

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: P951241

Luminaire Tested: **GALN-SB5B-950-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951241  
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-SB5B-950-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

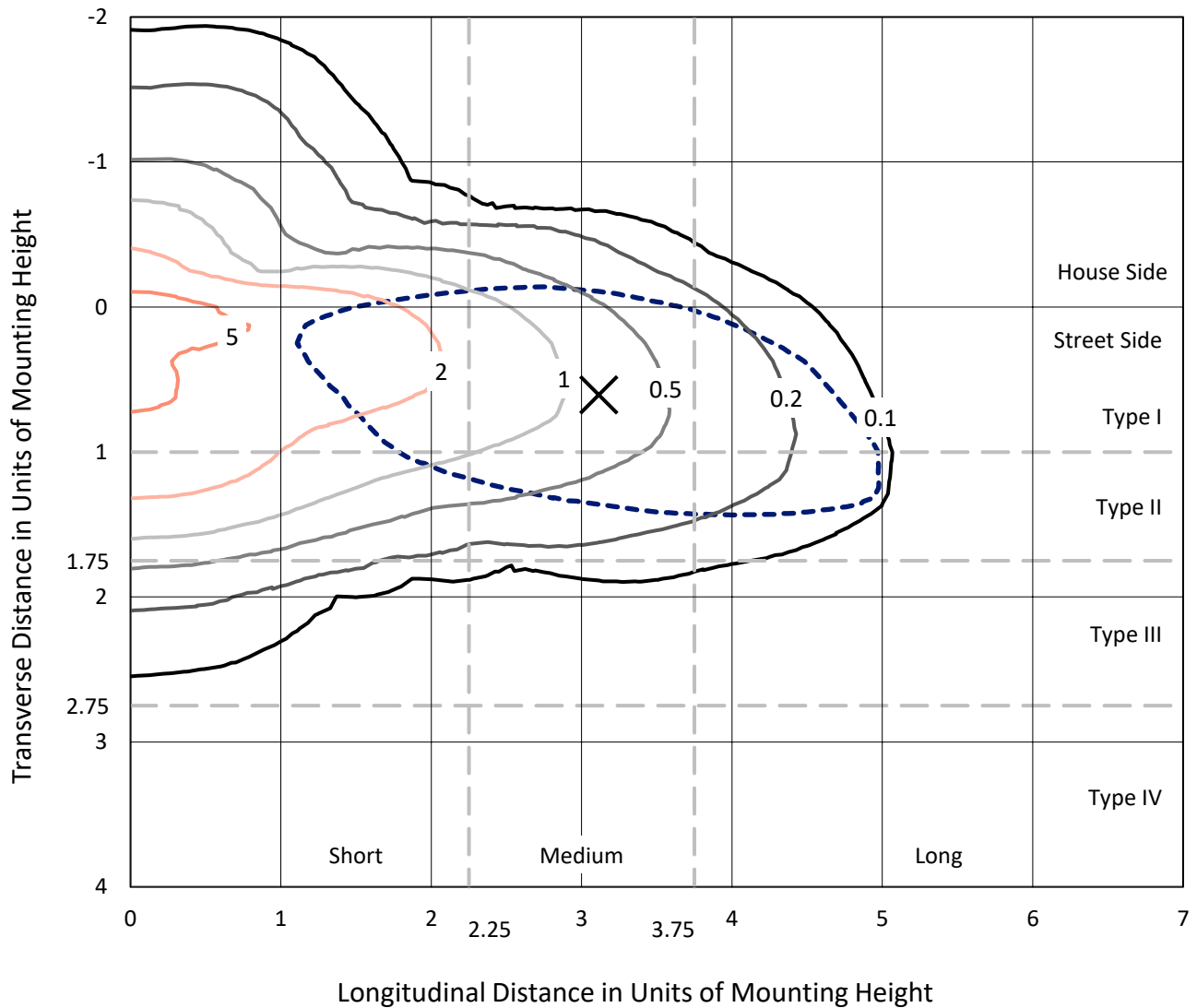
Lumens per Lamp: N/A  
Luminaire Lumens: 19668 lumens  
Efficiency: N/A  
Efficacy: 107.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

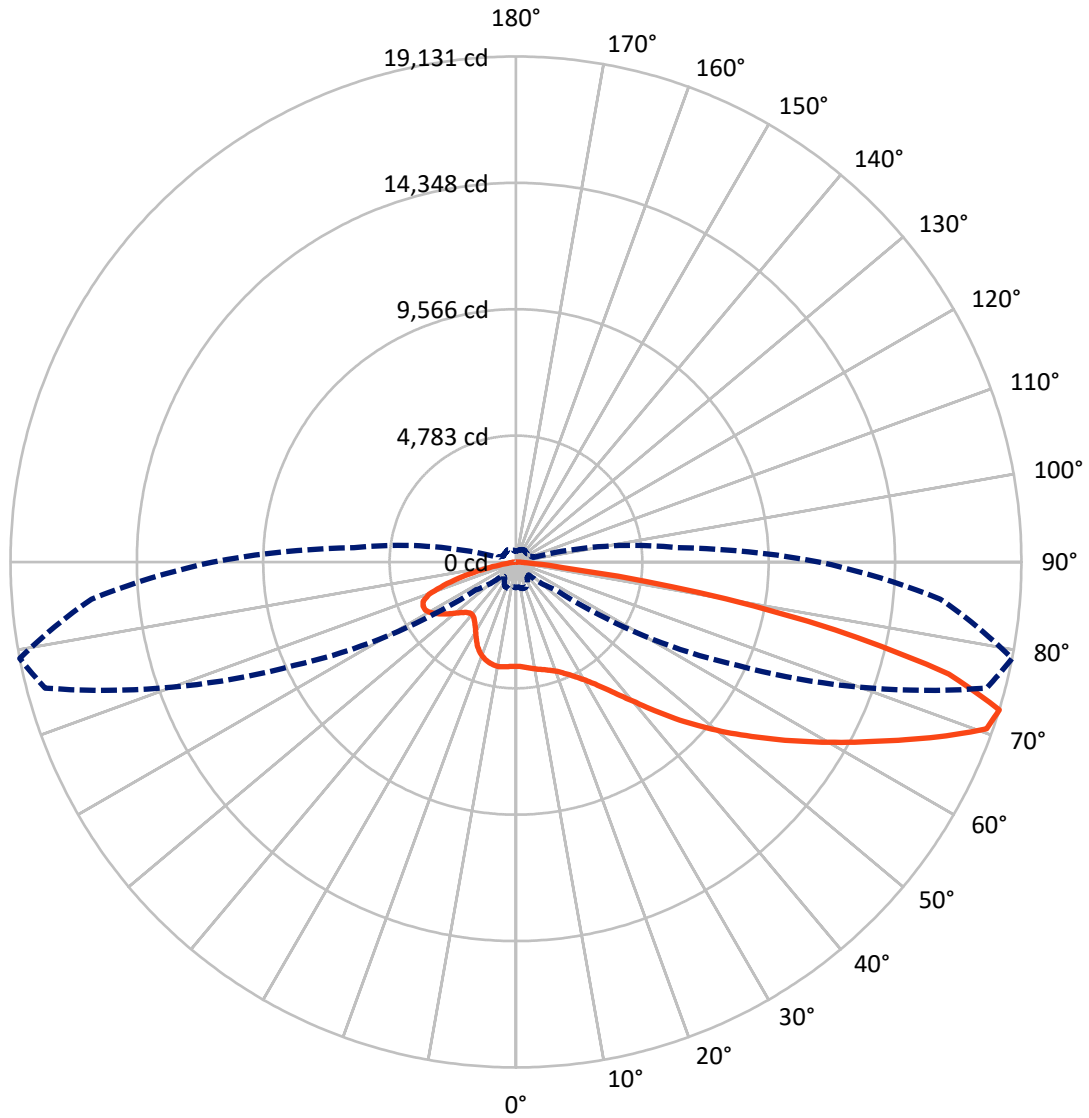
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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
<b>House Side</b>	Lumens	4328.0	0.0	4328.0
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	15340.0	0.0	15340.0
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	19668.0	0.0	19668.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	358.4	1.8
10°-20°	937.0	4.8
20°-30°	1511.9	7.7
30°-40°	2269.2	11.5
40°-50°	3218.9	16.4
50°-60°	4065.1	20.7
60°-70°	4128.6	21.0
70°-80°	2813.9	14.3
80°-90°	365.1	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°	19668.0	100.0
0°-180°	19668.0	100.0



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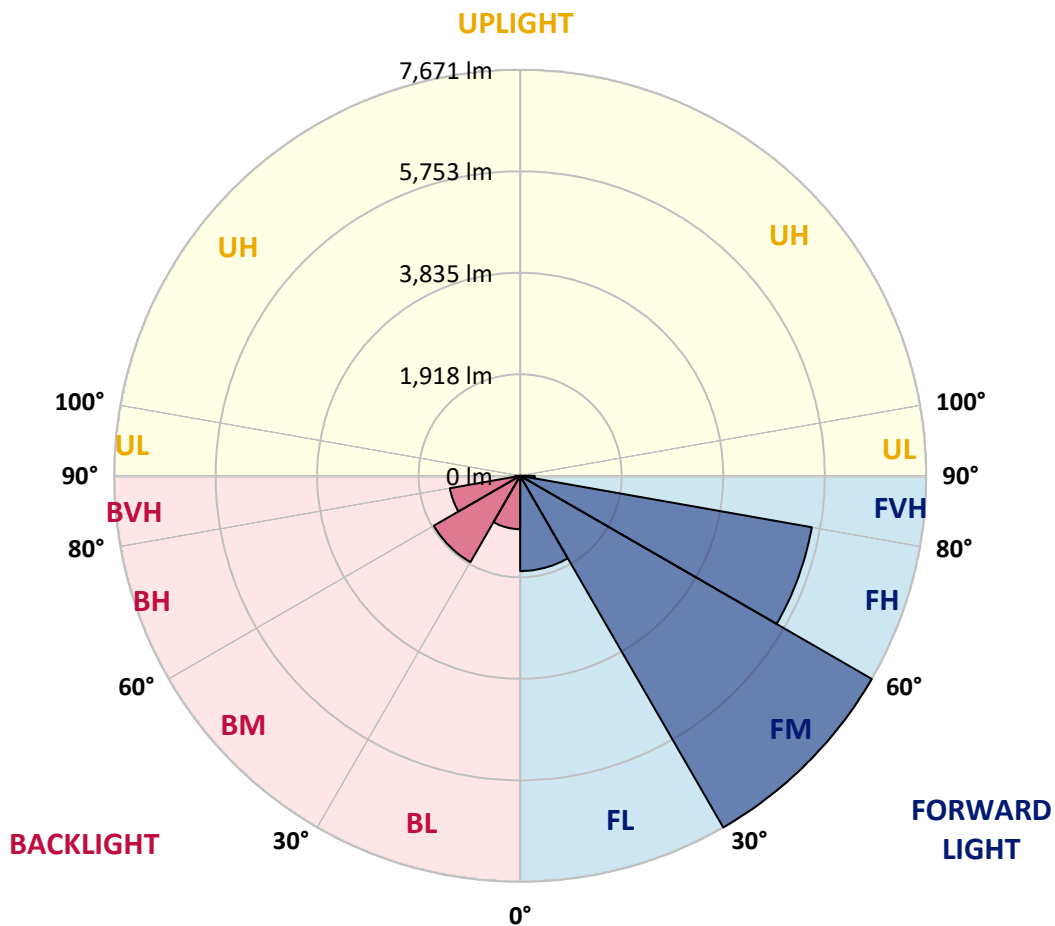
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1799.1	9.1			
FM (30°-60°)	7670.9	39.0			
FH (60°-80°)	5594.9	28.4			G3/7500
FVH (80°-90°)	275.0	1.4			G3/500
BL (0°-30°)	1008.1	5.1	B3/2500		
BM (30°-60°)	1882.2	9.6	B2/2500		
BH (60°-80°)	1347.6	6.9	B3/2500		G3/2500
BVH (80°-90°)	90.1	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°	3948.2	3948.2	3948.2	3948.2	3948.2	3948.2	3948.2	3948.2	3948.2	3948.2
2.5°	3950.2	3931.5	3943.0	3938.8	3944.0	3950.2	3952.3	3955.4	3965.9	3964.8
5°	3941.9	3923.2	3938.8	3933.6	3947.1	3961.7	3974.2	3985.6	4002.3	4009.5
7.5°	3924.2	3911.8	3927.4	3943.0	3967.9	3989.8	4007.5	4033.5	4057.4	4061.6
10°	3821.2	3811.9	3848.3	3888.9	3957.5	4016.8	4055.3	4085.5	4111.5	4115.7
12.5°	3714.1	3702.6	3743.2	3798.4	3909.7	4016.8	4098.0	4137.5	4160.4	4173.9
15°	3696.4	3687.0	3709.9	3757.8	3850.4	3988.7	4127.1	4199.9	4219.7	4235.3
17.5°	3781.7	3764.0	3773.4	3790.0	3844.1	3962.7	4150.0	4270.7	4300.8	4317.5
20°	3979.4	3954.4	3939.8	3906.5	3897.2	3966.9	4147.9	4356.0	4395.5	4416.3
22.5°	4242.6	4225.9	4194.7	4110.5	4018.9	4017.9	4187.4	4465.2	4539.1	4558.9
25°	4560.9	4536.0	4496.4	4382.0	4206.2	4118.8	4254.0	4604.6	4728.4	4733.6
27.5°	4927.1	4889.7	4835.6	4684.7	4447.5	4276.9	4356.0	4764.8	4945.9	4943.8
30°	5313.1	5275.7	5218.4	5035.3	4736.8	4490.2	4497.5	4937.5	5203.9	5192.4
32.5°	5595.1	5567.0	5555.5	5414.0	5069.7	4742.0	4659.8	5129.0	5522.2	5511.8
35°	5811.4	5775.0	5788.6	5716.8	5432.8	5023.9	4858.5	5356.8	5909.2	5908.2
37.5°	6025.8	5993.5	6005.0	5957.1	5768.8	5381.8	5100.9	5635.6	6388.8	6411.7
40°	6221.3	6187.0	6232.8	6188.1	6029.9	5762.6	5376.6	5950.9	6944.4	6988.1
42.5°	6338.9	6311.9	6387.8	6388.8	6256.7	6084.0	5679.3	6298.3	7587.3	7685.1
45°	6379.5	6370.1	6484.6	6508.5	6457.5	6270.2	5951.9	6677.0	8280.2	8455.0
47.5°	6335.8	6318.1	6476.2	6564.7	6605.2	6357.6	6177.7	7086.9	8987.7	9243.6
50°	6115.2	6080.9	6316.0	6502.2	6646.9	6414.9	6405.5	7560.3	9791.9	10071.7
52.5°	5718.9	5692.8	5960.2	6283.8	6555.3	6442.9	6661.4	8077.4	10555.5	10917.5
55°	5212.2	5177.9	5472.3	5894.7	6327.5	6433.6	6917.3	8655.8	11456.4	11823.7
57.5°	4409.0	4340.4	4712.8	5212.2	5956.1	6422.1	7183.7	9231.1	12372.0	12812.0
60°	3237.6	3135.6	3592.4	4184.3	5229.9	6310.8	7513.5	9876.1	13470.6	13867.0
62.5°	1885.1	1825.8	2124.4	2676.8	3941.9	5655.4	7698.7	10626.2	14550.5	14966.6
65°	1463.8	1447.1	1473.1	1515.8	2194.1	4234.3	7127.5	11357.6	15923.7	16215.0
67.5°	1338.9	1326.5	1337.9	1257.8	1113.2	2358.5	5638.7	11542.8	17394.8	17571.7
70°	1190.2	1175.6	1213.1	1144.4	876.0	1072.6	3643.3	10870.7	18565.2	18897.1
72.5°	969.6	953.0	1040.4	1009.1	737.6	688.7	1830.0	9273.8	18442.5	19131.2
75°	744.9	735.5	839.6	865.6	601.3	542.0	878.1	6893.4	16229.6	16923.5
77.5°	578.4	571.2	624.2	718.9	484.8	420.3	539.9	4372.6	12230.5	12352.2
80°	433.8	413.0	461.9	556.6	377.7	306.9	366.2	2549.9	7730.9	7007.9
82.5°	271.5	261.1	301.7	371.4	266.3	211.2	238.2	1408.6	3098.2	1824.8
85°	155.0	150.9	164.4	212.2	144.6	121.7	136.3	622.1	566.0	389.1
87.5°	62.4	60.3	74.9	94.7	53.1	44.7	47.9	149.8	124.8	115.5
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°
3948.2	0°	3948.2	3948.2	3948.2	3948.2	3948.2	3948.2	3948.2	3948.2	3948.2	3948.2
3963.8	2.5°	3959.6	3959.6	3945.0	3922.2	3896.1	3879.5	3852.5	3845.2	3817.1	3808.8
3999.1	5°	4007.5	3999.1	3954.4	3889.9	3801.5	3720.3	3630.9	3574.7	3495.6	3467.5
4068.8	7.5°	4067.8	4044.9	3967.9	3826.4	3641.3	3459.2	3269.8	3126.3	2989.0	2940.1
4126.1	10°	4122.9	4090.7	3959.6	3712.0	3391.6	3076.3	2774.6	2563.4	2403.2	2337.7
4189.5	12.5°	4178.1	4118.8	3904.5	3521.6	3036.8	2609.2	2287.8	2123.4	2024.5	1945.5
4241.5	15°	4230.1	4146.9	3819.2	3266.7	2647.7	2213.9	1976.7	1845.6	1766.5	1714.5
4317.5	17.5°	4290.4	4170.8	3691.2	2943.2	2277.3	1940.3	1746.8	1667.7	1652.1	1645.8
4421.5	20°	4374.7	4192.6	3522.7	2581.1	2004.8	1721.8	1621.9	1614.6	1613.6	1610.5
4546.4	22.5°	4465.2	4218.7	3300.0	2252.4	1772.8	1585.5	1567.8	1553.3	1543.9	1542.9
4697.2	25°	4572.4	4227.0	3021.2	1982.9	1575.1	1521.0	1500.2	1478.4	1472.1	1472.1
4868.9	27.5°	4676.4	4198.9	2696.6	1748.8	1463.8	1461.7	1434.7	1427.4	1426.3	1429.5
5064.5	30°	4780.5	4145.8	2374.1	1532.4	1399.3	1399.3	1389.9	1395.1	1399.3	1409.7
5332.9	32.5°	4920.9	4089.7	2104.6	1372.2	1343.1	1332.7	1342.1	1352.5	1356.6	1370.2
5685.6	35°	5126.9	4050.1	1890.3	1284.8	1284.8	1271.3	1276.5	1274.4	1265.1	1258.8
6112.1	37.5°	5399.5	4048.0	1713.5	1244.3	1235.9	1233.9	1234.9	1221.4	1185.0	1141.3
6628.1	40°	5727.2	4104.2	1577.2	1216.2	1209.9	1222.4	1216.2	1179.8	1079.9	1003.9
7262.7	42.5°	6167.3	4264.4	1489.8	1181.8	1200.6	1216.2	1191.2	1065.3	997.7	946.7
7985.8	45°	6685.3	4524.5	1445.1	1145.4	1182.9	1201.6	1080.9	1025.8	971.7	910.3
8774.4	47.5°	7272.1	4852.2	1434.7	1111.1	1143.4	1154.8	1034.1	1009.1	947.8	881.2
9567.1	50°	7910.9	5240.3	1462.7	1070.5	1086.1	1046.6	1018.5	995.6	932.2	866.6
10379.7	52.5°	8571.5	5667.9	1518.9	1015.4	1028.9	985.2	1012.3	992.5	922.8	834.4
11219.2	55°	9220.7	6098.6	1573.0	950.9	970.7	930.1	994.6	980.0	880.1	780.3
12115.0	57.5°	9880.3	6527.2	1626.1	893.7	914.5	877.0	966.5	946.7	832.3	730.3
13092.9	60°	10565.9	6943.4	1651.1	838.5	853.1	828.1	923.8	889.5	778.2	679.4
14054.2	62.5°	11207.8	7289.8	1610.5	783.4	792.8	782.4	867.7	821.9	724.1	622.1
15056.1	65°	11851.8	7495.8	1485.6	729.3	731.4	726.2	788.6	749.1	660.6	572.2
15933.1	67.5°	12435.4	7611.3	1286.9	671.0	665.8	663.7	714.7	670.0	599.2	522.3
16600.0	70°	12559.2	7317.9	983.1	602.4	602.4	597.2	633.6	587.8	531.6	469.2
16122.4	72.5°	11471.0	6155.8	698.1	524.3	532.7	522.3	552.4	513.9	463.0	421.3
13895.0	75°	9249.8	4514.1	507.7	444.2	458.8	441.1	469.2	442.2	398.5	397.4
9575.5	77.5°	6355.6	2791.3	368.3	366.2	376.6	353.7	386.0	371.4	331.9	314.2
4167.7	80°	2712.2	1113.2	268.4	283.0	283.0	262.2	299.6	303.8	269.5	261.1
804.2	82.5°	539.9	316.3	188.3	194.5	183.1	176.9	212.2	235.1	324.6	361.0
242.4	85°	162.3	116.5	113.4	106.1	93.6	94.7	124.8	236.2	291.3	166.5
80.1	87.5°	44.7	29.1	30.2	23.9	19.8	26.0	42.7	178.9	97.8	41.6
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>
3948.2
3822.3
3488.3
2946.3
2352.3
1971.5
1723.9
1650.0
1620.9
1554.3
1478.4
1437.8
1417.0
1381.6
1273.4
1142.3
1001.9
944.6
906.2
876.0
859.3
828.1
775.1
728.3
676.2
621.1
566.0
516.0
467.1
408.9
357.9
294.4
261.1
362.0
143.6
35.4
0.0

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