

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: P955147

Luminaire Tested: **GALN-SB8A-940-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955147
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8A-940-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26125 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

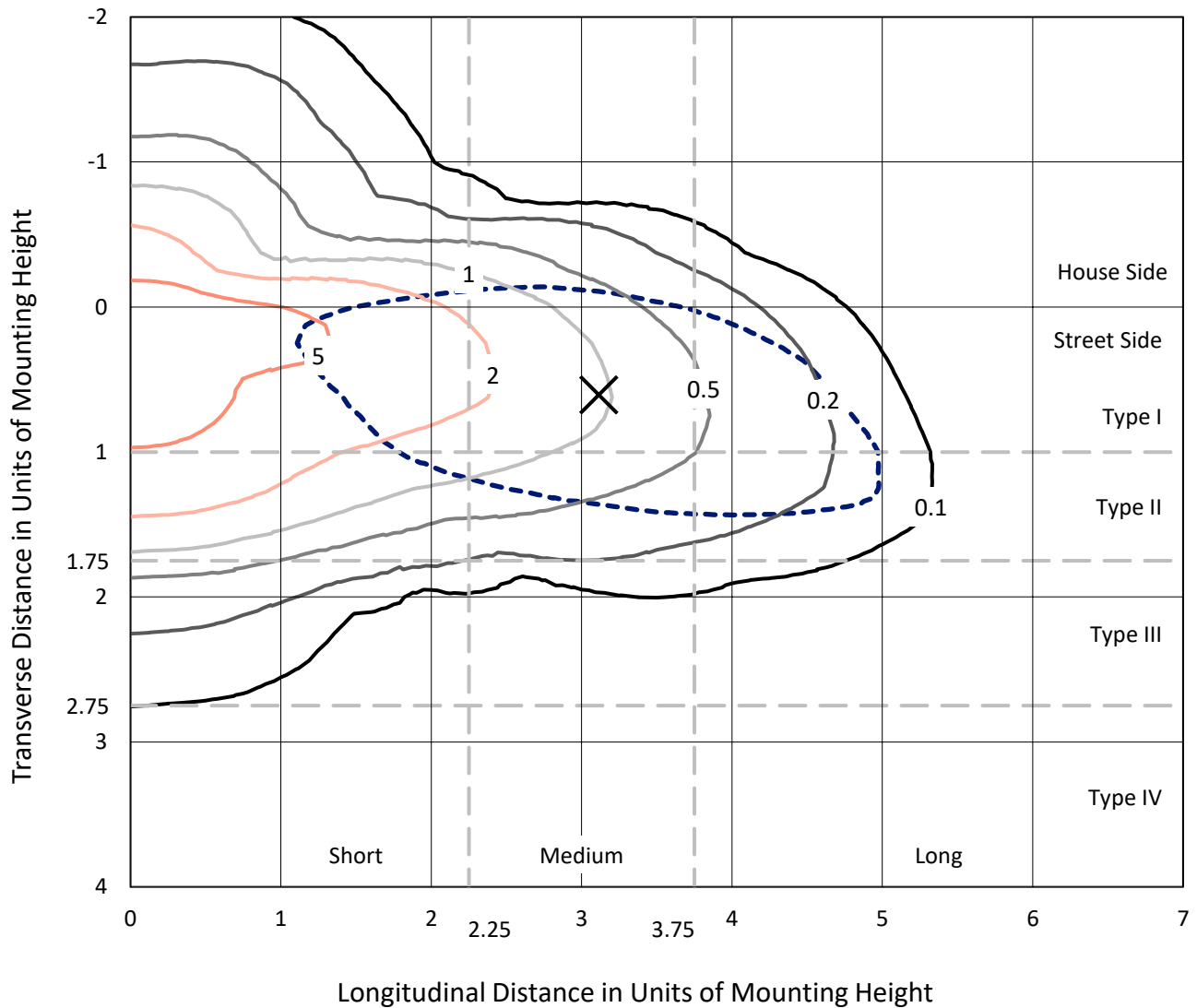
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

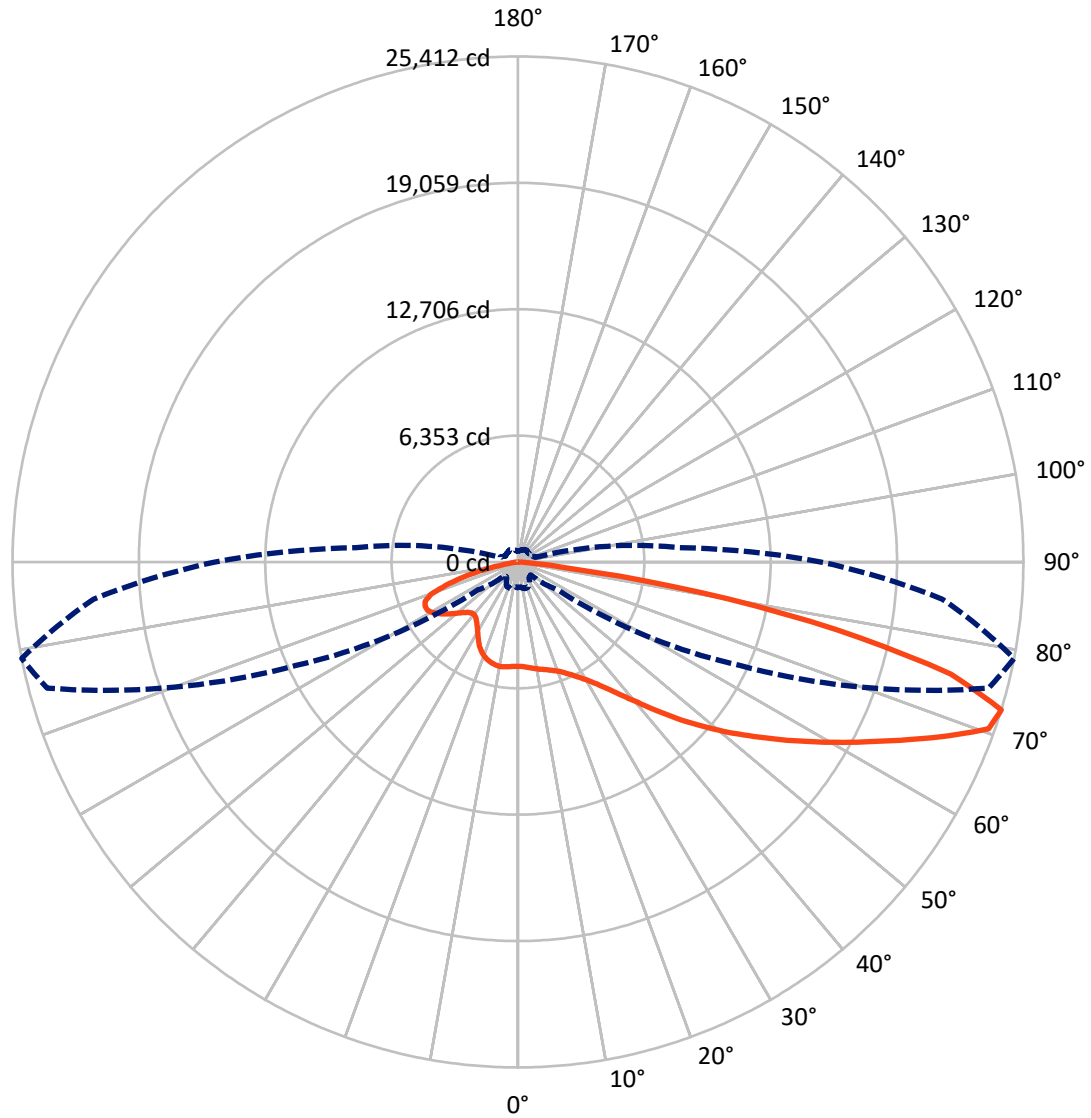
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5748.9	0.0	5748.9
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	20376.1	0.0	20376.1
	% Fixture	78.0	0.0	78.0
Total	Lumens	26125.0	0.0	26125.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	476.0	1.8
10°-20°	1244.6	4.8
20°-30°	2008.3	7.7
30°-40°	3014.1	11.5
40°-50°	4275.7	16.4
50°-60°	5399.6	20.7
60°-70°	5484.1	21.0
70°-80°	3737.6	14.3
80°-90°	484.9	1.9
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°	26125.0	100.0
0°-180°	26125.0	100.0



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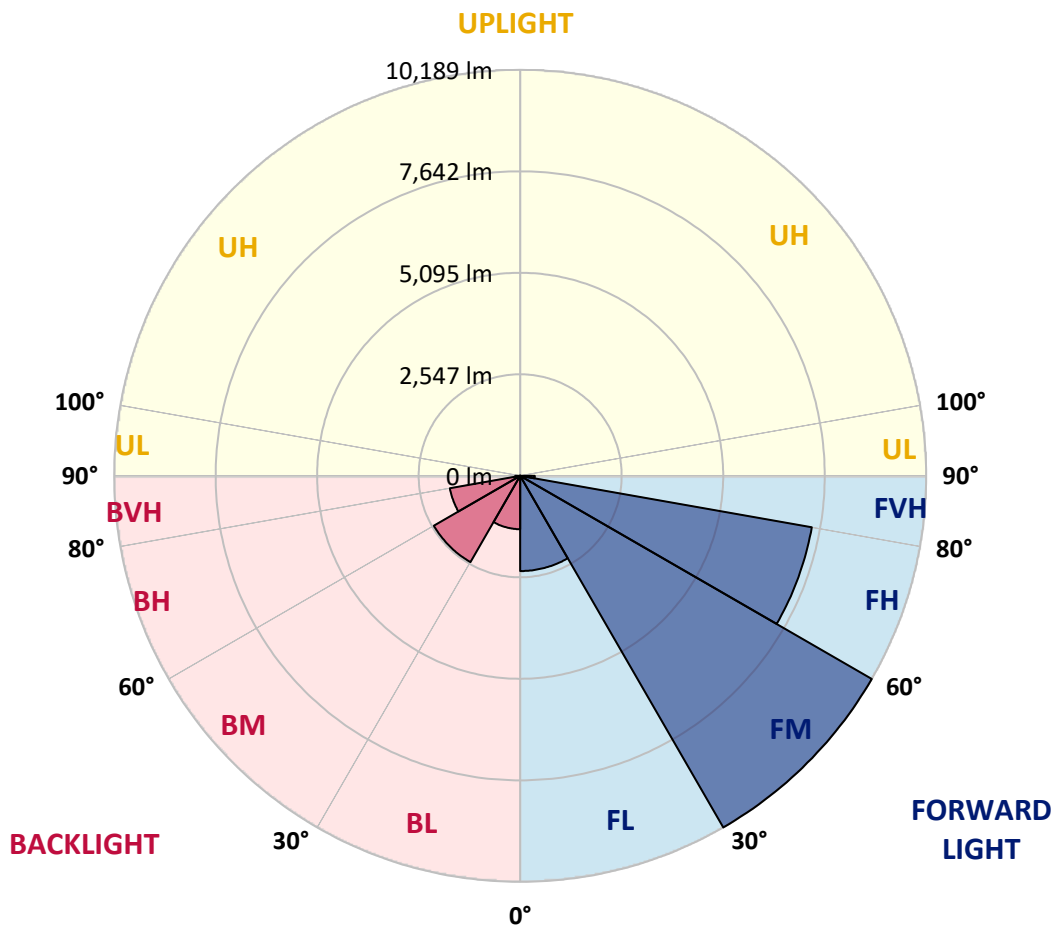
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2389.8	9.1			
FM (30°-60°)	10189.3	39.0			
FH (60°-80°)	7431.7	28.4			G3/7500
FVH (80°-90°)	365.3	1.4			G3/500
BL (0°-30°)	1339.1	5.1	B3/2500		
BM (30°-60°)	2500.2	9.6	B3/5000		
BH (60°-80°)	1790.0	6.9	B3/2500		G3/2500
BVH (80°-90°)	119.6	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	5244.3	5244.3	5244.3	5244.3	5244.3	5244.3	5244.3	5244.3	5244.3	5244.3
2.5°	5247.1	5222.2	5237.4	5231.9	5238.8	5247.1	5249.9	5254.0	5267.8	5266.5
5°	5236.1	5211.2	5231.9	5225.0	5243.0	5262.3	5278.9	5294.1	5316.2	5325.9
7.5°	5212.6	5196.0	5216.7	5237.4	5270.6	5299.6	5323.1	5357.7	5389.4	5395.0
10°	5075.8	5063.3	5111.7	5165.6	5256.8	5335.6	5386.7	5426.8	5461.3	5466.8
12.5°	4933.4	4918.2	4972.1	5045.4	5193.2	5335.6	5443.3	5495.9	5526.3	5544.2
15°	4909.9	4897.5	4927.9	4991.5	5114.4	5298.2	5482.0	5578.8	5605.0	5625.8
17.5°	5023.2	4999.7	5012.2	5034.3	5106.2	5263.7	5512.4	5672.7	5712.8	5734.9
20°	5285.8	5252.6	5233.3	5189.1	5176.6	5269.2	5509.7	5786.1	5838.6	5866.2
22.5°	5635.4	5613.3	5571.9	5459.9	5338.3	5336.9	5562.2	5931.2	6029.3	6055.5
25°	6058.3	6025.1	5972.6	5820.6	5587.1	5471.0	5650.6	6116.3	6280.8	6287.7
27.5°	6544.7	6495.0	6423.1	6222.7	5907.7	5681.0	5786.1	6329.1	6569.6	6566.8
30°	7057.4	7007.7	6931.7	6688.4	6291.8	5964.3	5974.0	6558.5	6912.3	6897.1
32.5°	7431.9	7394.6	7379.4	7191.5	6734.0	6298.7	6189.6	6812.8	7335.2	7321.4
35°	7719.3	7671.0	7688.9	7593.6	7216.3	6673.2	6453.5	7115.5	7849.2	7847.9
37.5°	8004.0	7961.2	7976.4	7912.8	7662.7	7148.6	6775.5	7485.8	8486.3	8516.7
40°	8263.8	8218.2	8279.0	8219.6	8009.5	7654.4	7141.7	7904.5	9224.2	9282.3
42.5°	8420.0	8384.0	8484.9	8486.3	8310.8	8081.4	7543.8	8366.1	10078.3	10208.2
45°	8473.9	8461.4	8613.4	8645.2	8577.5	8328.8	7905.9	8869.1	10998.6	11230.8
47.5°	8415.8	8392.3	8602.4	8719.8	8773.7	8444.8	8205.8	9413.6	11938.3	12278.3
50°	8122.9	8077.3	8389.6	8636.9	8829.0	8520.9	8508.4	10042.3	13006.5	13378.3
52.5°	7596.4	7561.8	7917.0	8346.7	8707.4	8558.2	8848.4	10729.1	14020.9	14501.8
55°	6923.4	6877.8	7268.8	7829.9	8404.8	8545.7	9188.3	11497.5	15217.6	15705.4
57.5°	5856.5	5765.3	6260.0	6923.4	7911.4	8530.5	9542.1	12261.7	16433.7	17018.2
60°	4300.5	4165.1	4771.7	5558.0	6946.9	8382.7	9980.1	13118.5	17893.0	18419.5
62.5°	2504.0	2425.3	2821.9	3555.7	5236.1	7512.1	10226.1	14114.8	19327.4	19880.1
65°	1944.3	1922.2	1956.8	2013.4	2914.4	5624.4	9467.5	15086.3	21151.5	21538.4
67.5°	1778.5	1761.9	1777.1	1670.7	1478.6	3132.8	7489.9	15332.3	23105.5	23340.4
70°	1580.9	1561.6	1611.3	1520.1	1163.6	1424.7	4839.4	14439.6	24660.2	25101.0
72.5°	1287.9	1265.8	1381.9	1340.5	979.8	914.8	2430.8	12318.3	24497.1	25411.9
75°	989.4	977.0	1115.2	1149.7	798.7	720.0	1166.3	9156.5	21557.8	22479.5
77.5°	768.3	758.7	829.1	954.9	644.0	558.3	717.2	5808.2	16245.7	16407.4
80°	576.3	548.6	613.6	739.3	501.6	407.7	486.4	3387.1	10269.0	9308.5
82.5°	360.7	346.9	400.8	493.3	353.8	280.5	316.5	1871.1	4115.3	2423.9
85°	205.9	200.4	218.3	281.9	192.1	161.7	181.0	826.4	751.8	516.8
87.5°	82.9	80.2	99.5	125.8	70.5	59.4	63.6	199.0	165.8	153.4
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°
5244.3	0°	5244.3	5244.3	5244.3	5244.3	5244.3	5244.3	5244.3	5244.3	5244.3	5244.3
5265.1	2.5°	5259.5	5259.5	5240.2	5209.8	5175.2	5153.1	5117.2	5107.5	5070.2	5059.2
5312.1	5°	5323.1	5312.1	5252.6	5167.0	5049.5	4941.7	4822.9	4748.2	4643.2	4605.9
5404.6	7.5°	5403.3	5372.9	5270.6	5082.7	4836.7	4594.8	4343.3	4152.6	3970.2	3905.3
5480.7	10°	5476.5	5433.7	5259.5	4930.7	4505.0	4086.3	3685.6	3405.0	3192.2	3105.1
5564.9	12.5°	5549.7	5471.0	5186.3	4677.8	4033.8	3465.8	3038.8	2820.5	2689.2	2584.2
5634.0	15°	5618.8	5508.3	5073.0	4339.2	3517.0	2940.7	2625.6	2451.5	2346.5	2277.4
5734.9	17.5°	5699.0	5540.1	4903.0	3909.4	3025.0	2577.3	2320.2	2215.2	2194.5	2186.2
5873.1	20°	5810.9	5569.1	4679.1	3428.5	2662.9	2287.1	2154.4	2144.7	2143.3	2139.2
6038.9	22.5°	5931.2	5603.6	4383.4	2991.8	2354.8	2106.0	2082.5	2063.2	2050.8	2049.4
6239.3	25°	6073.5	5614.7	4013.1	2633.9	2092.2	2020.4	1992.7	1963.7	1955.4	1955.4
6467.3	27.5°	6211.7	5577.4	3581.9	2323.0	1944.3	1941.6	1905.7	1896.0	1894.6	1898.7
6727.1	30°	6349.9	5506.9	3153.5	2035.6	1858.7	1858.7	1846.2	1853.1	1858.7	1872.5
7083.7	32.5°	6536.4	5432.3	2795.6	1822.7	1784.0	1770.2	1782.7	1796.5	1802.0	1820.0
7552.1	35°	6810.0	5379.8	2510.9	1706.7	1706.7	1688.7	1695.6	1692.8	1680.4	1672.1
8118.7	37.5°	7172.1	5377.0	2276.0	1652.8	1641.7	1638.9	1640.3	1622.4	1574.0	1516.0
8804.1	40°	7607.4	5451.6	2095.0	1615.5	1607.2	1623.7	1615.5	1567.1	1434.4	1333.5
9647.1	42.5°	8192.0	5664.4	1978.9	1569.8	1594.7	1615.5	1582.3	1415.1	1325.3	1257.5
10607.5	45°	8880.1	6009.9	1919.5	1521.5	1571.2	1596.1	1435.8	1362.6	1290.7	1209.2
11655.0	47.5°	9659.5	6445.2	1905.7	1475.9	1518.7	1533.9	1373.6	1340.5	1258.9	1170.5
12708.0	50°	10508.0	6960.7	1943.0	1422.0	1442.7	1390.2	1352.9	1322.5	1238.2	1151.1
13787.3	52.5°	11385.5	7528.6	2017.6	1348.7	1366.7	1308.7	1344.6	1318.3	1225.8	1108.3
14902.5	55°	12247.9	8100.8	2089.4	1263.1	1289.3	1235.4	1321.1	1301.8	1169.1	1036.4
16092.3	57.5°	13124.0	8670.1	2159.9	1187.1	1214.7	1164.9	1283.8	1257.5	1105.5	970.1
17391.3	60°	14034.7	9222.9	2193.1	1113.8	1133.2	1100.0	1227.1	1181.5	1033.7	902.4
18668.2	62.5°	14887.3	9683.0	2139.2	1040.6	1053.0	1039.2	1152.5	1091.7	961.8	826.4
19999.0	65°	15742.7	9956.7	1973.4	968.7	971.5	964.6	1047.5	995.0	877.5	760.1
21163.9	67.5°	16518.0	10110.0	1709.4	891.3	884.4	881.7	949.4	889.9	796.0	693.7
22049.7	70°	16682.4	9720.3	1305.9	800.1	800.1	793.2	841.6	780.8	706.2	623.2
21415.4	72.5°	15236.9	8176.8	927.3	696.5	707.5	693.7	733.8	682.7	614.9	559.7
18456.8	75°	12286.6	5996.1	674.4	590.1	609.4	585.9	623.2	587.3	529.3	527.9
12719.1	77.5°	8442.1	3707.7	489.2	486.4	500.3	469.8	512.7	493.3	440.8	417.3
5535.9	80°	3602.6	1478.6	356.5	375.9	375.9	348.2	398.0	403.5	357.9	346.9
1068.2	82.5°	717.2	420.1	250.1	258.4	243.2	234.9	281.9	312.3	431.2	479.5
322.0	85°	215.6	154.8	150.6	141.0	124.4	125.8	165.8	313.7	386.9	221.1
106.4	87.5°	59.4	38.7	40.1	31.8	26.3	34.5	56.7	237.7	129.9	55.3
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>
5244.3
5077.1
4633.5
3913.6
3124.5
2618.7
2289.8
2191.7
2153.0
2064.6
1963.7
1909.8
1882.2
1835.2
1691.5
1517.3
1330.8
1254.8
1203.6
1163.6
1141.5
1100.0
1029.5
967.3
898.2
825.0
751.8
685.4
620.5
543.1
475.4
391.1
346.9
480.9
190.7
47.0
0.0

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