

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: P951967

Luminaire Tested: **GALN-SB5D-950-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951967
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-SB5D-950-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36710 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

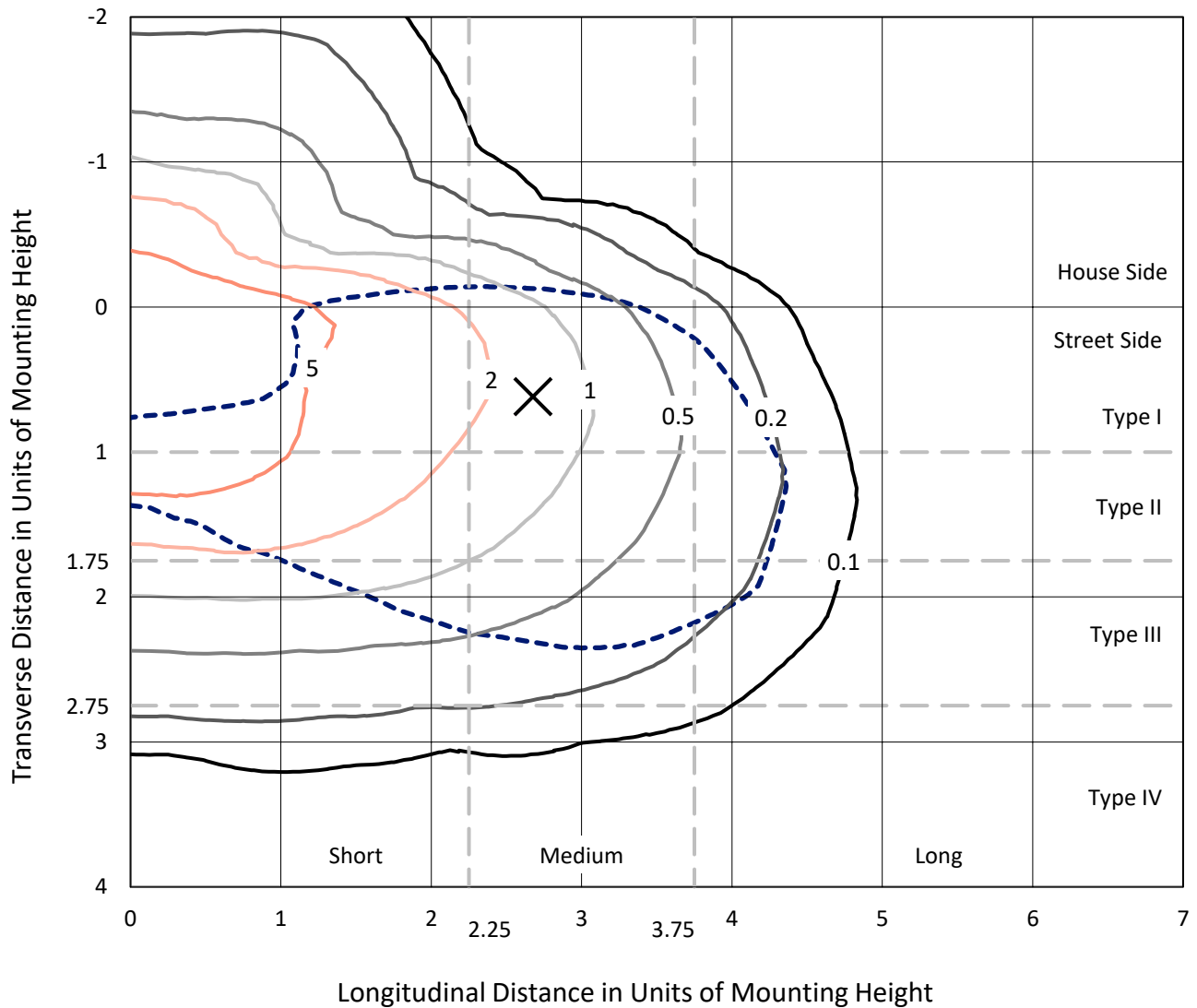
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

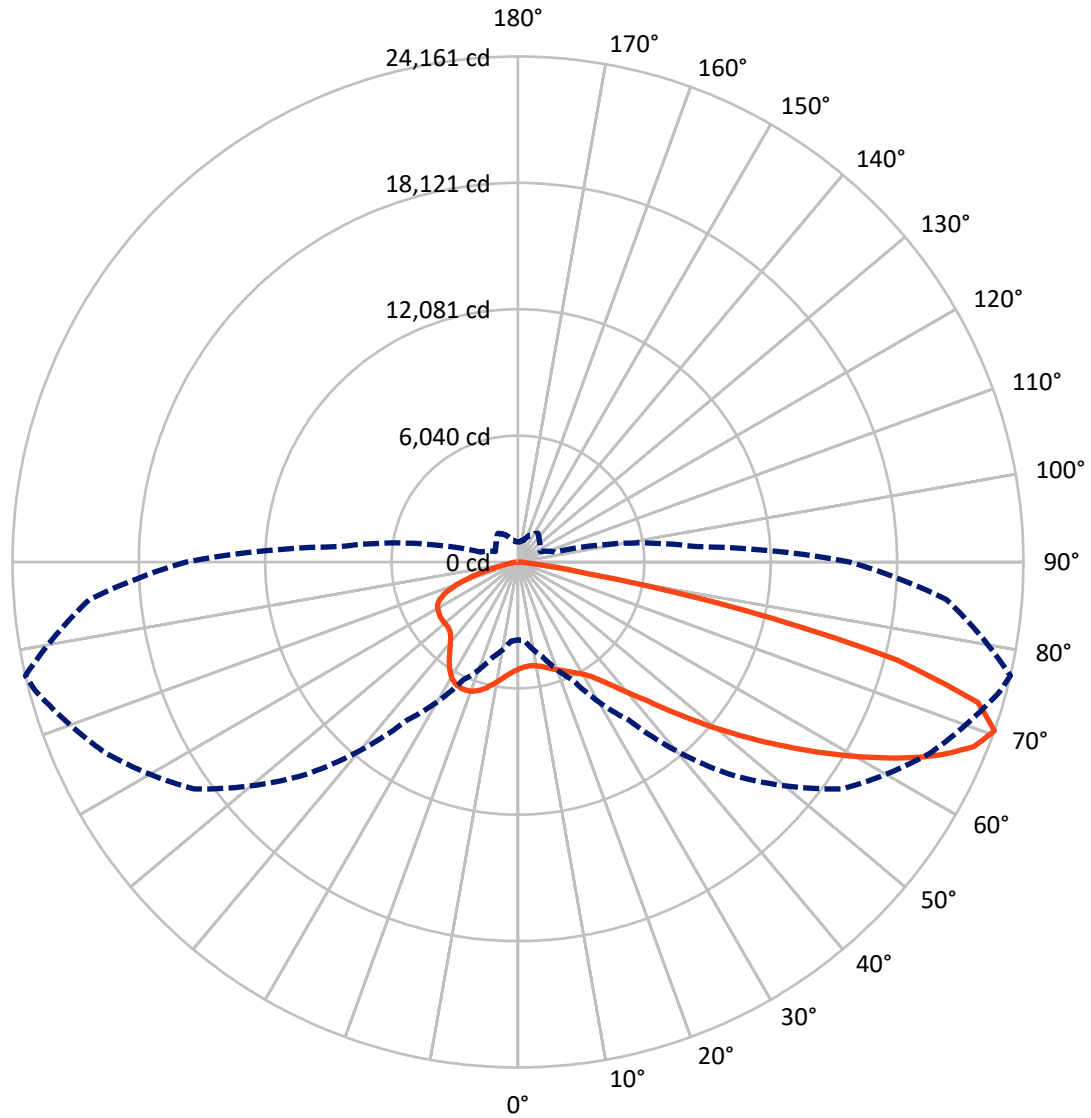
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 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	8038.9	0.0	8038.9
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	28671.1	0.0	28671.1
	% Fixture	78.1	0.0	78.1
Total	Lumens	36710.0	0.0	36710.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	488.4	1.3
10°-20°	1409.7	3.8
20°-30°	2410.8	6.6
30°-40°	3876.8	10.6
40°-50°	6052.6	16.5
50°-60°	8084.9	22.0
60°-70°	8617.2	23.5
70°-80°	5304.7	14.5
80°-90°	464.8	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°	36710.0	100.0
0°-180°	36710.0	100.0



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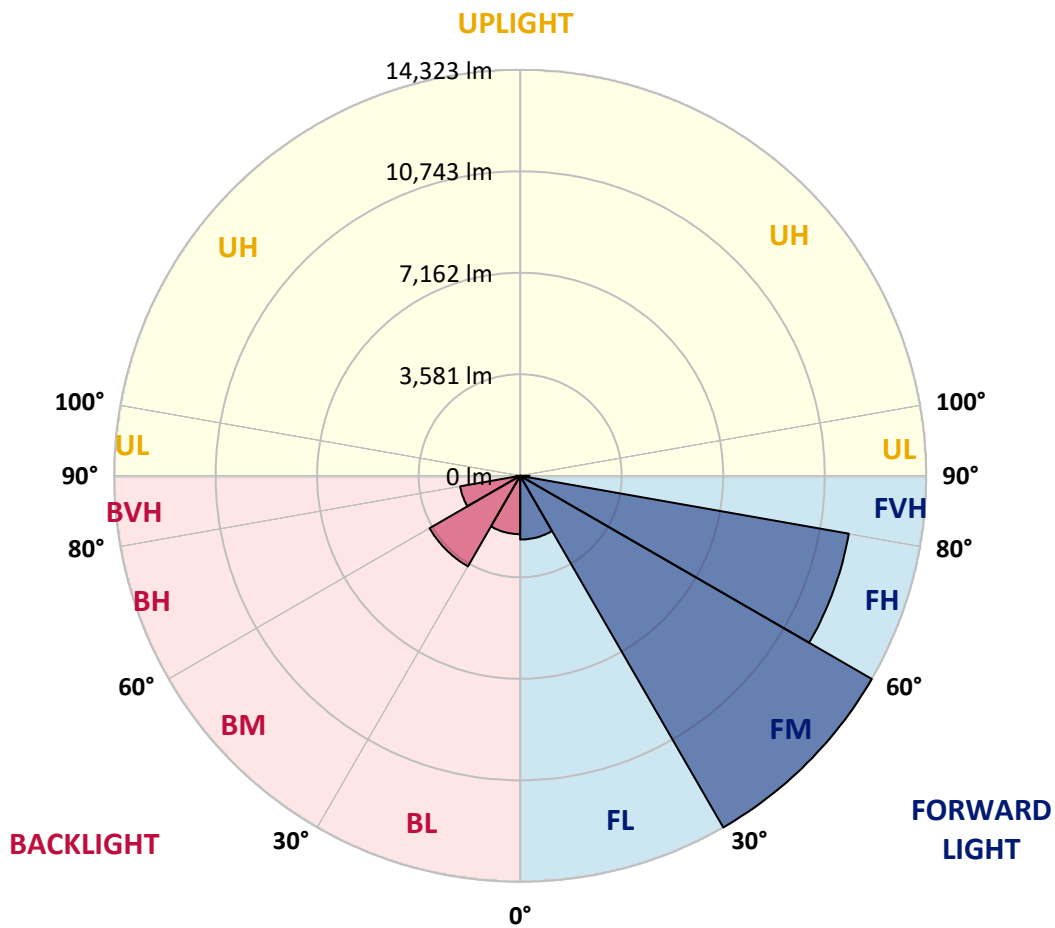
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2249.1	6.1			
FM (30°-60°)	14323.5	39.0			
FH (60°-80°)	11773.5	32.1			G4/12000
FVH (80°-90°)	325.0	0.9			G3/500
BL (0°-30°)	2059.8	5.6	B3/2500		
BM (30°-60°)	3690.8	10.1	B3/5000		
BH (60°-80°)	2148.5	5.9	B3/2500		G3/2500
BVH (80°-90°)	139.8	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°	5121.4	5121.4	5121.4	5121.4	5121.4	5121.4	5121.4	5121.4	5121.4	5121.4
2.5°	4720.9	4719.0	4743.5	4751.0	4796.1	4828.1	4888.2	4952.2	5034.9	5044.3
5°	4448.3	4448.3	4476.5	4506.6	4564.9	4628.8	4720.9	4831.8	4974.7	4997.3
7.5°	4217.1	4232.1	4256.5	4314.8	4382.5	4474.6	4615.6	4773.6	4961.6	4997.3
10°	4030.9	4047.8	4077.9	4124.9	4226.5	4354.3	4538.6	4741.6	4993.5	5049.9
12.5°	3972.6	3989.6	4006.5	4042.2	4136.2	4286.6	4506.6	4756.6	5070.6	5127.0
15°	4108.0	4128.7	4115.5	4106.1	4155.0	4292.3	4521.6	4811.2	5166.5	5247.3
17.5°	4420.1	4427.6	4397.5	4309.2	4301.7	4375.0	4593.1	4886.4	5286.8	5375.2
20°	4924.0	4910.8	4848.8	4673.9	4574.3	4559.2	4715.3	4999.2	5410.9	5504.9
22.5°	5608.3	5593.3	5469.2	5192.8	4971.0	4824.3	4892.0	5145.8	5550.0	5655.3
25°	6461.9	6441.2	6258.8	5882.8	5538.8	5175.9	5132.7	5339.5	5721.1	5818.9
27.5°	7458.3	7441.4	7244.0	6747.7	6251.3	5657.2	5431.6	5567.0	5899.7	6010.7
30°	8530.0	8578.9	8229.2	7695.2	7067.3	6285.2	5833.9	5847.1	6131.0	6230.6
32.5°	9789.7	9874.3	9453.1	8776.3	7919.0	6967.6	6341.6	6238.2	6467.5	6550.3
35°	11038.0	11133.9	10784.2	10035.9	9048.9	7772.3	6871.7	6687.5	6915.0	7005.2
37.5°	12117.2	12245.1	12064.6	11414.1	10257.8	8742.4	7563.6	7215.8	7465.9	7578.7
40°	12968.9	13164.4	13151.3	12745.2	11682.9	9919.4	8441.6	7868.2	8150.2	8272.4
42.5°	13660.8	13830.0	13976.6	13955.9	13170.1	11256.1	9473.8	8716.1	8930.5	9071.5
45°	14138.3	14318.8	14634.7	14975.0	14600.8	12686.9	10656.4	9722.0	9917.5	10130.0
47.5°	14565.1	14770.0	15179.9	15719.5	15815.4	14123.3	11951.8	10893.3	11071.9	11291.9
50°	14602.7	14779.4	15414.9	16180.1	16678.3	15503.3	13343.0	12207.5	12374.8	12609.8
52.5°	13694.6	13972.9	15082.1	16166.9	17075.0	16657.6	14724.9	13574.3	13762.3	14044.3
55°	10630.1	11038.0	14106.4	15663.1	16934.0	17404.0	16039.1	15027.6	15268.3	15563.4
57.5°	9156.1	9334.7	11197.8	14745.6	16291.0	17597.7	17148.4	16496.0	16883.3	17206.6
60°	8229.2	8377.7	9479.4	13318.6	15445.0	17291.2	18005.7	17864.7	18534.0	18919.4
62.5°	7236.5	7377.5	8379.6	11120.8	14362.0	16781.7	18547.1	19128.1	20226.1	20647.2
65°	6251.3	6371.6	7332.4	9344.1	12985.8	16272.2	18827.3	20220.4	21792.2	22228.4
67.5°	5153.3	5253.0	6161.1	7883.2	11312.5	15574.7	18966.4	21079.6	23155.3	23529.4
70°	3718.8	3795.9	4734.1	6234.4	9212.5	14375.2	18910.0	21688.8	23862.2	24161.1
72.5°	1757.9	1827.5	2929.2	4047.8	6507.0	12040.1	17768.8	21205.6	23144.0	22995.4
75°	938.2	998.3	1682.7	2220.4	3436.8	8253.6	14540.7	18267.0	19434.5	18712.6
77.5°	635.5	682.5	1041.6	1333.0	1569.9	3918.1	9346.0	12647.4	12168.0	10976.0
80°	503.9	552.7	853.6	902.4	759.6	1415.7	3861.7	5854.6	4205.8	3363.5
82.5°	387.3	441.8	718.2	654.3	413.6	580.9	1124.3	1851.9	1077.3	819.7
85°	236.9	295.2	564.0	417.4	233.1	265.1	381.7	515.1	329.0	274.5
87.5°	120.3	169.2	285.8	152.3	105.3	62.0	101.5	101.5	86.5	75.2
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°
5121.4	0°	5121.4	5121.4	5121.4	5121.4	5121.4	5121.4	5121.4	5121.4	5121.4	5121.4
5095.1	2.5°	5140.2	5177.8	5241.7	5301.9	5348.9	5394.0	5439.1	5463.6	5471.1	5501.2
5123.3	5°	5200.3	5269.9	5394.0	5510.6	5583.9	5629.0	5661.0	5679.8	5683.5	5692.9
5200.3	7.5°	5311.3	5422.2	5595.2	5711.7	5766.3	5762.5	5749.3	5702.3	5683.5	5666.6
5313.1	10°	5467.3	5614.0	5826.4	5907.3	5873.4	5783.2	5666.6	5529.4	5465.4	5403.4
5467.3	12.5°	5661.0	5847.1	6055.8	6052.0	5884.7	5653.4	5382.7	5172.1	5038.7	4942.8
5657.2	15°	5896.0	6110.3	6270.1	6142.3	5775.7	5360.2	4963.5	4689.0	4568.6	4463.3
5849.0	17.5°	6138.5	6367.9	6441.2	6114.1	5501.2	4925.8	4476.5	4260.3	4141.9	4085.4
6055.8	20°	6375.4	6602.9	6542.7	5952.4	5083.8	4433.3	4032.8	3914.4	3889.9	3903.1
6257.0	22.5°	6625.5	6828.5	6563.4	5640.3	4551.7	3929.4	3709.4	3713.2	3767.7	3807.2
6467.5	25°	6881.1	7018.4	6508.9	5189.1	3980.2	3559.0	3504.5	3564.7	3671.8	3748.9
6704.4	27.5°	7127.4	7187.6	6390.4	4630.7	3489.5	3293.9	3303.3	3427.4	3589.1	3696.3
6992.1	30°	7405.7	7338.0	6163.0	4002.7	3149.2	3066.4	3145.4	3290.2	3451.9	3547.7
7354.9	32.5°	7719.7	7467.7	5802.0	3421.8	2908.5	2884.1	3013.8	3107.8	3179.2	3207.4
7836.2	35°	8110.7	7650.1	5339.5	3013.8	2692.3	2750.6	2874.7	2827.7	2799.5	2784.4
8483.0	37.5°	8618.4	7896.4	4798.0	2748.7	2517.4	2654.7	2705.5	2558.8	2447.9	2393.4
9267.0	40°	9229.4	8257.4	4277.2	2543.8	2406.5	2572.0	2483.6	2306.9	2165.9	2088.8
10148.8	42.5°	9908.1	8635.3	3839.2	2389.6	2344.5	2504.3	2320.0	2109.5	1882.0	1857.5
11199.7	45°	10620.7	9024.5	3540.2	2271.2	2314.4	2446.0	2226.0	1885.7	1724.0	1823.7
12254.5	47.5°	11333.2	9381.7	3359.7	2182.8	2299.4	2380.2	2143.3	1761.6	1647.0	1791.7
13384.4	50°	12126.6	9701.3	3278.9	2118.9	2282.4	2353.9	2019.2	1729.7	1566.1	1662.0
14553.8	52.5°	12914.4	9949.5	3218.7	2054.9	2258.0	2333.2	1959.1	1692.1	1468.4	1474.0
15730.8	55°	13700.3	10111.2	3152.9	1970.3	2203.5	2288.1	1953.4	1650.7	1395.0	1368.7
16975.4	57.5°	14538.8	10203.3	3072.1	1876.3	2109.5	2173.4	1947.8	1618.8	1372.5	1329.2
18248.2	60°	15392.3	10338.6	2966.8	1761.6	1983.5	2036.1	1934.6	1607.5	1359.3	1286.0
19447.7	62.5°	16157.5	10385.6	2840.8	1652.6	1821.8	1900.8	1906.4	1598.1	1323.6	1197.6
20444.2	65°	16659.5	10182.6	2620.9	1528.5	1647.0	1761.6	1851.9	1566.1	1259.7	1133.7
20936.7	67.5°	16638.8	9603.5	2276.8	1368.7	1477.8	1607.5	1772.9	1511.6	1182.6	1054.7
20564.5	70°	15864.2	8460.4	1840.6	1182.6	1291.6	1442.0	1671.4	1430.8	1090.5	968.2
18285.8	72.5°	13606.3	6621.7	1336.7	964.5	1075.4	1270.9	1539.8	1333.0	996.5	891.2
13514.1	75°	9720.1	4190.7	906.2	740.8	836.6	1077.3	1376.2	1218.3	910.0	894.9
6768.3	77.5°	4965.3	2002.3	599.8	541.5	582.8	849.8	1156.3	1088.6	923.1	738.9
1925.2	80°	1615.0	738.9	377.9	368.5	387.3	565.9	894.9	893.0	699.4	502.0
466.3	82.5°	515.1	317.7	246.3	236.9	227.5	355.3	624.2	706.9	471.9	317.7
167.3	85°	204.9	189.9	144.8	133.5	95.9	167.3	327.1	470.0	351.6	229.4
43.2	87.5°	75.2	75.2	39.5	28.2	20.7	56.4	88.4	141.0	201.2	118.4
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>
5121.4
5518.1
5708.0
5670.4
5384.6
4920.2
4452.1
4102.4
3897.4
3816.6
3769.6
3722.6
3570.3
3222.5
2799.5
2406.5
2094.4
1882.0
1876.3
1859.4
1733.4
1513.5
1387.5
1334.9
1291.6
1197.6
1133.7
1060.4
979.5
885.5
844.2
658.0
443.7
315.9
235.0
116.6
0.0

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