

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: P956459

Luminaire Tested: **GALN-SB9A-835-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956459
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-SB9A-835-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38405 lumens
Efficiency: N/A
Efficacy: 150.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

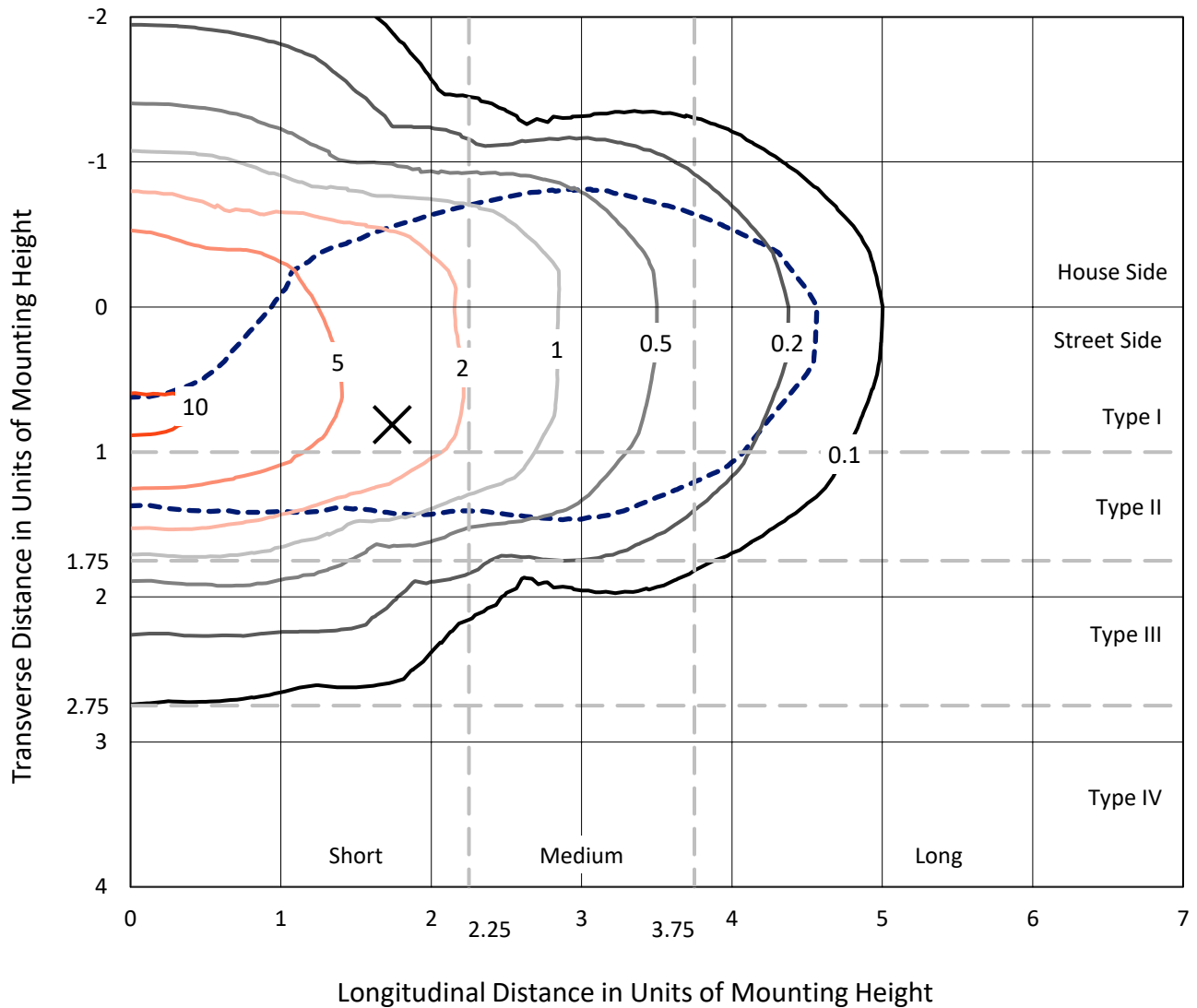
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

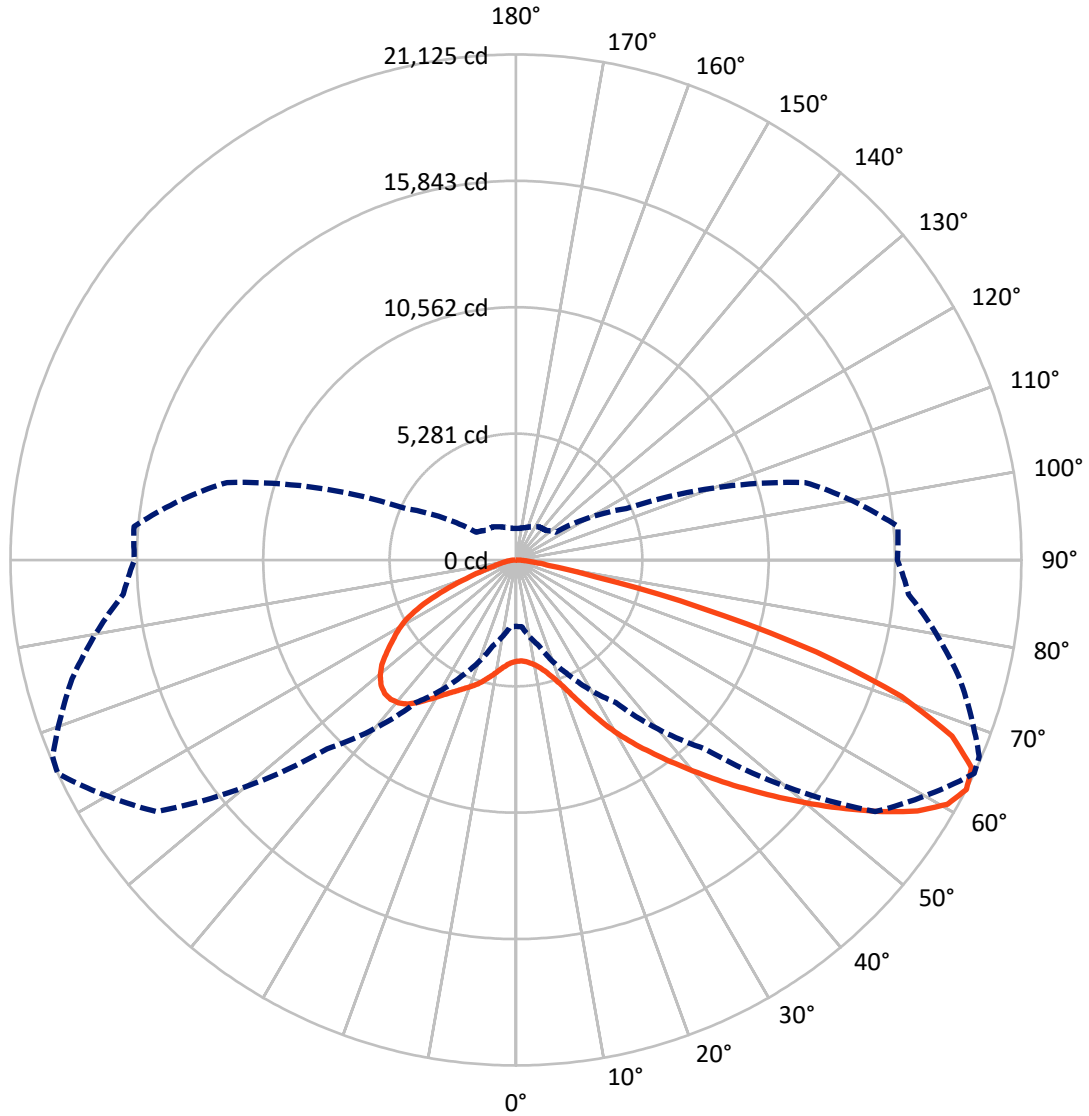
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 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	12118.9	0.0	12118.9
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	26286.1	0.0	26286.1
	% Fixture	68.4	0.0	68.4
Total	Lumens	38405.0	0.0	38405.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.9	1.1
10°-20°	1430.8	3.7
20°-30°	2901.1	7.6
30°-40°	5020.3	13.1
40°-50°	7597.3	19.8
50°-60°	8907.4	23.2
60°-70°	7467.8	19.4
70°-80°	4122.8	10.7
80°-90°	535.5	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°	38405.0	100.0
0°-180°	38405.0	100.0



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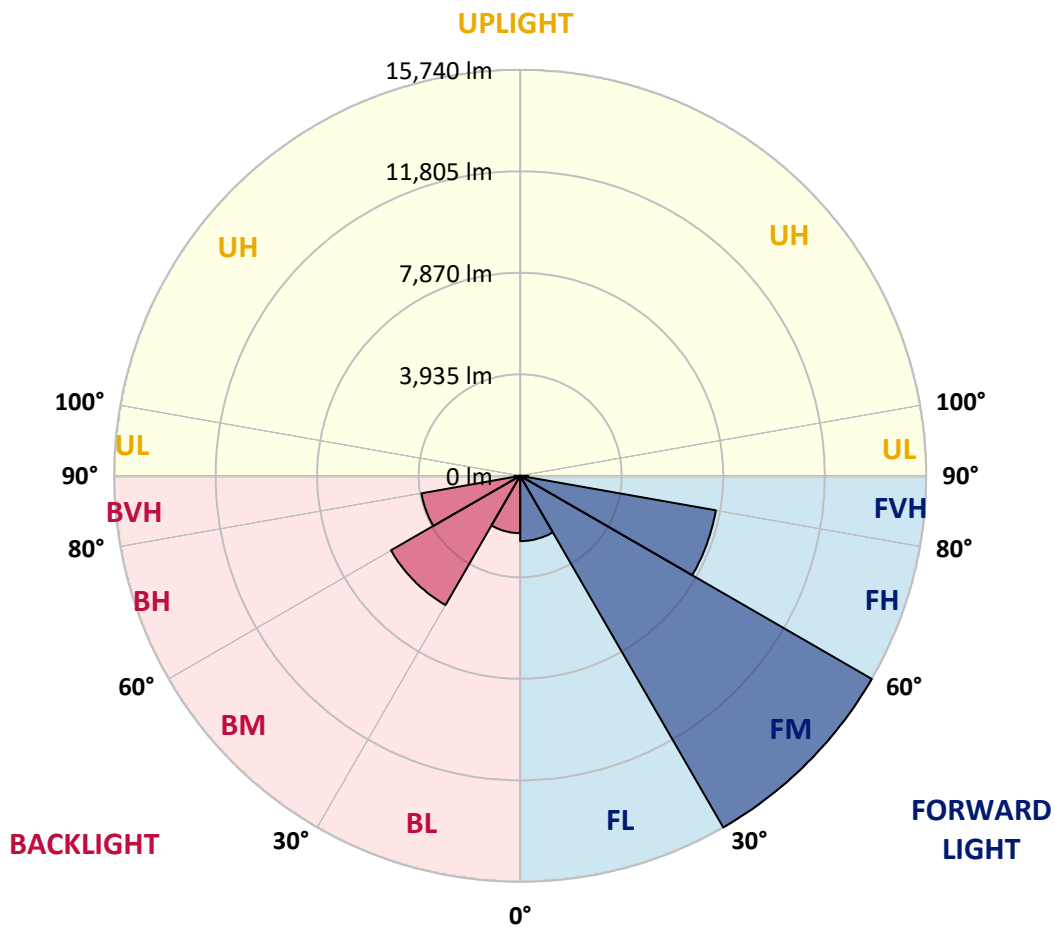
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2531.4	6.6			
FM (30°-60°)	15739.6	41.0			
FH (60°-80°)	7702.9	20.1			G4/12000
FVH (80°-90°)	312.1	0.8			G3/500
BL (0°-30°)	2222.5	5.8	B3/2500		
BM (30°-60°)	5785.4	15.1	B4/8500		
BH (60°-80°)	3887.7	10.1	B4/5000		G4/5000
BVH (80°-90°)	223.4	0.6			G2/225
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°	4232.1	4232.1	4232.1	4232.1	4232.1	4232.1	4232.1	4232.1	4232.1	4232.1
2.5°	4204.2	4192.2	4202.2	4202.2	4206.2	4204.2	4218.1	4222.1	4228.1	4240.0
5°	4162.3	4160.3	4178.3	4194.2	4210.1	4224.1	4242.0	4267.9	4271.9	4285.9
7.5°	4148.4	4136.4	4164.3	4184.2	4222.1	4256.0	4303.8	4347.6	4365.6	4371.5
10°	4256.0	4236.0	4262.0	4273.9	4305.8	4339.7	4395.4	4465.2	4485.1	4509.0
12.5°	4439.3	4417.4	4455.2	4473.2	4503.0	4532.9	4570.8	4638.5	4648.5	4692.3
15°	4690.3	4664.4	4688.3	4710.3	4760.1	4788.0	4825.8	4891.6	4891.6	4925.5
17.5°	5031.1	4997.2	5015.1	5023.1	5055.0	5096.8	5160.6	5218.4	5248.2	5236.3
20°	5539.1	5497.3	5497.3	5457.5	5445.5	5479.4	5563.1	5642.8	5674.6	5612.9
22.5°	6302.3	6242.5	6208.6	6073.1	6019.3	6023.3	6107.0	6204.6	6230.5	6121.0
25°	7272.6	7179.0	7133.1	6933.9	6812.3	6706.7	6772.5	6898.0	6933.9	6798.4
27.5°	8243.0	8248.9	8205.1	7966.0	7764.8	7571.5	7537.6	7669.1	7707.0	7553.6
30°	9603.8	9462.4	9378.7	9091.8	8804.8	8533.9	8394.4	8448.2	8458.2	8274.8
32.5°	10777.4	10741.6	10562.2	10311.2	9942.6	9518.2	9285.0	9199.4	9183.4	8922.4
35°	12114.4	12094.5	11905.2	11606.3	11207.8	10618.0	10197.6	9952.5	9932.6	9566.0
37.5°	13473.3	13473.3	13288.0	12961.2	12548.7	11811.5	11171.9	10783.4	10719.6	10241.4
40°	14557.2	14491.4	14525.3	14387.8	13915.6	13132.6	12253.9	11690.0	11604.3	11030.5
42.5°	15172.9	15151.0	15354.2	15507.6	15314.3	14688.7	13445.4	12672.3	12552.7	11899.2
45°	15310.3	15286.4	15649.1	16211.0	16481.9	16224.9	14740.5	13706.4	13560.9	12807.8
47.5°	14993.5	14945.7	15477.7	16364.4	17233.1	17685.4	16143.2	14828.2	14617.0	13692.4
50°	14041.1	13995.3	14800.3	15977.8	17486.2	18677.7	17665.5	16017.7	15694.9	14640.9
52.5°	11970.9	11992.8	13254.1	14872.0	17153.4	19295.3	18976.5	17271.0	16882.4	15611.2
55°	9324.9	9372.7	10922.9	12704.2	15822.4	19201.7	19871.2	18562.1	18175.6	16523.8
57.5°	6676.9	6888.1	8340.6	10104.0	13266.0	17717.3	20066.4	19789.5	19414.9	17520.0
60°	4327.7	4365.6	5859.9	7637.2	10102.0	15079.2	19669.9	20720.0	20427.1	18536.2
62.5°	2773.6	2799.5	3710.0	5341.9	7270.6	11156.0	18335.0	21124.5	21034.8	19207.7
65°	2038.3	2018.4	2492.6	3530.7	4897.6	6880.1	15742.7	20929.2	21106.5	19628.1
67.5°	1701.6	1673.7	1906.8	2444.8	3608.4	3907.3	11648.1	19660.0	20309.5	19580.3
70°	1550.2	1526.3	1667.7	1815.2	2815.4	2616.1	5871.9	17091.6	18091.9	19036.3
72.5°	1313.1	1271.2	1464.5	1611.9	2189.8	2006.4	2426.9	13128.6	14348.0	17292.9
75°	1018.2	990.3	1155.6	1418.7	1645.8	1566.1	1534.2	7972.0	9303.0	13373.6
77.5°	807.0	769.1	920.5	1105.8	1480.4	1181.6	1117.8	3433.1	4752.1	8537.9
80°	607.7	573.8	699.4	874.7	1137.7	890.6	723.3	1400.7	1791.3	4325.7
82.5°	432.4	402.5	488.2	641.6	765.1	799.0	444.3	785.0	882.7	1667.7
85°	277.0	259.0	326.8	402.5	486.2	514.1	271.0	410.5	450.3	687.4
87.5°	151.4	123.5	175.3	187.3	225.2	205.2	129.5	149.4	161.4	249.1
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°
4232.1	0°	4232.1	4232.1	4232.1	4232.1	4232.1	4232.1	4232.1	4232.1	4232.1	4232.1
4240.0	2.5°	4248.0	4254.0	4273.9	4279.9	4293.8	4311.8	4323.7	4335.7	4335.7	4347.6
4303.8	5°	4305.8	4319.7	4361.6	4383.5	4419.4	4455.2	4477.1	4503.0	4519.0	4527.0
4405.4	7.5°	4417.4	4439.3	4499.1	4536.9	4598.7	4648.5	4682.4	4718.2	4726.2	4748.1
4546.9	10°	4568.8	4594.7	4662.4	4734.2	4807.9	4869.7	4901.5	4927.4	4937.4	4941.4
4728.2	12.5°	4742.1	4780.0	4867.7	4955.3	5033.0	5086.8	5094.8	5088.8	5060.9	5037.0
4951.4	15°	4955.3	4989.2	5086.8	5182.5	5258.2	5268.2	5218.4	5186.5	5152.6	5146.6
5200.4	17.5°	5210.4	5228.3	5318.0	5411.6	5417.6	5383.7	5310.0	5280.1	5248.2	5226.3
5525.2	20°	5507.3	5501.3	5565.0	5604.9	5563.1	5459.4	5347.9	5298.1	5266.2	5240.3
5923.7	22.5°	5861.9	5816.1	5808.1	5798.2	5686.6	5469.4	5318.0	5254.2	5204.4	5168.5
6479.6	25°	6378.0	6202.6	6081.1	6013.4	5762.3	5415.6	5222.3	5080.9	4987.2	4925.5
7159.0	27.5°	7023.6	6728.7	6421.8	6256.4	5762.3	5306.0	4991.2	4762.1	4608.6	4544.9
7816.6	30°	7639.2	7330.4	6878.1	6549.3	5748.4	5126.7	4618.6	4299.8	4120.5	4056.7
8378.5	32.5°	8165.3	7828.5	7362.3	6870.1	5714.5	4835.8	4156.3	3803.7	3630.3	3554.6
8934.4	35°	8653.4	8294.8	7848.4	7222.8	5624.8	4409.4	3648.3	3379.3	3186.0	3064.5
9500.2	37.5°	9153.5	8727.1	8308.7	7541.6	5463.4	3911.3	3257.7	3028.6	2801.5	2638.1
10102.0	40°	9697.5	9187.4	8800.9	7730.9	5198.4	3437.1	2954.9	2745.7	2504.6	2331.2
10795.4	42.5°	10333.1	9739.3	9348.8	7828.5	4835.8	3100.3	2757.6	2552.4	2325.2	2183.8
11538.6	45°	10996.6	10347.0	9848.9	7826.5	4431.3	2942.9	2693.9	2490.6	2239.6	2092.1
12301.7	47.5°	11692.0	10982.6	10281.3	7699.0	4080.6	2964.8	2658.0	2357.1	2080.2	1936.7
13072.8	50°	12389.3	11678.0	10699.7	7459.9	3931.2	2917.0	2524.5	2169.8	1843.1	1713.5
13796.1	52.5°	13080.7	12417.2	11060.4	7119.2	3779.8	2739.7	2353.1	1926.7	1745.4	1655.8
14543.2	55°	13776.1	13148.5	11452.9	6623.1	3401.2	2532.5	2066.2	1835.1	1667.7	1586.0
15274.5	57.5°	14473.5	13993.3	11825.5	6126.9	2925.0	2277.4	1908.8	1723.5	1590.0	1520.3
15886.2	60°	15198.8	14959.7	12210.0	5670.6	2454.8	1950.7	1793.2	1633.8	1498.4	1420.7
16474.0	62.5°	15946.0	16023.7	12510.9	5082.9	2022.4	1751.4	1689.6	1526.3	1394.7	1321.0
16960.1	65°	16699.1	17049.8	12708.1	4267.9	1639.8	1562.1	1578.1	1408.7	1275.2	1211.4
17316.8	67.5°	17267.0	17789.0	12652.4	3229.8	1344.9	1382.8	1438.6	1285.2	1159.6	1109.8
17259.0	70°	17330.7	17701.3	12102.4	2211.7	1125.8	1207.5	1283.2	1163.6	1034.1	998.2
16446.1	72.5°	16481.9	16505.8	10570.2	1444.6	952.4	1060.0	1119.8	1040.1	914.6	878.7
14387.8	75°	14256.3	13650.6	7760.8	952.4	797.0	910.6	966.4	910.6	789.0	797.0
10765.5	77.5°	10801.3	9667.6	4712.3	677.4	665.5	765.1	840.8	801.0	697.4	783.1
5413.6	80°	5565.0	5230.3	2102.1	506.1	526.0	611.7	691.4	639.6	551.9	526.0
1209.4	82.5°	1275.2	1482.4	828.9	362.6	380.6	440.3	528.0	480.2	396.5	334.7
504.1	85°	446.3	488.2	366.6	227.1	223.2	275.0	358.6	320.8	269.0	215.2
213.2	87.5°	141.5	185.3	137.5	91.7	95.6	123.5	165.4	151.4	125.5	81.7
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>
4232.1
4347.6
4530.9
4740.2
4931.4
5037.0
5146.6
5228.3
5242.3
5180.5
4949.4
4576.8
4094.6
3592.5
3104.3
2681.9
2365.1
2211.7
2116.0
1956.6
1721.5
1655.8
1578.1
1508.3
1414.7
1319.0
1209.4
1111.8
1000.2
876.7
769.1
689.4
480.2
330.8
227.1
85.7
0.0

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