

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: P950779

Luminaire Tested: **GALN-SB5A-850-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950779
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-SB5A-850-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 5000K, 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: 21543 lumens
Efficiency: N/A
Efficacy: 152.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

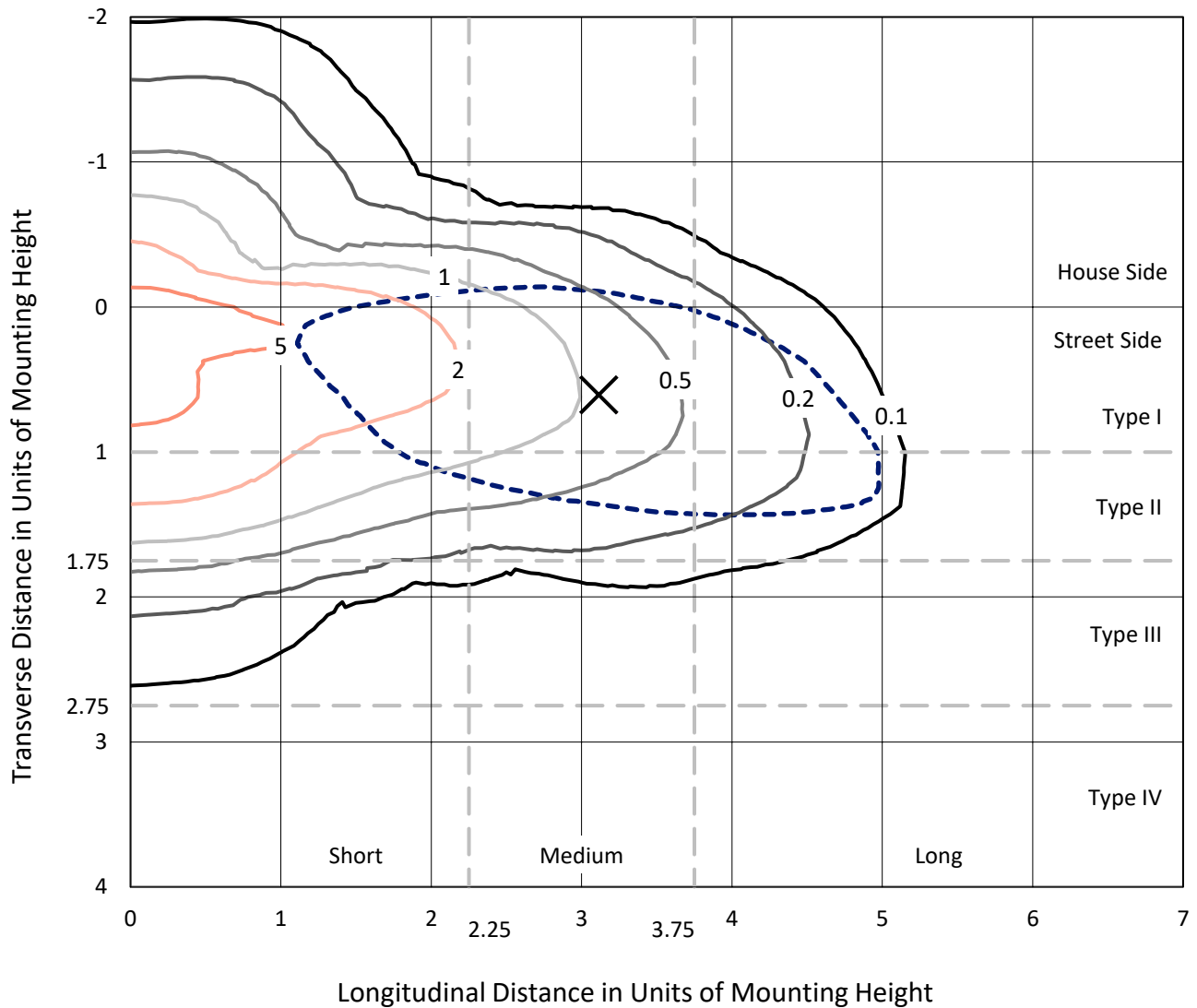
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

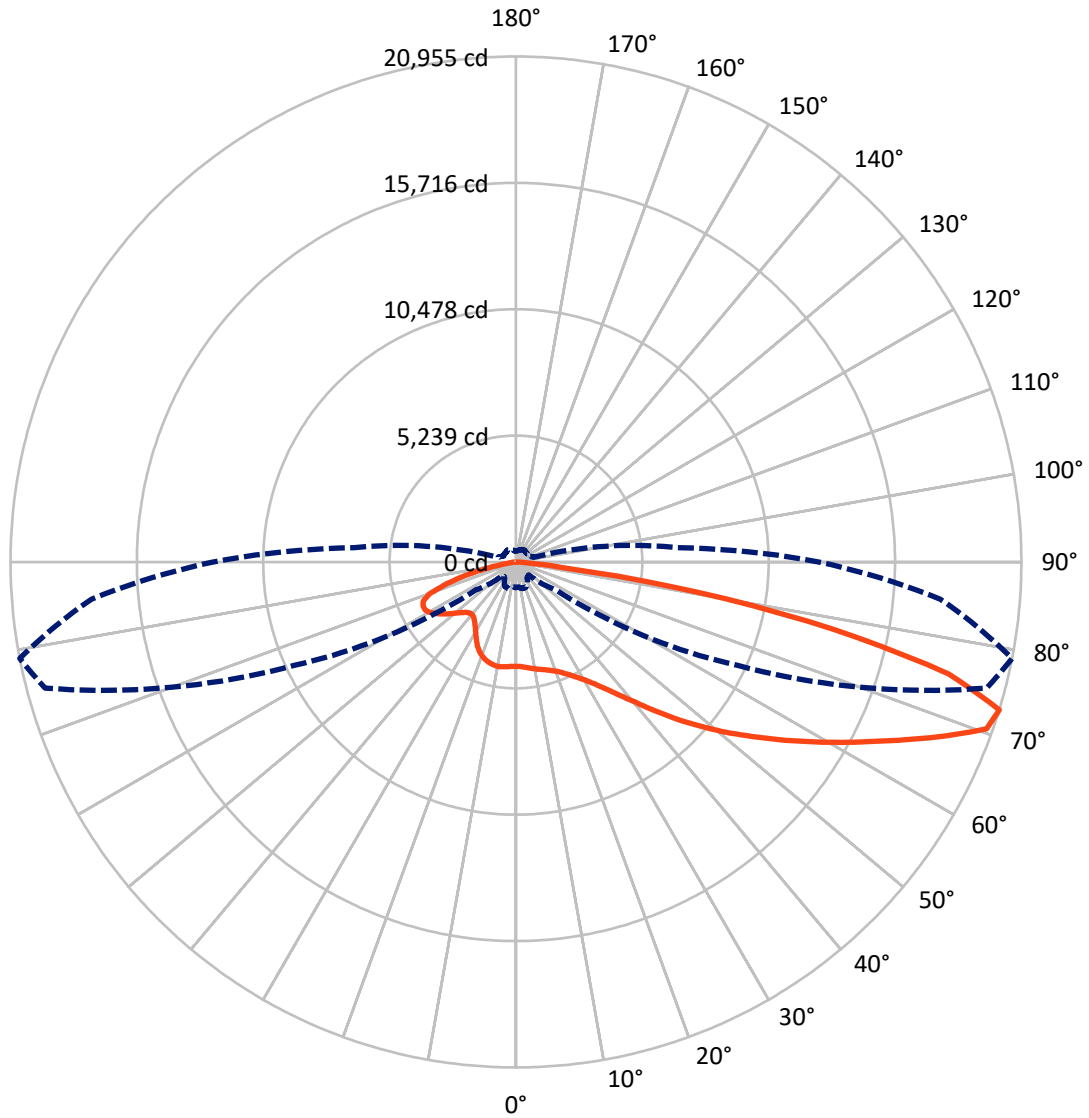
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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	4740.6	0.0	4740.6
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	16802.3	0.0	16802.3
	% Fixture	78.0	0.0	78.0
Total	Lumens	21543.0	0.0	21543.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.5	1.8
10°-20°	1026.3	4.8
20°-30°	1656.0	7.7
30°-40°	2485.5	11.5
40°-50°	3525.8	16.4
50°-60°	4452.6	20.7
60°-70°	4522.2	21.0
70°-80°	3082.1	14.3
80°-90°	399.9	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°	21543.0	100.0
0°-180°	21543.0	100.0



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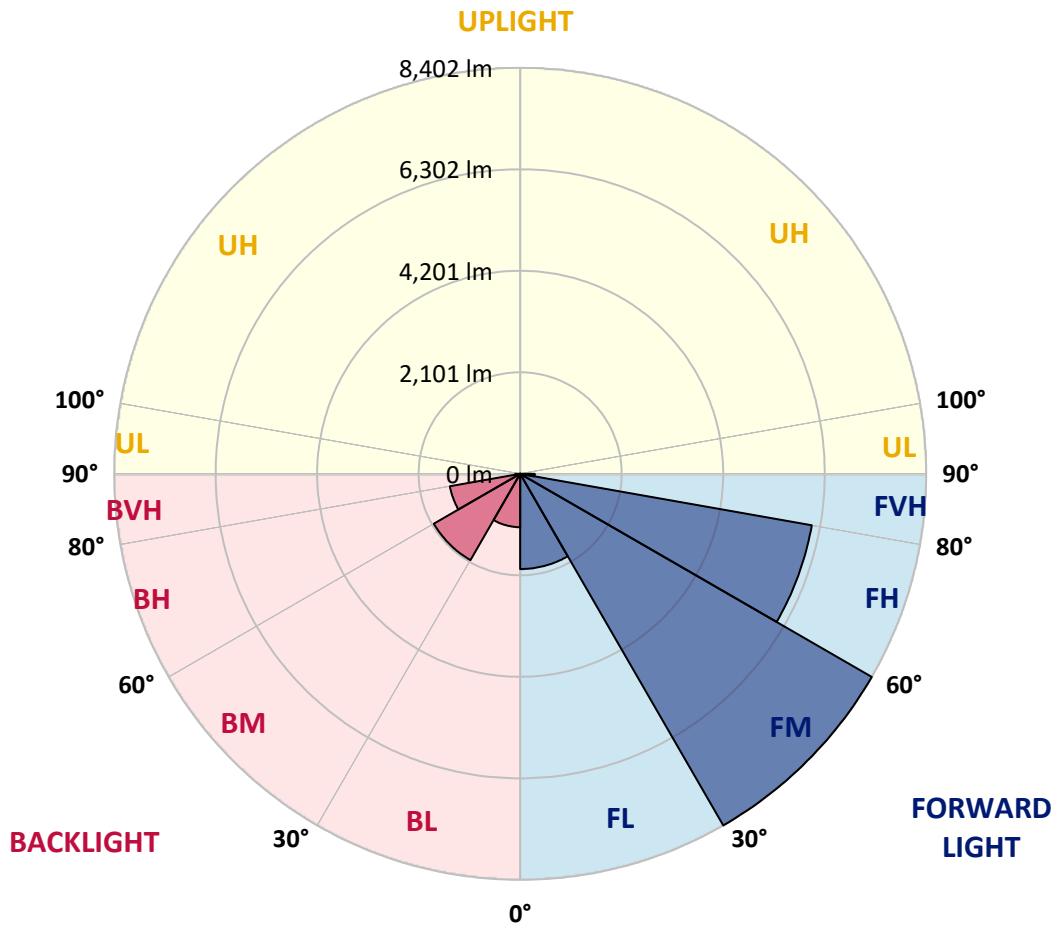
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1970.7	9.1			
FM (30°-60°)	8402.2	39.0			
FH (60°-80°)	6128.3	28.4			G3/7500
FVH (80°-90°)	301.2	1.4			G3/500
BL (0°-30°)	1104.2	5.1	B3/2500		
BM (30°-60°)	2061.7	9.6	B2/2500		
BH (60°-80°)	1476.1	6.9	B3/2500		G3/2500
BVH (80°-90°)	98.6	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	4324.6	4324.6	4324.6	4324.6	4324.6	4324.6	4324.6	4324.6	4324.6	4324.6
2.5°	4326.8	4306.3	4318.9	4314.3	4320.0	4326.8	4329.1	4332.5	4343.9	4342.8
5°	4317.7	4297.2	4314.3	4308.6	4323.4	4339.4	4353.0	4365.6	4383.8	4391.8
7.5°	4298.3	4284.7	4301.8	4318.9	4346.2	4370.1	4389.5	4418.0	4444.2	4448.8
10°	4185.5	4175.3	4215.2	4259.6	4334.8	4399.8	4441.9	4475.0	4503.5	4508.0
12.5°	4068.2	4055.6	4100.1	4160.5	4282.4	4399.8	4488.6	4531.9	4557.0	4571.8
15°	4048.8	4038.5	4063.6	4116.0	4217.4	4369.0	4520.6	4600.3	4622.0	4639.1
17.5°	4142.2	4122.9	4133.1	4151.3	4210.6	4340.5	4545.6	4677.8	4710.9	4729.1
20°	4358.7	4331.4	4315.4	4279.0	4268.7	4345.1	4543.3	4771.3	4814.6	4837.3
22.5°	4647.0	4628.8	4594.6	4502.3	4402.0	4400.9	4586.6	4890.9	4971.8	4993.5
25°	4995.7	4968.4	4925.1	4799.7	4607.2	4511.4	4659.6	5043.6	5179.2	5184.9
27.5°	5396.9	5355.8	5296.6	5131.3	4871.5	4684.6	4771.3	5219.1	5417.4	5415.1
30°	5819.6	5778.6	5715.9	5515.4	5188.3	4918.3	4926.2	5408.3	5700.0	5687.4
32.5°	6128.4	6097.7	6085.1	5930.2	5553.0	5194.0	5104.0	5617.9	6048.7	6037.3
35°	6365.5	6325.6	6340.4	6261.8	5950.7	5502.8	5321.6	5867.5	6472.6	6471.4
37.5°	6600.2	6564.9	6577.4	6525.0	6318.7	5894.8	5587.2	6172.9	6997.9	7023.0
40°	6814.4	6776.8	6827.0	6778.0	6604.8	6311.9	5889.1	6518.2	7606.4	7654.3
42.5°	6943.2	6913.6	6996.8	6997.9	6853.2	6664.0	6220.7	6898.8	8310.7	8417.8
45°	6987.7	6977.4	7102.7	7129.0	7073.1	6868.0	6519.3	7313.6	9069.6	9261.0
47.5°	6939.8	6920.4	7093.6	7190.5	7234.9	6963.7	6766.6	7762.5	9844.5	10124.8
50°	6698.2	6660.6	6918.1	7122.1	7280.5	7026.4	7016.1	8281.0	10725.3	11031.9
52.5°	6264.0	6235.6	6528.4	6882.8	7180.2	7057.2	7296.5	8847.4	11561.8	11958.3
55°	5709.1	5671.5	5994.0	6456.6	6930.7	7046.9	7576.8	9481.0	12548.6	12950.9
57.5°	4829.4	4754.2	5162.1	5709.1	6523.9	7034.4	7868.5	10111.1	13551.4	14033.4
60°	3546.2	3434.6	3934.8	4583.2	5728.5	6912.4	8229.8	10817.6	14754.8	15188.9
62.5°	2064.8	1999.9	2326.9	2932.0	4317.7	6194.5	8432.6	11639.3	15937.6	16393.4
65°	1603.3	1585.1	1613.6	1660.3	2403.3	4637.9	7807.0	12440.4	17441.8	17760.9
67.5°	1466.6	1452.9	1465.4	1377.7	1219.3	2583.3	6176.3	12643.2	19053.1	19246.8
70°	1303.6	1287.7	1328.7	1253.5	959.5	1174.9	3990.7	11907.0	20335.1	20698.6
72.5°	1062.1	1043.8	1139.5	1105.4	807.9	754.4	2004.4	10157.9	20200.6	20955.0
75°	815.9	805.7	919.6	948.1	658.7	593.7	961.8	7550.6	17776.8	18536.9
77.5°	633.6	625.6	683.7	787.4	531.0	460.4	591.4	4789.5	13396.4	13529.8
80°	475.2	452.4	506.0	609.7	413.7	336.2	401.1	2793.0	8467.9	7675.9
82.5°	297.4	286.0	330.5	406.8	291.7	231.3	261.0	1542.9	3393.5	1998.8
85°	169.8	165.2	180.0	232.5	158.4	133.3	149.3	681.4	619.9	426.2
87.5°	68.4	66.1	82.0	103.7	58.1	49.0	52.4	164.1	136.7	126.5
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°
4324.6	0°	4324.6	4324.6	4324.6	4324.6	4324.6	4324.6	4324.6	4324.6	4324.6	4324.6
4341.6	2.5°	4337.1	4337.1	4321.1	4296.1	4267.6	4249.3	4219.7	4211.7	4181.0	4171.9
4380.4	5°	4389.5	4380.4	4331.4	4260.7	4163.9	4075.0	3977.0	3915.5	3828.9	3798.1
4456.7	7.5°	4455.6	4430.5	4346.2	4191.2	3988.4	3789.0	3581.6	3424.3	3273.9	3220.3
4519.4	10°	4516.0	4480.7	4337.1	4065.9	3714.9	3369.6	3039.2	2807.8	2632.3	2560.5
4588.9	12.5°	4576.4	4511.4	4276.7	3857.3	3326.3	2858.0	2505.8	2325.8	2217.5	2130.9
4645.9	15°	4633.4	4542.2	4183.2	3578.2	2900.1	2424.9	2165.1	2021.5	1934.9	1878.0
4729.1	17.5°	4699.5	4568.4	4043.1	3223.8	2494.5	2125.2	1913.3	1826.7	1809.6	1802.8
4843.0	20°	4791.8	4592.3	3858.5	2827.2	2195.9	1885.9	1776.5	1768.6	1767.4	1764.0
4979.8	22.5°	4890.9	4620.8	3614.6	2467.1	1941.8	1736.7	1717.3	1701.3	1691.1	1689.9
5145.0	25°	5008.3	4629.9	3309.2	2172.0	1725.3	1666.0	1643.2	1619.3	1612.4	1612.4
5333.0	27.5°	5122.2	4599.2	2953.7	1915.6	1603.3	1601.1	1571.4	1563.4	1562.3	1565.7
5547.3	30°	5236.2	4541.1	2600.4	1678.5	1532.7	1532.7	1522.4	1528.1	1532.7	1544.1
5841.3	32.5°	5390.0	4479.5	2305.3	1503.1	1471.1	1459.8	1470.0	1481.4	1486.0	1500.8
6227.6	35°	5615.7	4436.2	2070.5	1407.3	1407.3	1392.5	1398.2	1395.9	1385.7	1378.8
6694.8	37.5°	5914.2	4433.9	1876.8	1362.9	1353.8	1351.5	1352.6	1337.8	1297.9	1250.1
7260.0	40°	6273.2	4495.5	1727.5	1332.1	1325.3	1339.0	1332.1	1292.2	1182.8	1099.7
7955.1	42.5°	6755.2	4671.0	1631.8	1294.5	1315.0	1332.1	1304.8	1166.9	1092.8	1037.0
8747.1	45°	7322.7	4955.9	1582.8	1254.6	1295.7	1316.2	1184.0	1123.6	1064.3	997.1
9610.9	47.5°	7965.4	5314.8	1571.4	1217.0	1252.4	1264.9	1132.7	1105.4	1038.1	965.2
10479.2	50°	8665.1	5739.9	1602.2	1172.6	1189.7	1146.4	1115.6	1090.5	1021.0	949.2
11369.2	52.5°	9388.7	6208.2	1663.7	1112.2	1127.0	1079.1	1108.8	1087.1	1010.8	913.9
12288.8	55°	10099.7	6680.0	1723.0	1041.5	1063.2	1018.7	1089.4	1073.4	964.1	854.7
13269.9	57.5°	10822.2	7149.5	1781.1	978.9	1001.7	960.6	1058.6	1037.0	911.6	800.0
14341.1	60°	11573.2	7605.3	1808.4	918.5	934.4	907.1	1011.9	974.3	852.4	744.1
15394.0	62.5°	12276.3	7984.8	1764.0	858.1	868.3	856.9	950.4	900.2	793.1	681.4
16491.4	65°	12981.6	8210.4	1627.3	798.8	801.1	795.4	863.8	820.5	723.6	626.7
17452.0	67.5°	13620.9	8336.9	1409.6	735.0	729.3	727.0	782.9	733.9	656.4	572.0
18182.5	70°	13756.5	8015.5	1076.9	659.8	659.8	654.1	694.0	643.8	582.3	513.9
17659.4	72.5°	12564.6	6742.7	764.6	574.3	583.4	572.0	605.1	562.9	507.1	461.5
15219.7	75°	10131.6	4944.5	556.1	486.6	502.5	483.2	513.9	484.3	436.4	435.3
10488.3	77.5°	6961.4	3057.4	403.4	401.1	412.5	387.4	422.8	406.8	363.5	344.1
4565.0	80°	2970.8	1219.3	294.0	310.0	310.0	287.2	328.2	332.7	295.1	286.0
880.9	82.5°	591.4	346.4	206.3	213.1	200.6	193.7	232.5	257.5	355.5	395.4
265.5	85°	177.8	127.6	124.2	116.2	102.6	103.7	136.7	258.7	319.1	182.3
87.7	87.5°	49.0	31.9	33.0	26.2	21.7	28.5	46.7	196.0	107.1	45.6
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>
4324.6
4186.7
3820.9
3227.2
2576.5
2159.4
1888.2
1807.3
1775.4
1702.5
1619.3
1574.8
1552.1
1513.3
1394.8
1251.2
1097.4
1034.7
992.5
959.5
941.3
907.1
849.0
797.7
740.7
680.3
619.9
565.2
511.7
447.8
392.0
322.5
286.0
396.6
157.3
38.7
0.0

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