

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: P943524

Luminaire Tested: **GALN-SB8A-750-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943524
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8A-750-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28023 lumens
Efficiency: N/A
Efficacy: 123.4 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

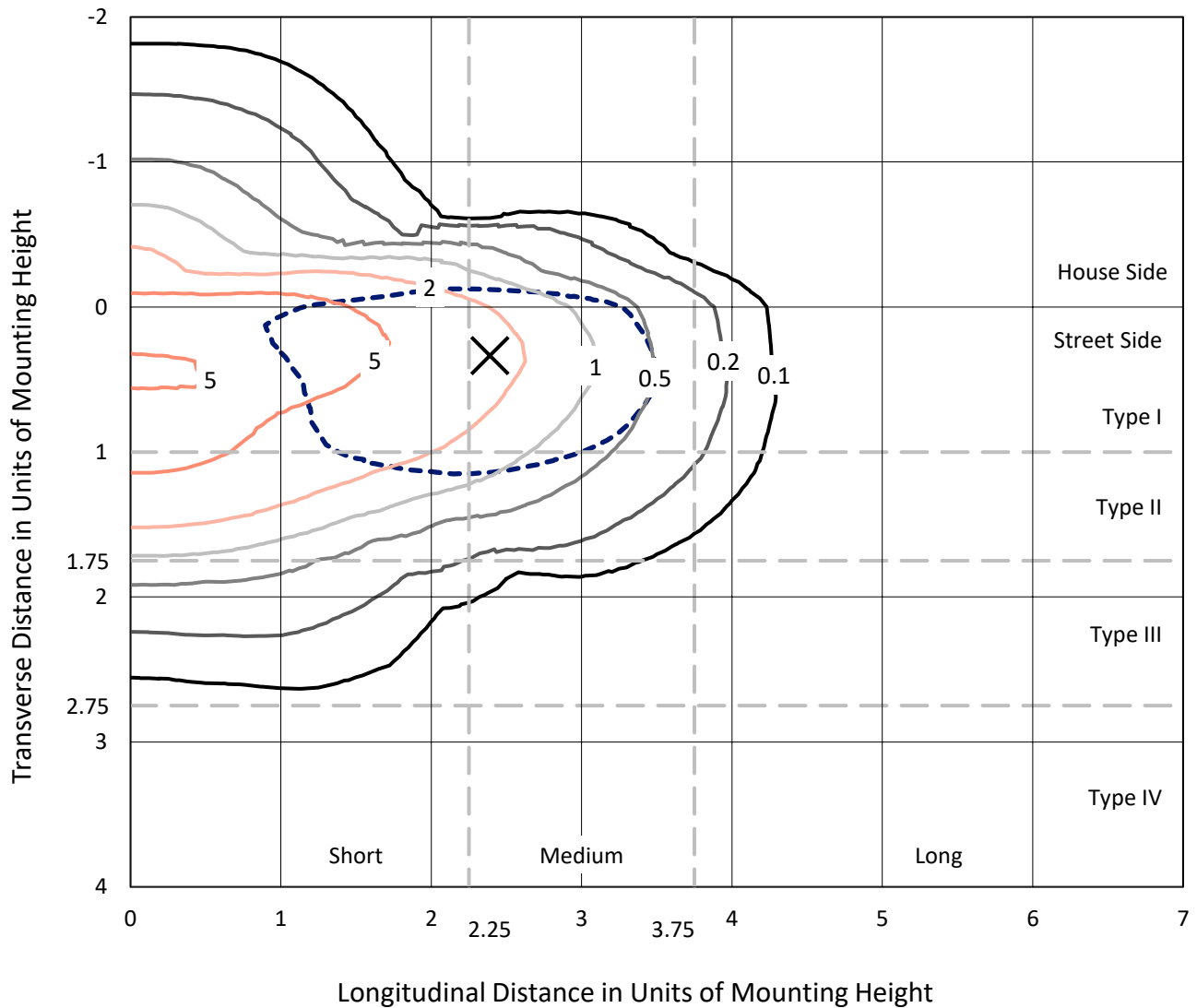
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P943524
 CATALOG NUMBER: GALN-SB8A-750-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

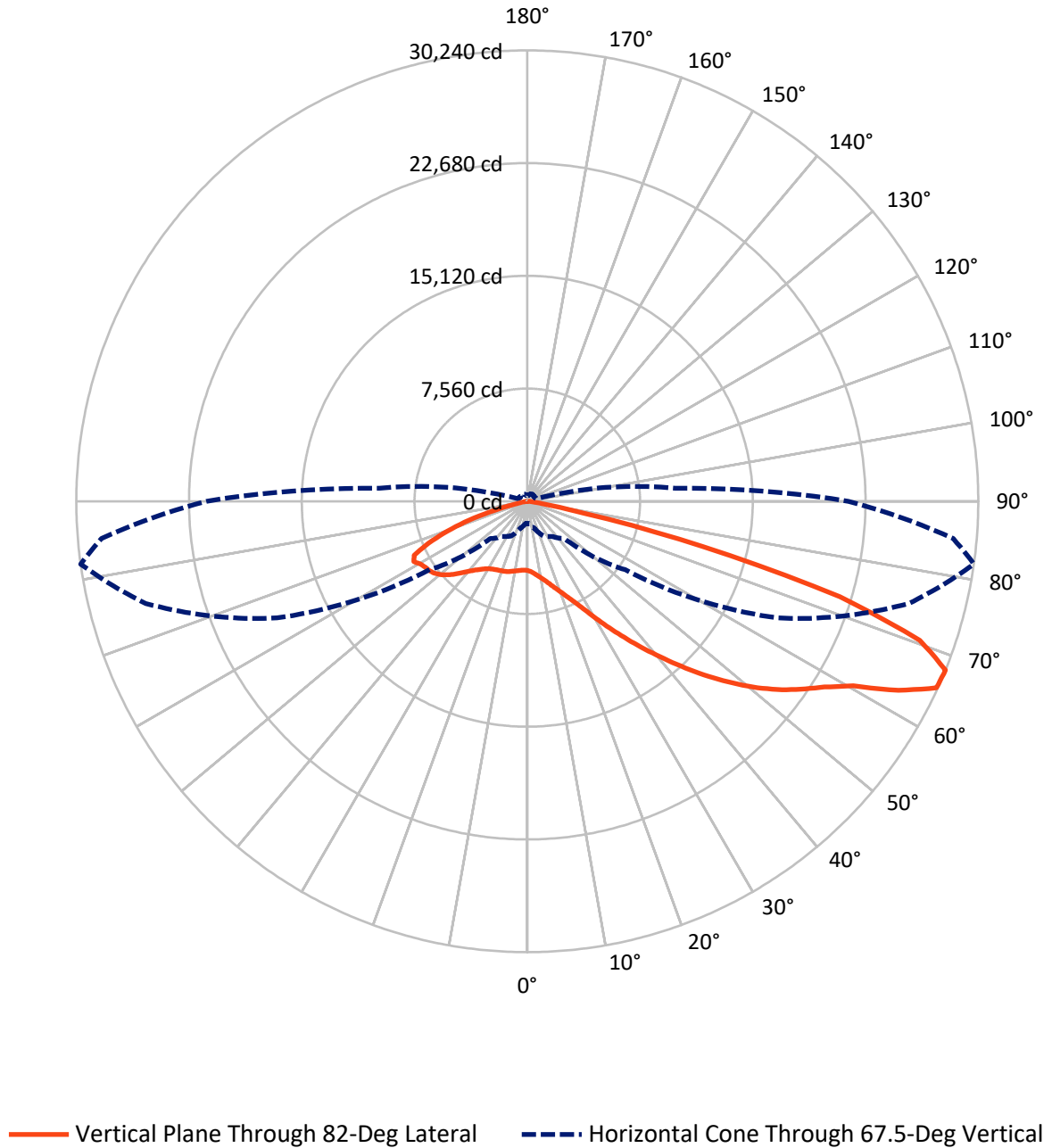
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type II - Medium - N/A

REPORT NUMBER: P943524
CATALOG NUMBER: GALN-SB8A-750-U-T2-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P943524

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5076.1	0.0	5076.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	22946.9	0.0	22946.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	28023.0	0.0	28023.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.6	1.5
10°-20°	1074.8	3.8
20°-30°	1721.5	6.1
30°-40°	3044.1	10.9
40°-50°	5333.6	19.0
50°-60°	7113.5	25.4
60°-70°	6622.3	23.6
70°-80°	2541.6	9.1
80°-90°	157.9	0.6
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°	28023.0	100.0
0°-180°	28023.0	100.0

Coefficient of Utilization



REPORT NUMBER: P943524

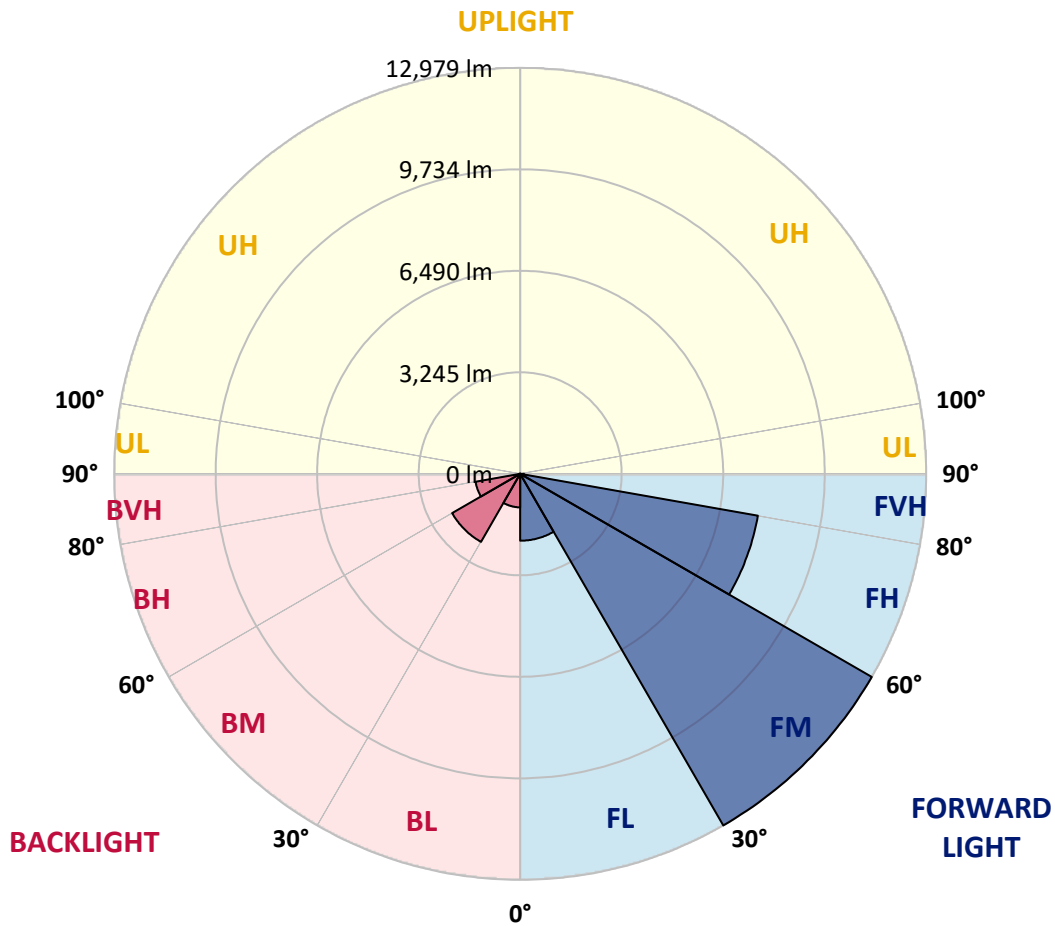
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2137.8	7.6			
FM (30°-60°)	12979.1	46.3			
FH (60°-80°)	7715.2	27.5			G4/12000
FVH (80°-90°)	114.8	0.4			G2/225
BL (0°-30°)	1072.1	3.8	B3/2500		
BM (30°-60°)	2512.1	9.0	B3/5000		
BH (60°-80°)	1448.8	5.2	B3/2500		G3/2500
BVH (80°-90°)	43.1	0.2			G1/100
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



REPORT NUMBER: P943524

CATALOG NUMBER: GALN-SB8A-750-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	4642.5	4642.5	4642.5	4642.5	4642.5	4642.5	4642.5	4642.5	4642.5	4642.5
2.5°	4906.8	4935.0	4918.9	4910.8	4896.7	4876.5	4860.4	4809.9	4757.5	4723.2
5°	5005.6	5033.9	5031.9	5039.9	5050.0	5056.1	5052.0	4995.5	4920.9	4862.4
7.5°	4920.9	4953.2	4979.4	5019.8	5090.4	5165.0	5201.3	5189.2	5112.6	5031.9
10°	4680.8	4715.1	4777.6	4872.5	5021.8	5183.2	5318.4	5380.9	5332.5	5243.7
12.5°	4241.0	4275.3	4398.3	4604.1	4854.3	5134.8	5393.0	5560.5	5572.6	5483.8
15°	3746.7	3781.0	3912.1	4170.3	4551.7	5001.6	5433.4	5750.1	5857.0	5780.4
17.5°	3440.0	3470.2	3569.1	3776.9	4174.4	4735.3	5419.2	5951.9	6196.0	6135.5
20°	3347.2	3373.4	3419.8	3565.1	3896.0	4458.9	5326.4	6141.5	6561.2	6526.9
22.5°	3446.0	3470.2	3484.4	3548.9	3756.7	4277.3	5209.4	6335.2	6984.9	6988.9
25°	3674.0	3698.2	3682.1	3722.4	3813.2	4220.8	5165.0	6563.2	7517.5	7561.9
27.5°	4049.3	4051.3	4013.0	4011.0	4025.1	4305.5	5211.4	6807.3	8189.4	8272.1
30°	4801.9	4771.6	4624.3	4464.9	4392.3	4559.7	5340.5	7095.8	8982.3	9129.6
32.5°	5962.0	5917.6	5647.2	5265.9	4882.6	4969.3	5572.6	7424.7	9845.8	10112.1
35°	7220.9	7208.8	6926.4	6359.4	5689.6	5552.4	5949.9	7856.5	10788.0	11211.7
37.5°	8391.1	8385.1	8223.7	7555.9	6740.8	6365.5	6555.1	8421.4	11796.8	12410.2
40°	9460.5	9478.6	9317.2	8720.0	7898.8	7408.6	7378.3	9119.5	12918.6	13715.5
42.5°	10384.5	10404.7	10241.3	9799.4	9042.8	8562.6	8389.1	9974.9	14014.1	15117.8
45°	11012.0	11137.1	11112.9	10759.8	10217.0	9718.7	9603.7	11048.3	15263.0	16604.7
47.5°	11189.5	11304.5	11486.1	11534.5	11203.6	10713.4	10850.6	12341.6	16526.0	18093.7
50°	10751.7	10858.6	11235.9	11738.3	11968.3	11817.0	12063.1	13727.6	17819.3	19578.6
52.5°	9888.2	9997.1	10473.3	11268.2	12206.4	12682.5	13279.7	15093.6	19072.2	20984.9
55°	8639.3	8754.3	9365.6	10265.5	11752.4	13039.7	14294.6	16457.4	20220.2	22249.9
57.5°	6940.5	7025.2	7660.8	8919.7	10610.5	12684.6	15043.1	17946.4	21301.7	23492.8
60°	4523.4	4598.1	5336.5	6740.8	8718.0	11498.2	15192.4	19606.9	22738.2	25108.8
62.5°	3008.2	3058.7	3496.5	4527.5	6139.5	9220.4	14318.8	20932.4	24844.5	27921.4
65°	2064.0	2114.4	2552.2	3270.5	3966.6	6099.2	11806.9	20756.9	26753.2	30154.8
67.5°	1472.8	1515.2	1886.4	2564.4	2871.0	3542.9	8003.8	18513.4	26478.8	30239.6
70°	1055.2	1079.4	1386.1	1997.4	2281.9	2128.6	4450.8	14159.4	23184.1	27923.4
72.5°	738.4	746.5	962.4	1521.3	1838.0	1553.5	2118.5	9440.3	17534.8	21917.0
75°	500.4	510.4	647.6	1115.7	1474.9	1186.3	1121.8	5062.1	10293.7	12131.7
77.5°	306.7	310.7	417.6	762.6	1103.6	903.9	722.3	2144.7	3982.7	3910.1
80°	173.5	173.5	266.3	474.1	752.6	583.1	506.4	911.9	1261.0	1107.7
82.5°	96.8	98.9	193.7	294.6	498.3	345.0	278.4	421.7	544.7	482.2
85°	40.4	44.4	119.0	139.2	238.1	171.5	113.0	177.5	201.8	179.6
87.5°	4.0	6.1	36.3	26.2	28.2	34.3	16.1	34.3	28.2	28.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P943524
 CATALOG NUMBER: GALN-SB8A-750-U-T2-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4642.5	0°	4642.5	4642.5	4642.5	4642.5	4642.5	4642.5	4642.5	4642.5	4642.5	4642.5
4711.1	2.5°	4672.7	4642.5	4565.8	4477.0	4360.0	4303.5	4226.8	4174.4	4130.0	4134.0
4828.1	5°	4763.5	4686.8	4515.4	4301.5	4035.2	3845.5	3643.8	3504.5	3391.6	3367.3
4989.5	7.5°	4888.6	4767.6	4466.9	4081.6	3631.7	3290.7	2986.0	2790.3	2651.1	2606.7
5185.2	10°	5050.0	4874.5	4404.4	3805.2	3157.5	2723.7	2396.9	2243.6	2148.7	2116.4
5415.2	12.5°	5237.7	4997.6	4321.7	3468.2	2669.3	2251.6	2043.8	1967.1	1936.9	1926.8
5697.7	15°	5473.7	5150.9	4196.6	3068.7	2255.7	1963.1	1874.3	1864.2	1868.3	1864.2
6036.6	17.5°	5754.2	5318.4	3992.8	2657.2	1977.2	1815.8	1783.5	1791.6	1801.7	1799.7
6415.9	20°	6060.8	5483.8	3732.5	2292.0	1787.6	1710.9	1692.8	1700.8	1708.9	1704.9
6853.7	22.5°	6409.9	5661.3	3444.0	2007.5	1660.5	1614.1	1593.9	1595.9	1595.9	1587.8
7408.6	25°	6827.5	5857.0	3141.4	1805.7	1563.6	1527.3	1503.1	1495.0	1482.9	1458.7
8082.4	27.5°	7325.9	6064.9	2850.8	1664.5	1487.0	1452.7	1424.4	1404.2	1374.0	1333.6
8891.5	30°	7886.7	6317.1	2604.7	1575.7	1426.4	1392.1	1359.9	1329.6	1285.2	1234.8
9821.6	32.5°	8546.5	6587.4	2425.1	1517.2	1372.0	1335.6	1297.3	1261.0	1212.6	1162.1
10866.7	35°	9333.3	6914.3	2320.2	1476.9	1329.6	1281.2	1238.8	1198.4	1162.1	1117.7
12002.6	37.5°	10186.8	7261.3	2287.9	1456.7	1301.3	1226.7	1178.3	1150.0	1146.0	1119.8
13231.3	40°	11120.9	7672.9	2312.2	1444.6	1271.1	1174.2	1121.8	1115.7	1125.8	1079.4
14544.8	42.5°	12109.5	8161.1	2352.5	1430.5	1228.7	1121.8	1071.3	1071.3	1063.3	998.7
15932.9	45°	13178.9	8724.0	2392.9	1396.2	1178.3	1069.3	1031.0	1016.9	982.6	920.0
17329.0	47.5°	14256.3	9297.0	2423.1	1333.6	1117.7	1024.9	990.6	958.4	907.9	851.4
18699.0	50°	15279.2	9811.5	2390.8	1240.8	1049.1	982.6	946.2	901.9	847.4	809.1
19996.3	52.5°	16193.1	10257.4	2253.6	1131.9	976.5	938.2	905.9	859.5	815.1	774.8
21166.5	55°	16988.1	10618.5	2011.5	1029.0	911.9	899.8	867.6	809.1	748.5	714.2
22326.6	57.5°	17750.7	10892.9	1708.9	944.2	853.4	857.5	809.1	756.6	700.1	663.8
23890.2	60°	18765.6	11260.1	1402.2	865.5	790.9	803.0	750.5	712.2	641.6	595.2
26571.6	62.5°	20387.7	11831.1	1113.7	768.7	718.3	722.3	700.1	653.7	569.0	514.5
28558.9	65°	21674.9	11621.3	877.6	663.8	635.5	641.6	641.6	591.2	500.4	437.8
28665.8	67.5°	21529.6	9950.7	700.1	560.9	556.9	560.9	575.0	532.6	443.9	393.4
26482.8	70°	19832.9	7915.0	560.9	466.1	484.2	474.1	514.5	486.2	399.5	349.0
20530.9	72.5°	16183.0	5701.7	427.7	385.4	371.2	387.4	464.0	437.8	332.9	276.4
10874.8	75°	9456.4	3042.5	318.8	304.7	268.3	322.8	411.6	373.3	254.2	203.8
3333.1	77.5°	3078.8	1061.2	234.0	224.0	199.7	260.3	351.1	314.7	207.8	161.4
976.5	80°	825.2	320.8	159.4	147.3	129.1	193.7	278.4	250.2	149.3	104.9
419.7	82.5°	330.9	135.2	92.8	82.7	70.6	133.2	219.9	201.8	111.0	66.6
131.1	85°	106.9	44.4	34.3	26.2	32.3	82.7	131.1	137.2	78.7	34.3
20.2	87.5°	14.1	6.1	6.1	8.1	6.1	14.1	40.4	38.3	22.2	4.0
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>
4642.5
4093.7
3312.9
2562.3
2092.2
1920.7
1862.2
1795.7
1702.8
1583.8
1454.7
1329.6
1230.7
1164.1
1113.7
1117.7
1081.4
998.7
918.0
849.4
803.0
770.7
710.2
659.8
589.1
510.4
431.8
385.4
343.0
270.4
197.7
155.4
102.9
66.6
26.2
0.0
0.0

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