

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: P953017

Luminaire Tested: **GALN-SB6C-940-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953017
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-SB6C-940-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33784 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

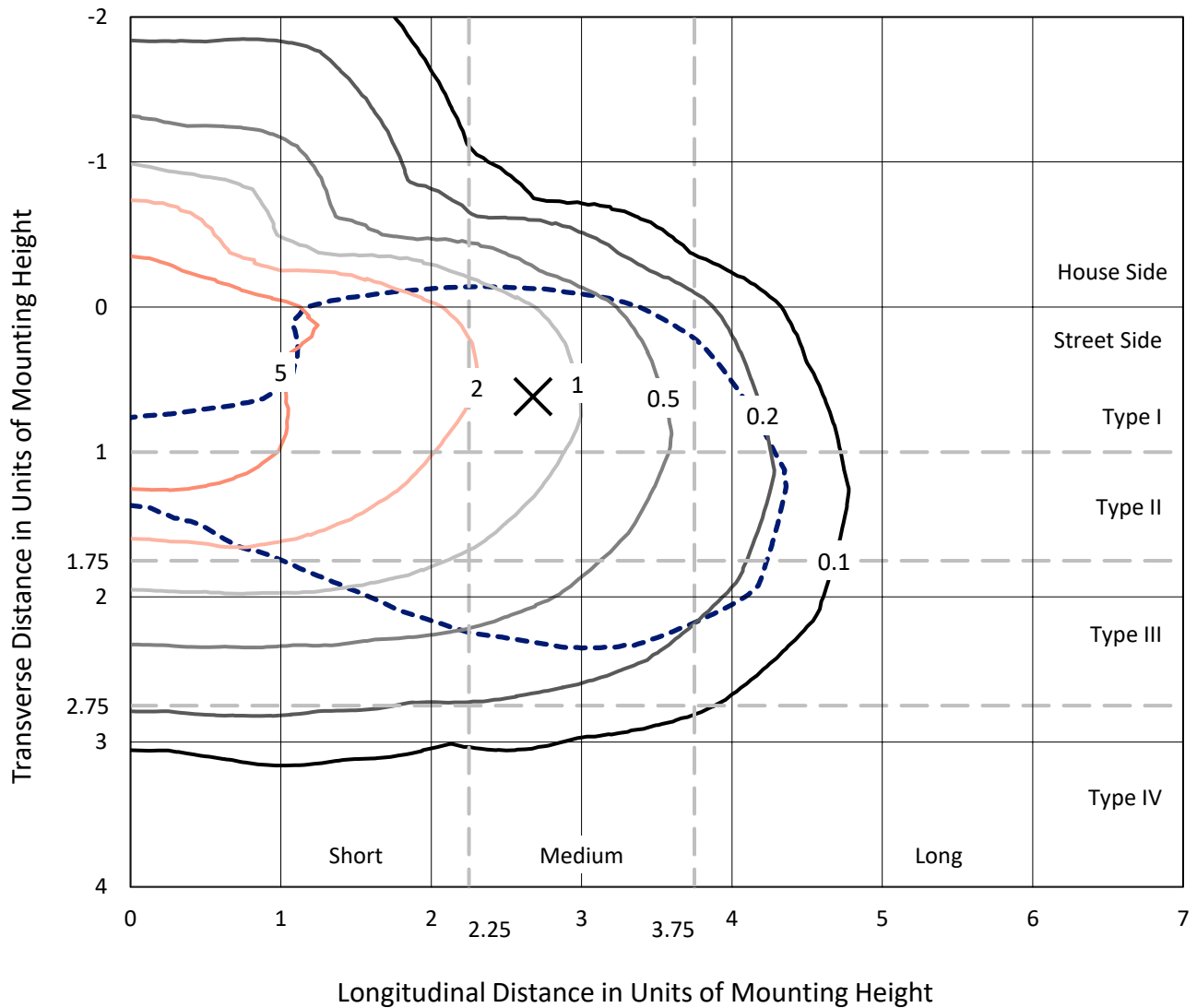
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

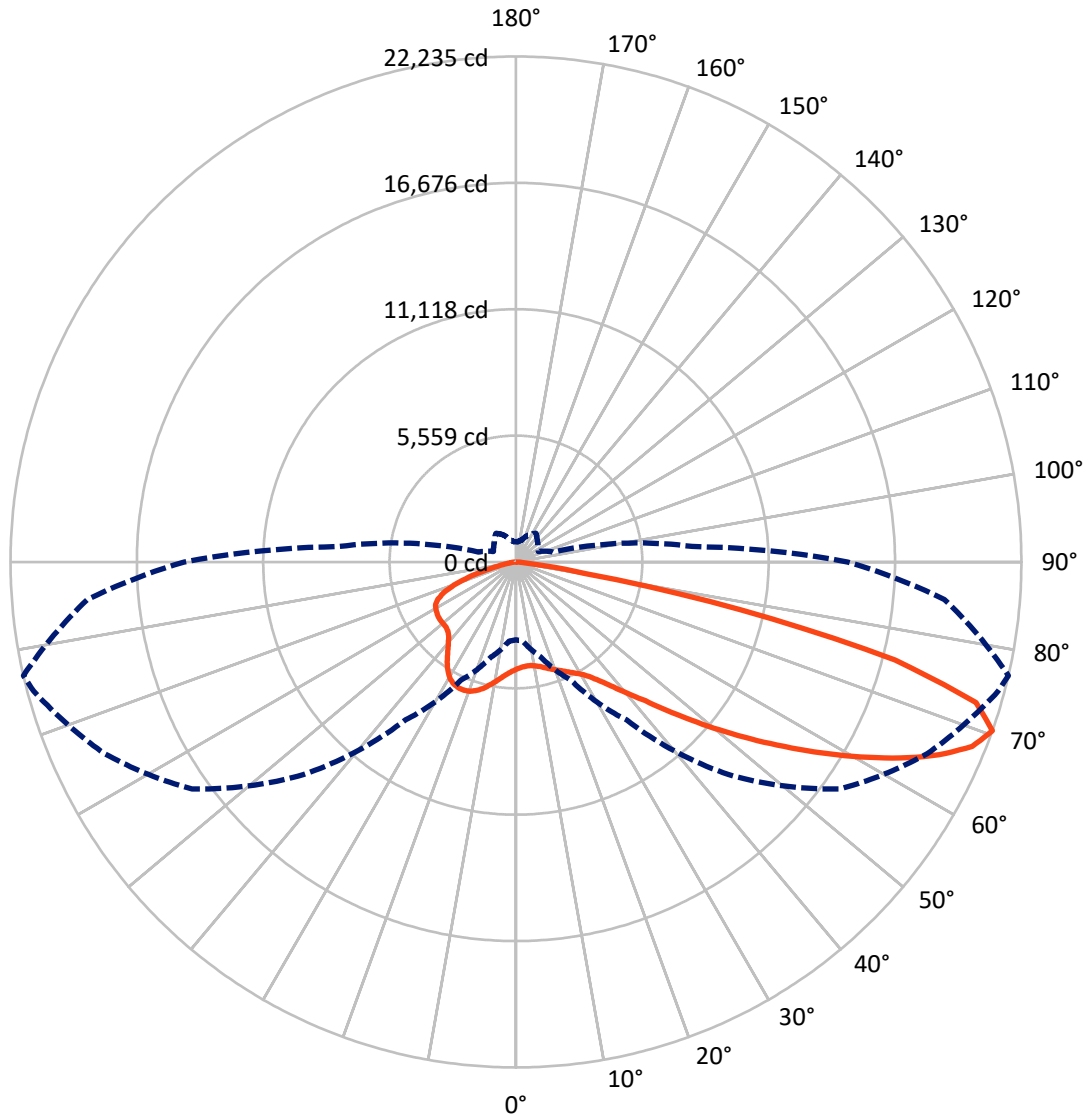
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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	7398.2	0.0	7398.2
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	26385.8	0.0	26385.8
	% Fixture	78.1	0.0	78.1
Total	Lumens	33784.0	0.0	33784.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	449.5	1.3
10°-20°	1297.3	3.8
20°-30°	2218.6	6.6
30°-40°	3567.8	10.6
40°-50°	5570.2	16.5
50°-60°	7440.5	22.0
60°-70°	7930.4	23.5
70°-80°	4881.9	14.5
80°-90°	427.8	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°	33784.0	100.0
0°-180°	33784.0	100.0



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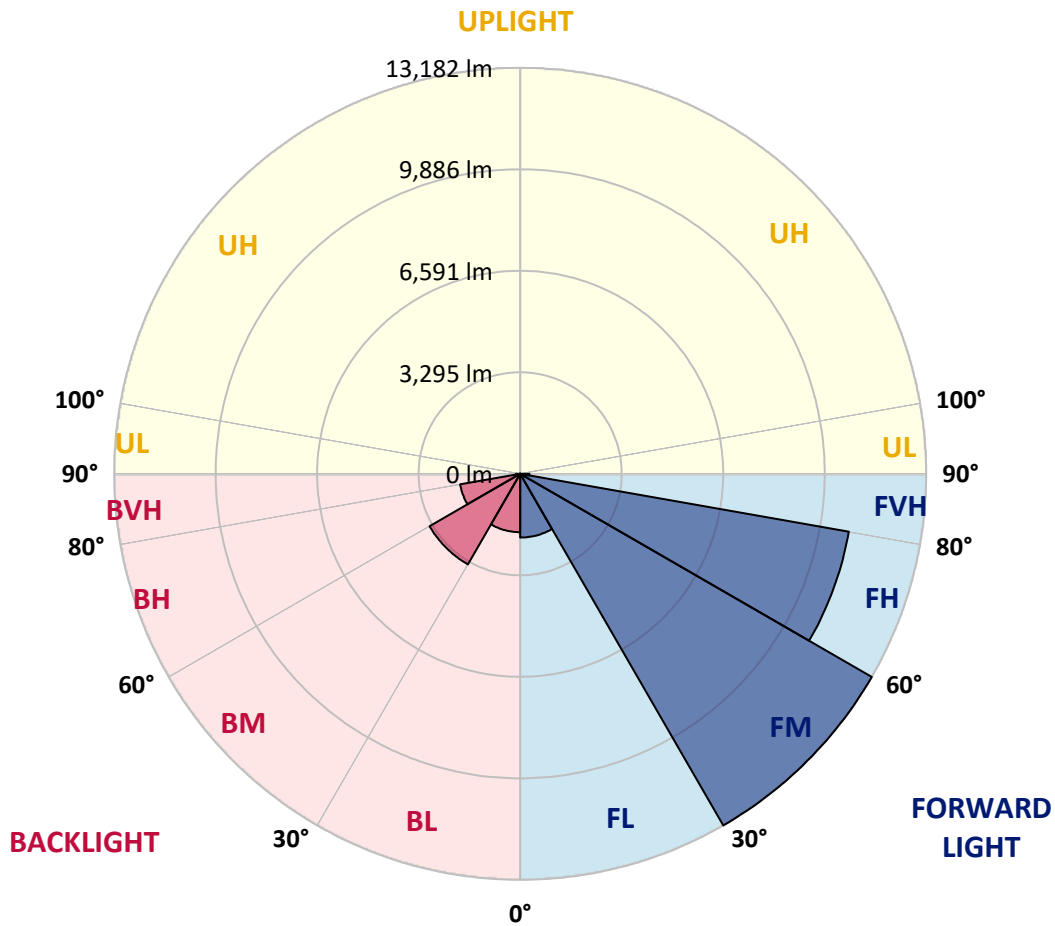
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2069.8	6.1			
FM (30°-60°)	13181.8	39.0			
FH (60°-80°)	10835.1	32.1			G4/12000
FVH (80°-90°)	299.1	0.9			G3/500
BL (0°-30°)	1895.6	5.6	B3/2500		
BM (30°-60°)	3396.7	10.1	B3/5000		
BH (60°-80°)	1977.2	5.9	B3/2500		G3/2500
BVH (80°-90°)	128.7	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°	4713.2	4713.2	4713.2	4713.2	4713.2	4713.2	4713.2	4713.2	4713.2	4713.2
2.5°	4344.6	4342.9	4365.4	4372.3	4413.8	4443.3	4498.6	4557.5	4633.6	4642.2
5°	4093.7	4093.7	4119.7	4147.4	4201.0	4259.9	4344.6	4446.7	4578.2	4599.0
7.5°	3880.9	3894.8	3917.3	3970.9	4033.2	4118.0	4247.7	4393.1	4566.1	4599.0
10°	3709.6	3725.2	3752.9	3796.1	3889.6	4007.2	4176.8	4363.7	4595.5	4647.4
12.5°	3656.0	3671.6	3687.1	3720.0	3806.5	3944.9	4147.4	4377.5	4666.5	4718.4
15°	3780.6	3799.6	3787.5	3778.8	3823.8	3950.1	4161.2	4427.7	4754.7	4829.1
17.5°	4067.8	4074.7	4047.0	3965.7	3958.8	4026.3	4227.0	4496.9	4865.4	4946.8
20°	4531.5	4519.4	4462.3	4301.4	4209.7	4195.8	4339.4	4600.7	4979.6	5066.1
22.5°	5161.3	5147.5	5033.3	4778.9	4574.8	4439.8	4502.1	4735.7	5107.7	5204.6
25°	5946.8	5927.8	5760.0	5413.9	5097.3	4763.4	4723.6	4913.9	5265.1	5355.1
27.5°	6863.9	6848.3	6666.6	6209.8	5753.1	5206.3	4998.7	5123.2	5429.5	5531.6
30°	7850.1	7895.1	7573.3	7081.9	6504.0	5784.2	5368.9	5381.0	5642.3	5734.0
32.5°	9009.4	9087.2	8699.7	8076.8	7287.8	6412.3	5836.1	5740.9	5952.0	6028.2
35°	10158.2	10246.5	9924.7	9236.0	8327.6	7152.8	6324.0	6154.5	6363.8	6446.9
37.5°	11151.4	11269.1	11103.0	10504.3	9440.2	8045.6	6960.8	6640.7	6870.8	6974.6
40°	11935.2	12115.1	12103.0	11729.3	10751.7	9128.8	7768.8	7241.1	7500.6	7613.1
42.5°	12571.9	12727.7	12862.6	12843.6	12120.3	10359.0	8718.7	8021.4	8218.6	8348.4
45°	13011.4	13177.5	13468.2	13781.4	13437.1	11675.7	9807.0	8947.1	9127.0	9322.5
47.5°	13404.2	13592.8	13970.0	14466.5	14554.8	12997.6	10999.1	10025.0	10189.4	10391.8
50°	13438.8	13601.4	14186.2	14890.5	15349.0	14267.6	12279.5	11234.5	11388.4	11604.7
52.5°	12603.1	12859.2	13880.0	14878.3	15714.0	15329.9	13551.2	12492.3	12665.4	12924.9
55°	9782.8	10158.2	12982.0	14414.6	15584.3	16016.8	14760.7	13829.8	14051.3	14322.9
57.5°	8426.3	8590.6	10305.3	13570.3	14992.5	16195.1	15781.5	15181.1	15537.6	15835.2
60°	7573.3	7710.0	8723.9	12257.0	14213.9	15913.0	16570.5	16440.7	17056.7	17411.4
62.5°	6659.7	6789.5	7711.7	10234.4	13217.3	15444.1	17068.8	17603.5	18613.9	19001.5
65°	5753.1	5863.8	6747.9	8599.3	11950.8	14975.2	17326.6	18608.7	20055.2	20456.6
67.5°	4742.6	4834.3	5670.0	7254.9	10410.9	14333.3	17454.7	19399.5	21309.6	21654.0
70°	3422.4	3493.4	4356.7	5737.5	8478.2	13229.4	17402.8	19960.1	21960.2	22235.3
72.5°	1617.8	1681.8	2695.7	3725.2	5988.4	11080.5	16352.5	19515.4	21299.3	21162.6
75°	863.4	918.8	1548.6	2043.4	3162.9	7595.8	13381.7	16811.0	17885.5	17221.1
77.5°	584.8	628.1	958.6	1226.7	1444.8	3605.8	8601.0	11639.3	11198.1	10101.1
80°	463.7	508.7	785.5	830.5	699.0	1302.9	3553.9	5388.0	3870.5	3095.4
82.5°	356.4	406.6	661.0	602.1	380.7	534.6	1034.7	1704.3	991.4	754.4
85°	218.0	271.6	519.1	384.1	214.5	244.0	351.2	474.1	302.8	252.6
87.5°	110.7	155.7	263.0	140.1	96.9	57.1	93.4	93.4	79.6	69.2
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°
4713.2	0°	4713.2	4713.2	4713.2	4713.2	4713.2	4713.2	4713.2	4713.2	4713.2	4713.2
4689.0	2.5°	4730.5	4765.1	4823.9	4879.3	4922.5	4964.1	5005.6	5028.1	5035.0	5062.7
4714.9	5°	4785.8	4849.9	4964.1	5071.3	5138.8	5180.3	5209.8	5227.1	5230.5	5239.2
4785.8	7.5°	4887.9	4990.0	5149.2	5256.5	5306.6	5303.2	5291.1	5247.8	5230.5	5214.9
4889.7	10°	5031.5	5166.5	5362.0	5436.4	5405.3	5322.2	5214.9	5088.6	5029.8	4972.7
5031.5	12.5°	5209.8	5381.0	5573.1	5569.6	5415.7	5202.8	4953.7	4759.9	4637.0	4548.8
5206.3	15°	5426.0	5623.3	5770.4	5652.7	5315.3	4932.9	4567.8	4315.2	4204.5	4107.6
5382.8	17.5°	5649.2	5860.3	5927.8	5626.7	5062.7	4533.2	4119.7	3920.7	3811.7	3759.8
5573.1	20°	5867.2	6076.6	6021.2	5477.9	4678.6	4079.9	3711.4	3602.4	3579.9	3592.0
5758.2	22.5°	6097.4	6284.2	6040.3	5190.7	4188.9	3616.2	3413.8	3417.2	3467.4	3503.7
5952.0	25°	6332.7	6459.0	5990.1	4775.5	3662.9	3275.3	3225.2	3280.5	3379.2	3450.1
6170.0	27.5°	6559.3	6614.7	5881.1	4261.6	3211.3	3031.4	3040.0	3154.2	3303.0	3401.7
6434.8	30°	6815.4	6753.1	5671.7	3683.7	2898.2	2822.0	2894.7	3027.9	3176.7	3265.0
6768.7	32.5°	7104.4	6872.5	5339.5	3149.0	2676.7	2654.2	2773.6	2860.1	2925.8	2951.8
7211.6	35°	7464.3	7040.4	4913.9	2773.6	2477.7	2531.3	2645.5	2602.3	2576.3	2562.5
7806.8	37.5°	7931.4	7267.0	4415.6	2529.6	2316.8	2443.1	2489.8	2354.9	2252.8	2202.6
8528.4	40°	8493.8	7599.2	3936.3	2341.0	2214.7	2367.0	2285.6	2123.0	1993.2	1922.3
9339.8	42.5°	9118.4	7947.0	3533.2	2199.1	2157.6	2304.7	2135.1	1941.3	1732.0	1709.5
10307.0	45°	9774.1	8305.2	3258.0	2090.1	2129.9	2251.0	2048.6	1735.4	1586.6	1678.3
11277.7	47.5°	10429.9	8633.9	3091.9	2008.8	2116.1	2190.5	1972.5	1621.2	1515.7	1648.9
12317.6	50°	11160.1	8928.0	3017.5	1950.0	2100.5	2166.3	1858.3	1591.8	1441.3	1529.5
13393.8	52.5°	11885.0	9156.4	2962.2	1891.2	2078.0	2147.2	1802.9	1557.2	1351.3	1356.5
14476.9	55°	12608.3	9305.2	2901.6	1813.3	2027.8	2105.7	1797.7	1519.2	1283.8	1259.6
15622.3	57.5°	13380.0	9390.0	2827.2	1726.8	1941.3	2000.2	1792.5	1489.7	1263.1	1223.3
16793.7	60°	14165.5	9514.6	2730.3	1621.2	1825.4	1873.9	1780.4	1479.4	1251.0	1183.5
17897.6	62.5°	14869.7	9557.9	2614.4	1520.9	1676.6	1749.3	1754.5	1470.7	1218.1	1102.2
18814.6	65°	15331.7	9371.0	2412.0	1406.7	1515.7	1621.2	1704.3	1441.3	1159.3	1043.3
19268.0	67.5°	15312.6	8838.1	2095.3	1259.6	1360.0	1479.4	1631.6	1391.1	1088.3	970.7
18925.4	70°	14599.8	7786.1	1693.9	1088.3	1188.7	1327.1	1538.2	1316.7	1003.5	891.1
16828.3	72.5°	12521.8	6093.9	1230.2	887.6	989.7	1169.6	1417.1	1226.7	917.0	820.1
12437.0	75°	8945.3	3856.7	834.0	681.7	770.0	991.4	1266.5	1121.2	837.4	823.6
6228.9	77.5°	4569.6	1842.7	551.9	498.3	536.4	782.1	1064.1	1001.8	849.5	680.0
1771.8	80°	1486.3	680.0	347.8	339.1	356.4	520.8	823.6	821.9	643.6	462.0
429.1	82.5°	474.1	292.4	226.7	218.0	209.4	327.0	574.4	650.6	434.3	292.4
154.0	85°	188.6	174.8	133.2	122.8	88.2	154.0	301.1	432.6	323.6	211.1
39.8	87.5°	69.2	69.2	36.3	26.0	19.0	51.9	81.3	129.8	185.1	109.0
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>
4713.2
5078.3
5253.0
5218.4
4955.4
4528.0
4097.2
3775.4
3586.8
3512.4
3469.1
3425.9
3285.7
2965.6
2576.3
2214.7
1927.5
1732.0
1726.8
1711.2
1595.3
1392.8
1276.9
1228.5
1188.7
1102.2
1043.3
975.9
901.5
814.9
776.9
605.6
408.3
290.7
216.3
107.3
0.0

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