

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: P953469

Luminaire Tested: **GALN-SB7A-735-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953469
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-SB7A-735-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3500K, 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: 31178 lumens
Efficiency: N/A
Efficacy: 156.6 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

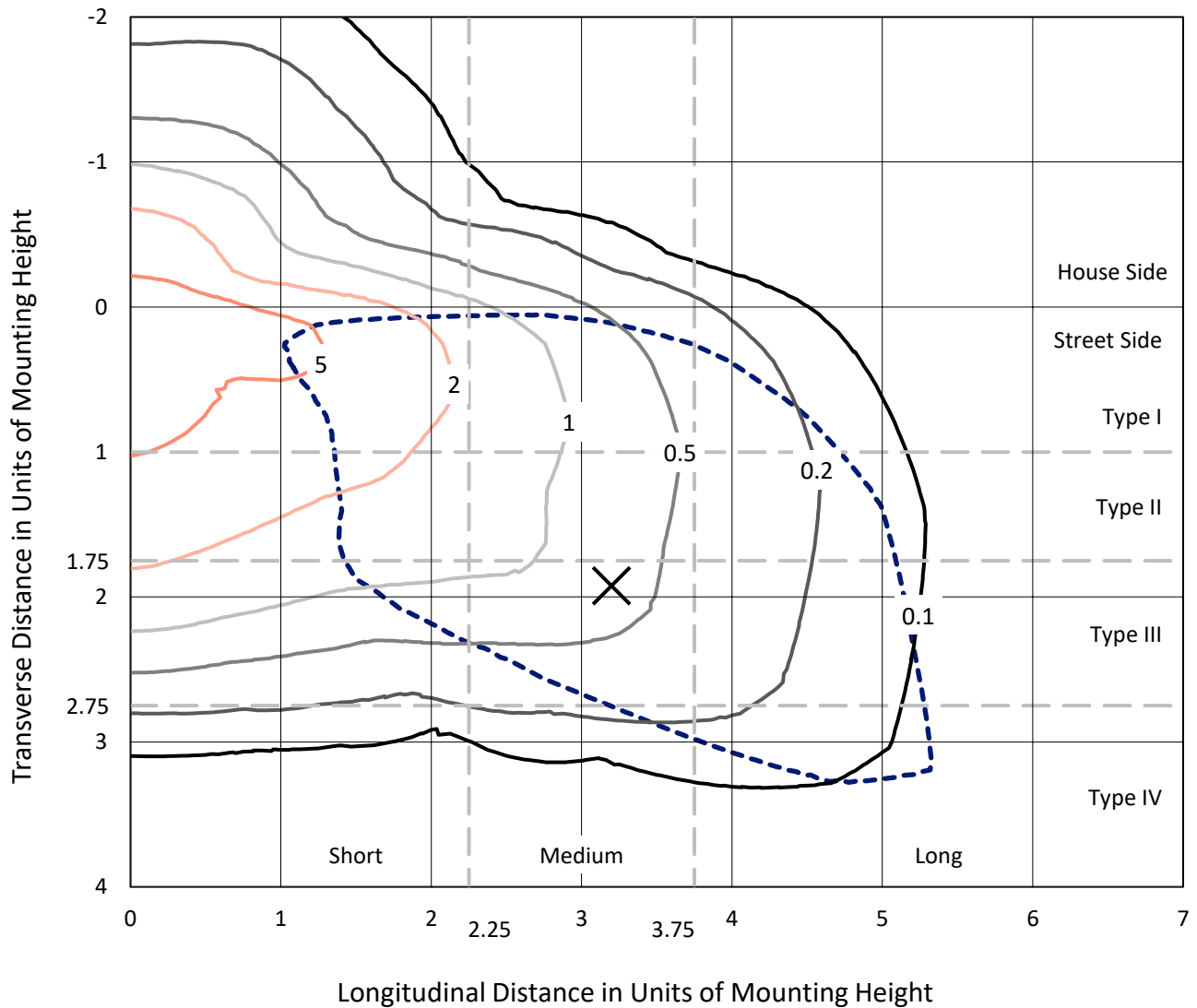
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

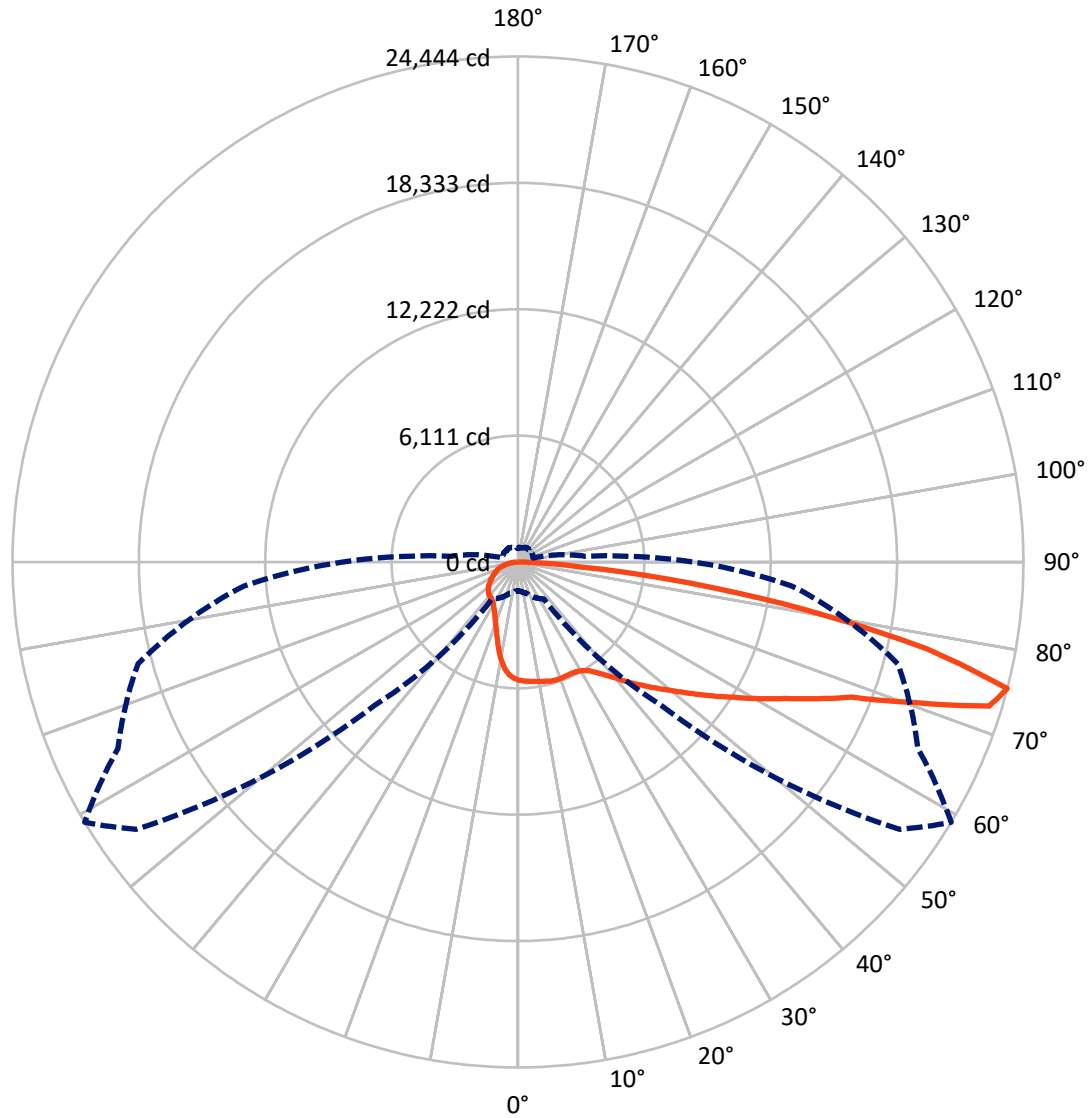
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 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	5847.6	0.0	5847.6
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	25330.3	0.0	25330.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	31178.0	0.0	31178.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	513.1	1.6
10°-20°	1311.6	4.2
20°-30°	1992.2	6.4
30°-40°	2961.3	9.5
40°-50°	4404.0	14.1
50°-60°	5978.0	19.2
60°-70°	7298.1	23.4
70°-80°	5727.5	18.4
80°-90°	992.1	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°	31178.0	100.0
0°-180°	31178.0	100.0

Coefficient of Utilization



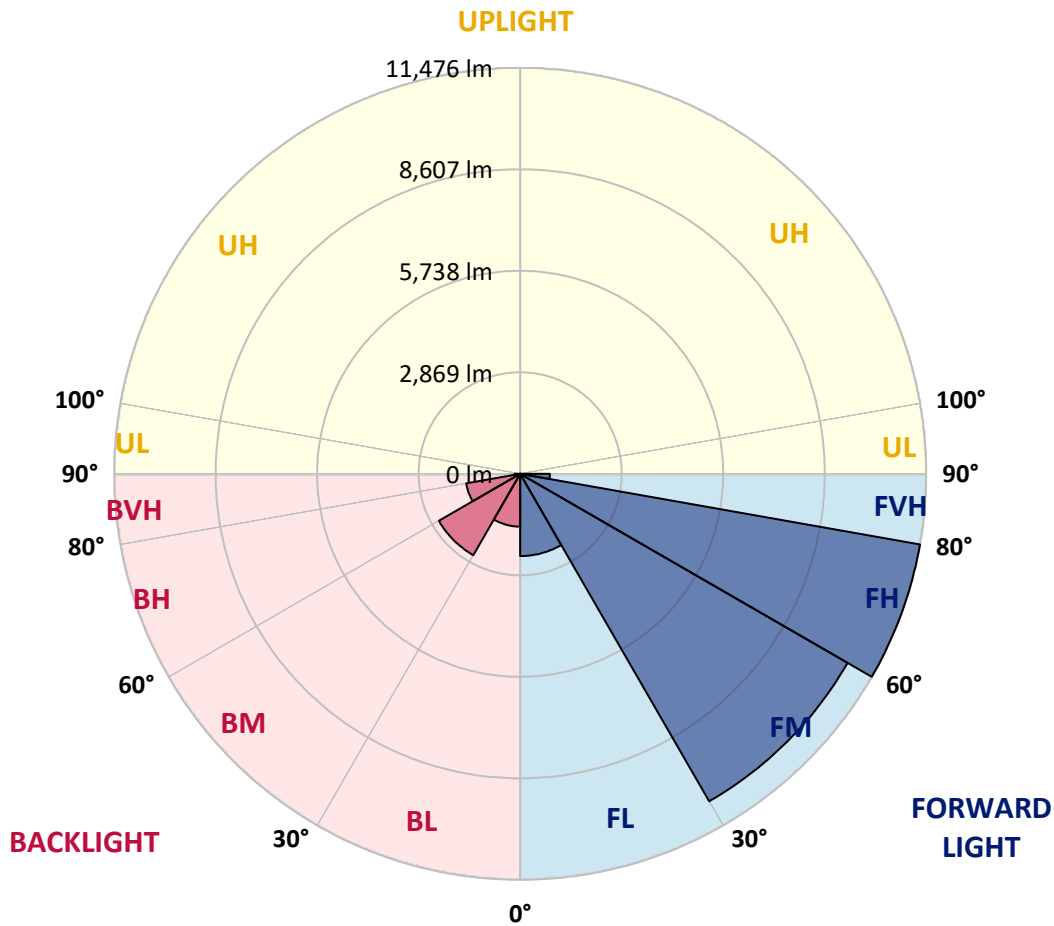
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2324.7	7.5			
FM (30°-60°)	10689.1	34.3			
FH (60°-80°)	11476.3	36.8			G4/12000
FVH (80°-90°)	840.3	2.7			G5
BL (0°-30°)	1492.3	4.8	B3/2500		
BM (30°-60°)	2654.2	8.5	B3/5000		
BH (60°-80°)	1549.3	5.0	B3/2500		G3/2500
BVH (80°-90°)	151.9	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°	5722.7	5722.7	5722.7	5722.7	5722.7	5722.7	5722.7	5722.7	5722.7	5722.7
2.5°	5771.3	5751.2	5771.3	5762.9	5759.6	5752.8	5754.5	5766.3	5759.6	5767.9
5°	5732.7	5721.0	5741.1	5736.1	5757.9	5761.2	5783.0	5796.4	5804.8	5806.5
7.5°	5669.0	5657.2	5685.8	5709.2	5756.2	5769.6	5814.9	5836.7	5848.4	5868.6
10°	5435.8	5430.8	5501.3	5590.2	5700.8	5769.6	5838.4	5875.3	5893.7	5947.4
12.5°	5023.3	5030.0	5122.2	5293.3	5514.7	5736.1	5865.2	5918.9	5947.4	6014.5
15°	4629.1	4627.4	4728.1	4910.9	5221.2	5588.5	5878.6	5970.9	6019.5	6118.5
17.5°	4401.0	4394.3	4464.7	4604.0	4892.4	5362.1	5845.1	5999.4	6103.4	6227.5
20°	4359.1	4345.7	4382.6	4451.3	4655.9	5113.8	5757.9	5999.4	6170.5	6331.5
22.5°	4511.7	4489.9	4474.8	4466.4	4557.0	4909.2	5658.9	5979.3	6269.4	6480.8
25°	4818.6	4785.1	4707.9	4632.5	4605.6	4817.0	5571.7	5974.2	6417.0	6682.0
27.5°	5315.1	5273.2	5117.2	4936.0	4773.3	4863.9	5533.1	6004.4	6579.7	6895.0
30°	5930.6	5885.3	5689.1	5410.7	5118.9	5038.3	5581.8	6093.3	6787.7	7178.5
32.5°	6482.4	6432.1	6264.4	5980.9	5586.8	5340.2	5736.1	6262.7	7114.7	7572.6
35°	6972.2	6913.5	6762.5	6500.9	6160.4	5764.6	6014.5	6562.9	7579.3	8213.3
37.5°	7451.9	7383.1	7218.7	6942.0	6703.8	6329.8	6398.6	6948.7	8196.5	8991.5
40°	7988.6	7889.6	7690.0	7416.6	7185.2	6992.3	6903.4	7421.7	8823.8	9860.3
42.5°	8508.5	8414.6	8176.4	7943.3	7653.1	7597.8	7488.8	7975.2	9509.8	10814.7
45°	9068.7	8956.3	8667.8	8372.6	8189.8	8000.3	8055.7	8528.6	10182.4	11787.5
47.5°	9593.7	9467.9	9127.4	8798.7	8698.0	8339.1	8575.6	9137.5	10881.8	12773.7
50°	9877.1	9753.0	9469.5	9172.7	9093.9	8756.7	9139.1	9806.7	11614.7	13756.5
52.5°	10113.6	9979.4	9608.8	9444.4	9420.9	9211.3	9833.5	10571.5	12347.6	14625.3
55°	10365.2	10215.9	9742.9	9595.3	9702.7	9721.1	10657.0	11438.6	13122.5	15472.3
57.5°	10655.3	10465.8	9872.1	9722.8	9977.7	10318.2	11603.0	12337.6	13884.0	16257.2
60°	10928.7	10737.5	10120.3	9925.7	10274.6	11010.9	12688.1	13426.1	14746.1	16956.6
62.5°	10982.4	10824.7	10318.2	10316.5	10677.1	11819.3	13972.9	14524.7	15499.1	17647.6
65°	10053.2	9954.3	9654.0	10301.4	11254.1	12983.3	15403.5	15930.2	16456.8	18251.4
67.5°	7651.4	7664.9	7643.1	8892.6	10787.8	14655.5	17474.9	17434.6	17639.3	18929.0
70°	3498.7	3577.5	4090.7	6138.6	8642.7	14848.4	20899.8	20378.1	19123.6	19806.2
72.5°	1890.2	1950.6	2160.3	2973.7	5196.0	13201.3	23459.2	23829.8	21097.7	20396.6
75°	1387.1	1420.6	1566.5	1890.2	2182.1	9811.7	22541.7	24443.7	21344.2	19019.6
77.5°	1038.2	1053.3	1172.4	1497.8	1117.0	5172.5	18011.6	20244.0	18271.6	15626.6
80°	753.1	769.8	858.7	1123.7	783.3	1891.9	12367.8	14209.4	12513.7	9961.0
82.5°	519.9	526.6	565.2	764.8	546.8	734.6	7017.5	8332.4	6985.6	3495.3
85°	313.6	322.0	338.8	446.1	310.3	348.9	3029.0	3133.0	2088.1	835.3
87.5°	129.1	137.5	150.9	187.8	122.4	97.3	499.8	627.3	390.8	244.9
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°
5722.7	0°	5722.7	5722.7	5722.7	5722.7	5722.7	5722.7	5722.7	5722.7	5722.7	5722.7
5739.4	2.5°	5731.0	5719.3	5687.4	5643.8	5603.6	5553.3	5531.5	5513.0	5496.2	5464.4
5784.7	5°	5766.3	5734.4	5648.9	5538.2	5412.4	5274.8	5140.7	5048.4	4969.6	4910.9
5836.7	7.5°	5819.9	5759.6	5603.6	5377.1	5088.7	4793.5	4526.8	4337.3	4194.7	4142.7
5910.5	10°	5875.3	5803.2	5531.5	5132.3	4634.1	4179.6	3825.7	3631.2	3517.1	3480.2
5997.7	12.5°	5940.7	5835.0	5419.1	4791.8	4125.9	3627.8	3319.2	3205.2	3146.5	3126.3
6105.1	15°	6036.3	5861.9	5249.7	4365.8	3641.2	3225.3	3025.7	2946.9	2916.7	2915.0
6215.8	17.5°	6108.4	5866.9	4986.4	3909.6	3268.9	2982.1	2817.7	2787.5	2807.7	2837.8
6324.8	20°	6188.9	5821.6	4640.8	3493.6	3007.2	2769.1	2700.3	2720.4	2769.1	2812.7
6469.0	22.5°	6245.9	5739.4	4223.2	3169.9	2780.8	2646.6	2643.3	2685.2	2712.1	2733.9
6638.4	25°	6296.3	5600.2	3780.4	2898.2	2594.6	2572.8	2609.7	2596.3	2577.9	2596.3
6807.8	27.5°	6333.2	5380.5	3384.6	2660.1	2463.8	2522.5	2500.7	2470.5	2468.9	2478.9
7007.4	30°	6321.4	5087.0	3059.2	2433.6	2371.6	2428.6	2376.6	2371.6	2366.5	2371.6
7307.6	32.5°	6321.4	4753.2	2809.3	2277.7	2312.9	2291.1	2286.0	2274.3	2254.2	2252.5
7715.2	35°	6356.6	4419.5	2594.6	2193.8	2264.2	2212.2	2215.6	2187.1	2145.2	2125.0
8255.2	37.5°	6428.8	4151.1	2381.6	2153.5	2178.7	2177.0	2163.6	2115.0	2041.2	1977.4
8929.5	40°	6603.2	4072.3	2235.7	2135.1	2138.4	2158.6	2123.4	2029.4	1861.7	1757.7
9613.8	42.5°	6876.6	4204.8	2203.9	2089.8	2111.6	2131.7	2063.0	1844.9	1725.9	1663.8
10331.6	45°	7223.8	4436.2	2272.6	2024.4	2047.9	2083.1	1878.5	1774.5	1720.8	1722.5
11042.8	47.5°	7663.2	4679.4	2400.1	1967.4	1955.6	1975.8	1756.0	1692.3	1618.5	1637.0
11725.4	50°	8171.4	4926.0	2520.9	1890.2	1853.3	1787.9	1677.2	1616.8	1522.9	1479.3
12384.5	52.5°	8721.5	5164.1	2569.5	1796.3	1742.6	1667.2	1623.5	1549.7	1435.7	1363.6
13006.8	55°	9243.1	5380.5	2515.8	1683.9	1631.9	1573.2	1566.5	1521.2	1398.8	1298.2
13560.3	57.5°	9736.2	5561.6	2381.6	1569.9	1519.6	1484.3	1529.6	1507.8	1353.5	1224.4
14083.6	60°	10153.9	5685.8	2187.1	1454.1	1418.9	1400.5	1469.2	1462.5	1289.8	1145.5
14553.2	62.5°	10485.9	5734.4	1972.4	1343.4	1335.1	1301.5	1385.4	1385.4	1209.3	1068.4
14965.8	65°	10745.9	5687.4	1754.4	1234.4	1251.2	1200.9	1283.1	1273.0	1123.7	999.6
15440.4	67.5°	10975.7	5533.1	1512.8	1127.1	1165.7	1101.9	1175.7	1152.2	1029.8	930.9
15851.3	70°	11078.0	5174.2	1237.8	1019.7	1066.7	1004.7	1068.4	1024.8	924.1	857.1
15400.2	72.5°	10256.2	4300.4	974.5	907.4	947.6	897.3	952.7	902.3	810.1	779.9
13298.6	75°	8485.0	3227.0	749.7	784.9	815.1	776.5	813.4	776.5	692.7	714.5
9823.4	77.5°	6162.1	2178.7	573.6	655.8	669.2	649.1	680.9	639.0	563.5	558.5
4895.8	80°	3064.3	1276.4	449.5	518.3	513.2	499.8	536.7	516.6	452.8	479.7
1321.6	82.5°	887.2	546.8	327.1	364.0	353.9	357.2	384.1	394.1	590.4	585.3
410.9	85°	278.4	214.7	196.2	202.9	192.9	197.9	226.4	449.5	415.9	243.2
127.5	87.5°	72.1	73.8	48.6	52.0	53.7	63.7	72.1	273.4	130.8	85.5
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>
5722.7
5449.3
4862.2
4052.1
3423.2
3131.4
2921.7
2849.6
2827.8
2745.6
2608.1
2495.7
2390.0
2274.3
2145.2
1999.2
1771.1
1663.8
1730.9
1683.9
1491.0
1361.9
1298.2
1217.7
1140.5
1063.4
992.9
924.1
843.6
754.7
652.4
533.4
474.7
598.8
263.3
90.6
0.0

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