

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: P957303

Luminaire Tested: **GALN-SB9C-940-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957303
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB9C-940-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49334 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

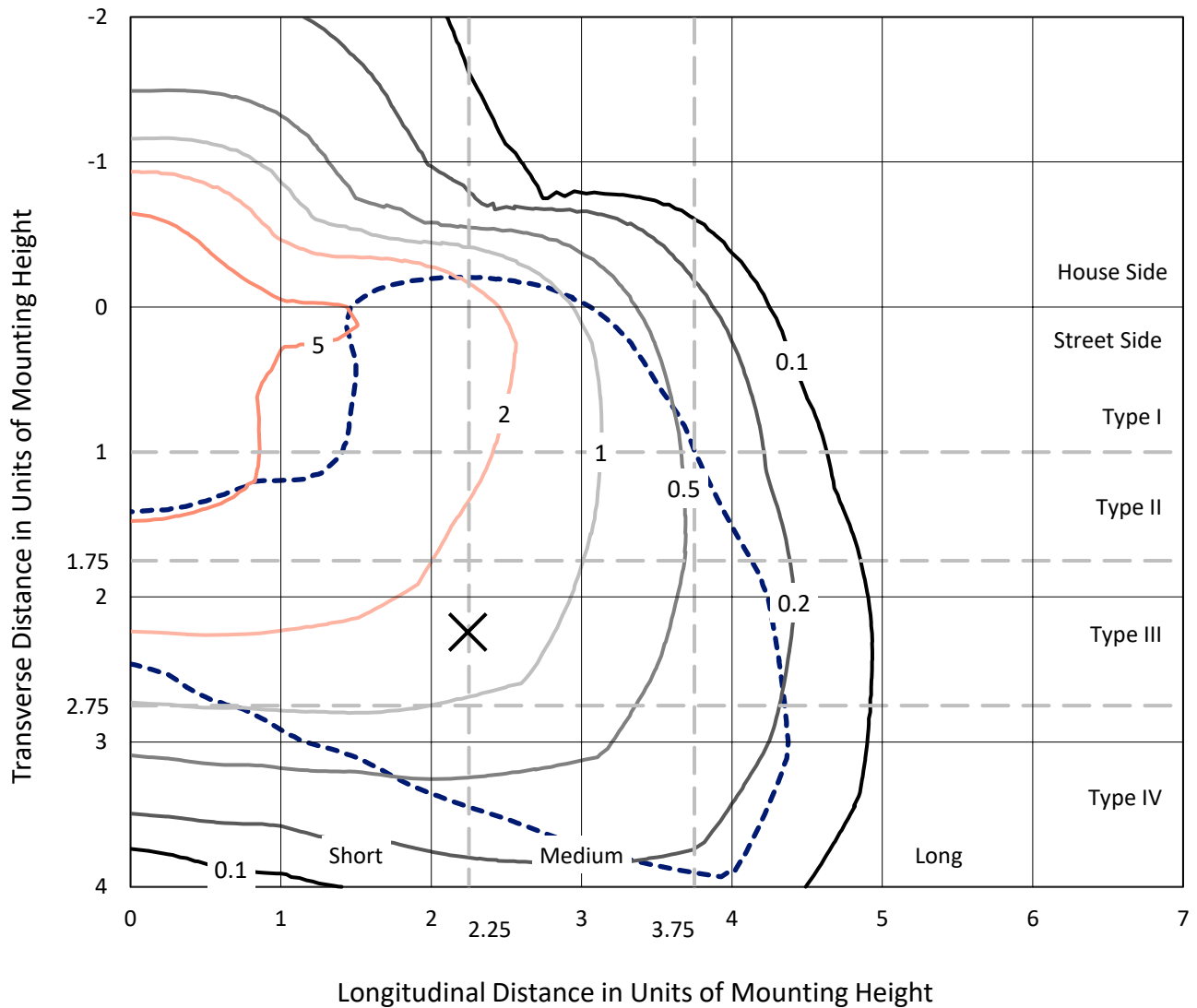
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

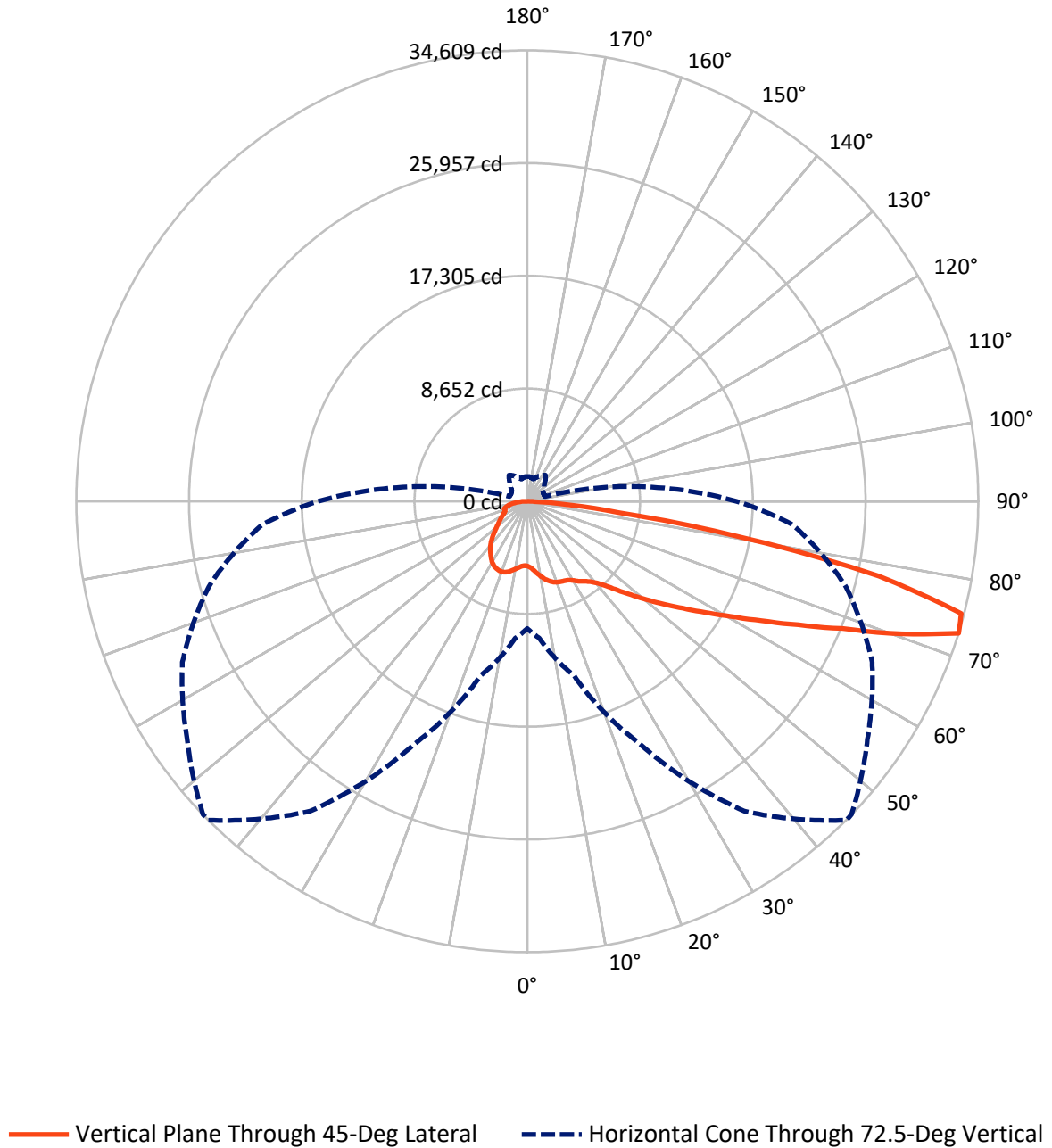
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11152.7	0.0	11152.7
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	38181.3	0.0	38181.3
	% Fixture	77.4	0.0	77.4
Total	Lumens	49334.0	0.0	49334.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	506.5	1.0
10°-20°	1688.9	3.4
20°-30°	2937.9	6.0
30°-40°	4211.6	8.5
40°-50°	5930.2	12.0
50°-60°	9083.4	18.4
60°-70°	13158.7	26.7
70°-80°	10508.0	21.3
80°-90°	1308.7	2.7
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°	49334.0	100.0
0°-180°	49334.0	100.0

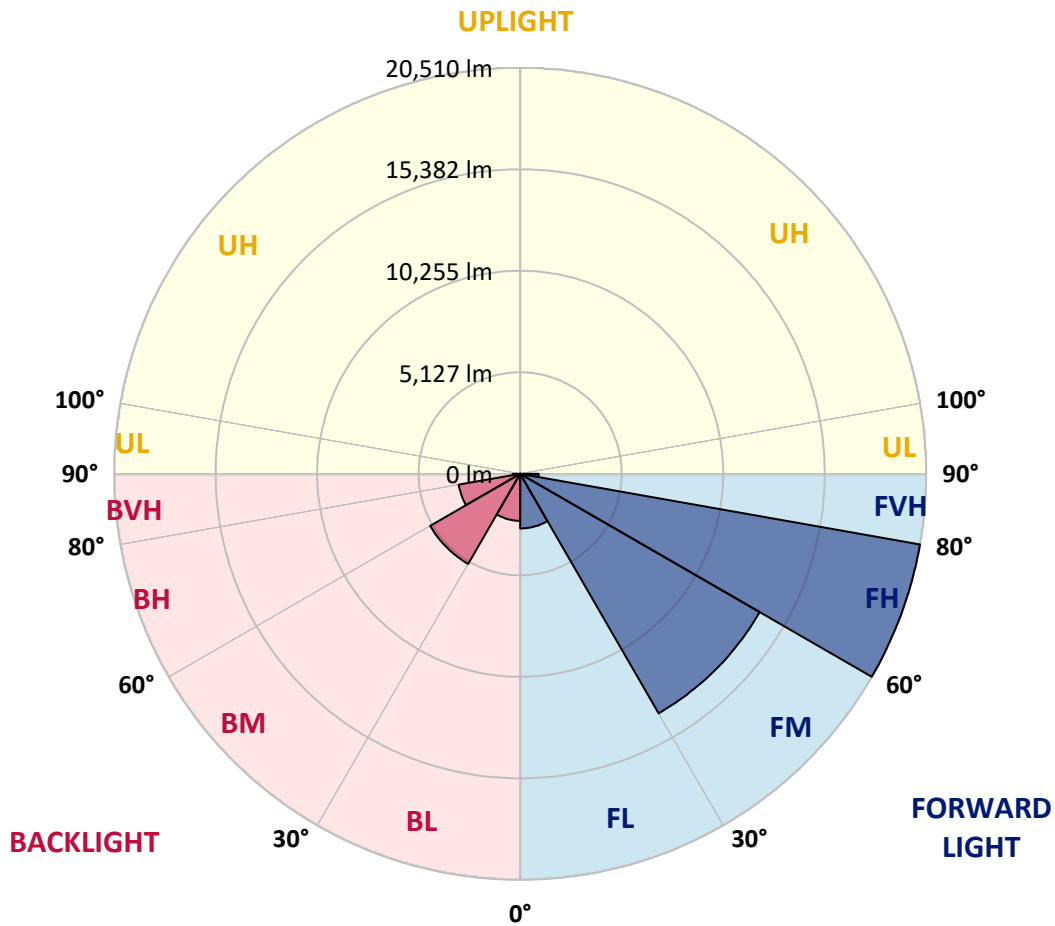


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2758.8	5.6			
FM (30°-60°)	13974.0	28.3			
FH (60°-80°)	20509.6	41.6			G5
FVH (80°-90°)	938.9	1.9			G5
BL (0°-30°)	2374.5	4.8	B3/2500		
BM (30°-60°)	5251.4	10.6	B4/8500		
BH (60°-80°)	3157.0	6.4	B4/5000		G4/5000
BVH (80°-90°)	369.8	0.7			G3/500
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	4976.8	4976.8	4976.8	4976.8	4976.8	4976.8	4976.8	4976.8	4976.8	4976.8
2.5°	5171.8	5205.5	5174.4	5145.8	5132.8	5099.0	5096.4	5075.6	5062.6	5026.2
5°	5533.0	5577.2	5525.2	5468.0	5416.0	5332.9	5322.5	5262.7	5195.1	5117.2
7.5°	5941.0	5980.0	5920.2	5834.5	5743.5	5605.8	5603.2	5494.0	5387.5	5254.9
10°	6297.1	6349.0	6268.5	6151.5	6037.2	5881.2	5863.1	5738.3	5603.2	5431.6
12.5°	6611.5	6647.9	6569.9	6427.0	6294.5	6138.5	6115.1	5977.4	5826.7	5631.8
15°	6861.0	6907.8	6803.8	6650.5	6510.2	6356.8	6336.1	6211.3	6060.6	5855.3
17.5°	7024.8	7063.7	6957.2	6785.7	6650.5	6523.2	6507.6	6403.6	6271.1	6063.2
20°	7087.1	7128.7	7017.0	6842.8	6718.1	6619.3	6611.5	6536.2	6445.2	6255.5
22.5°	7149.5	7188.5	7042.9	6861.0	6751.9	6689.5	6686.9	6637.5	6601.1	6445.2
25°	7401.6	7412.0	7217.1	6954.6	6798.6	6744.1	6741.5	6738.9	6754.5	6632.3
27.5°	7619.9	7617.3	7451.0	7204.1	6962.4	6848.0	6845.4	6871.4	6920.8	6819.4
30°	7939.6	7911.0	7713.5	7456.2	7235.3	7058.5	7042.9	7019.6	7058.5	6978.0
32.5°	8617.9	8526.9	8207.2	7749.8	7461.4	7326.2	7305.4	7159.9	7175.5	7126.1
35°	9589.8	9470.3	9044.1	8306.0	7742.0	7549.7	7539.3	7354.8	7323.6	7279.4
37.5°	10746.3	10598.2	10101.8	9111.6	8225.4	7809.6	7794.0	7627.7	7500.3	7453.6
40°	11908.0	11720.9	11310.3	10094.0	8937.5	8243.6	8194.2	7942.2	7796.6	7718.7
42.5°	13035.9	12880.0	12529.2	11195.9	9815.9	8877.7	8768.6	8337.2	8228.0	8155.3
45°	14033.9	13893.6	13636.3	12373.2	10845.1	9740.6	9634.0	8929.7	8895.9	8895.9
47.5°	14844.8	14813.6	14540.7	13573.9	12058.8	10722.9	10538.4	9753.6	9844.5	9984.9
50°	15744.0	15658.2	15367.1	14756.4	13485.5	11848.3	11697.5	10764.5	11105.0	11489.6
52.5°	16570.4	16617.2	16292.3	15988.3	15096.8	13103.5	12838.4	11957.4	12692.9	13329.6
55°	17420.2	17422.8	17331.9	17290.3	16786.1	14491.3	14200.2	13392.0	14561.5	15351.5
57.5°	18218.1	18223.3	18358.4	18724.9	18745.7	16092.2	15762.2	15154.0	16638.0	17443.6
60°	18930.2	18966.6	19335.6	20193.2	20468.7	17927.0	17615.2	17235.7	18784.6	19595.5
62.5°	19169.3	19301.8	20123.1	21341.9	22171.0	20177.6	19871.0	19644.9	21040.5	21794.1
65°	18763.9	19067.9	20655.8	22290.5	23922.6	22851.9	22547.8	22300.9	23384.7	24094.1
67.5°	17768.5	18160.9	20624.7	23285.9	26048.5	26069.3	25786.0	25206.5	25897.8	26170.6
70°	15146.2	15733.6	18808.0	23657.5	28488.8	30469.2	30196.3	28704.5	28405.7	27085.4
72.5°	9758.8	10548.8	13849.4	20598.7	29032.0	34609.2	34593.6	31862.2	29198.3	25307.8
75°	3560.5	4043.8	6434.8	12929.4	24369.6	34398.7	34500.0	31321.6	26654.0	19548.7
77.5°	1296.8	1419.0	2099.9	4969.0	14987.7	27600.0	27810.5	25040.1	18971.8	9810.7
80°	680.9	748.5	1075.9	1928.4	6421.8	16391.1	16721.1	14881.1	8916.7	2954.9
82.5°	376.8	408.0	602.9	1047.3	2892.5	7009.2	7206.7	5878.6	3136.8	1252.7
85°	202.7	215.7	283.3	571.8	1413.8	2429.9	2484.5	1756.8	1250.1	735.5
87.5°	59.8	72.8	93.6	181.9	553.6	545.8	558.8	348.2	493.8	371.6
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°
4976.8	0°	4976.8	4976.8	4976.8	4976.8	4976.8	4976.8	4976.8	4976.8	4976.8	4976.8
5015.8	2.5°	5000.2	4992.4	4963.8	4950.9	4935.3	4932.7	4945.7	4948.3	4950.9	4953.5
5073.0	5°	5047.0	5021.0	4995.0	4979.4	4984.6	4987.2	5013.2	5031.4	5044.4	5054.8
5179.6	7.5°	5138.0	5117.2	5073.0	5070.4	5078.2	5101.6	5135.4	5177.0	5200.3	5218.5
5317.3	10°	5273.1	5234.1	5182.2	5189.9	5205.5	5239.3	5309.5	5343.3	5382.3	5416.0
5486.2	12.5°	5410.9	5377.1	5317.3	5322.5	5348.5	5408.3	5475.8	5517.4	5543.4	5569.4
5668.1	15°	5590.2	5530.4	5465.4	5465.4	5512.2	5577.2	5608.4	5642.2	5657.7	5686.3
5863.1	17.5°	5774.7	5696.7	5611.0	5605.8	5662.9	5694.1	5712.3	5717.5	5722.7	5753.9
6052.8	20°	5959.2	5873.5	5751.3	5740.9	5753.9	5748.7	5746.1	5740.9	5748.7	5787.7
6247.7	22.5°	6141.1	6042.4	5873.5	5826.7	5790.3	5740.9	5738.3	5735.7	5740.9	5779.9
6458.2	25°	6354.2	6234.7	6008.6	5868.3	5746.1	5678.5	5686.3	5688.9	5694.1	5725.3
6676.5	27.5°	6585.5	6453.0	6133.3	5855.3	5634.4	5587.6	5574.6	5582.4	5600.6	5649.9
6894.8	30°	6816.8	6660.9	6247.7	5803.3	5494.0	5429.0	5387.5	5405.7	5462.8	5512.2
7084.5	32.5°	7027.4	6871.4	6338.6	5688.9	5314.7	5213.3	5158.8	5182.2	5239.3	5257.5
7295.0	35°	7274.2	7097.5	6377.6	5507.0	5119.8	4963.8	4891.1	4857.3	4885.9	4867.7
7541.9	37.5°	7549.7	7365.2	6372.4	5267.9	4891.1	4711.8	4610.4	4483.1	4423.3	4360.9
7905.8	40°	7957.7	7692.7	6310.1	4979.4	4607.8	4444.1	4262.2	4046.4	3911.3	3789.2
8493.1	42.5°	8513.9	8147.5	6195.7	4662.4	4288.1	4134.8	3887.9	3635.8	3422.7	3220.0
9384.5	45°	9342.9	8742.6	6052.8	4324.5	3942.5	3791.8	3524.1	3240.8	2999.1	2739.2
10650.2	47.5°	10538.4	9543.1	5917.6	3939.9	3578.6	3440.9	3199.2	2936.7	2650.8	2398.8
12479.8	50°	12180.9	10691.8	5792.9	3565.7	3220.0	3116.0	2923.7	2656.0	2367.6	2164.9
14623.9	52.5°	14270.4	12253.7	5740.9	3204.4	2884.7	2845.8	2692.4	2442.9	2170.1	1998.5
17124.0	55°	16669.2	14122.3	5740.9	2858.8	2591.1	2604.1	2497.5	2266.2	2029.7	1876.4
19702.1	57.5°	19117.3	16014.3	5637.0	2539.1	2341.6	2396.2	2328.6	2125.9	1912.8	1754.2
22412.7	60°	21373.1	17599.6	5215.9	2248.0	2120.7	2206.4	2162.3	1988.1	1728.3	1595.7
24678.9	62.5°	23106.6	18493.6	4405.1	2016.7	1938.8	2037.5	2014.1	1806.2	1694.5	1639.9
26539.7	65°	23974.6	18348.0	3368.1	1811.4	1785.4	1938.8	1889.4	1881.6	1793.2	1730.8
27145.2	67.5°	23441.8	17095.4	2442.9	1660.7	1697.1	1847.8	2037.5	2068.7	1905.0	1782.8
25440.4	70°	21105.4	14829.2	1819.2	1517.7	1585.3	1850.4	2323.4	2164.9	1868.6	1725.7
20403.7	72.5°	16055.8	11058.2	1411.2	1367.0	1439.8	1863.4	2450.7	2120.7	1764.6	1907.6
12711.1	75°	9181.8	6071.0	1133.1	1182.5	1257.9	1741.2	2385.8	2006.3	1684.1	1751.6
5036.6	77.5°	3500.7	2333.8	935.6	1000.6	1011.0	1520.3	2281.8	1998.5	1603.5	1564.5
1509.9	80°	1213.7	912.2	774.5	795.3	782.3	1351.4	2188.3	1738.6	1312.4	1174.7
623.7	82.5°	496.4	454.8	613.3	587.3	556.2	1049.9	1767.2	1421.6	1073.3	948.6
301.5	85°	215.7	288.5	405.4	356.0	322.3	727.7	1416.4	1203.3	907.0	782.3
98.8	87.5°	44.2	109.2	171.5	161.1	166.3	486.0	1005.8	855.0	641.9	480.8
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>
4976.8
4963.8
5060.0
5223.7
5408.3
5579.8
5696.7
5764.3
5803.3
5805.9
5766.9
5699.3
5566.8
5322.5
4924.9
4399.9
3797.0
3201.8
2708.0
2370.2
2151.9
1985.5
1860.8
1728.3
1574.9
1621.7
1710.1
1762.0
1702.3
1892.0
1751.6
1426.8
1135.7
938.2
779.7
376.8
0.0

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