

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: P944742

Luminaire Tested: **GALN-SB9D-830-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944742
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-SB9D-830-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3000K, 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: 82557 lumens
Efficiency: N/A
Efficacy: 125.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B5 - U0 - G5

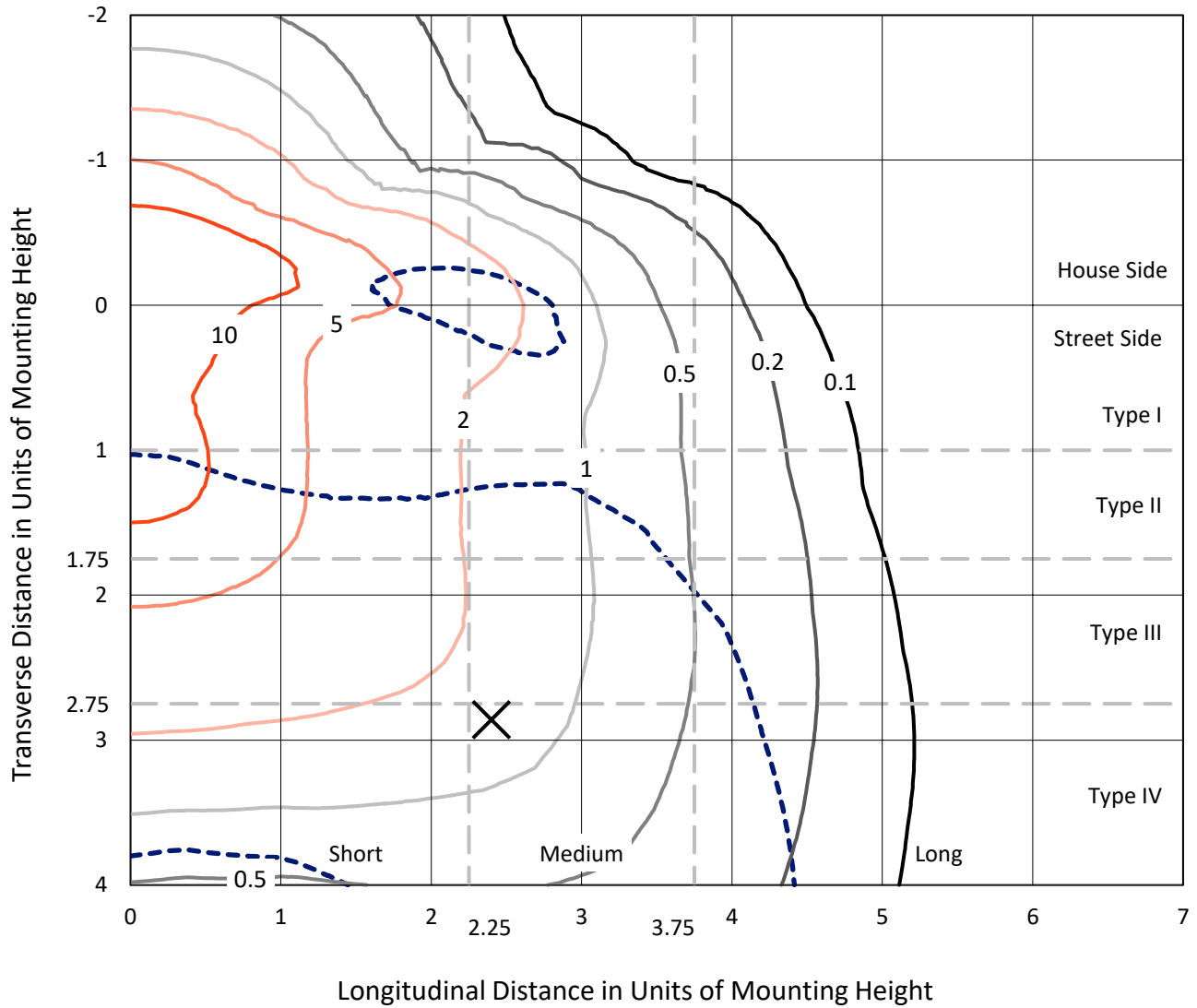
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

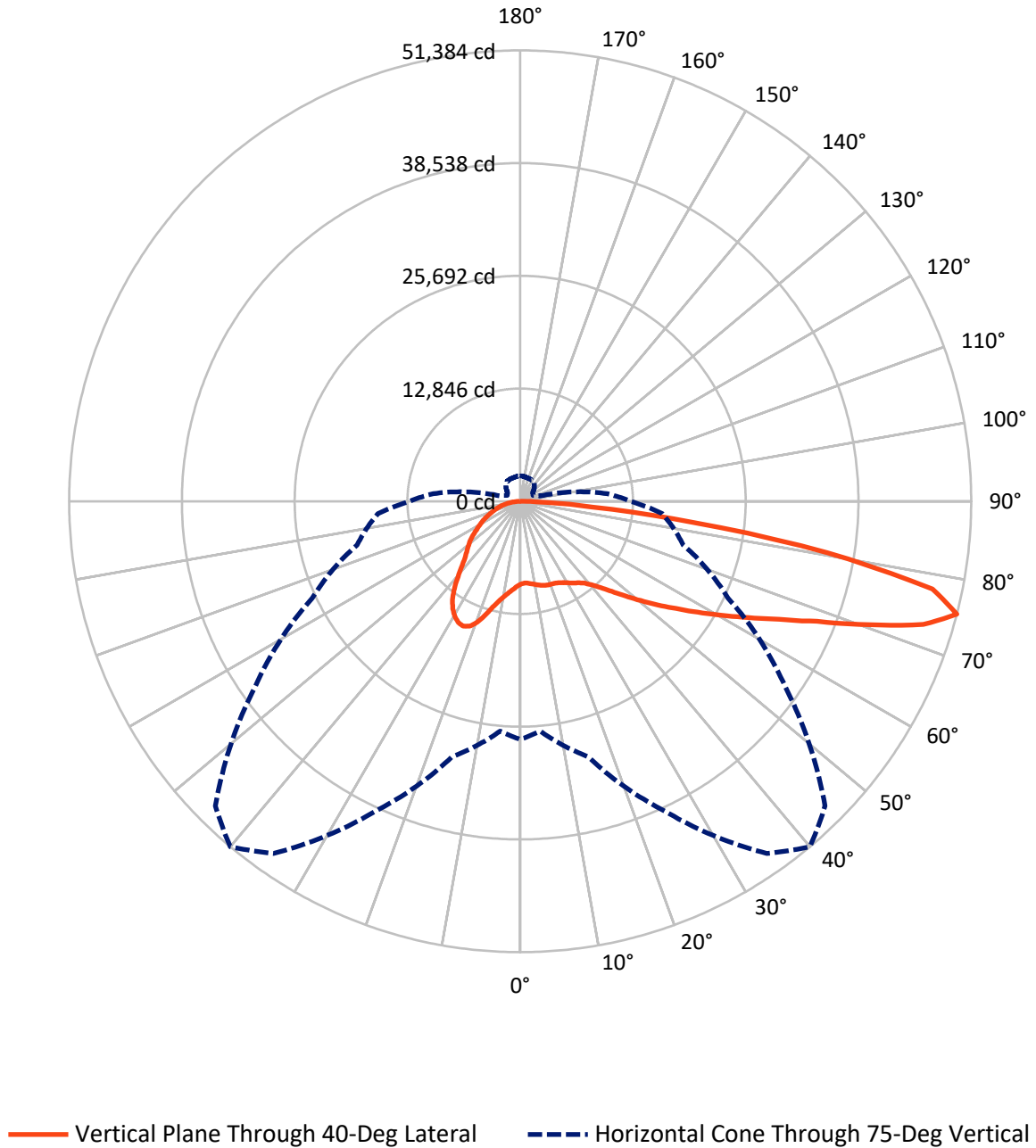
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25578.9	0.0	25578.9
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	56978.1	0.0	56978.1
	% Fixture	69.0	0.0	69.0
Total	Lumens	82557.0	0.0	82557.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	942.4	1.1
10°-20°	3163.9	3.8
20°-30°	5777.0	7.0
30°-40°	8193.3	9.9
40°-50°	11063.5	13.4
50°-60°	14883.3	18.0
60°-70°	18890.4	22.9
70°-80°	17144.2	20.8
80°-90°	2499.1	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°	82557.0	100.0
0°-180°	82557.0	100.0

Coefficient of Utilization



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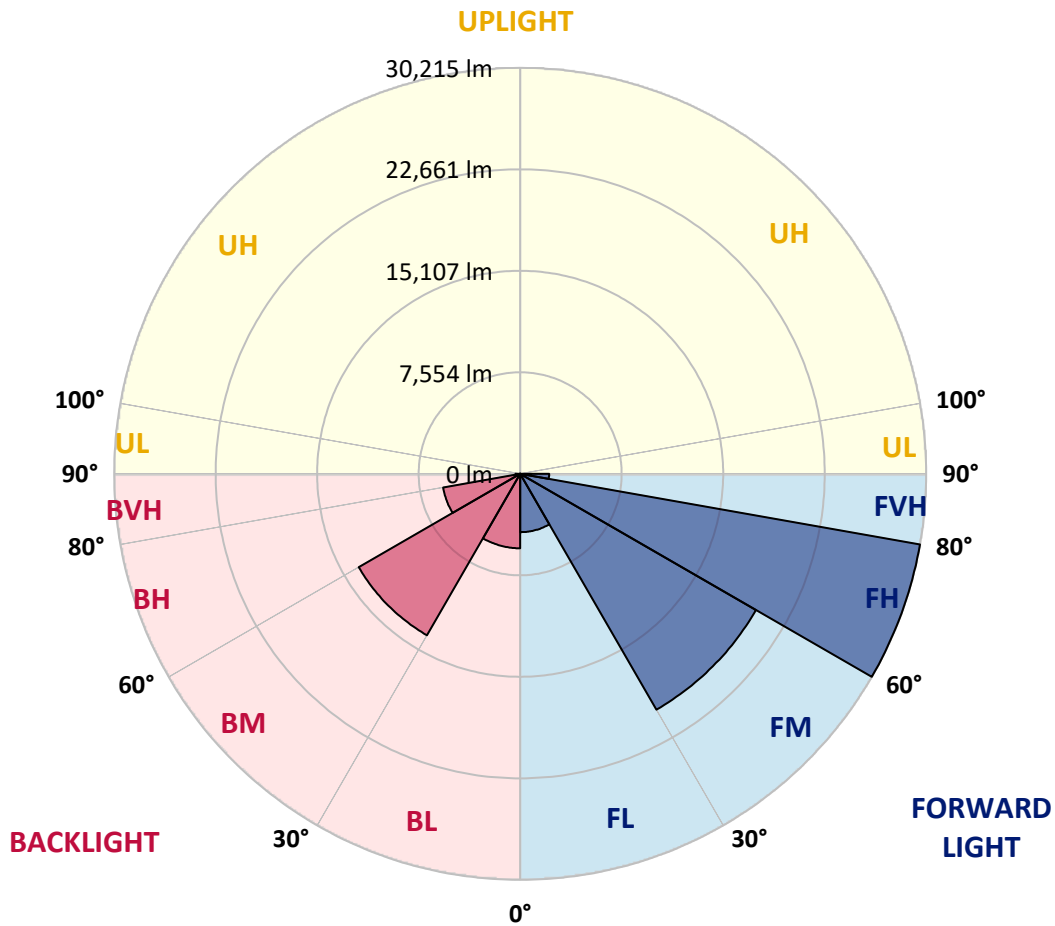
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4342.6	5.3			
FM (30°-60°)	20265.9	24.5			
FH (60°-80°)	30214.6	36.6			G5
FVH (80°-90°)	2155.0	2.6			G5
BL (0°-30°)	5540.6	6.7	B5		
BM (30°-60°)	13874.3	16.8	B5		
BH (60°-80°)	5820.0	7.0	B5		G5
BVH (80°-90°)	344.1	0.4			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	9440.5	9440.5	9440.5	9440.5	9440.5	9440.5	9440.5	9440.5	9440.5	9440.5
2.5°	9296.0	9348.6	9335.4	9317.9	9317.9	9322.3	9317.9	9348.6	9379.2	9409.9
5°	9392.3	9444.9	9418.6	9396.7	9379.2	9374.8	9361.7	9357.3	9374.8	9414.2
7.5°	9580.6	9633.2	9593.8	9554.3	9519.3	9501.8	9484.3	9458.0	9444.9	9466.8
10°	9790.8	9843.3	9795.2	9725.1	9668.2	9646.3	9628.8	9602.5	9585.0	9598.1
12.5°	10001.0	10053.5	9987.8	9891.5	9817.1	9803.9	9782.0	9773.3	9768.9	9764.5
15°	10198.0	10241.8	10158.6	10044.8	9965.9	9944.1	9922.2	9935.3	9957.2	9983.5
17.5°	10351.3	10395.1	10272.5	10123.6	10049.1	10040.4	10027.3	10071.0	10132.3	10198.0
20°	10491.4	10535.2	10377.5	10176.1	10088.6	10088.6	10092.9	10184.9	10272.5	10368.8
22.5°	10688.4	10723.5	10530.8	10254.9	10128.0	10136.7	10171.7	10263.7	10373.2	10504.5
25°	10981.8	11008.1	10771.6	10403.8	10259.3	10285.6	10316.2	10360.0	10465.1	10618.4
27.5°	11454.7	11476.6	11165.7	10666.5	10447.6	10491.4	10535.2	10504.5	10552.7	10684.1
30°	12120.3	12133.4	11739.3	11078.1	10767.3	10789.1	10797.9	10670.9	10579.0	10684.1
32.5°	12908.4	12904.1	12435.5	11577.3	11130.7	11108.8	11034.4	10784.8	10570.2	10662.2
35°	14130.1	14081.9	13477.7	12277.9	11542.3	11406.5	11231.4	10911.8	10614.0	10640.3
37.5°	16153.1	16004.2	15167.9	13425.1	12155.3	11809.4	11551.0	11117.5	10710.3	10631.5
40°	18434.4	18246.1	17326.6	14997.1	13074.8	12518.7	12102.8	11410.9	10868.0	10670.9
42.5°	21140.4	20873.3	19883.7	16849.3	14239.6	13433.9	12807.7	11783.1	11100.0	10797.9
45°	24463.9	24109.2	22708.0	18937.9	15706.4	14633.7	13797.3	12348.0	11454.7	11043.1
47.5°	27822.3	27909.9	25917.6	21328.7	17466.7	16113.7	15036.5	13197.4	11971.4	11437.2
50°	31391.0	31452.3	29109.7	23977.8	19463.4	17786.3	16428.9	14147.6	12689.5	11997.7
52.5°	34175.8	34184.6	32008.4	26749.6	21543.3	19625.4	17930.8	15233.5	13521.5	12742.1
55°	35918.6	35896.7	34040.1	29372.4	23934.0	21556.4	19594.7	16468.3	14537.3	13617.8
57.5°	37184.0	37118.3	35441.3	31627.4	26482.4	23837.7	21477.6	17869.5	15737.1	14659.9
60°	37665.7	37626.3	36391.5	33576.0	29162.2	26359.8	23649.4	19437.1	17098.9	15890.3
62.5°	37849.6	37924.0	37324.1	35463.2	32030.3	29153.5	26035.8	21311.2	18631.4	17282.8
65°	38497.6	38633.4	38510.8	37932.8	35270.5	32424.4	29201.6	23540.0	20304.1	18775.9
67.5°	39780.6	39916.3	39968.9	40888.4	39228.9	36500.9	33151.2	26316.1	22261.4	20326.0
70°	39749.9	39710.5	40638.8	43239.8	44185.6	42145.1	38475.7	29731.5	24595.2	21613.3
72.5°	36181.3	35866.0	38059.8	43213.5	48310.3	48038.8	44978.1	34136.4	26609.4	21771.0
75°	27143.6	26302.9	30178.1	38944.3	48997.8	51384.2	49111.6	36868.8	26132.2	19235.7
77.5°	11608.0	10762.9	15329.9	28829.4	43852.8	48034.5	45319.7	32166.0	20860.2	12720.2
80°	3038.8	3034.4	4632.7	13070.5	29823.4	35471.9	31119.5	20772.6	11918.9	4545.1
82.5°	1256.7	1226.0	1703.3	5083.7	14572.4	19905.6	16245.0	9265.4	4304.3	1230.4
85°	468.5	464.1	827.6	1755.9	5140.6	8210.1	5941.9	2368.9	1072.8	599.9
87.5°	131.4	127.0	179.5	608.6	1252.3	1900.4	1015.9	389.7	302.1	236.5
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°
9440.5	0°	9440.5	9440.5	9440.5	9440.5	9440.5	9440.5	9440.5	9440.5	9440.5	9440.5
9458.0	2.5°	9471.2	9493.0	9532.5	9563.1	9602.5	9646.3	9707.6	9747.0	9786.4	9812.7
9479.9	5°	9510.6	9558.7	9659.4	9760.1	9878.4	9987.8	10114.8	10206.8	10281.2	10303.1
9558.7	7.5°	9598.1	9677.0	9847.7	10018.5	10206.8	10386.3	10570.2	10727.8	10854.8	10903.0
9698.8	10°	9751.4	9856.5	10097.3	10338.1	10587.7	10863.6	11100.0	11327.7	11507.3	11581.7
9865.2	12.5°	9944.1	10075.4	10390.7	10723.5	11069.4	11450.3	11756.8	12037.1	12260.4	12361.1
10097.3	15°	10193.6	10364.4	10767.3	11213.9	11721.8	12251.6	12641.3	12952.2	13201.8	13324.4
10338.1	17.5°	10465.1	10692.8	11200.7	11875.1	12601.9	13298.1	13753.5	13981.2	14239.6	14357.8
10561.5	20°	10727.8	11008.1	11734.9	12715.8	13683.5	14423.5	14791.3	14852.6	14870.1	14883.2
10771.6	22.5°	10999.3	11375.9	12404.9	13775.4	14813.2	15325.5	15378.0	15115.3	14747.5	14576.7
10977.4	25°	11297.1	11796.2	13280.6	14944.5	15785.3	15846.6	15443.7	14804.4	14108.2	13788.6
11143.8	27.5°	11586.1	12282.3	14331.5	16061.1	16485.9	15947.3	15080.3	14173.9	13333.2	12996.0
11262.0	30°	11875.1	12838.4	15491.9	17037.6	16805.5	15697.7	14506.7	13495.2	12650.1	12295.4
11367.1	32.5°	12168.4	13486.4	16827.4	17742.5	16748.6	15167.9	13792.9	12733.3	11988.9	11616.7
11459.1	35°	12501.2	14283.4	18092.8	18127.9	16367.6	14388.4	12851.5	11822.5	11174.5	10876.7
11568.6	37.5°	12934.7	15294.8	19209.4	18224.2	15702.1	13245.6	11682.4	10745.4	10211.2	10075.4
11730.6	40°	13473.3	16512.1	20063.3	18070.9	14716.9	11857.6	10403.8	9655.1	9352.9	9383.6
11949.5	42.5°	14173.9	17873.9	20663.1	17676.9	13346.3	10425.7	9282.9	8950.1	9094.6	9217.2
12277.9	45°	15084.7	19288.2	21035.3	17006.9	11796.2	9212.8	8621.7	8700.5	8810.0	8823.1
12807.7	47.5°	16249.4	20720.1	21280.5	15995.4	10215.5	8359.0	8201.3	8218.8	8196.9	8105.0
13600.3	50°	17703.1	22112.5	21499.5	14655.5	8871.3	7824.8	7614.6	7553.3	7251.1	6953.4
14655.5	52.5°	19358.3	23391.1	21591.4	12991.6	7824.8	7378.1	7036.6	6651.3	6086.4	5994.5
15982.3	55°	21197.3	24573.3	21355.0	10946.8	6944.6	6804.5	6287.8	5823.7	5762.4	5683.6
17729.4	57.5°	23395.5	25847.5	20873.3	8665.5	6042.6	6134.6	5631.0	5683.6	5574.1	5451.5
19975.7	60°	25799.4	27165.5	20028.2	6585.6	5110.0	5298.2	5460.3	5455.9	5425.2	5324.5
22344.6	62.5°	27962.5	28032.5	18364.3	5044.3	4291.1	4650.2	5092.4	5088.1	5061.8	5004.9
24818.5	65°	29249.8	27901.2	15588.2	3971.5	3616.8	4116.0	4593.3	4628.3	4632.7	4628.3
26679.5	67.5°	29022.1	26364.2	11778.7	3161.4	3060.7	3573.0	4098.5	4146.6	4181.7	4190.4
26915.9	70°	26447.4	22988.2	7680.3	2522.1	2565.9	3095.7	3630.0	3678.1	3708.8	3743.8
23356.0	72.5°	20615.0	16901.8	4396.2	2040.5	2132.4	2684.2	3165.8	3222.7	3240.2	3305.9
16253.8	75°	12562.5	9939.7	2373.3	1607.0	1751.5	2294.4	2706.0	2771.7	2802.4	2881.2
7982.4	77.5°	5972.6	4304.3	1353.0	1252.3	1409.9	1874.1	2285.7	2360.1	2276.9	2320.7
2202.5	80°	2018.6	1598.2	853.8	954.6	1077.2	1462.5	1830.3	1904.7	1729.6	1720.8
731.2	82.5°	705.0	648.0	543.0	634.9	696.2	1046.5	1383.7	1480.0	1287.3	1283.0
328.4	85°	275.9	262.7	302.1	345.9	416.0	643.7	910.8	958.9	792.5	639.3
96.3	87.5°	56.9	61.3	74.4	78.8	127.0	223.3	328.4	402.8	319.6	271.5
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>
9440.5
9795.2
10311.9
10907.4
11586.1
12361.1
13315.7
14353.4
14918.3
14624.9
13836.7
13035.4
12334.8
11664.9
10942.4
10171.7
9488.7
9331.0
8910.7
8175.1
6992.8
6025.1
5696.7
5429.6
5289.5
4983.0
4628.3
4199.2
3761.3
3332.2
2889.9
2285.7
1703.3
1221.7
630.5
249.6
0.0

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