

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: P955002

Luminaire Tested: **GALN-SB8A-830-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955002
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8A-830-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31854 lumens
Efficiency: N/A
Efficacy: 140.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

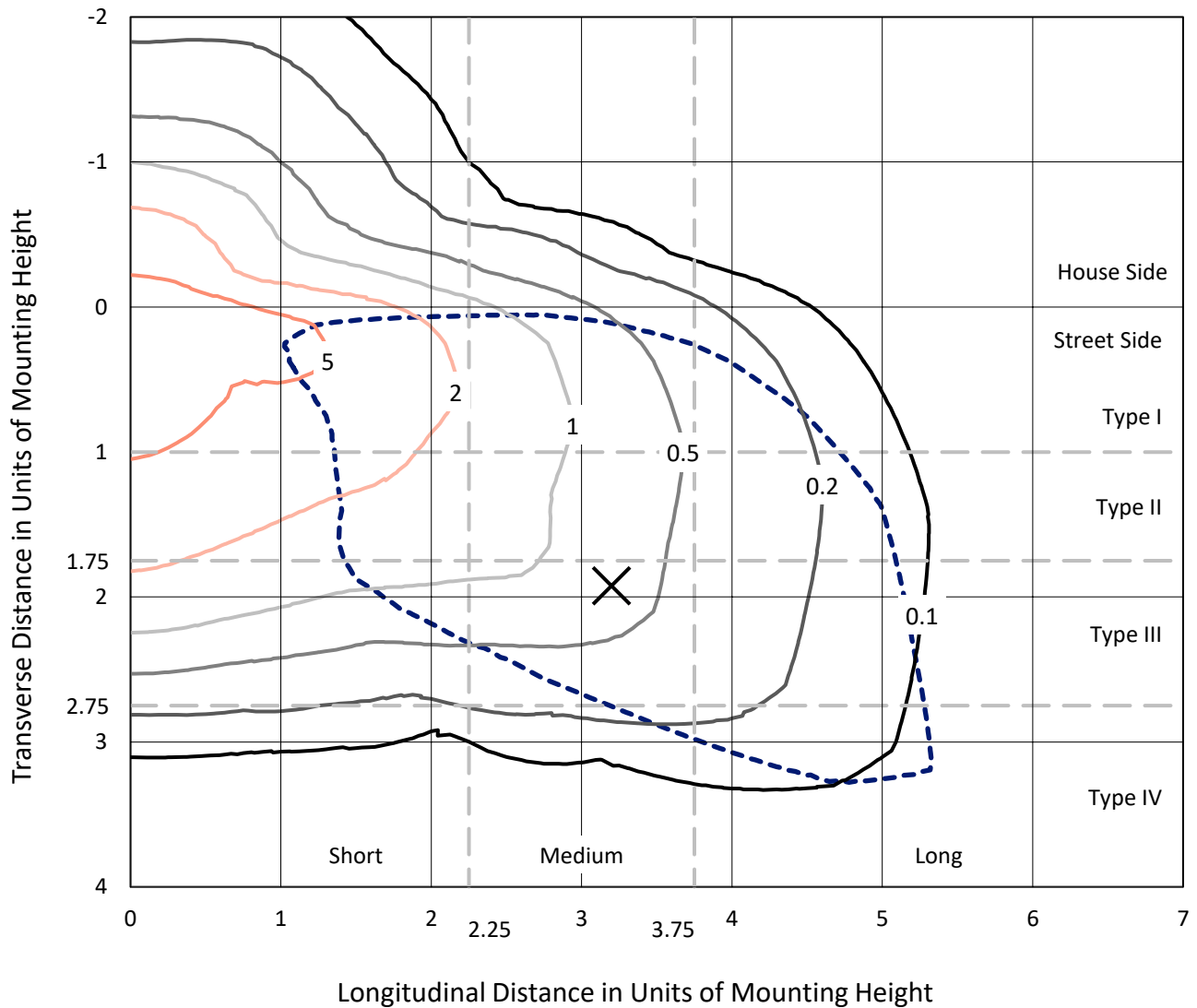
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

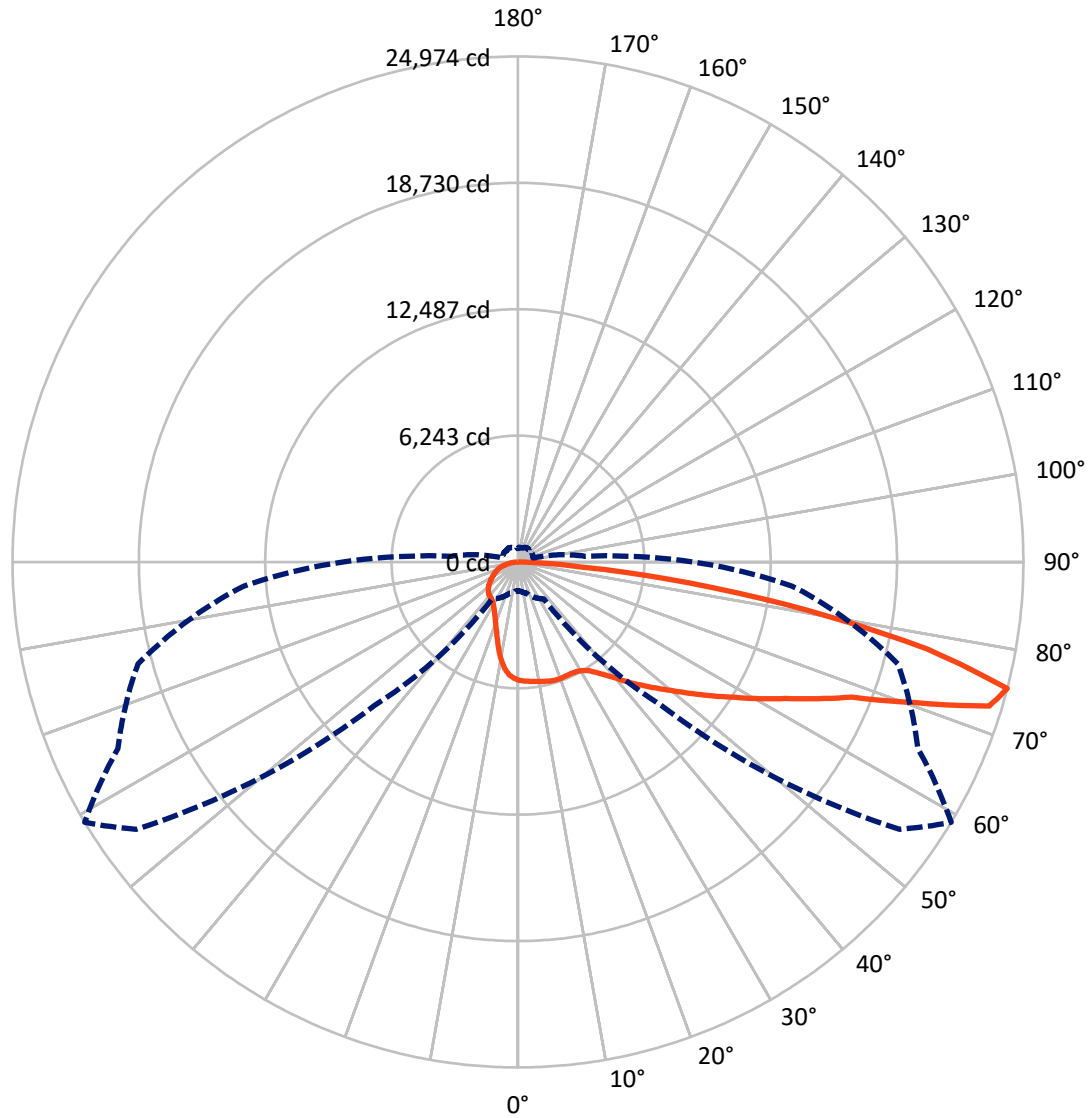
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5974.4	0.0	5974.4
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	25879.6	0.0	25879.6
	% Fixture	81.2	0.0	81.2
Total	Lumens	31854.0	0.0	31854.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	524.3	1.6
10°-20°	1340.0	4.2
20°-30°	2035.4	6.4
30°-40°	3025.6	9.5
40°-50°	4499.5	14.1
50°-60°	6107.6	19.2
60°-70°	7456.3	23.4
70°-80°	5851.6	18.4
80°-90°	1013.6	3.2
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°	31854.0	100.0
0°-180°	31854.0	100.0

Coefficient of Utilization



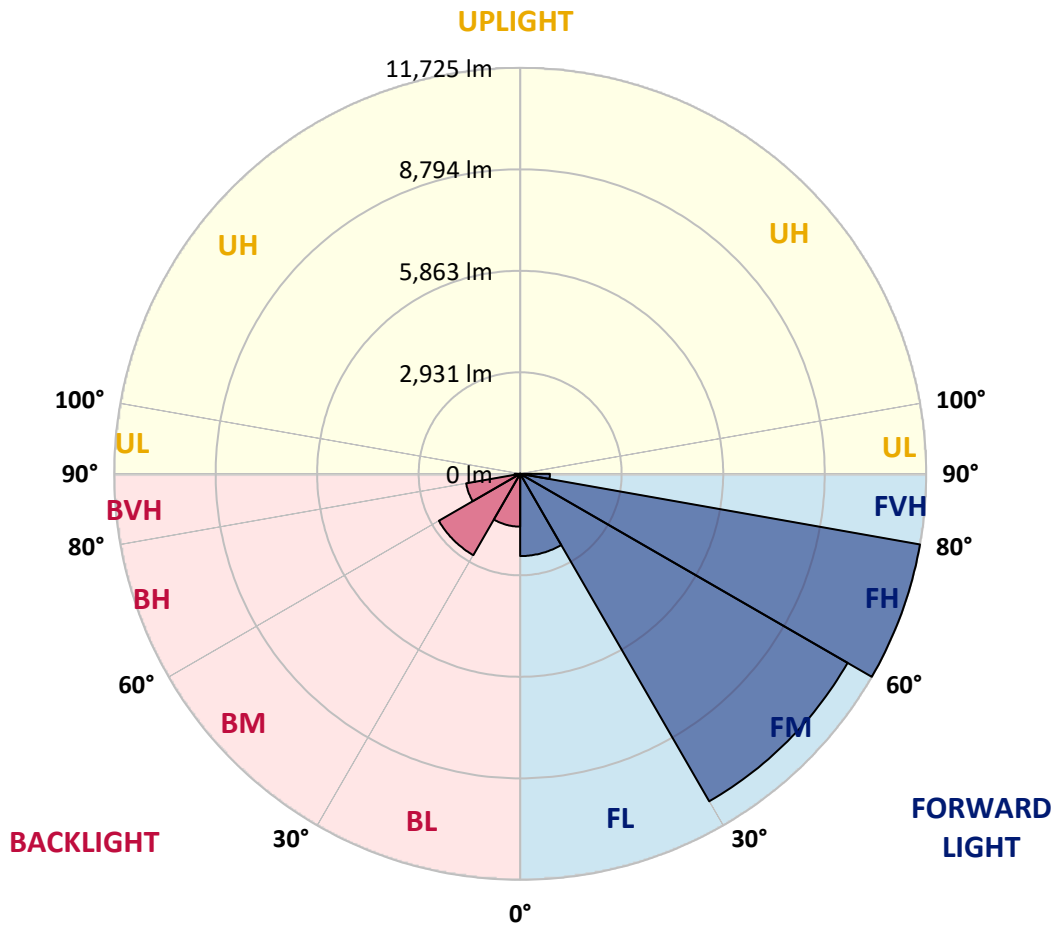
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2375.1	7.5			
FM (30°-60°)	10920.9	34.3			
FH (60°-80°)	11725.1	36.8			G4/12000
FVH (80°-90°)	858.5	2.7			G5
BL (0°-30°)	1524.6	4.8	B3/2500		
BM (30°-60°)	2711.8	8.5	B3/5000		
BH (60°-80°)	1582.9	5.0	B3/2500		G3/2500
BVH (80°-90°)	155.2	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-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	5846.7	5846.7	5846.7	5846.7	5846.7	5846.7	5846.7	5846.7	5846.7	5846.7
2.5°	5896.4	5875.9	5896.4	5887.9	5884.4	5877.6	5879.3	5891.3	5884.4	5893.0
5°	5857.0	5845.0	5865.6	5860.4	5882.7	5886.1	5908.4	5922.1	5930.7	5932.4
7.5°	5791.9	5779.9	5809.0	5833.0	5881.0	5894.7	5941.0	5963.3	5975.2	5995.8
10°	5553.7	5548.6	5620.5	5711.4	5824.5	5894.7	5965.0	6002.7	6021.5	6076.4
12.5°	5132.2	5139.0	5233.3	5408.1	5634.2	5860.4	5992.4	6047.2	6076.4	6144.9
15°	4729.5	4727.8	4830.6	5017.4	5334.4	5709.6	6006.1	6100.3	6150.0	6251.1
17.5°	4496.4	4489.6	4561.5	4703.8	4998.5	5478.3	5971.8	6129.5	6235.7	6362.5
20°	4453.6	4439.9	4477.6	4547.8	4756.9	5224.7	5882.7	6129.5	6304.3	6468.8
22.5°	4609.5	4587.3	4571.8	4563.3	4655.8	5015.6	5781.6	6108.9	6405.4	6621.3
25°	4923.1	4888.8	4810.0	4732.9	4705.5	4921.4	5692.5	6103.8	6556.2	6826.9
27.5°	5430.3	5387.5	5228.1	5043.1	4876.8	4969.4	5653.1	6134.6	6722.4	7044.5
30°	6059.2	6012.9	5812.5	5528.0	5229.8	5147.6	5702.8	6225.4	6934.9	7334.1
32.5°	6623.0	6571.6	6400.2	6110.6	5707.9	5456.0	5860.4	6398.5	7269.0	7736.8
35°	7123.3	7063.4	6909.1	6641.8	6294.0	5889.6	6144.9	6705.2	7743.7	8391.4
37.5°	7613.4	7543.2	7375.2	7092.5	6849.2	6467.0	6537.3	7099.4	8374.3	9186.5
40°	8161.8	8060.7	7856.8	7577.4	7341.0	7143.9	7053.1	7582.6	9015.1	10074.1
42.5°	8693.0	8597.0	8353.7	8115.5	7819.1	7762.5	7651.1	8148.1	9716.0	11049.2
45°	9265.3	9150.5	8855.8	8554.2	8367.4	8173.8	8230.3	8713.5	10403.1	12043.0
47.5°	9801.7	9673.2	9325.3	8989.4	8886.6	8519.9	8761.5	9335.6	11117.7	13050.6
50°	10091.3	9964.5	9674.9	9371.6	9291.0	8946.6	9337.3	10019.3	11866.5	14054.8
52.5°	10332.9	10195.8	9817.1	9649.2	9625.2	9411.0	10046.7	10800.7	12615.4	14942.4
55°	10589.9	10437.4	9954.2	9803.4	9913.1	9931.9	10888.1	11686.6	13407.0	15807.8
57.5°	10886.4	10692.7	10086.1	9933.6	10194.1	10541.9	11854.5	12605.1	14185.0	16609.7
60°	11165.7	10970.3	10339.7	10141.0	10497.4	11249.6	12963.2	13717.2	15065.8	17324.3
62.5°	11220.5	11059.4	10541.9	10540.2	10908.6	12075.6	14275.8	14839.6	15835.2	18030.3
65°	10271.2	10170.1	9863.4	10524.8	11498.1	13264.8	15737.5	16275.6	16813.6	18647.2
67.5°	7817.3	7831.1	7808.8	9085.4	11021.7	14973.3	17853.8	17812.7	18021.7	19339.4
70°	3574.5	3655.1	4179.4	6271.7	8830.1	15170.3	21352.9	20820.0	19538.2	20235.7
72.5°	1931.2	1992.9	2207.1	3038.2	5308.7	13487.6	23967.8	24346.5	21555.1	20838.8
75°	1417.1	1451.4	1600.5	1931.2	2229.4	10024.4	23030.5	24973.7	21807.0	19432.0
77.5°	1060.7	1076.1	1197.8	1530.2	1141.2	5284.7	18402.1	20682.9	18667.7	15965.4
80°	769.4	786.5	877.4	1148.1	800.2	1932.9	12635.9	14517.4	12785.0	10176.9
82.5°	531.2	538.1	577.5	781.4	558.6	750.5	7169.6	8513.1	7137.1	3571.1
85°	320.4	329.0	346.1	455.8	317.0	356.4	3094.7	3201.0	2133.4	853.4
87.5°	131.9	140.5	154.2	191.9	125.1	99.4	510.6	640.9	399.3	250.2
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°
5846.7	0°	5846.7	5846.7	5846.7	5846.7	5846.7	5846.7	5846.7	5846.7	5846.7	5846.7
5863.9	2.5°	5855.3	5843.3	5810.7	5766.2	5725.1	5673.7	5651.4	5632.5	5615.4	5582.8
5910.1	5°	5891.3	5858.7	5771.3	5658.2	5529.7	5389.2	5252.1	5157.9	5077.3	5017.4
5963.3	7.5°	5946.1	5884.4	5725.1	5493.7	5199.0	4897.4	4624.9	4431.3	4285.7	4232.5
6038.7	10°	6002.7	5929.0	5651.4	5243.6	4734.6	4270.2	3908.7	3709.9	3593.4	3555.7
6127.8	12.5°	6069.5	5961.5	5536.6	4895.7	4215.4	3706.5	3391.2	3274.6	3214.7	3194.1
6237.4	15°	6167.2	5989.0	5363.5	4460.4	3720.2	3295.2	3091.3	3010.8	2979.9	2978.2
6350.5	17.5°	6240.9	5994.1	5094.5	3994.4	3339.8	3046.7	2878.8	2848.0	2868.5	2899.4
6461.9	20°	6323.1	5947.8	4741.5	3569.4	3072.4	2829.1	2758.9	2779.4	2829.1	2873.7
6609.3	22.5°	6381.4	5863.9	4314.8	3238.7	2841.1	2704.0	2700.6	2743.4	2770.9	2793.1
6782.3	25°	6432.8	5721.6	3862.4	2961.1	2650.9	2628.6	2666.3	2652.6	2633.8	2652.6
6955.4	27.5°	6470.5	5497.2	3458.0	2717.7	2517.2	2577.2	2554.9	2524.1	2522.4	2532.7
7159.3	30°	6458.5	5197.3	3125.6	2486.4	2423.0	2481.3	2428.1	2423.0	2417.9	2423.0
7466.1	32.5°	6458.5	4856.3	2870.2	2327.0	2363.0	2340.7	2335.6	2323.6	2303.0	2301.3
7882.5	35°	6494.5	4515.3	2650.9	2241.4	2313.3	2260.2	2263.6	2234.5	2191.7	2171.1
8434.2	37.5°	6568.1	4241.1	2433.3	2200.2	2225.9	2224.2	2210.5	2160.8	2085.4	2020.3
9123.1	40°	6746.4	4160.6	2284.2	2181.4	2184.8	2205.4	2169.4	2073.4	1902.1	1795.8
9822.2	42.5°	7025.7	4295.9	2251.6	2135.1	2157.4	2178.0	2107.7	1884.9	1763.3	1699.9
10555.6	45°	7380.4	4532.4	2321.9	2068.3	2092.3	2128.3	1919.2	1813.0	1758.1	1759.8
11282.2	47.5°	7829.3	4780.9	2452.1	2010.0	1998.0	2018.6	1794.1	1729.0	1653.6	1672.5
11979.6	50°	8348.6	5032.8	2575.5	1931.2	1893.5	1826.7	1713.6	1651.9	1555.9	1511.4
12653.1	52.5°	8910.6	5276.1	2625.2	1835.2	1780.4	1703.3	1658.7	1583.3	1466.8	1393.1
13288.8	55°	9443.5	5497.2	2570.4	1720.4	1667.3	1607.3	1600.5	1554.2	1429.1	1326.3
13854.3	57.5°	9947.3	5682.2	2433.3	1603.9	1552.5	1516.5	1562.8	1540.5	1382.9	1250.9
14388.9	60°	10374.0	5809.0	2234.5	1485.7	1449.7	1430.8	1501.1	1494.2	1317.7	1170.4
14868.7	62.5°	10713.3	5858.7	2015.2	1372.6	1364.0	1329.7	1415.4	1415.4	1235.5	1091.5
15290.3	65°	10978.9	5810.7	1792.4	1261.2	1278.3	1226.9	1310.9	1300.6	1148.1	1021.3
15775.2	67.5°	11213.7	5653.1	1545.6	1151.5	1190.9	1125.8	1201.2	1177.2	1052.1	951.0
16195.0	70°	11318.2	5286.4	1264.6	1041.9	1089.8	1026.4	1091.5	1047.0	944.2	875.6
15734.1	72.5°	10478.5	4393.6	995.6	927.0	968.2	916.8	973.3	921.9	827.7	796.8
13587.0	75°	8669.0	3296.9	766.0	802.0	832.8	793.4	831.1	793.4	707.7	730.0
10036.4	77.5°	6295.7	2225.9	586.0	670.0	683.7	663.2	695.7	652.9	575.8	570.6
5001.9	80°	3130.7	1304.0	459.2	529.5	524.4	510.6	548.3	527.8	462.7	490.1
1350.3	82.5°	906.5	558.6	334.1	371.8	361.6	365.0	392.4	402.7	603.2	598.0
419.8	85°	284.5	219.3	200.5	207.3	197.1	202.2	231.3	459.2	425.0	248.5
130.2	87.5°	73.7	75.4	49.7	53.1	54.8	65.1	73.7	279.3	133.7	87.4
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>
5846.7
5567.4
4967.7
4140.0
3497.4
3199.3
2985.1
2911.4
2889.1
2805.1
2664.6
2549.8
2441.8
2323.6
2191.7
2042.6
1809.5
1699.9
1768.4
1720.4
1523.4
1391.4
1326.3
1244.1
1165.2
1086.4
1014.4
944.2
861.9
771.1
666.6
544.9
484.9
611.7
269.0
92.5
0.0

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