

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: P942092

Luminaire Tested: **GALN-SB5D-940-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942092
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5D-940-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36924 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

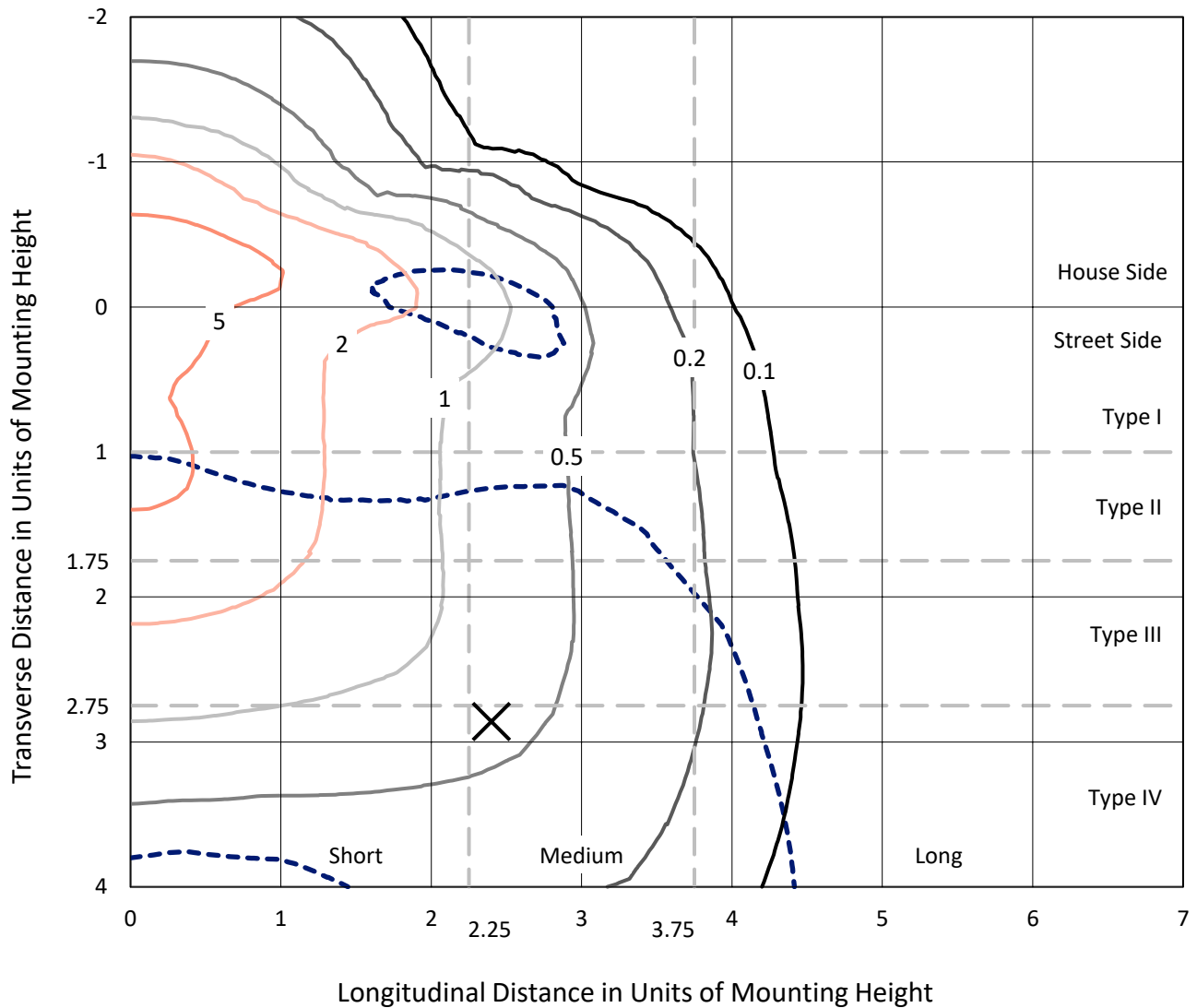
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

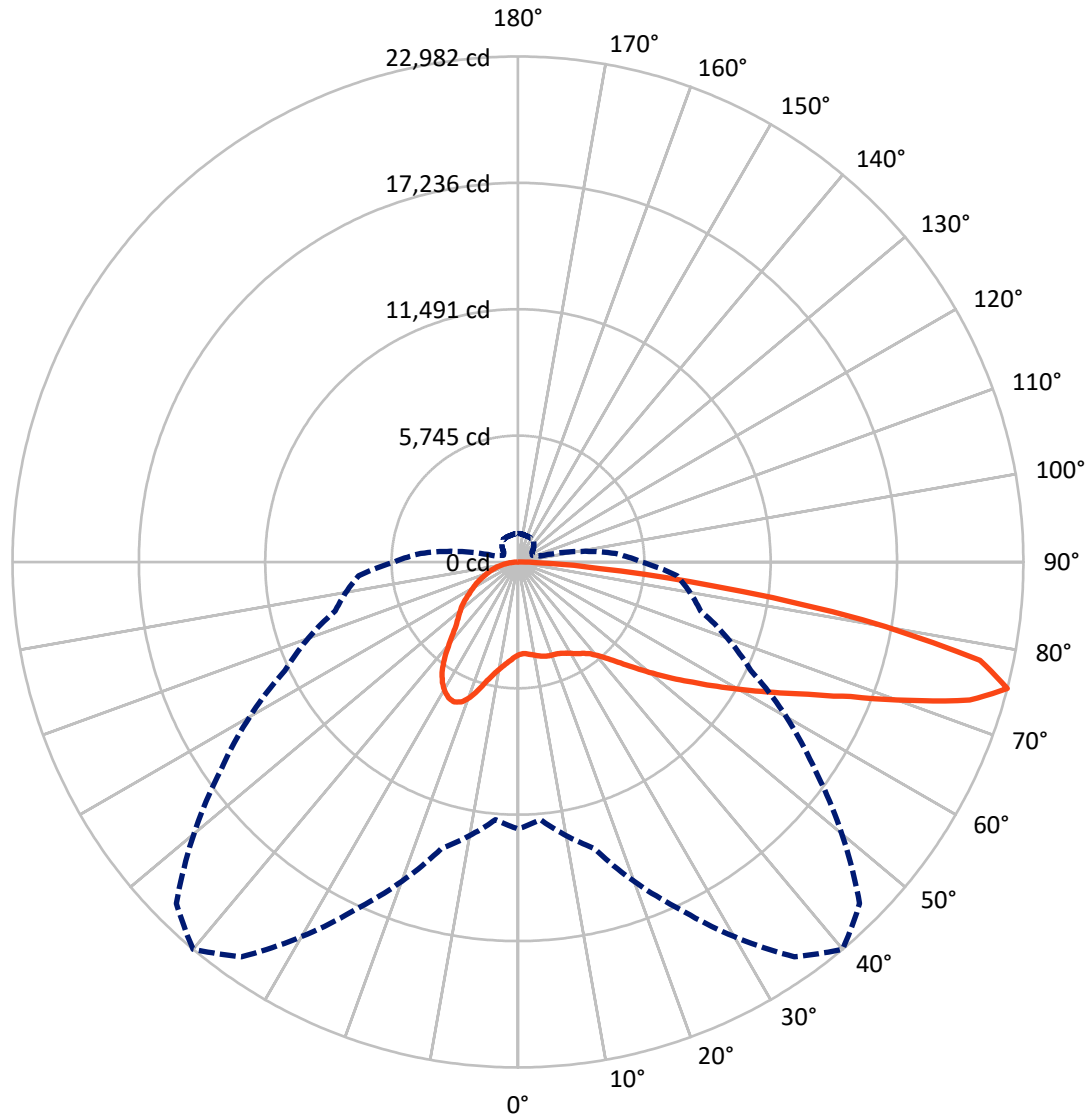
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11440.3	0.0	11440.3
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	25483.7	0.0	25483.7
	% Fixture	69.0	0.0	69.0
Total	Lumens	36924.0	0.0	36924.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.5	1.1
10°-20°	1415.1	3.8
20°-30°	2583.8	7.0
30°-40°	3664.5	9.9
40°-50°	4948.2	13.4
50°-60°	6656.6	18.0
60°-70°	8448.8	22.9
70°-80°	7667.8	20.8
80°-90°	1117.7	3.0
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°	36924.0	100.0
0°-180°	36924.0	100.0

Coefficient of Utilization



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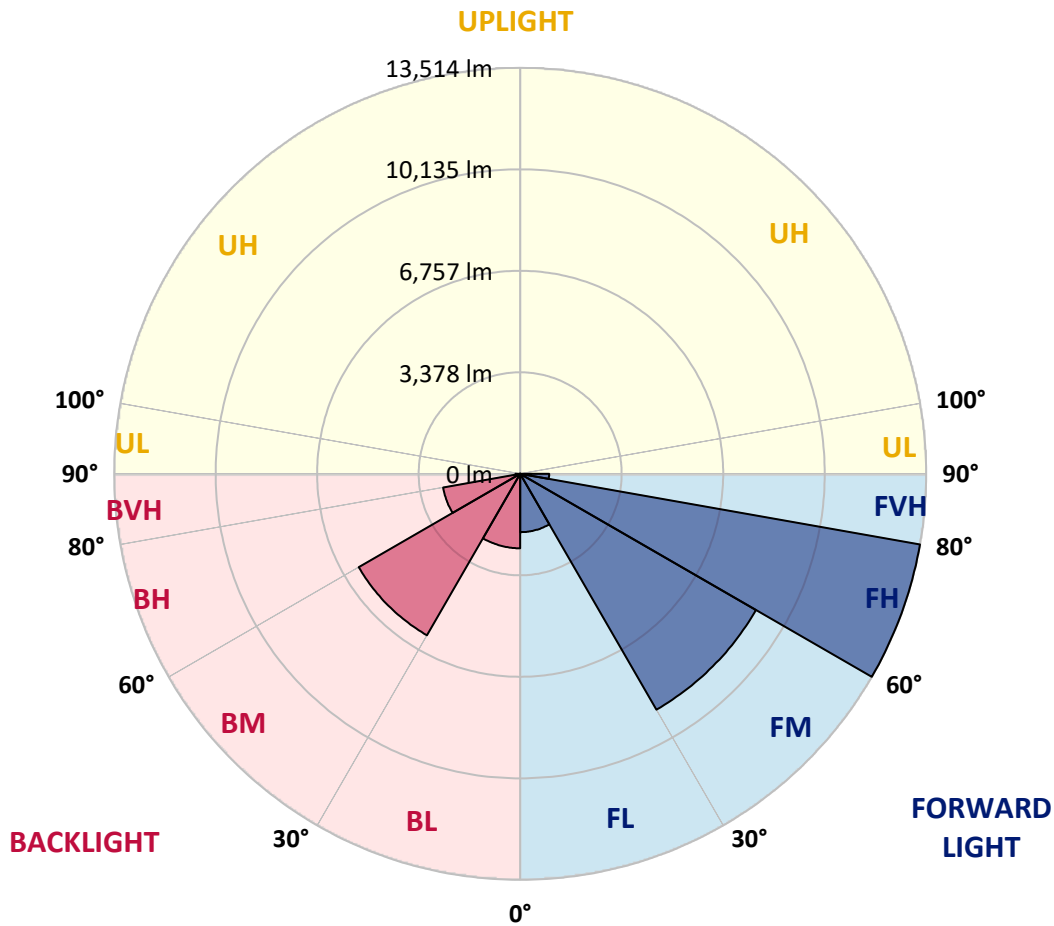
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1942.2	5.3			
FM (30°-60°)	9064.0	24.5			
FH (60°-80°)	13513.6	36.6			G5
FVH (80°-90°)	963.8	2.6			G5
BL (0°-30°)	2478.1	6.7	B3/2500		
BM (30°-60°)	6205.3	16.8	B4/8500		
BH (60°-80°)	2603.0	7.0	B4/5000		G4/5000
BVH (80°-90°)	153.9	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	4222.3	4222.3	4222.3	4222.3	4222.3	4222.3	4222.3	4222.3	4222.3	4222.3
2.5°	4157.7	4181.2	4175.3	4167.5	4167.5	4169.4	4167.5	4181.2	4194.9	4208.6
5°	4200.8	4224.3	4212.5	4202.7	4194.9	4192.9	4187.1	4185.1	4192.9	4210.6
7.5°	4285.0	4308.5	4290.9	4273.2	4257.6	4249.7	4241.9	4230.1	4224.3	4234.1
10°	4379.0	4402.5	4380.9	4349.6	4324.1	4314.4	4306.5	4294.8	4286.9	4292.8
12.5°	4473.0	4496.5	4467.1	4424.0	4390.7	4384.9	4375.1	4371.1	4369.2	4367.2
15°	4561.1	4580.7	4543.5	4492.6	4457.3	4447.5	4437.7	4443.6	4453.4	4465.2
17.5°	4629.7	4649.2	4594.4	4527.8	4494.5	4490.6	4484.7	4504.3	4531.7	4561.1
20°	4692.3	4711.9	4641.4	4551.3	4512.2	4512.2	4514.1	4555.2	4594.4	4637.5
22.5°	4780.5	4796.1	4709.9	4586.6	4529.8	4533.7	4549.4	4590.5	4639.4	4698.2
25°	4911.7	4923.4	4817.7	4653.2	4588.5	4600.3	4614.0	4633.6	4680.6	4749.1
27.5°	5123.2	5133.0	4993.9	4770.7	4672.7	4692.3	4711.9	4698.2	4719.7	4778.5
30°	5420.8	5426.7	5250.5	4954.7	4815.7	4825.5	4829.4	4772.6	4731.5	4778.5
32.5°	5773.4	5771.4	5561.9	5178.0	4978.3	4968.5	4935.2	4823.5	4727.6	4768.7
35°	6319.8	6298.2	6028.0	5491.4	5162.3	5101.6	5023.3	4880.3	4747.2	4758.9
37.5°	7224.5	7157.9	6783.9	6004.5	5436.5	5281.8	5166.3	4972.4	4790.2	4755.0
40°	8244.9	8160.6	7749.4	6707.5	5847.8	5599.1	5413.0	5103.6	4860.7	4772.6
42.5°	9455.2	9335.7	8893.1	7535.9	6368.7	6008.4	5728.3	5270.1	4964.5	4829.4
45°	10941.6	10782.9	10156.3	8470.1	7024.8	6545.0	6170.9	5522.7	5123.2	4939.1
47.5°	12443.7	12482.8	11591.8	9539.4	7812.1	7206.9	6725.1	5902.6	5354.3	5115.3
50°	14039.8	14067.2	13019.4	10724.2	8705.1	7955.0	7347.9	6327.6	5675.4	5366.0
52.5°	15285.3	15289.2	14315.9	11963.9	9635.3	8777.5	8019.6	6813.3	6047.5	5698.9
55°	16064.7	16055.0	15224.6	13136.9	10704.6	9641.2	8763.8	7365.5	6501.9	6090.6
57.5°	16630.7	16601.3	15851.3	14145.5	11844.4	10661.5	9605.9	7992.2	7038.5	6556.7
60°	16846.1	16828.5	16276.3	15017.0	13042.9	11789.6	10577.3	8693.3	7647.5	7107.0
62.5°	16928.4	16961.7	16693.4	15861.1	14325.7	13039.0	11644.6	9531.5	8333.0	7729.8
65°	17218.2	17279.0	17224.1	16965.6	15774.9	14501.9	13060.6	10528.4	9081.1	8397.6
67.5°	17792.1	17852.8	17876.3	18287.5	17545.3	16325.2	14827.0	11770.0	9956.5	9090.9
70°	17778.3	17760.7	18175.9	19339.2	19762.2	18849.6	17208.5	13297.5	11000.3	9666.7
72.5°	16182.3	16041.2	17022.4	19327.4	21607.0	21485.6	20116.7	15267.7	11901.2	9737.2
75°	12140.1	11764.1	13497.3	17418.0	21914.5	22981.8	21965.4	16489.7	11687.7	8603.2
77.5°	5191.7	4813.7	6856.4	12894.1	19613.4	21483.6	20269.4	14386.4	9329.8	5689.1
80°	1359.1	1357.2	2072.0	5845.8	13338.7	15865.0	13918.3	9290.6	5330.8	2032.8
82.5°	562.1	548.4	761.8	2273.7	6517.6	8902.9	7265.7	4144.0	1925.1	550.3
85°	209.5	207.6	370.1	785.3	2299.2	3672.0	2657.5	1059.5	479.8	268.3
87.5°	58.8	56.8	80.3	272.2	560.1	849.9	454.3	174.3	135.1	105.8
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°
4222.3	0°	4222.3	4222.3	4222.3	4222.3	4222.3	4222.3	4222.3	4222.3	4222.3	4222.3
4230.1	2.5°	4236.0	4245.8	4263.4	4277.1	4294.8	4314.4	4341.8	4359.4	4377.0	4388.8
4239.9	5°	4253.6	4275.2	4320.2	4365.3	4418.1	4467.1	4523.9	4565.0	4598.3	4608.1
4275.2	7.5°	4292.8	4328.1	4404.4	4480.8	4565.0	4645.3	4727.6	4798.1	4854.9	4876.4
4337.9	10°	4361.4	4408.4	4516.1	4623.8	4735.4	4858.8	4964.5	5066.4	5146.7	5180.0
4412.3	12.5°	4447.5	4506.3	4647.3	4796.1	4950.8	5121.2	5258.3	5383.6	5483.5	5528.6
4516.1	15°	4559.2	4635.5	4815.7	5015.5	5242.6	5479.6	5653.9	5792.9	5904.6	5959.4
4623.8	17.5°	4680.6	4782.4	5009.6	5311.2	5636.3	5947.7	6151.3	6253.2	6368.7	6421.6
4723.7	20°	4798.1	4923.4	5248.5	5687.2	6120.0	6451.0	6615.5	6642.9	6650.7	6656.6
4817.7	22.5°	4919.5	5087.9	5548.1	6161.1	6625.3	6854.4	6877.9	6760.4	6595.9	6519.5
4909.7	25°	5052.7	5275.9	5939.8	6684.0	7060.0	7087.4	6907.3	6621.3	6310.0	6167.0
4984.1	27.5°	5181.9	5493.3	6409.8	7183.4	7373.4	7132.5	6744.7	6339.3	5963.3	5812.5
5037.0	30°	5311.2	5742.0	6928.8	7620.1	7516.3	7020.9	6488.2	6035.8	5657.8	5499.2
5084.0	32.5°	5442.4	6031.9	7526.1	7935.4	7490.9	6783.9	6169.0	5695.0	5362.1	5195.6
5125.1	35°	5591.2	6388.3	8092.1	8107.8	7320.5	6435.3	5747.9	5287.7	4997.8	4864.7
5174.1	37.5°	5785.1	6840.7	8591.5	8150.9	7022.8	5924.2	5225.0	4805.9	4567.0	4506.3
5246.6	40°	6026.0	7385.1	8973.4	8082.3	6582.2	5303.3	4653.2	4318.3	4183.1	4196.8
5344.5	42.5°	6339.3	7994.2	9241.7	7906.1	5969.2	4662.9	4151.8	4003.0	4067.6	4122.4
5491.4	45°	6746.7	8626.7	9408.1	7606.4	5275.9	4120.5	3856.1	3891.3	3940.3	3946.2
5728.3	47.5°	7267.6	9267.1	9517.8	7154.0	4568.9	3738.6	3668.1	3675.9	3666.1	3625.0
6082.8	50°	7917.8	9889.9	9615.7	6554.8	3967.7	3499.7	3405.7	3378.2	3243.1	3109.9
6554.8	52.5°	8658.1	10461.8	9656.9	5810.6	3499.7	3299.9	3147.1	2974.8	2722.2	2681.0
7148.2	55°	9480.6	10990.5	9551.1	4896.0	3106.0	3043.4	2812.3	2604.7	2577.3	2542.0
7929.6	57.5°	10463.7	11560.4	9335.7	3875.7	2702.6	2743.7	2518.5	2542.0	2493.0	2438.2
8934.2	60°	11538.9	12149.9	8957.7	2945.4	2285.5	2369.7	2442.1	2440.2	2426.5	2381.4
9993.7	62.5°	12506.3	12537.7	8213.5	2256.1	1919.2	2079.8	2277.6	2275.7	2263.9	2238.5
11100.2	65°	13082.1	12478.9	6971.9	1776.3	1617.6	1840.9	2054.4	2070.0	2072.0	2070.0
11932.5	67.5°	12980.3	11791.5	5268.1	1414.0	1368.9	1598.1	1833.1	1854.6	1870.3	1874.2
12038.3	70°	11828.7	10281.6	3435.0	1128.0	1147.6	1384.6	1623.5	1645.1	1658.8	1674.4
10446.1	72.5°	9220.1	7559.4	1966.2	912.6	953.7	1200.5	1415.9	1441.4	1449.2	1478.6
7269.6	75°	5618.6	4445.6	1061.5	718.7	783.4	1026.2	1210.3	1239.7	1253.4	1288.6
3570.2	77.5°	2671.3	1925.1	605.1	560.1	630.6	838.2	1022.3	1055.6	1018.4	1038.0
985.1	80°	902.8	714.8	381.9	426.9	481.8	654.1	818.6	851.9	773.6	769.7
327.1	82.5°	315.3	289.8	242.8	284.0	311.4	468.1	618.9	661.9	575.8	573.8
146.9	85°	123.4	117.5	135.1	154.7	186.0	287.9	407.3	428.9	354.5	285.9
43.1	87.5°	25.5	27.4	33.3	35.3	56.8	99.9	146.9	180.2	143.0	121.4
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>
4222.3
4380.9
4612.0
4878.4
5181.9
5528.6
5955.5
6419.6
6672.3
6541.1
6188.5
5830.2
5516.8
5217.2
4894.0
4549.4
4243.9
4173.3
3985.3
3656.3
3127.6
2694.8
2547.9
2428.4
2365.7
2228.7
2070.0
1878.1
1682.3
1490.3
1292.5
1022.3
761.8
546.4
282.0
111.6
0.0

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