

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: P954813

Luminaire Tested: **GALN-SB7D-950-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954813
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-SB7D-950-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49202 lumens
Efficiency: N/A
Efficacy: 95.9 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

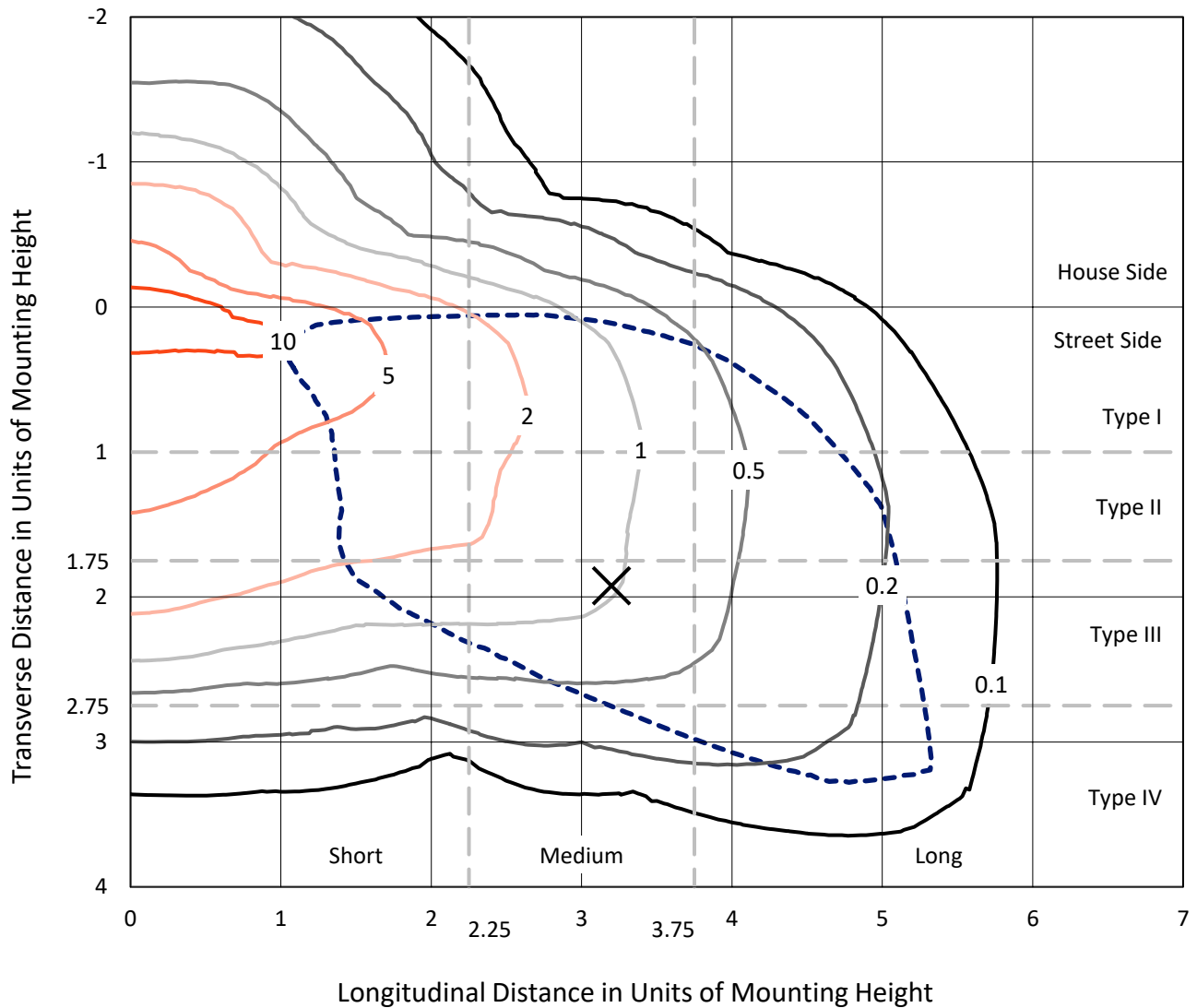
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

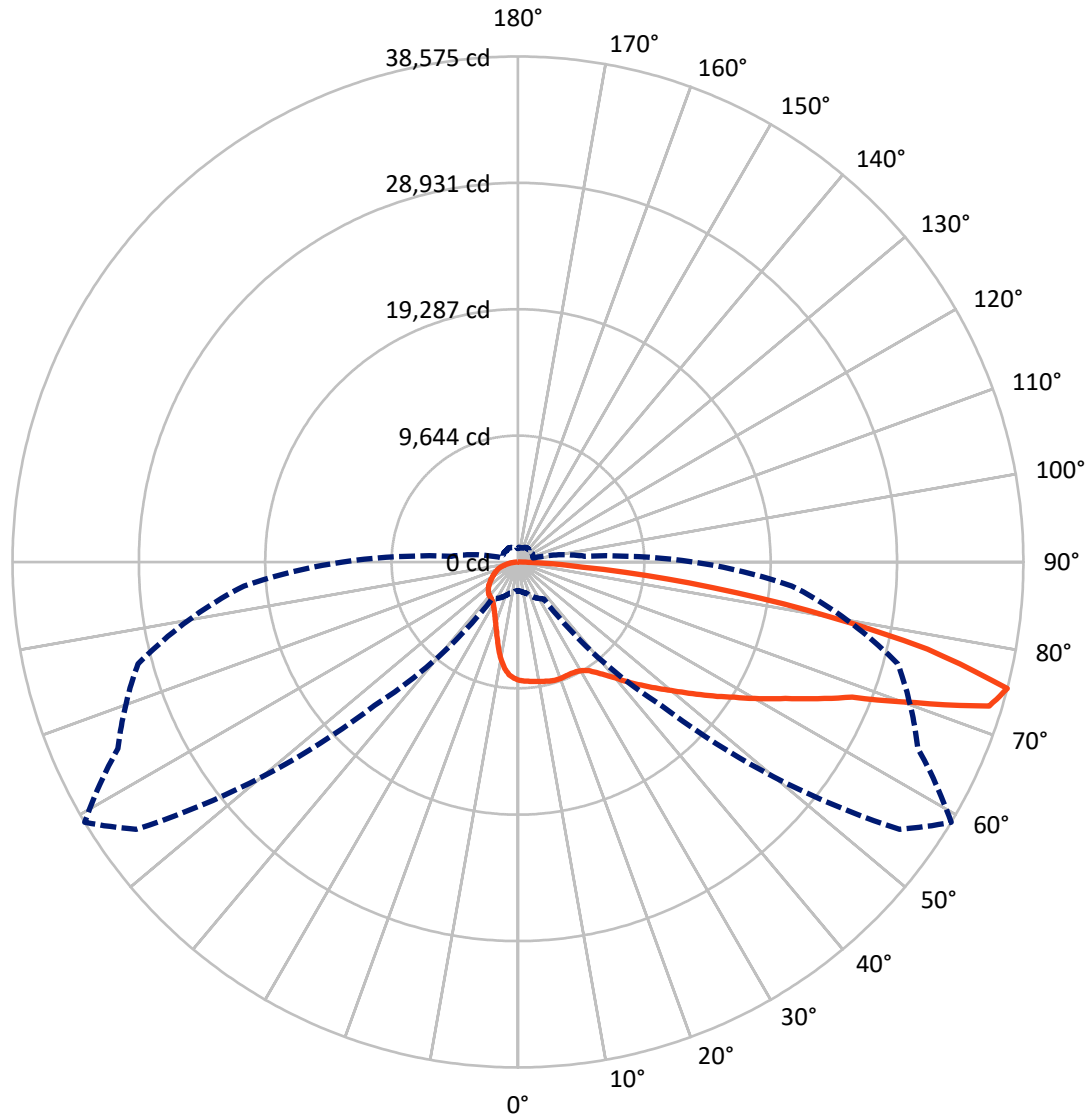
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 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	9228.2	0.0	9228.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	39973.8	0.0	39973.8
	% Fixture	81.2	0.0	81.2
Total	Lumens	49202.0	0.0	49202.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	809.8	1.6
10°-20°	2069.8	4.2
20°-30°	3143.9	6.4
30°-40°	4673.3	9.5
40°-50°	6950.0	14.1
50°-60°	9433.8	19.2
60°-70°	11517.2	23.4
70°-80°	9038.5	18.4
80°-90°	1565.7	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°	49202.0	100.0
0°-180°	49202.0	100.0

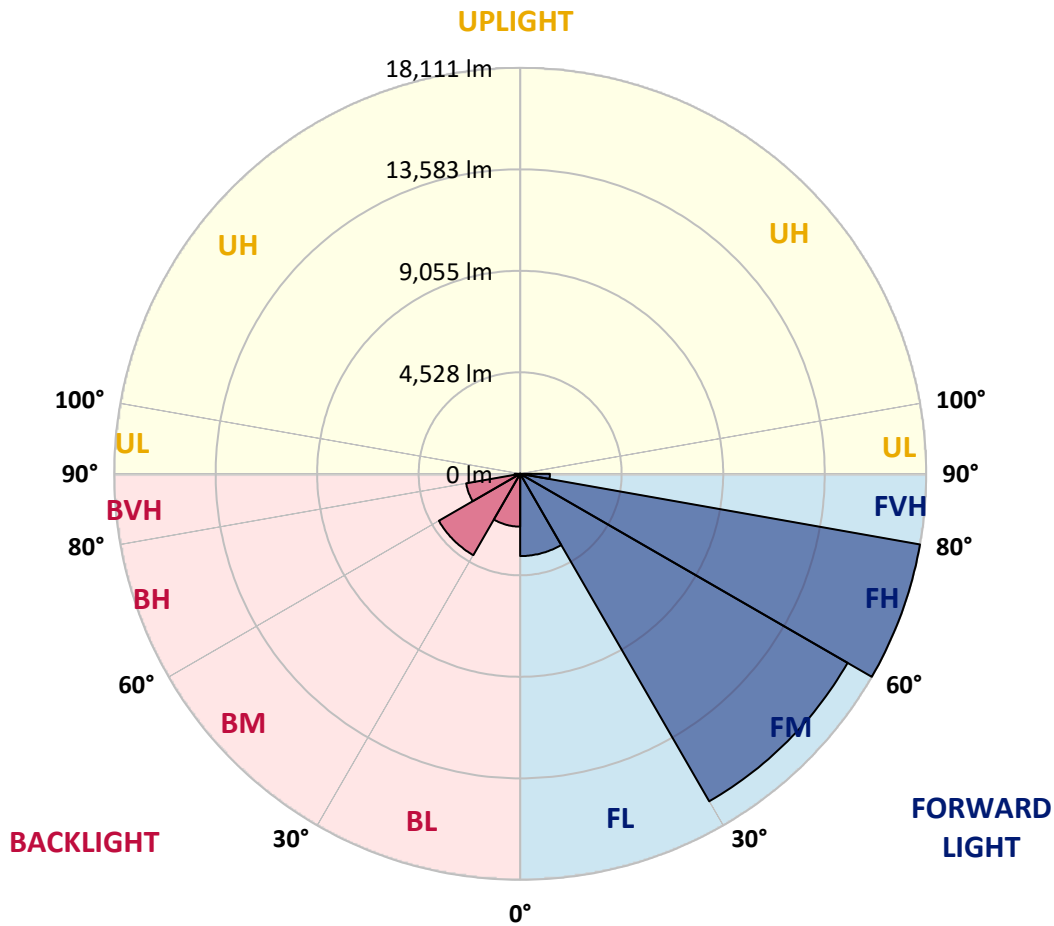


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3668.5	7.5			
FM (30°-60°)	16868.5	34.3			
FH (60°-80°)	18110.8	36.8			G5
FVH (80°-90°)	1326.0	2.7			G5
BL (0°-30°)	2354.9	4.8	B3/2500		
BM (30°-60°)	4188.7	8.5	B3/5000		
BH (60°-80°)	2444.9	5.0	B3/2500		G3/2500
BVH (80°-90°)	239.7	0.5			G3/500
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°	9030.9	9030.9	9030.9	9030.9	9030.9	9030.9	9030.9	9030.9	9030.9	9030.9
2.5°	9107.7	9075.9	9107.7	9094.4	9089.1	9078.6	9081.2	9099.7	9089.1	9102.4
5°	9046.8	9028.3	9060.0	9052.1	9086.5	9091.8	9126.2	9147.4	9160.6	9163.3
7.5°	8946.2	8927.7	8972.7	9009.7	9083.9	9105.0	9176.5	9210.9	9229.4	9261.2
10°	8578.3	8570.4	8681.5	8821.8	8996.5	9105.0	9213.5	9271.8	9300.9	9385.6
12.5°	7927.2	7937.8	8083.4	8353.3	8702.7	9052.1	9255.9	9340.6	9385.6	9491.5
15°	7305.2	7302.6	7461.4	7749.9	8239.5	8819.2	9277.1	9422.6	9499.4	9655.6
17.5°	6945.2	6934.6	7045.8	7265.5	7720.7	8461.9	9224.1	9467.6	9631.7	9827.6
20°	6879.1	6857.9	6916.1	7024.6	7347.5	8070.1	9086.5	9467.6	9737.6	9991.7
22.5°	7119.9	7085.5	7061.7	7048.5	7191.4	7747.2	8930.3	9435.9	9893.8	10227.3
25°	7604.3	7551.4	7429.6	7310.5	7268.1	7601.6	8792.7	9427.9	10126.7	10544.9
27.5°	8387.7	8321.6	8075.4	7789.6	7532.8	7675.8	8731.8	9475.6	10383.4	10881.0
30°	9359.1	9287.7	8978.0	8538.6	8078.1	7951.0	8808.6	9615.9	10711.6	11328.3
32.5°	10229.9	10150.5	9885.8	9438.5	8816.5	8427.4	9052.1	9883.2	11227.8	11950.3
35°	11002.8	10910.2	10671.9	10259.0	9721.7	9097.1	9491.5	10357.0	11960.9	12961.4
37.5°	11759.8	11651.3	11391.9	10955.1	10579.3	9989.1	10097.6	10965.7	12935.0	14189.6
40°	12606.8	12450.6	12135.6	11704.2	11338.9	11034.6	10894.3	11712.1	13924.9	15560.6
42.5°	13427.3	13279.0	12903.2	12535.3	12077.4	11990.1	11818.0	12585.6	15007.4	17066.6
45°	14311.3	14134.0	13678.7	13212.9	12924.4	12625.3	12712.6	13459.0	16068.8	18601.8
47.5°	15139.8	14941.2	14403.9	13885.2	13726.4	13159.9	13533.1	14419.8	17172.5	20158.1
50°	15587.1	15391.2	14943.9	14475.4	14351.0	13819.0	14422.5	15475.9	18329.2	21709.1
52.5°	15960.3	15748.5	15163.6	14904.2	14867.1	14536.3	15518.3	16682.8	19485.8	23080.2
55°	16357.3	16121.7	15375.3	15142.4	15311.8	15340.9	16817.8	18051.2	20708.6	24416.8
57.5°	16815.2	16516.1	15579.1	15343.6	15745.9	16283.2	18310.6	19469.9	21910.3	25655.5
60°	17246.6	16944.9	15970.9	15663.8	16214.4	17376.3	20023.1	21187.7	23270.8	26759.3
62.5°	17331.3	17082.5	16283.2	16280.5	16849.6	18652.1	22050.6	22921.4	24459.2	27849.7
65°	15865.0	15708.8	15235.0	16256.7	17760.1	20489.0	24308.3	25139.4	25970.5	28802.6
67.5°	12074.7	12095.9	12061.5	14033.4	17024.3	23127.8	27577.1	27513.6	27836.5	29871.9
70°	5521.2	5645.6	6455.6	9687.3	13639.0	23432.2	32981.9	32158.7	30178.9	31256.2
72.5°	2983.0	3078.2	3409.1	4692.8	8199.8	20833.0	37020.9	37605.9	33294.2	32187.9
75°	2188.9	2241.8	2472.1	2983.0	3443.5	15483.8	35573.1	38574.6	33683.3	30014.8
77.5°	1638.4	1662.2	1850.1	2363.6	1762.8	8162.8	28424.1	31947.0	28834.4	24660.3
80°	1188.4	1214.9	1355.2	1773.4	1236.1	2985.6	19517.6	22423.8	19747.9	15719.4
82.5°	820.5	831.1	892.0	1206.9	862.9	1159.3	11074.3	13149.4	11024.0	5516.0
85°	495.0	508.2	534.7	704.1	489.7	550.5	4780.1	4944.2	3295.3	1318.1
87.5°	203.8	217.0	238.2	296.4	193.2	153.5	788.7	989.9	616.7	386.4
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°
9030.9	0°	9030.9	9030.9	9030.9	9030.9	9030.9	9030.9	9030.9	9030.9	9030.9	9030.9
9057.4	2.5°	9044.2	9025.6	8975.3	8906.5	8843.0	8763.6	8729.2	8700.1	8673.6	8623.3
9128.8	5°	9099.7	9049.4	8914.5	8739.8	8541.3	8324.2	8112.5	7966.9	7842.5	7749.9
9210.9	7.5°	9184.4	9089.1	8843.0	8485.7	8030.4	7564.6	7143.7	6844.7	6619.7	6537.6
9327.4	10°	9271.8	9158.0	8729.2	8099.2	7313.1	6595.9	6037.4	5730.3	5550.4	5492.1
9465.0	12.5°	9375.0	9208.3	8551.8	7561.9	6511.2	5725.1	5238.0	5058.1	4965.4	4933.7
9634.4	15°	9525.9	9250.6	8284.5	6889.6	5746.2	5089.8	4774.8	4650.4	4602.8	4600.2
9809.1	17.5°	9639.7	9258.5	7869.0	6169.7	5158.6	4706.0	4446.6	4399.0	4430.8	4478.4
9981.1	20°	9766.7	9187.1	7323.7	5513.3	4745.7	4369.9	4261.4	4293.1	4369.9	4438.7
10208.7	22.5°	9856.7	9057.4	6664.7	5002.5	4388.4	4176.7	4171.4	4237.5	4279.9	4314.3
10476.1	25°	9936.1	8837.7	5965.9	4573.7	4094.6	4060.2	4118.4	4097.3	4068.1	4097.3
10743.4	27.5°	9994.4	8491.0	5341.3	4197.8	3888.2	3980.8	3946.4	3898.8	3896.1	3912.0
11058.4	30°	9975.8	8027.8	4827.8	3840.5	3742.6	3832.6	3750.5	3742.6	3734.6	3742.6
11532.2	32.5°	9975.8	7501.1	4433.4	3594.4	3650.0	3615.5	3607.6	3589.1	3557.3	3554.7
12175.3	35°	10031.4	6974.3	4094.6	3462.0	3573.2	3491.1	3496.4	3451.4	3385.3	3353.5
13027.6	37.5°	10145.2	6550.9	3758.5	3398.5	3438.2	3435.6	3414.4	3337.6	3221.2	3120.6
14091.6	40°	10420.5	6426.5	3528.2	3369.4	3374.7	3406.4	3350.9	3202.6	2938.0	2773.9
15171.5	42.5°	10851.9	6635.6	3477.9	3297.9	3332.3	3364.1	3255.6	2911.5	2723.6	2625.6
16304.4	45°	11399.8	7000.8	3586.4	3194.7	3231.8	3287.3	2964.4	2800.3	2715.6	2718.3
17426.6	47.5°	12093.3	7384.6	3787.6	3104.7	3086.2	3117.9	2771.2	2670.6	2554.2	2583.3
18503.9	50°	12895.3	7773.7	3978.2	2983.0	2924.7	2821.5	2646.8	2551.5	2403.3	2334.5
19544.0	52.5°	13763.4	8149.5	4054.9	2834.7	2750.0	2630.9	2562.1	2445.7	2265.7	2151.9
20526.0	55°	14586.6	8491.0	3970.2	2657.4	2575.3	2482.7	2472.1	2400.7	2207.4	2048.6
21399.5	57.5°	15364.7	8776.8	3758.5	2477.4	2398.0	2342.4	2413.9	2379.5	2136.0	1932.2
22225.3	60°	16023.8	8972.7	3451.4	2294.8	2239.2	2210.1	2318.6	2308.0	2035.4	1807.8
22966.4	62.5°	16547.9	9049.4	3112.6	2120.1	2106.9	2053.9	2186.3	2186.3	1908.4	1686.0
23617.5	65°	16958.1	8975.3	2768.6	1948.1	1974.5	1895.1	2024.8	2008.9	1773.4	1577.5
24366.5	67.5°	17320.7	8731.8	2387.4	1778.7	1839.5	1739.0	1855.4	1818.4	1625.1	1469.0
25015.0	70°	17482.2	8165.4	1953.3	1609.3	1683.4	1585.4	1686.0	1617.2	1458.4	1352.5
24303.0	72.5°	16185.2	6786.4	1537.8	1431.9	1495.4	1416.0	1503.4	1424.0	1278.4	1230.8
20986.6	75°	13390.2	5092.5	1183.1	1238.7	1286.3	1225.5	1283.7	1225.5	1093.1	1127.5
15502.4	77.5°	9724.4	3438.2	905.2	1034.9	1056.1	1024.3	1074.6	1008.4	889.3	881.4
7726.0	80°	4835.7	2014.2	709.3	817.9	809.9	788.7	847.0	815.2	714.6	757.0
2085.7	82.5°	1400.2	862.9	516.1	574.4	558.5	563.8	606.1	622.0	931.7	923.7
648.5	85°	439.4	338.8	309.7	320.3	304.4	312.3	357.3	709.3	656.4	383.8
201.2	87.5°	113.8	116.5	76.8	82.1	84.7	100.6	113.8	431.4	206.5	135.0
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>
9030.9
8599.5
7673.1
6394.7
5402.1
4941.6
4610.7
4496.9
4462.5
4332.8
4115.8
3938.5
3771.7
3589.1
3385.3
3155.0
2795.0
2625.6
2731.5
2657.4
2353.0
2149.2
2048.6
1921.6
1799.8
1678.1
1566.9
1458.4
1331.3
1191.1
<i>1029.6</i>
841.7
749.0
944.9
415.5
142.9
0.0

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