

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: P951944

Luminaire Tested: **GALN-SB5D-940-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951944
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-940-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37748 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

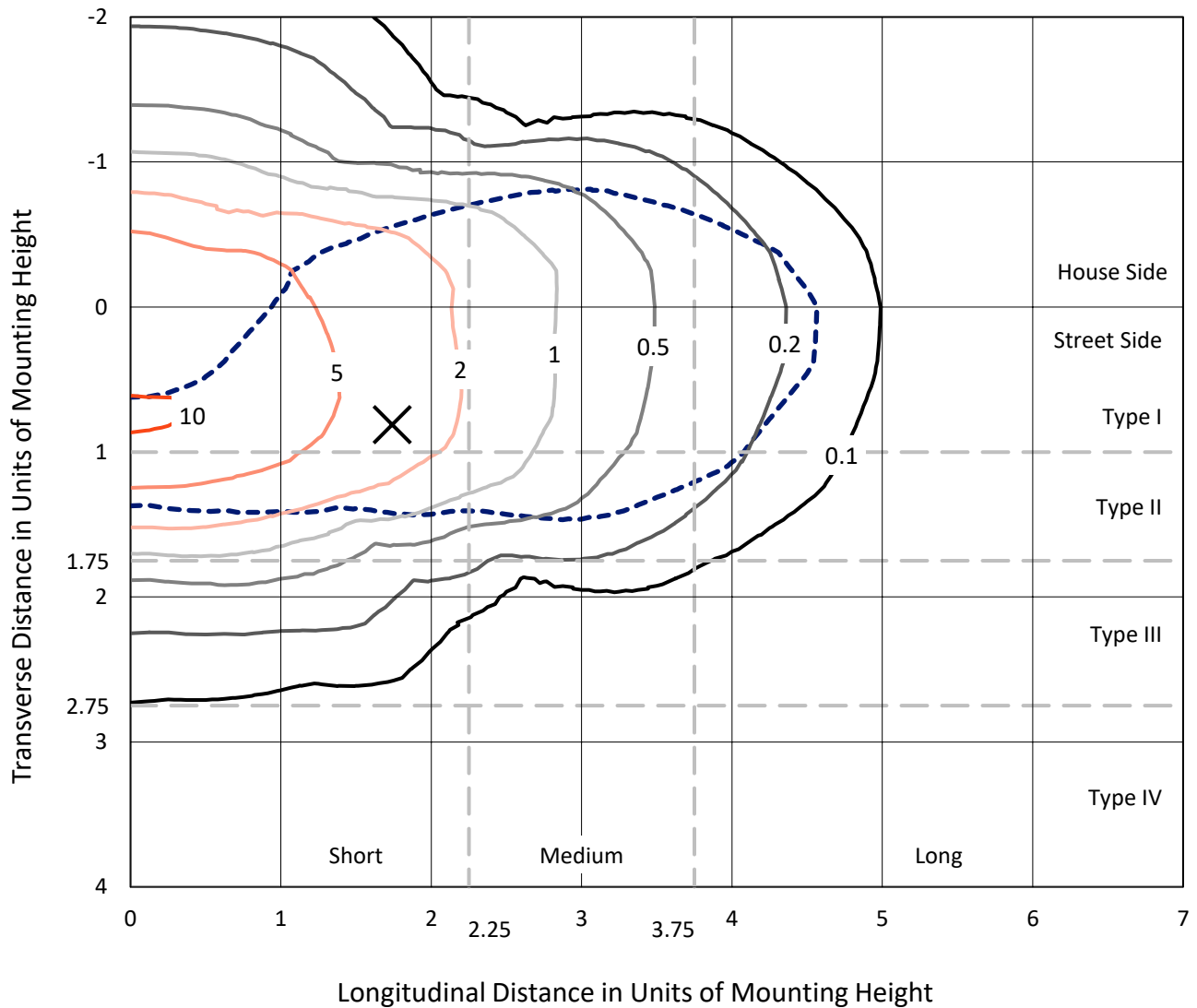
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

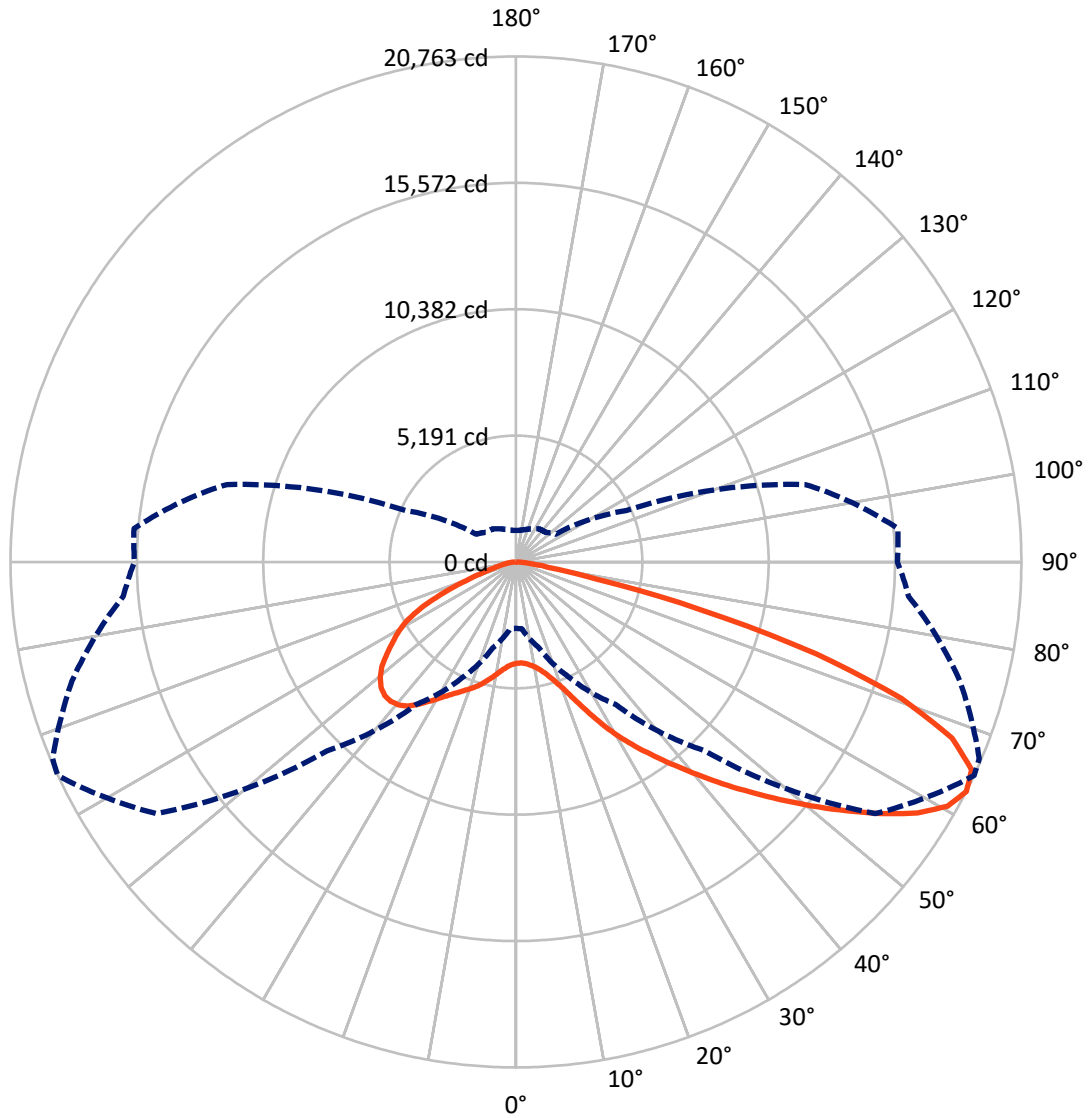
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 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	11911.6	0.0	11911.6
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	25836.4	0.0	25836.4
	% Fixture	68.4	0.0	68.4
Total	Lumens	37748.0	0.0	37748.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	414.7	1.1
10°-20°	1406.3	3.7
20°-30°	2851.5	7.6
30°-40°	4934.4	13.1
40°-50°	7467.4	19.8
50°-60°	8755.0	23.2
60°-70°	7340.0	19.4
70°-80°	4052.3	10.7
80°-90°	526.4	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°	37748.0	100.0
0°-180°	37748.0	100.0



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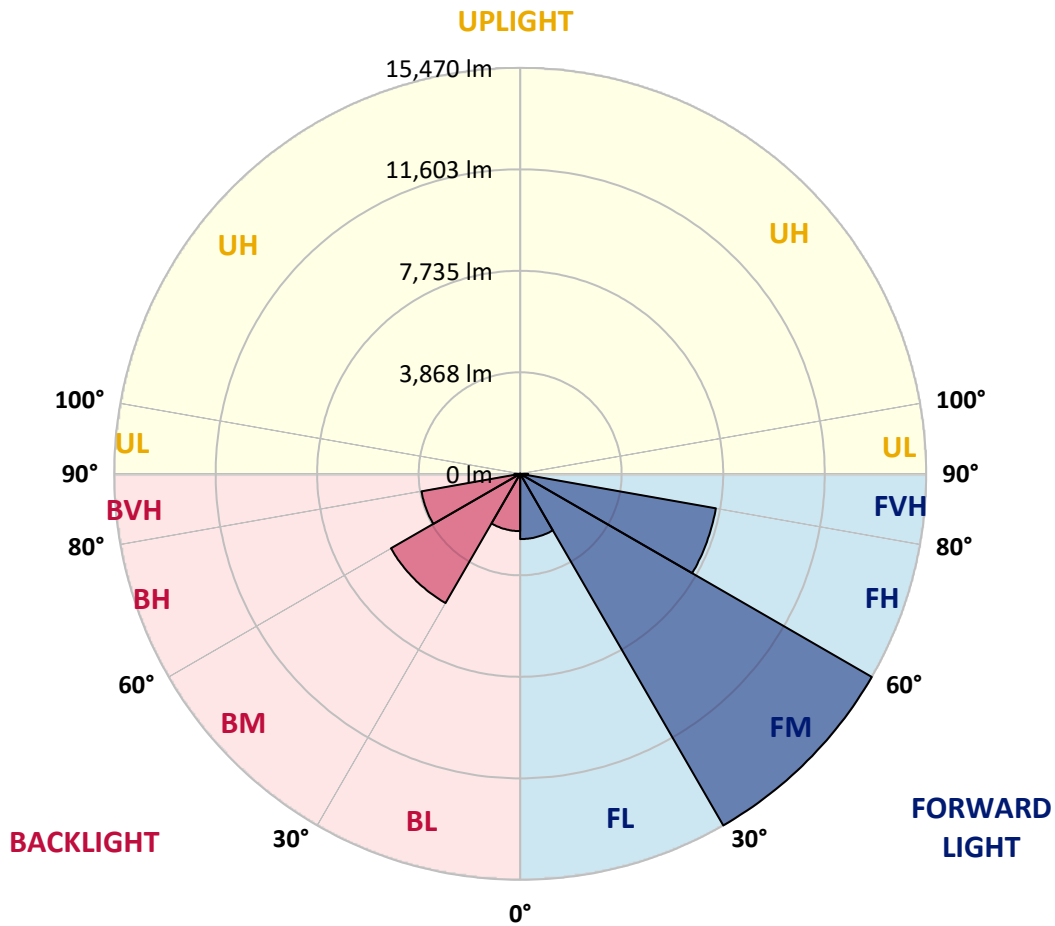
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2488.1	6.6			
FM	(30°-60°)	15470.4	41.0			
FH	(60°-80°)	7571.1	20.1			G4/12000
FVH	(80°-90°)	306.8	0.8			G3/500
BL	(0°-30°)	2184.4	5.8	B3/2500		
BM	(30°-60°)	5686.4	15.1	B4/8500		
BH	(60°-80°)	3821.1	10.1	B4/5000		G4/5000
BVH	(80°-90°)	219.6	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°	4159.7	4159.7	4159.7	4159.7	4159.7	4159.7	4159.7	4159.7	4159.7	4159.7
2.5°	4132.2	4120.5	4130.3	4130.3	4134.2	4132.2	4146.0	4149.9	4155.7	4167.5
5°	4091.1	4089.2	4106.8	4122.5	4138.1	4151.8	4169.5	4194.9	4198.8	4212.5
7.5°	4077.4	4065.7	4093.1	4112.7	4149.9	4183.2	4230.2	4273.3	4290.9	4296.8
10°	4183.2	4163.6	4189.0	4200.8	4232.1	4265.4	4320.3	4388.8	4408.4	4431.9
12.5°	4363.3	4341.8	4379.0	4396.6	4426.0	4455.4	4492.6	4559.2	4569.0	4612.1
15°	4610.1	4584.6	4608.1	4629.7	4678.6	4706.1	4743.3	4807.9	4807.9	4841.2
17.5°	4945.0	4911.7	4929.3	4937.2	4968.5	5009.6	5072.3	5129.1	5158.5	5146.7
20°	5444.4	5403.3	5403.3	5364.1	5352.3	5385.6	5467.9	5546.2	5577.6	5516.8
22.5°	6194.5	6135.7	6102.4	5969.2	5916.4	5920.3	6002.5	6098.5	6124.0	6016.2
25°	7148.2	7056.2	7011.1	6815.3	6695.8	6592.0	6656.6	6780.0	6815.3	6682.1
27.5°	8101.9	8107.8	8064.7	7829.7	7631.9	7442.0	7408.7	7537.9	7575.1	7424.3
30°	9439.5	9300.5	9218.2	8936.2	8654.2	8387.9	8250.8	8303.7	8313.5	8133.3
32.5°	10593.0	10557.8	10381.5	10134.8	9772.5	9355.3	9126.2	9042.0	9026.3	8769.8
35°	11907.1	11887.6	11701.5	11407.7	11016.1	10436.4	10023.1	9782.3	9762.7	9402.3
37.5°	13242.8	13242.8	13060.6	12739.5	12334.1	11609.5	10980.8	10598.9	10536.3	10066.2
40°	14308.2	14243.5	14276.8	14141.7	13677.5	12907.9	12044.2	11490.0	11405.8	10841.8
42.5°	14913.3	14891.8	15091.5	15242.3	15052.4	14437.4	13215.4	12455.5	12338.0	11695.6
45°	15048.4	15024.9	15381.4	15933.6	16200.0	15947.3	14488.3	13471.9	13328.9	12588.7
47.5°	14737.0	14690.0	15212.9	16084.4	16938.3	17382.9	15867.0	14574.5	14366.9	13458.2
50°	13800.9	13755.9	14547.1	15704.5	17187.0	18358.1	17363.3	15743.7	15426.4	14390.4
52.5°	11766.1	11787.7	13027.4	14617.6	16860.0	18965.3	18651.9	16975.5	16593.6	15344.2
55°	9165.4	9212.4	10736.0	12486.8	15551.7	18873.2	19531.2	18244.6	17864.6	16241.1
57.5°	6562.6	6770.2	8197.9	9931.1	13039.1	17414.2	19723.2	19450.9	19082.8	17220.3
60°	4253.7	4290.9	5759.7	7506.6	9929.1	14821.3	19333.4	20365.5	20077.6	18219.1
62.5°	2726.1	2751.6	3646.6	5250.5	7146.2	10965.1	18021.3	20763.1	20674.9	18879.1
65°	2003.5	1983.9	2450.0	3470.3	4813.8	6762.4	15473.4	20571.2	20745.5	19292.3
67.5°	1672.5	1645.1	1874.2	2403.0	3546.7	3840.4	11448.9	19323.6	19962.1	19245.3
70°	1523.6	1500.1	1639.2	1784.1	2767.2	2571.4	5771.4	16799.3	17782.4	18710.7
72.5°	1290.6	1249.5	1439.4	1584.4	2152.3	1972.1	2385.3	12904.0	14102.5	16997.1
75°	1000.7	973.3	1135.9	1394.4	1617.6	1539.3	1508.0	7835.6	9143.8	13144.9
77.5°	793.2	755.9	904.8	1086.9	1455.1	1161.3	1098.7	3374.3	4670.8	8391.8
80°	597.3	564.0	687.4	859.7	1118.3	875.4	710.9	1376.8	1760.6	4251.7
82.5°	425.0	395.6	479.8	630.6	752.0	785.3	436.7	771.6	867.6	1639.2
85°	272.2	254.6	321.2	395.6	477.9	505.3	266.3	403.4	442.6	675.7
87.5°	148.8	121.4	172.3	184.1	221.3	201.7	127.3	146.9	158.6	244.8
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°
4159.7	0°	4159.7	4159.7	4159.7	4159.7	4159.7	4159.7	4159.7	4159.7	4159.7	4159.7
4167.5	2.5°	4175.3	4181.2	4200.8	4206.7	4220.4	4238.0	4249.8	4261.5	4261.5	4273.3
4230.2	5°	4232.1	4245.8	4287.0	4308.5	4343.8	4379.0	4400.6	4426.0	4441.7	4449.5
4330.0	7.5°	4341.8	4363.3	4422.1	4459.3	4520.0	4569.0	4602.3	4637.5	4645.4	4666.9
4469.1	10°	4490.6	4516.1	4582.7	4653.2	4725.6	4786.4	4817.7	4843.2	4852.9	4856.9
4647.3	12.5°	4661.0	4698.2	4784.4	4870.6	4946.9	4999.8	5007.7	5001.8	4974.4	4950.9
4866.7	15°	4870.6	4903.9	4999.8	5093.8	5168.2	5178.0	5129.1	5097.7	5064.5	5058.6
5111.5	17.5°	5121.2	5138.9	5227.0	5319.0	5324.9	5291.6	5219.2	5189.8	5158.5	5136.9
5430.7	20°	5413.0	5407.2	5469.8	5509.0	5467.9	5366.0	5256.4	5207.4	5176.1	5150.6
5822.4	22.5°	5761.6	5716.6	5708.8	5699.0	5589.3	5375.8	5227.0	5164.3	5115.4	5080.1
6368.8	25°	6268.9	6096.5	5977.1	5910.5	5663.7	5323.0	5133.0	4993.9	4901.9	4841.2
7036.6	27.5°	6903.4	6613.6	6312.0	6149.4	5663.7	5215.2	4905.8	4680.6	4529.8	4467.1
7682.8	30°	7508.5	7205.0	6760.4	6437.3	5650.0	5039.0	4539.6	4226.3	4050.0	3987.3
8235.1	32.5°	8025.6	7694.6	7236.3	6752.6	5616.7	4753.1	4085.2	3738.6	3568.2	3493.8
8781.5	35°	8505.4	8152.9	7714.2	7099.2	5528.6	4334.0	3585.9	3321.5	3131.5	3012.0
9337.7	37.5°	8996.9	8577.8	8166.6	7412.6	5370.0	3844.4	3202.0	2976.8	2753.5	2592.9
9929.1	40°	9531.6	9030.2	8650.3	7598.6	5109.5	3378.3	2904.3	2698.7	2461.7	2291.3
10610.7	42.5°	10156.3	9572.7	9188.9	7694.6	4753.1	3047.3	2710.4	2508.7	2285.5	2146.4
11341.2	45°	10808.5	10170.0	9680.4	7692.6	4355.5	2892.6	2647.8	2448.0	2201.3	2056.3
12091.2	47.5°	11492.0	10794.8	10105.4	7567.3	4010.8	2914.1	2612.5	2316.8	2044.6	1903.6
12849.1	50°	12177.4	11478.2	10516.7	7332.3	3863.9	2867.1	2481.3	2132.7	1811.5	1684.2
13560.0	52.5°	12857.0	12204.8	10871.1	6997.4	3715.1	2692.8	2312.9	1893.8	1715.6	1627.4
14294.4	55°	13540.5	12923.6	11256.9	6509.8	3343.0	2489.1	2030.9	1803.7	1639.2	1558.9
15013.2	57.5°	14225.9	13753.9	11623.2	6022.1	2874.9	2238.5	1876.2	1694.0	1562.8	1494.3
15614.4	60°	14938.8	14703.8	12001.1	5573.6	2412.8	1917.3	1762.6	1605.9	1472.7	1396.3
16192.1	62.5°	15673.2	15749.5	12296.9	4995.9	1987.8	1721.4	1660.7	1500.1	1370.9	1298.4
16670.0	65°	16413.4	16758.1	12490.7	4194.9	1611.8	1535.4	1551.1	1384.6	1253.4	1190.7
17020.6	67.5°	16971.6	17484.7	12435.9	3174.6	1321.9	1359.1	1414.0	1263.2	1139.8	1090.8
16963.8	70°	17034.3	17398.5	11895.4	2173.8	1106.5	1186.8	1261.2	1143.7	1016.4	981.2
16164.7	72.5°	16200.0	16223.5	10389.4	1419.8	936.1	1041.9	1100.6	1022.3	898.9	863.7
14141.7	75°	14012.4	13417.1	7628.0	936.1	783.4	895.0	949.8	895.0	775.5	783.4
10581.3	77.5°	10616.5	9502.2	4631.6	665.9	654.1	752.0	826.4	787.3	685.4	769.7
5321.0	80°	5469.8	5140.8	2066.1	497.4	517.0	601.2	679.6	628.7	542.5	517.0
1188.8	82.5°	1253.4	1457.1	814.7	356.4	374.1	432.8	519.0	472.0	389.7	329.0
495.5	85°	438.7	479.8	360.3	223.3	219.3	270.3	352.5	315.3	264.4	211.5
209.6	87.5°	139.0	182.1	135.1	90.1	94.0	121.4	162.5	148.8	123.4	80.3
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>
4159.7
4273.3
4453.4
4659.1
4847.1
4950.9
5058.6
5138.9
5152.6
5091.9
4864.7
4498.5
4024.5
3531.0
3051.2
2636.0
2324.6
2173.8
2079.8
1923.2
1692.1
1627.4
1551.1
1482.5
1390.5
1296.5
1188.8
1092.8
983.1
861.7
755.9
677.6
472.0
325.1
223.3
84.2
0.0

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