

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: P954183

Luminaire Tested: **GALN-SB7C-735-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954183
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-SB7C-735-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52053 lumens
Efficiency: N/A
Efficacy: 148.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

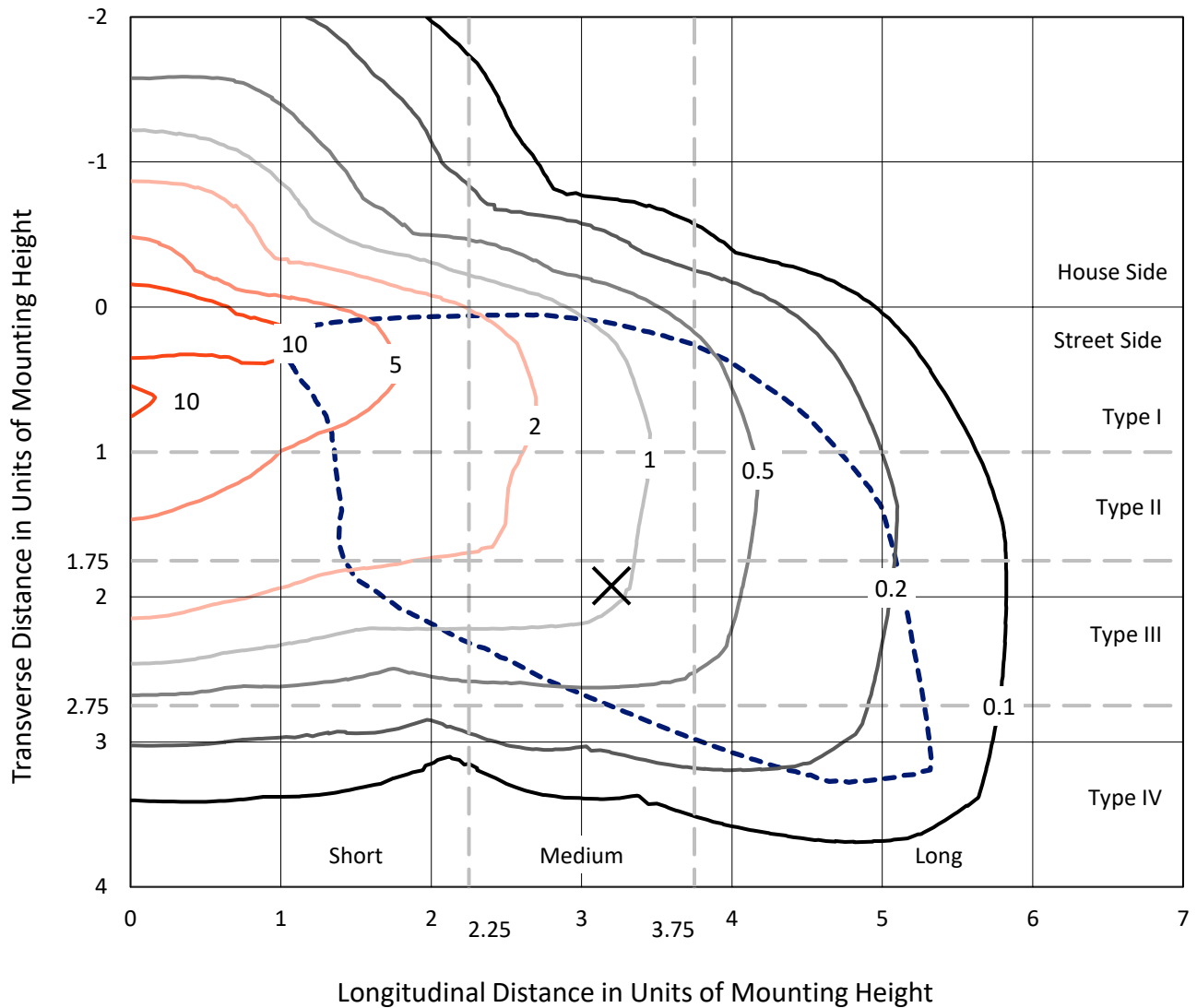
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

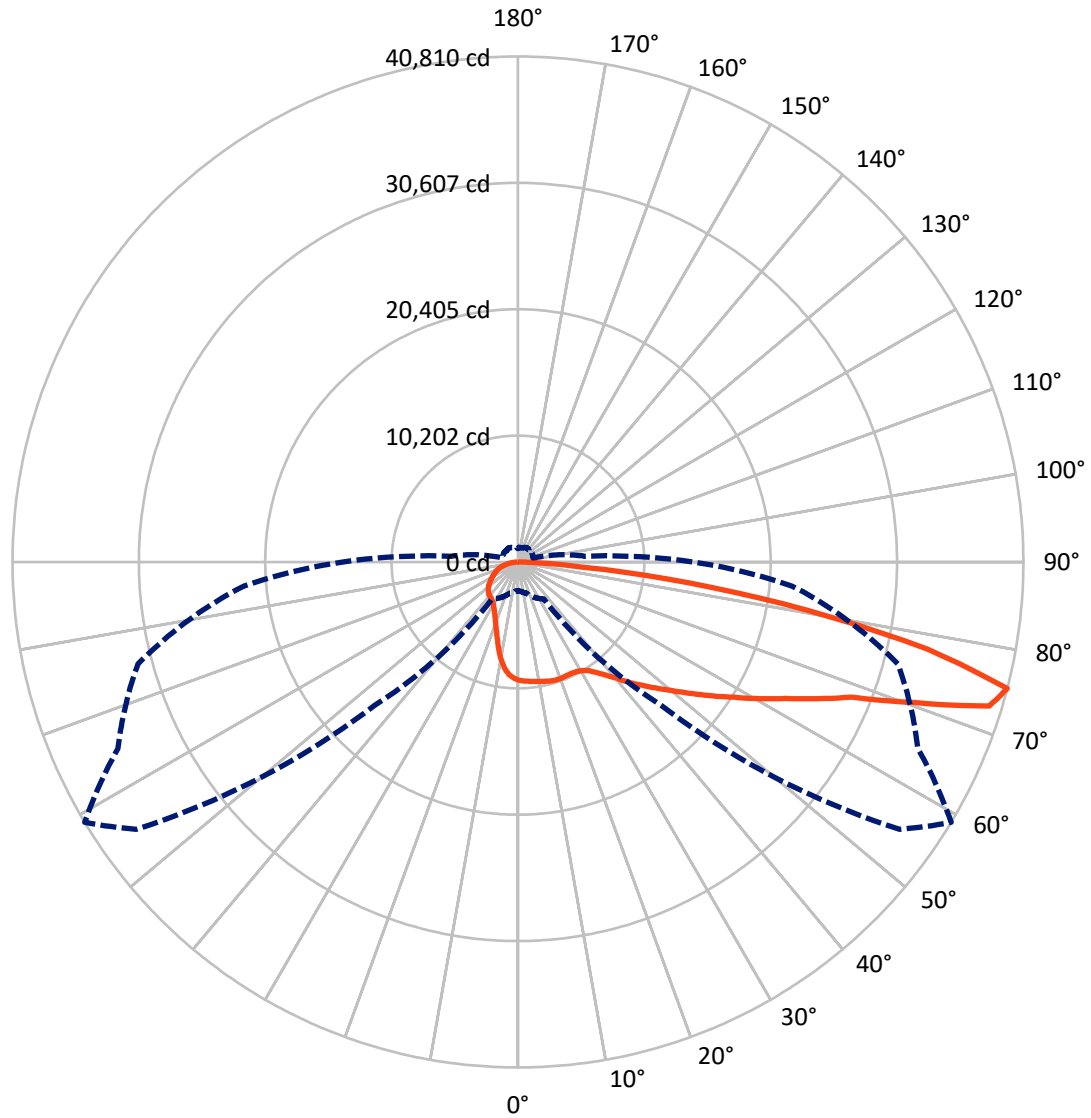
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 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	9762.9	0.0	9762.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	42290.1	0.0	42290.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	52053.0	0.0	52053.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	856.7	1.6
10°-20°	2189.7	4.2
20°-30°	3326.1	6.4
30°-40°	4944.1	9.5
40°-50°	7352.7	14.1
50°-60°	9980.5	19.2
60°-70°	12184.5	23.4
70°-80°	9562.3	18.4
80°-90°	1656.4	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°	52053.0	100.0
0°-180°	52053.0	100.0

Coefficient of Utilization

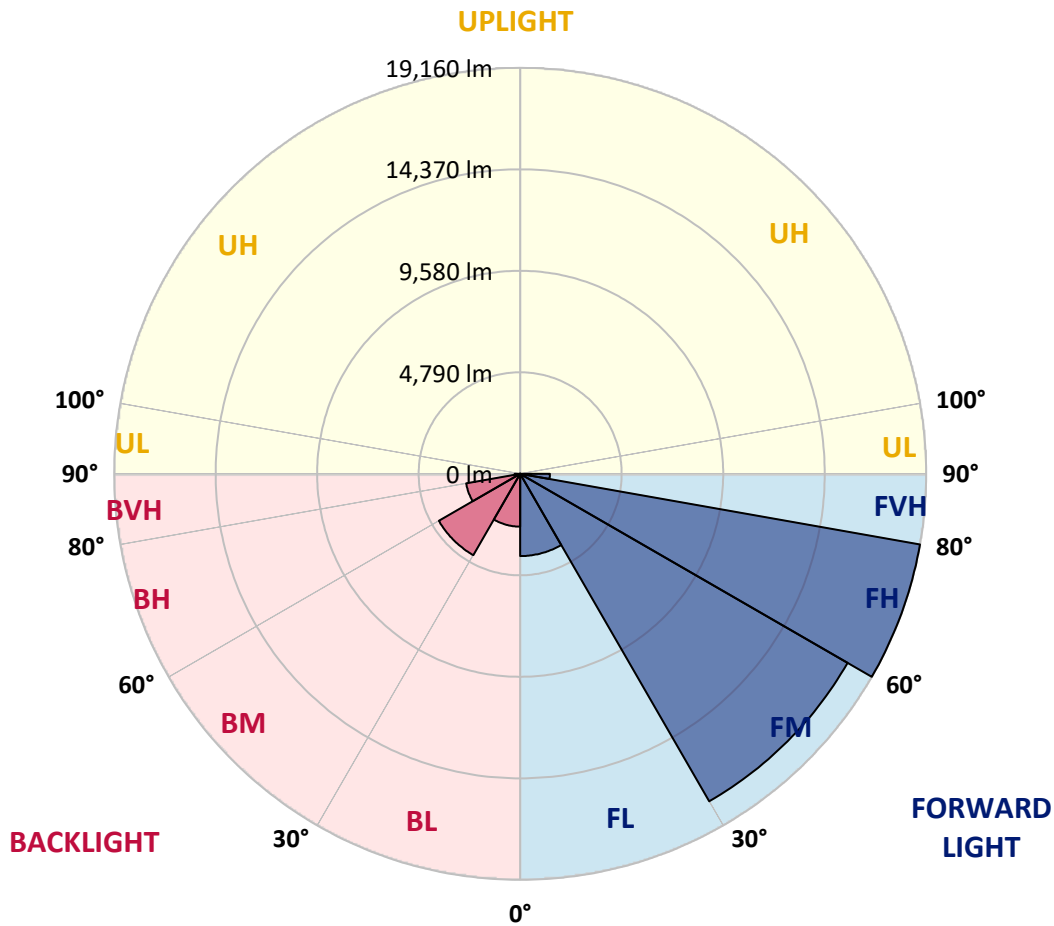


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3881.1	7.5			
FM (30°-60°)	17845.9	34.3			
FH (60°-80°)	19160.2	36.8			G5
FVH (80°-90°)	1402.9	2.7			G5
BL (0°-30°)	2491.4	4.8	B3/2500		
BM (30°-60°)	4431.4	8.5	B3/5000		
BH (60°-80°)	2586.6	5.0	B4/5000		G4/5000
BVH (80°-90°)	253.6	0.5			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	9554.2	9554.2	9554.2	9554.2	9554.2	9554.2	9554.2	9554.2	9554.2	9554.2
2.5°	9635.4	9601.8	9635.4	9621.4	9615.8	9604.6	9607.4	9627.0	9615.8	9629.8
5°	9571.0	9551.4	9585.0	9576.6	9613.0	9618.6	9655.0	9677.4	9691.4	9694.2
7.5°	9464.6	9445.0	9492.6	9531.8	9610.2	9632.6	9708.2	9744.6	9764.2	9797.8
10°	9075.4	9067.0	9184.6	9333.0	9517.8	9632.6	9747.4	9809.0	9839.8	9929.4
12.5°	8386.5	8397.7	8551.7	8837.4	9207.0	9576.6	9792.2	9881.8	9929.4	10041.4
15°	7728.5	7725.7	7893.7	8198.9	8717.0	9330.2	9814.6	9968.6	10049.8	10215.1
17.5°	7347.7	7336.5	7454.1	7686.5	8168.1	8952.2	9758.6	10016.2	10189.9	10397.1
20°	7277.7	7255.3	7316.9	7431.7	7773.3	8537.7	9613.0	10016.2	10301.9	10570.7
22.5°	7532.5	7496.1	7470.9	7456.9	7608.1	8196.1	9447.8	9982.6	10467.1	10819.9
25°	8044.9	7988.9	7860.1	7734.1	7689.3	8042.1	9302.2	9974.2	10713.5	11155.9
27.5°	8873.8	8803.8	8543.3	8240.9	7969.3	8120.5	9237.8	10024.6	10985.1	11511.5
30°	9901.4	9825.8	9498.2	9033.4	8546.1	8411.7	9319.0	10173.1	11332.3	11984.8
32.5°	10822.7	10738.7	10458.7	9985.4	9327.4	8915.8	9576.6	10455.9	11878.4	12642.8
35°	11640.3	11542.3	11290.3	10853.5	10285.1	9624.2	10041.4	10957.1	12654.0	13712.5
37.5°	12441.2	12326.4	12052.0	11589.9	11192.3	10567.9	10682.7	11601.1	13684.5	15011.8
40°	13337.3	13172.0	12838.8	12382.4	11996.0	11673.9	11525.5	12390.8	14731.7	16462.3
42.5°	14205.3	14048.5	13650.9	13261.6	12777.2	12684.8	12502.8	13314.9	15877.0	18055.6
45°	15140.6	14953.0	14471.3	13978.5	13673.3	13356.9	13449.3	14238.9	16999.9	19679.7
47.5°	16017.0	15807.0	15238.6	14689.7	14521.7	13922.5	14317.3	15255.4	18167.6	21326.2
50°	16490.3	16283.0	15809.8	15314.2	15182.6	14619.7	15258.2	16372.6	19391.2	22967.1
52.5°	16885.1	16661.1	16042.2	15767.8	15728.6	15378.6	16417.5	17649.5	20614.9	24417.6
55°	17305.1	17055.9	16266.2	16019.8	16199.0	16229.8	17792.3	19097.2	21908.6	25831.7
57.5°	17789.5	17473.1	16481.9	16232.6	16658.3	17226.7	19371.6	20598.1	23179.9	27142.1
60°	18246.0	17926.7	16896.3	16571.5	17153.9	18383.2	21183.4	22415.4	24619.2	28309.8
62.5°	18335.6	18072.4	17226.7	17223.9	17825.9	19732.9	23328.3	24249.6	25876.5	29463.5
65°	16784.3	16619.1	16117.8	17198.7	18789.2	21676.2	25716.8	26596.1	27475.4	30471.6
67.5°	12774.4	12796.8	12760.4	14846.6	18010.8	24468.0	29175.1	29107.9	29449.5	31602.8
70°	5841.2	5972.8	6829.6	10248.7	14429.3	24790.0	34893.0	34022.2	31927.6	33067.3
72.5°	3155.8	3256.6	3606.6	4964.7	8675.0	22040.2	39166.1	39784.9	35223.5	34053.0
75°	2315.7	2371.8	2615.4	3155.8	3643.0	16381.0	37634.4	40809.8	35635.1	31754.0
77.5°	1733.3	1758.5	1957.3	2500.6	1864.9	8635.8	30071.1	33798.2	30505.2	26089.3
80°	1257.3	1285.3	1433.7	1876.1	1307.7	3158.6	20648.5	23723.1	20892.1	16630.3
82.5°	868.1	879.3	943.7	1276.9	912.9	1226.5	11716.0	13911.3	11662.7	5835.6
85°	523.6	537.6	565.6	744.8	518.0	582.4	5057.1	5230.7	3486.2	1394.5
87.5°	215.6	229.6	252.0	313.6	204.4	162.4	834.5	1047.3	652.4	408.8
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°
9554.2	0°	9554.2	9554.2	9554.2	9554.2	9554.2	9554.2	9554.2	9554.2	9554.2	9554.2
9582.2	2.5°	9568.2	9548.6	9495.4	9422.6	9355.4	9271.4	9235.0	9204.2	9176.2	9123.0
9657.8	5°	9627.0	9573.8	9431.0	9246.2	9036.2	8806.6	8582.5	8428.5	8296.9	8198.9
9744.6	7.5°	9716.6	9615.8	9355.4	8977.4	8495.7	8002.9	7557.7	7241.3	7003.2	6916.4
9867.8	10°	9809.0	9688.6	9235.0	8568.5	7736.9	6978.0	6387.2	6062.4	5872.0	5810.4
10013.4	12.5°	9918.2	9741.8	9047.4	8000.1	6888.4	6056.8	5541.6	5351.1	5253.1	5219.5
10192.7	15°	10077.8	9786.6	8764.6	7288.9	6079.2	5384.7	5051.5	4919.9	4869.5	4866.7
10377.5	17.5°	10198.3	9795.0	8324.9	6527.2	5457.5	4978.7	4704.3	4653.9	4687.5	4737.9
10559.5	20°	10332.7	9719.4	7748.1	5832.8	5020.7	4623.1	4508.3	4541.9	4623.1	4695.9
10800.3	22.5°	10427.9	9582.2	7050.9	5292.3	4642.7	4418.7	4413.1	4483.1	4527.9	4564.3
11083.1	25°	10511.9	9349.8	6311.6	4838.7	4331.9	4295.5	4357.1	4334.7	4303.9	4334.7
11365.9	27.5°	10573.5	8983.0	5650.8	4441.1	4113.5	4211.5	4175.1	4124.7	4121.9	4138.7
11699.1	30°	10553.9	8492.9	5107.5	4063.1	3959.5	4054.7	3967.9	3959.5	3951.1	3959.5
12200.4	32.5°	10553.9	7935.7	4690.3	3802.6	3861.4	3825.0	3816.6	3797.0	3763.4	3760.6
12880.8	35°	10612.7	7378.5	4331.9	3662.6	3780.2	3693.4	3699.0	3651.4	3581.4	3547.8
13782.5	37.5°	10733.1	6930.4	3976.3	3595.4	3637.4	3634.6	3612.2	3531.0	3407.8	3301.4
14908.2	40°	11024.3	6798.8	3732.6	3564.6	3570.2	3603.8	3545.0	3388.2	3108.2	2934.6
16050.6	42.5°	11480.7	7020.0	3679.4	3489.0	3525.4	3559.0	3444.2	3080.2	2881.4	2777.8
17249.1	45°	12060.4	7406.5	3794.2	3379.8	3419.0	3477.8	3136.2	2962.6	2873.0	2875.8
18436.4	47.5°	12794.0	7812.5	4007.1	3284.6	3265.0	3298.6	2931.8	2825.4	2702.2	2733.0
19576.1	50°	13642.5	8224.1	4208.7	3155.8	3094.2	2985.0	2800.2	2699.4	2542.6	2469.8
20676.5	52.5°	14560.9	8621.8	4289.9	2999.0	2909.4	2783.4	2710.6	2587.4	2397.0	2276.5
21715.4	55°	15431.8	8983.0	4200.3	2811.4	2724.6	2626.6	2615.4	2539.8	2335.3	2167.3
22639.5	57.5°	16255.0	9285.4	3976.3	2621.0	2537.0	2478.2	2553.8	2517.4	2259.7	2044.1
23513.1	60°	16952.3	9492.6	3651.4	2427.8	2369.0	2338.1	2453.0	2441.8	2153.3	1912.5
24297.2	62.5°	17506.7	9573.8	3293.0	2242.9	2228.9	2172.9	2312.9	2312.9	2018.9	1783.7
24986.0	65°	17940.7	9495.4	2929.0	2060.9	2088.9	2004.9	2142.1	2125.3	1876.1	1668.9
25778.5	67.5°	18324.4	9237.8	2525.8	1881.7	1946.1	1839.7	1962.9	1923.7	1719.3	1554.1
26464.5	70°	18495.2	8638.6	2066.5	1702.5	1780.9	1677.3	1783.7	1710.9	1542.9	1430.9
25711.2	72.5°	17123.1	7179.7	1626.9	1514.9	1582.1	1498.1	1590.5	1506.5	1352.5	1302.1
22202.6	75°	14166.1	5387.5	1251.7	1310.5	1360.9	1296.5	1358.1	1296.5	1156.5	1192.9
16400.7	77.5°	10287.9	3637.4	957.7	1094.9	1117.3	1083.7	1136.9	1066.9	940.9	932.5
8173.7	80°	5115.9	2130.9	750.4	865.3	856.9	834.5	896.1	862.5	756.0	800.9
2206.5	82.5°	1481.3	912.9	546.0	607.6	590.8	596.4	641.2	658.0	985.7	977.3
686.0	85°	464.8	358.4	327.6	338.8	322.0	330.4	378.0	750.4	694.4	406.0
212.8	87.5°	120.4	123.2	81.2	86.8	89.6	106.4	120.4	456.4	218.4	142.8
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>
9554.2
9097.8
8117.7
6765.2
5715.2
5227.9
4877.9
4757.5
4721.1
4583.9
4354.3
4166.7
3990.3
3797.0
3581.4
3337.8
2957.0
2777.8
2889.8
2811.4
2489.4
2273.7
2167.3
2032.9
1904.1
1775.3
1657.7
1542.9
1408.5
1260.1
1089.3
890.5
792.5
999.7
439.6
151.2
0.0

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