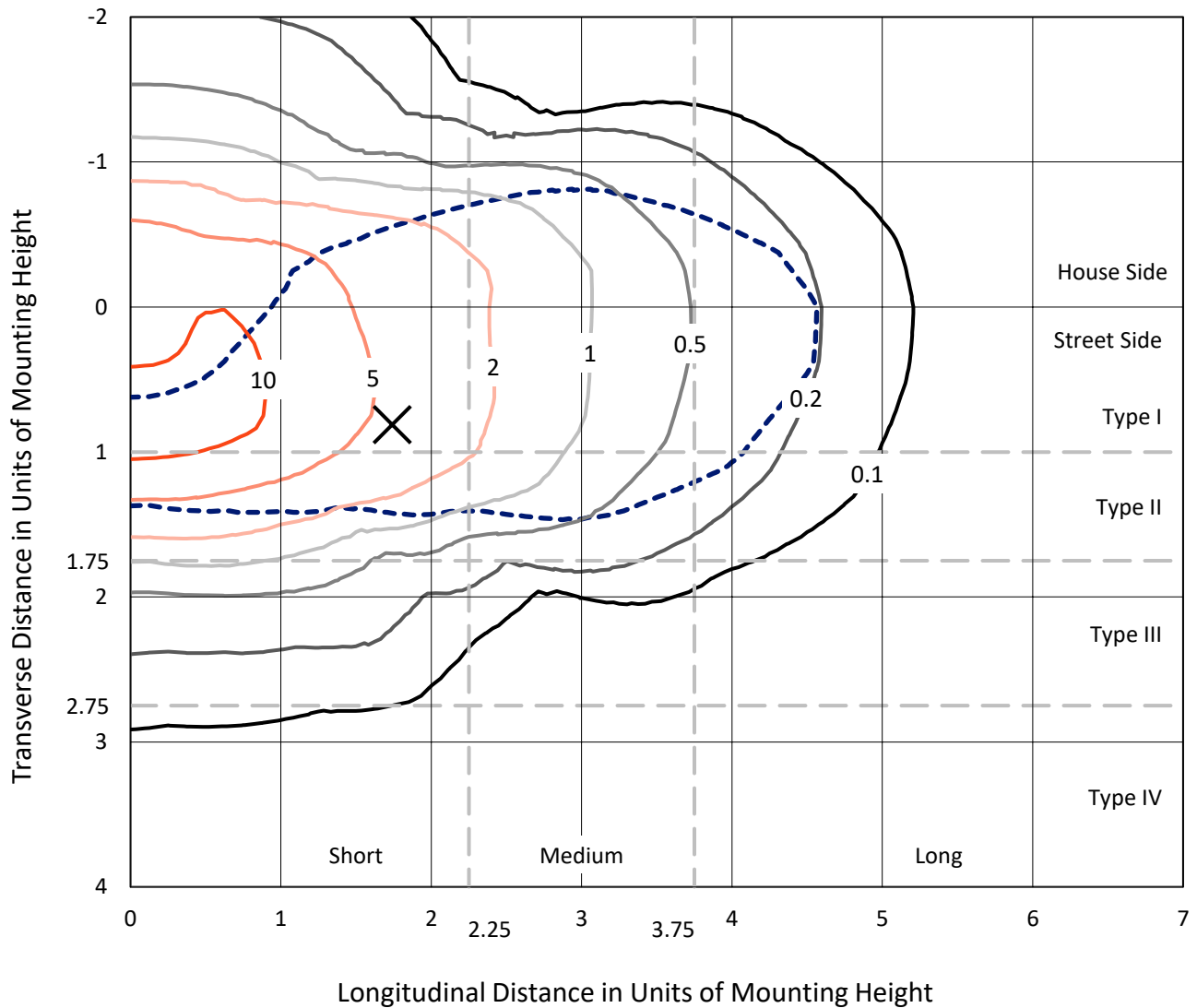
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

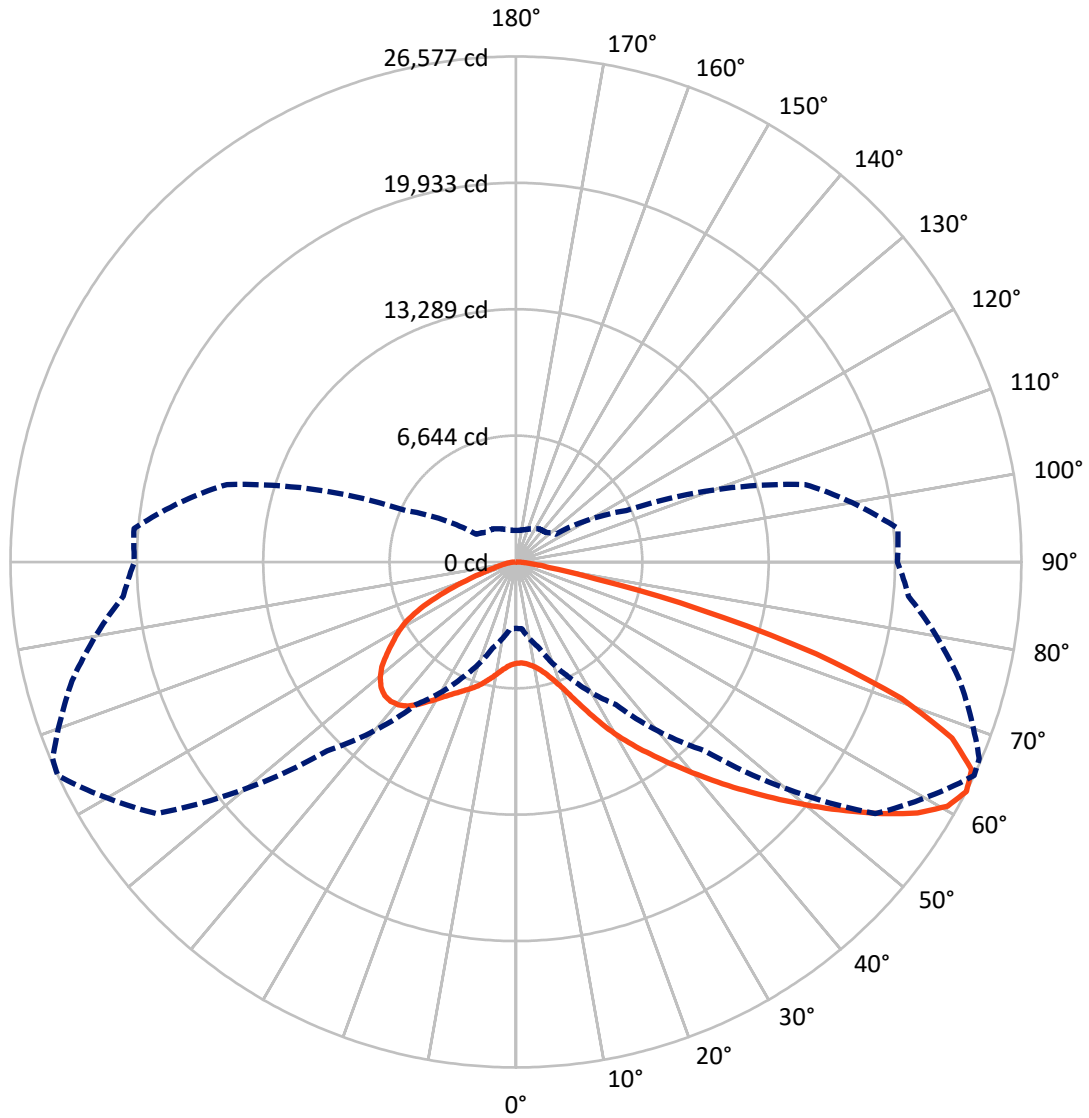
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15247.1	0.0	15247.1
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	33070.9	0.0	33070.9
	% Fixture	68.4	0.0	68.4
Total	Lumens	48318.0	0.0	48318.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	530.8	1.1
10°-20°	1800.1	3.7
20°-30°	3650.0	7.6
30°-40°	6316.2	13.1
40°-50°	9558.3	19.8
50°-60°	11206.5	23.2
60°-70°	9395.3	19.4
70°-80°	5187.0	10.7
80°-90°	673.8	1.4
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°	48318.0	100.0
0°-180°	48318.0	100.0

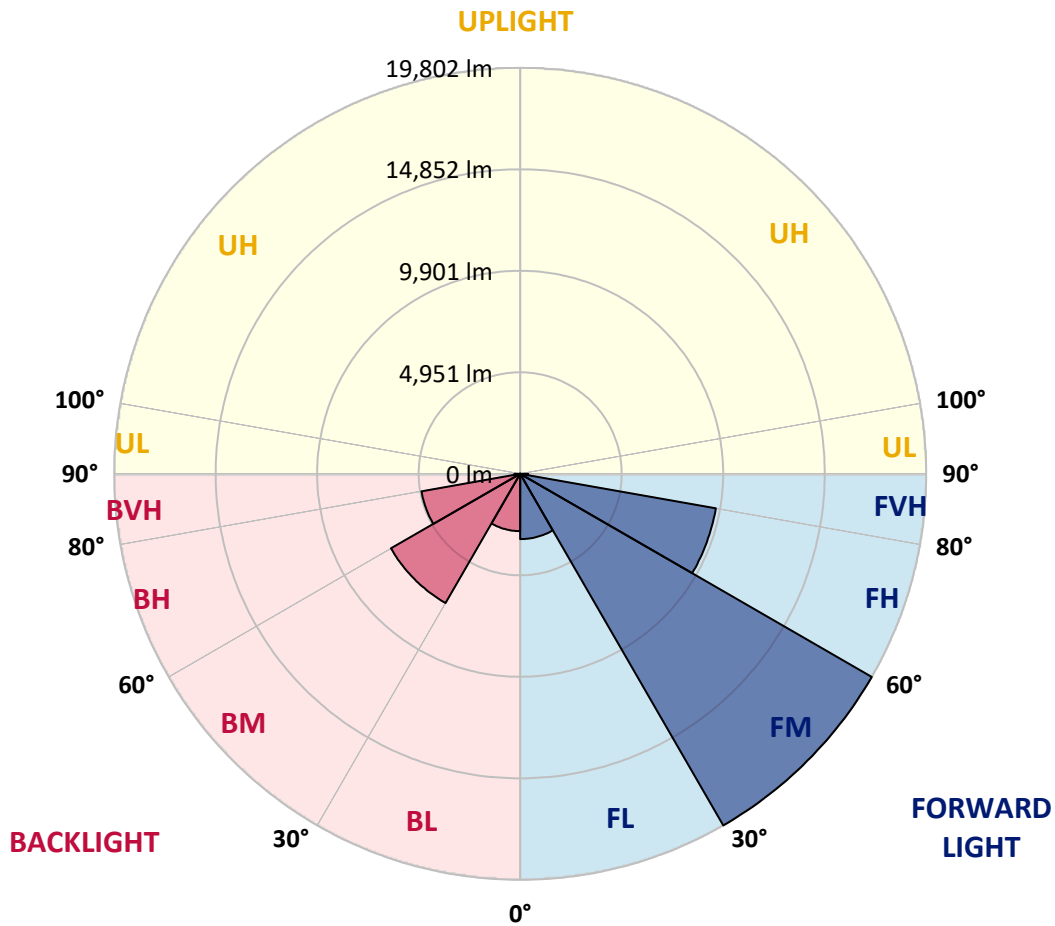


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3184.8	6.6			
FM (30°-60°)	19802.3	41.0			
FH (60°-80°)	9691.2	20.1			G4/12000
FVH (80°-90°)	392.7	0.8			G3/500
BL (0°-30°)	2796.1	5.8	B4/5000		
BM (30°-60°)	7278.7	15.1	B4/8500		
BH (60°-80°)	4891.1	10.1	B4/5000		G4/5000
BVH (80°-90°)	281.1	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	5324.4	5324.4	5324.4	5324.4	5324.4	5324.4	5324.4	5324.4	5324.4	5324.4
2.5°	5289.3	5274.3	5286.8	5286.8	5291.8	5289.3	5306.9	5311.9	5319.4	5334.5
5°	5236.7	5234.2	5256.8	5276.8	5296.9	5314.4	5337.0	5369.6	5374.6	5392.1
7.5°	5219.1	5204.1	5239.2	5264.3	5311.9	5354.5	5414.7	5469.8	5492.4	5499.9
10°	5354.5	5329.4	5362.0	5377.1	5417.2	5459.8	5530.0	5617.7	5642.8	5672.9
12.5°	5585.1	5557.6	5605.2	5627.8	5665.4	5703.0	5750.6	5835.8	5848.4	5903.5
15°	5901.0	5868.4	5898.5	5926.1	5988.7	6023.8	6071.5	6154.2	6154.2	6196.8
17.5°	6329.7	6287.0	6309.6	6319.6	6359.7	6412.4	6492.6	6565.3	6602.9	6587.9
20°	6968.9	6916.2	6916.2	6866.1	6851.1	6893.7	6999.0	7099.2	7139.4	7061.6
22.5°	7929.0	7853.8	7811.2	7640.7	7573.0	7578.0	7683.3	7806.2	7838.8	7700.9
25°	9149.8	9032.0	8974.3	8723.6	8570.7	8437.9	8520.6	8678.5	8723.6	8553.2
27.5°	10370.6	10378.1	10323.0	10022.2	9769.0	9525.8	9483.2	9648.7	9696.3	9503.3
30°	12082.8	11904.8	11799.5	11438.5	11077.5	10736.6	10561.1	10628.8	10641.3	10410.7
32.5°	13559.3	13514.1	13288.5	12972.7	12508.9	11975.0	11681.7	11573.9	11553.8	11225.4
35°	15241.3	15216.2	14978.1	14602.1	14100.7	13358.7	12829.8	12521.4	12496.4	12035.1
37.5°	16951.0	16951.0	16717.8	16306.7	15787.8	14860.3	14055.6	13566.8	13486.6	12884.9
40°	18314.6	18231.9	18274.5	18101.6	17507.5	16522.3	15416.8	14707.4	14599.6	13877.6
42.5°	19089.2	19061.7	19317.4	19510.4	19267.2	18480.1	16915.9	15943.2	15792.8	14970.6
45°	19262.2	19232.1	19688.4	20395.3	20736.2	20412.8	18545.3	17244.2	17061.3	16113.7
47.5°	18863.6	18803.5	19472.8	20588.3	21681.3	22250.3	20310.1	18655.6	18389.9	17226.7
50°	17665.4	17607.7	18620.5	20102.0	21999.6	23498.7	22225.3	20152.1	19746.0	18419.9
52.5°	15060.8	15088.4	16675.2	18710.7	21581.0	24275.8	23874.7	21728.9	21240.1	19640.7
55°	11731.8	11792.0	13742.3	15983.3	19906.5	24158.0	25000.3	23353.3	22867.0	20788.9
57.5°	8400.3	8666.0	10493.4	12712.0	16690.2	22290.4	25245.9	24897.5	24426.2	22042.3
60°	5444.8	5492.4	7372.5	9608.5	12709.5	18971.4	24747.1	26068.2	25699.7	23320.7
62.5°	3489.5	3522.0	4667.7	6720.7	9147.3	14035.5	23067.5	26577.0	26464.2	24165.5
65°	2564.5	2539.4	3136.0	4442.0	6161.7	8656.0	19806.2	26331.4	26554.5	24694.4
67.5°	2140.8	2105.7	2399.0	3075.8	4539.8	4915.8	14654.7	24734.6	25551.8	24634.3
70°	1950.3	1920.2	2098.2	2283.7	3542.1	3291.4	7387.5	21503.3	22761.7	23949.9
72.5°	1652.0	1599.3	1842.5	2028.0	2755.0	2524.3	3053.3	16517.3	18051.4	21756.5
75°	1281.0	1245.9	1453.9	1784.8	2070.6	1970.3	1930.2	10029.7	11704.2	16825.6
77.5°	1015.3	967.6	1158.1	1391.3	1862.5	1486.5	1406.3	4319.2	5978.7	10741.6
80°	764.6	722.0	879.9	1100.5	1431.4	1120.5	910.0	1762.3	2253.6	5442.3
82.5°	544.0	506.4	614.2	807.2	962.6	1005.2	559.0	987.7	1110.5	2098.2
85°	348.4	325.9	411.1	506.4	611.7	646.8	340.9	516.4	566.5	864.8
87.5°	190.5	155.4	220.6	235.6	283.3	258.2	162.9	188.0	203.1	313.3
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°
5324.4	0°	5324.4	5324.4	5324.4	5324.4	5324.4	5324.4	5324.4	5324.4	5324.4	5324.4
5334.5	2.5°	5344.5	5352.0	5377.1	5384.6	5402.1	5424.7	5439.7	5454.8	5454.8	5469.8
5414.7	5°	5417.2	5434.7	5487.4	5515.0	5560.1	5605.2	5632.8	5665.4	5685.4	5695.4
5542.5	7.5°	5557.6	5585.1	5660.3	5708.0	5785.7	5848.4	5891.0	5936.1	5946.1	5973.7
5720.5	10°	5748.1	5780.7	5865.9	5956.1	6048.9	6126.6	6166.7	6199.3	6211.8	6216.9
5948.6	12.5°	5966.2	6013.8	6124.1	6234.4	6332.2	6399.8	6409.9	6402.4	6367.3	6337.2
6229.4	15°	6234.4	6277.0	6399.8	6520.2	6615.4	6628.0	6565.3	6525.2	6482.6	6475.1
6542.7	17.5°	6555.3	6577.8	6690.6	6808.5	6816.0	6773.4	6680.6	6643.0	6602.9	6575.3
6951.3	20°	6928.8	6921.3	7001.5	7051.6	6999.0	6868.6	6728.2	6665.6	6625.5	6592.9
7452.7	22.5°	7375.0	7317.3	7307.3	7294.8	7154.4	6881.2	6690.6	6610.4	6547.8	6502.6
8152.1	25°	8024.3	7803.7	7650.7	7565.5	7249.7	6813.5	6570.3	6392.3	6274.5	6196.8
9006.9	27.5°	8836.5	8465.4	8079.4	7871.3	7249.7	6675.6	6279.5	5991.2	5798.2	5718.0
9834.2	30°	9611.1	9222.5	8653.5	8239.8	7232.1	6450.0	5810.8	5409.7	5184.1	5103.8
10541.1	32.5°	10272.8	9849.2	9262.6	8643.4	7189.5	6084.0	5229.2	4785.5	4567.4	4472.1
11240.5	35°	10887.0	10435.8	9874.3	9087.1	7076.7	5547.5	4589.9	4251.5	4008.4	3855.5
11952.4	37.5°	11516.2	10979.8	10453.3	9488.2	6873.6	4920.8	4098.6	3810.3	3524.6	3319.0
12709.5	40°	12200.6	11558.8	11072.5	9726.4	6540.2	4324.2	3717.6	3454.4	3151.0	2933.0
13581.8	42.5°	13000.2	12253.2	11761.9	9849.2	6084.0	3900.6	3469.4	3211.2	2925.4	2747.4
14516.9	45°	13835.0	13017.8	12391.1	9846.7	5575.1	3702.5	3389.2	3133.5	2817.6	2632.1
15477.0	47.5°	14709.9	13817.5	12935.1	9686.3	5133.9	3730.1	3344.1	2965.5	2617.1	2436.6
16447.1	50°	15587.3	14692.3	13461.5	9385.4	4945.9	3669.9	3176.1	2729.9	2318.8	2155.8
17357.1	52.5°	16457.1	15622.4	13915.2	8956.8	4755.4	3446.8	2960.5	2424.1	2196.0	2083.1
18297.1	55°	17332.0	16542.3	14409.1	8332.6	4279.1	3186.1	2599.5	2308.8	2098.2	1995.4
19217.1	57.5°	18209.4	17605.2	14877.8	7708.4	3680.0	2865.3	2401.5	2168.4	2000.4	1912.7
19986.7	60°	19121.8	18821.0	15361.6	7134.3	3088.4	2454.2	2256.1	2055.6	1885.1	1787.3
20726.2	62.5°	20061.9	20159.7	15740.2	6394.8	2544.4	2203.5	2125.8	1920.2	1754.8	1662.0
21337.8	65°	21009.5	21450.7	15988.3	5369.6	2063.1	1965.3	1985.4	1772.3	1604.3	1524.1
21786.6	67.5°	21723.9	22380.7	15918.2	4063.5	1692.1	1739.7	1809.9	1616.9	1459.0	1396.3
21713.9	70°	21804.1	22270.4	15226.3	2782.5	1416.3	1519.1	1614.4	1464.0	1301.0	1255.9
20691.1	72.5°	20736.2	20766.3	13298.6	1817.4	1198.2	1333.6	1408.8	1308.5	1150.6	1105.5
18101.6	75°	17936.1	17174.1	9764.0	1198.2	1002.7	1145.6	1215.8	1145.6	992.7	1002.7
13544.2	77.5°	13589.3	12163.0	5928.6	852.3	837.3	962.6	1057.9	1007.7	877.4	985.2
6811.0	80°	7001.5	6580.3	2644.7	636.7	661.8	769.6	869.9	804.7	694.4	661.8
1521.6	82.5°	1604.3	1865.1	1042.8	456.2	478.8	554.0	664.3	604.1	498.9	421.1
634.2	85°	561.5	614.2	461.3	285.8	280.8	345.9	451.2	403.6	338.4	270.7
268.2	87.5°	178.0	233.1	173.0	115.3	120.3	155.4	208.1	190.5	157.9	102.8
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>
5324.4
5469.8
5700.5
5963.7
6204.3
6337.2
6475.1
6577.8
6595.4
6517.7
6226.9
5758.1
5151.5
4519.8
3905.6
3374.1
2975.6
2782.5
2662.2
2461.7
2165.9
2083.1
1985.4
1897.6
1779.8
1659.5
1521.6
1398.8
1258.4
1103.0
967.6
867.4
604.1
416.1
285.8
107.8
0.0

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