

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: P953593

Luminaire Tested: **GALN-SB7A-835-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953593
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-SB7A-835-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3500K, 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: 29410 lumens
Efficiency: N/A
Efficacy: 147.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

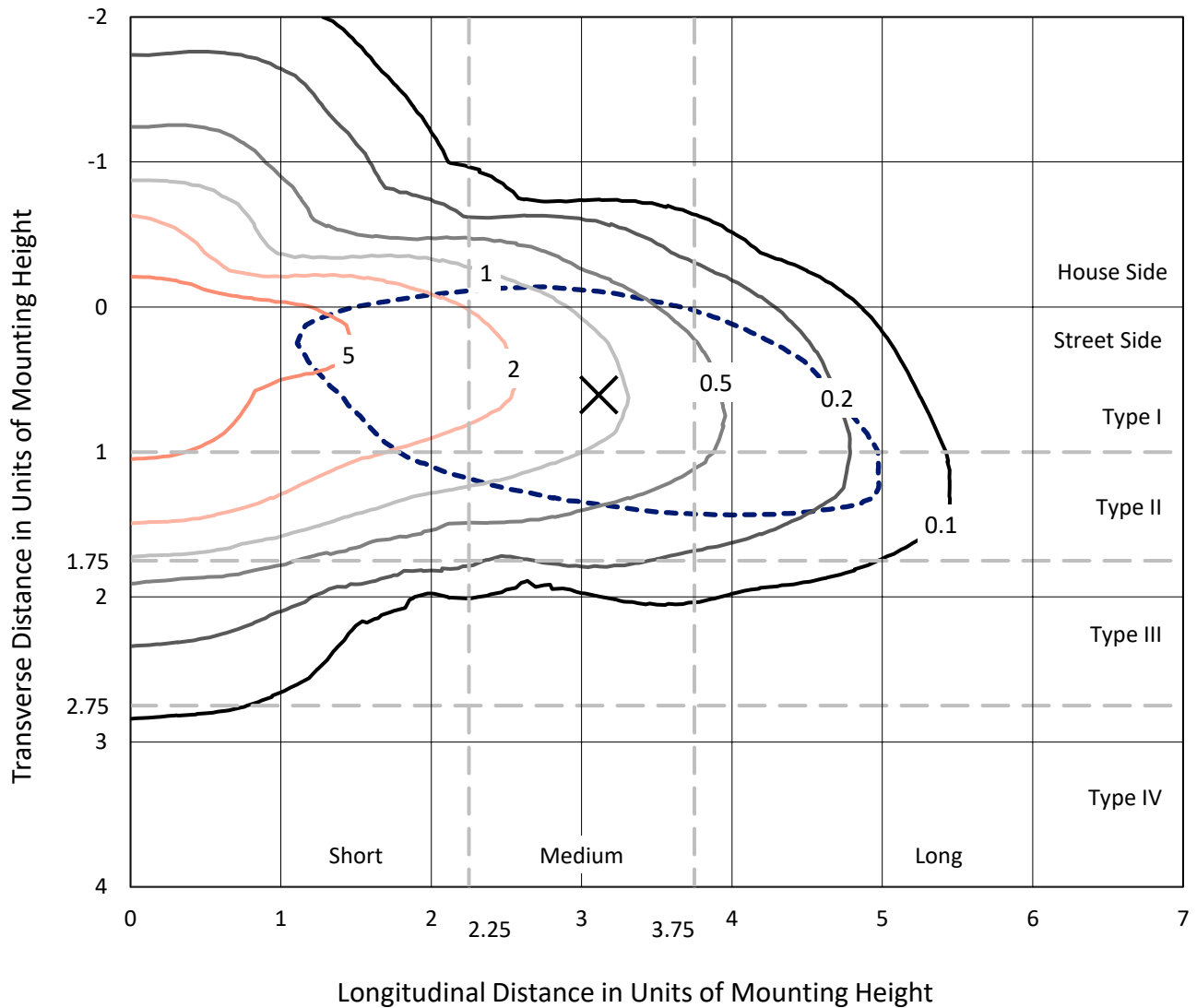
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

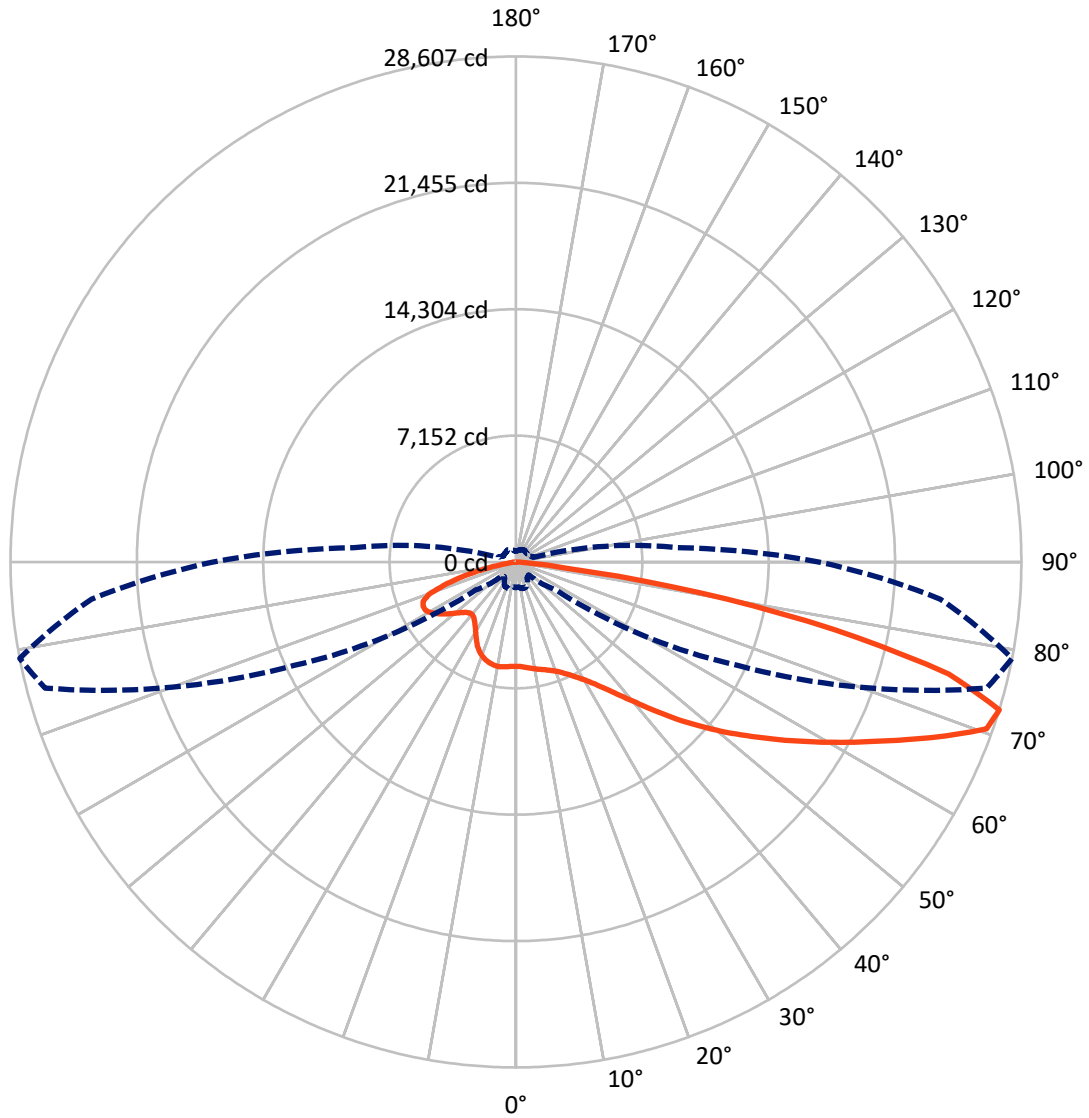
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 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	6471.8	0.0	6471.8
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	22938.2	0.0	22938.2
	% Fixture	78.0	0.0	78.0
Total	Lumens	29410.0	0.0	29410.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	535.9	1.8
10°-20°	1401.1	4.8
20°-30°	2260.8	7.7
30°-40°	3393.1	11.5
40°-50°	4813.3	16.4
50°-60°	6078.6	20.7
60°-70°	6173.6	21.0
70°-80°	4207.6	14.3
80°-90°	545.9	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°	29410.0	100.0
0°-180°	29410.0	100.0



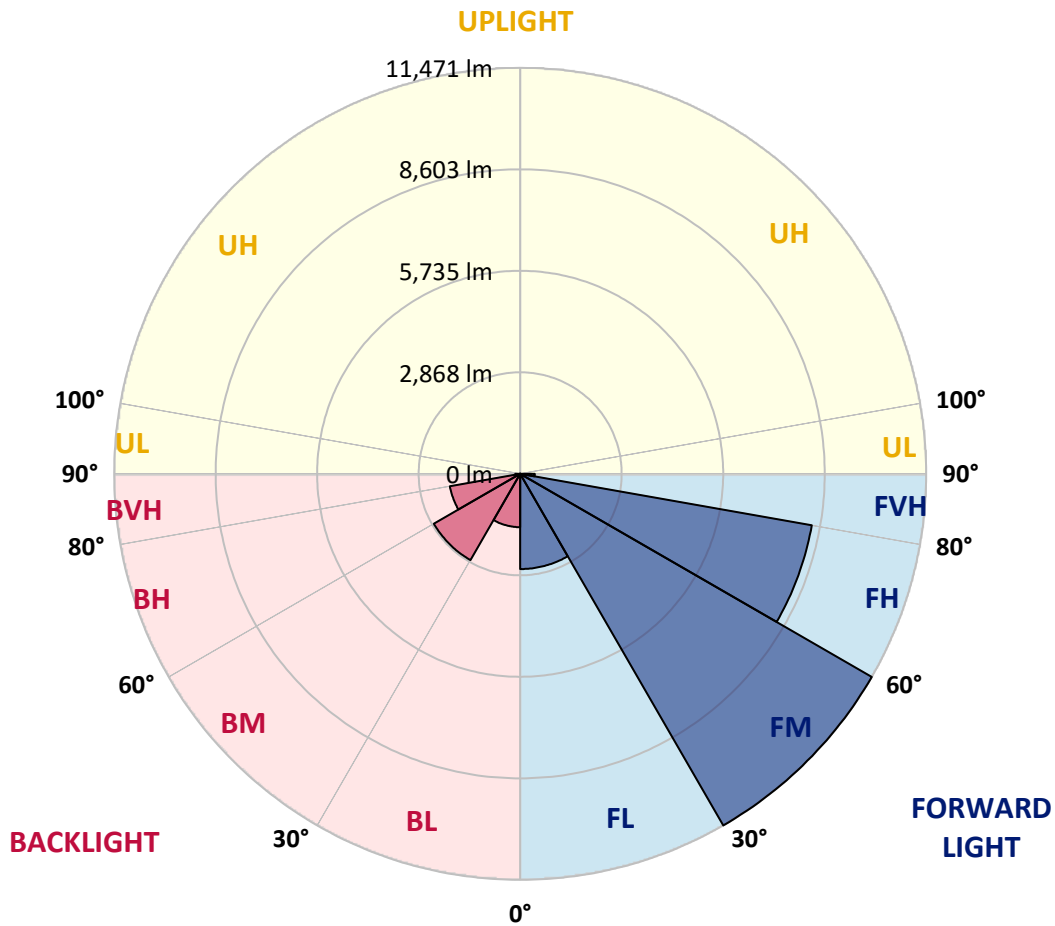
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2690.3	9.1			
FM (30°-60°)	11470.5	39.0			
FH (60°-80°)	8366.1	28.4			G4/12000
FVH (80°-90°)	411.2	1.4			G3/500
BL (0°-30°)	1507.5	5.1	B3/2500		
BM (30°-60°)	2814.6	9.6	B3/5000		
BH (60°-80°)	2015.1	6.9	B3/2500		G3/2500
BVH (80°-90°)	134.7	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-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	5903.8	5903.8	5903.8	5903.8	5903.8	5903.8	5903.8	5903.8	5903.8	5903.8
2.5°	5906.9	5878.9	5896.0	5889.8	5897.6	5906.9	5910.0	5914.7	5930.2	5928.7
5°	5894.4	5866.4	5889.8	5882.0	5902.2	5924.0	5942.7	5959.8	5984.7	5995.6
7.5°	5868.0	5849.3	5872.7	5896.0	5933.3	5966.0	5992.5	6031.3	6067.1	6073.3
10°	5714.0	5700.0	5754.4	5815.1	5917.8	6006.5	6064.0	6109.1	6148.0	6154.2
12.5°	5553.8	5536.6	5597.3	5679.8	5846.2	6006.5	6127.8	6186.9	6221.1	6241.4
15°	5527.3	5513.3	5547.5	5619.1	5757.5	5964.4	6171.4	6280.3	6309.8	6333.1
17.5°	5654.9	5628.4	5642.4	5667.3	5748.2	5925.6	6205.6	6386.0	6431.2	6456.0
20°	5950.4	5913.1	5891.3	5841.6	5827.5	5931.8	6202.5	6513.6	6572.7	6603.8
22.5°	6344.0	6319.1	6272.5	6146.5	6009.6	6008.0	6261.6	6676.9	6787.4	6817.0
25°	6820.1	6782.7	6723.6	6552.5	6289.6	6158.9	6361.1	6885.4	7070.5	7078.3
27.5°	7367.7	7311.7	7230.8	7005.2	6650.5	6395.4	6513.6	7125.0	7395.7	7392.6
30°	7944.8	7888.8	7803.3	7529.5	7083.0	6714.3	6725.2	7383.2	7781.5	7764.4
32.5°	8366.4	8324.4	8307.3	8095.7	7580.8	7090.8	6967.9	7669.5	8257.5	8242.0
35°	8690.0	8635.5	8655.8	8548.4	8123.7	7512.3	7265.0	8010.2	8836.2	8834.7
37.5°	9010.5	8962.2	8979.3	8907.8	8626.2	8047.5	7627.5	8427.1	9553.4	9587.6
40°	9302.9	9251.6	9320.0	9253.1	9016.7	8616.9	8039.7	8898.4	10384.1	10449.5
42.5°	9478.7	9438.3	9551.8	9553.4	9355.8	9097.6	8492.4	9418.0	11345.5	11491.8
45°	9539.4	9525.4	9696.5	9732.3	9656.1	9376.0	8900.0	9984.3	12381.6	12643.0
47.5°	9474.0	9447.6	9684.1	9816.3	9877.0	9506.7	9237.6	10597.2	13439.5	13822.2
50°	9144.2	9092.9	9444.5	9723.0	9939.2	9592.3	9578.3	11305.1	14642.0	15060.5
52.5°	8551.5	8512.6	8912.4	9396.3	9802.3	9634.3	9961.0	12078.2	15783.9	16325.2
55°	7793.9	7742.6	8182.8	8814.4	9461.6	9620.3	10343.7	12943.2	17131.1	17680.2
57.5°	6592.9	6490.3	7047.2	7793.9	8906.2	9603.2	10741.9	13803.5	18500.1	19158.1
60°	4841.3	4688.8	5371.7	6256.9	7820.4	9436.7	11235.1	14768.0	20142.9	20735.6
62.5°	2818.9	2730.2	3176.7	4002.7	5894.4	8456.6	11512.0	15889.6	21757.6	22379.9
65°	2188.8	2163.9	2202.8	2266.6	3280.9	6331.6	10657.9	16983.3	23811.1	24246.7
67.5°	2002.2	1983.5	2000.6	1880.8	1664.6	3526.7	8431.7	17260.2	26010.8	26275.3
70°	1779.7	1757.9	1813.9	1711.2	1309.9	1603.9	5448.0	16255.2	27761.0	28257.2
72.5°	1449.9	1425.0	1555.7	1509.0	1103.0	1029.9	2736.4	13867.3	27577.4	28607.3
75°	1113.9	1099.9	1255.4	1294.3	899.2	810.5	1313.0	10307.9	24268.5	25306.1
77.5°	865.0	854.1	933.4	1075.0	724.9	628.5	807.4	6538.5	18288.5	18470.5
80°	648.7	617.6	690.7	832.3	564.7	458.9	547.6	3813.0	11560.2	10479.0
82.5°	406.0	390.5	451.1	555.4	398.3	315.8	356.2	2106.4	4632.8	2728.6
85°	231.8	225.6	245.8	317.4	216.2	182.0	203.8	930.3	846.3	581.8
87.5°	93.3	90.2	112.0	141.6	79.3	66.9	71.6	224.0	186.7	172.7
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°
5903.8	0°	5903.8	5903.8	5903.8	5903.8	5903.8	5903.8	5903.8	5903.8	5903.8	5903.8
5927.1	2.5°	5920.9	5920.9	5899.1	5864.9	5826.0	5801.1	5760.7	5749.8	5707.8	5695.3
5980.0	5°	5992.5	5980.0	5913.1	5816.7	5684.4	5563.1	5429.3	5345.3	5227.1	5185.1
6084.2	7.5°	6082.7	6048.5	5933.3	5721.8	5444.9	5172.6	4889.5	4674.8	4469.4	4396.3
6169.8	10°	6165.1	6116.9	5920.9	5550.6	5071.5	4600.1	4149.0	3833.2	3593.6	3495.6
6264.7	12.5°	6247.6	6158.9	5838.4	5266.0	4541.0	3901.6	3420.9	3175.1	3027.3	2909.1
6342.5	15°	6325.4	6200.9	5710.9	4884.8	3959.2	3310.5	2955.8	2759.8	2641.5	2563.7
6456.0	17.5°	6415.6	6236.7	5519.5	4401.0	3405.4	2901.3	2612.0	2493.7	2470.4	2461.1
6611.6	20°	6541.6	6269.4	5267.5	3859.6	2997.8	2574.6	2425.3	2414.4	2412.8	2408.2
6798.3	22.5°	6676.9	6308.3	4934.6	3368.0	2650.9	2370.8	2344.4	2322.6	2308.6	2307.1
7023.9	25°	6837.2	6320.7	4517.7	2965.1	2355.3	2274.4	2243.3	2210.6	2201.3	2201.3
7280.5	27.5°	6992.7	6278.7	4032.3	2615.1	2188.8	2185.7	2145.3	2134.4	2132.8	2137.5
7573.0	30°	7148.3	6199.4	3550.0	2291.5	2092.4	2092.4	2078.4	2086.2	2092.4	2107.9
7974.4	32.5°	7358.3	6115.3	3147.1	2051.9	2008.4	1992.8	2006.8	2022.4	2028.6	2048.8
8501.8	35°	7666.4	6056.2	2826.7	1921.3	1921.3	1901.0	1908.8	1905.7	1891.7	1882.4
9139.6	37.5°	8073.9	6053.1	2562.2	1860.6	1848.1	1845.0	1846.6	1826.4	1771.9	1706.6
9911.2	40°	8564.0	6137.1	2358.4	1818.6	1809.2	1827.9	1818.6	1764.1	1614.8	1501.2
10860.2	42.5°	9222.0	6376.7	2227.7	1767.2	1795.2	1818.6	1781.2	1593.0	1491.9	1415.7
11941.3	45°	9996.8	6765.6	2160.8	1712.8	1768.8	1796.8	1616.3	1533.9	1453.0	1361.2
13120.5	47.5°	10874.2	7255.7	2145.3	1661.5	1709.7	1726.8	1546.3	1509.0	1417.2	1317.7
14306.0	50°	11829.3	7835.9	2187.3	1600.8	1624.1	1565.0	1523.0	1488.8	1393.9	1295.9
15520.9	52.5°	12817.2	8475.3	2271.3	1518.3	1538.6	1473.2	1513.7	1484.1	1379.9	1247.6
16776.4	55°	13787.9	9119.4	2352.2	1421.9	1451.4	1390.8	1487.2	1465.4	1316.1	1166.8
18115.8	57.5°	14774.2	9760.3	2431.5	1336.3	1367.4	1311.4	1445.2	1415.7	1244.5	1092.1
19578.1	60°	15799.4	10382.6	2468.9	1253.9	1275.7	1238.3	1381.4	1330.1	1163.6	1015.9
21015.6	62.5°	16759.3	10900.6	2408.2	1171.4	1185.4	1169.9	1297.4	1229.0	1082.7	930.3
22513.7	65°	17722.2	11208.6	2221.5	1090.5	1093.6	1085.9	1179.2	1120.1	987.9	855.6
23825.1	67.5°	18595.0	11381.3	1924.4	1003.4	995.6	992.5	1068.7	1001.9	896.1	780.9
24822.3	70°	18780.1	10942.6	1470.1	900.7	900.7	893.0	947.4	879.0	794.9	701.6
24108.3	72.5°	17152.8	9204.9	1043.9	784.1	796.5	780.9	826.1	768.5	692.3	630.0
20777.6	75°	13831.5	6750.1	759.2	664.3	686.1	659.6	701.6	661.2	595.8	594.3
14318.4	77.5°	9503.6	4173.9	550.7	547.6	563.2	528.9	577.2	555.4	496.3	469.8
6232.0	80°	4055.6	1664.6	401.4	423.1	423.1	392.0	448.0	454.3	402.9	390.5
1202.5	82.5°	807.4	472.9	281.6	290.9	273.8	264.5	317.4	351.6	485.4	539.8
362.5	85°	242.7	174.2	169.6	158.7	140.0	141.6	186.7	353.1	435.6	248.9
119.8	87.5°	66.9	43.6	45.1	35.8	29.6	38.9	63.8	267.6	146.2	62.2
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>
5903.8
5715.5
5216.2
4405.7
3517.4
2948.0
2577.7
2467.3
2423.7
2324.2
2210.6
2149.9
2118.8
2065.9
1904.1
1708.1
1498.1
1412.6
1355.0
1309.9
1285.0
1238.3
1159.0
1089.0
1011.2
928.7
846.3
771.6
698.5
611.4
535.2
440.3
390.5
541.4
214.7
52.9
0.0

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