

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: P952123

Luminaire Tested: **GALN-SB6A-827-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952123
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-SB6A-827-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 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: 23511 lumens
Efficiency: N/A
Efficacy: 137.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

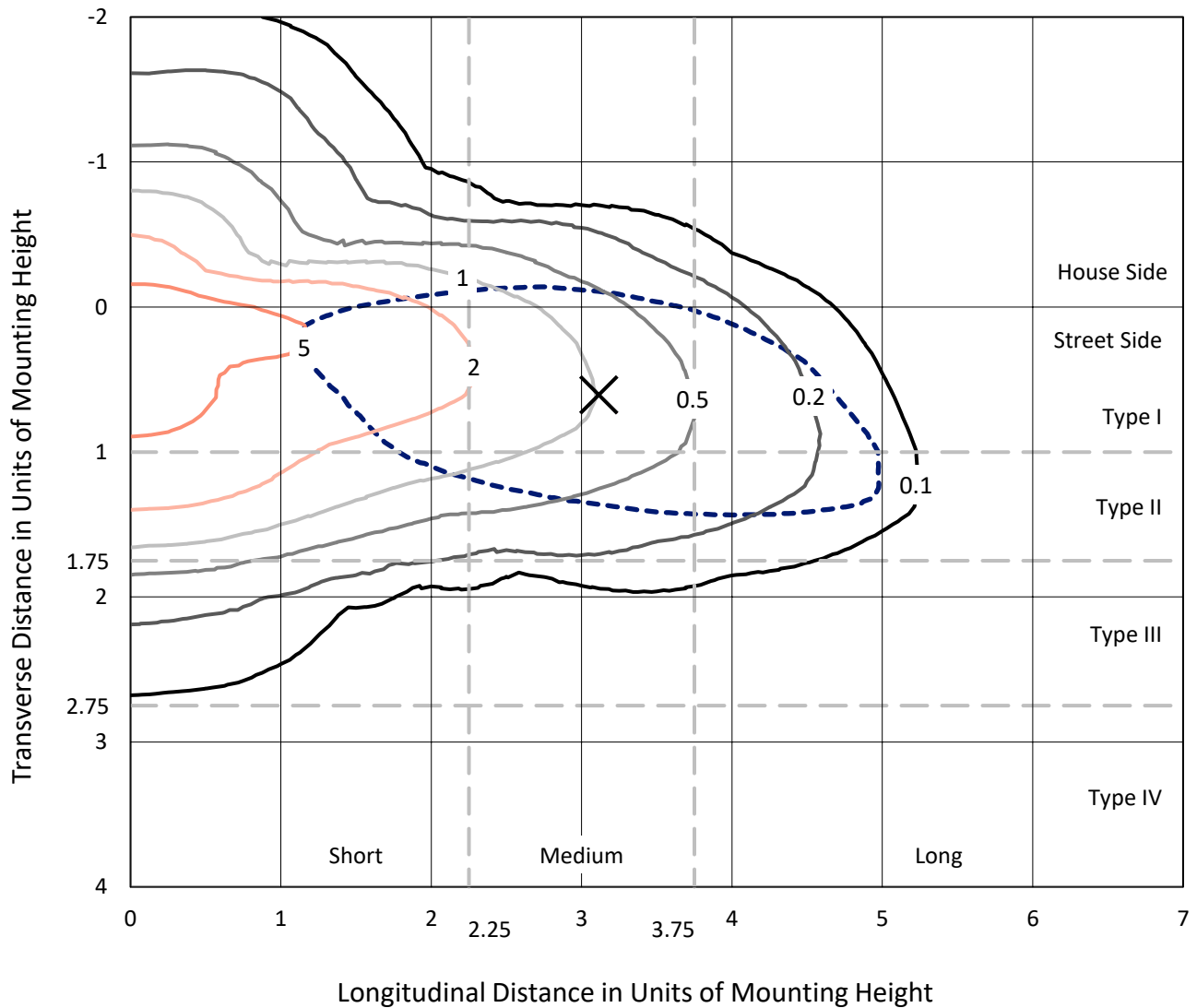
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

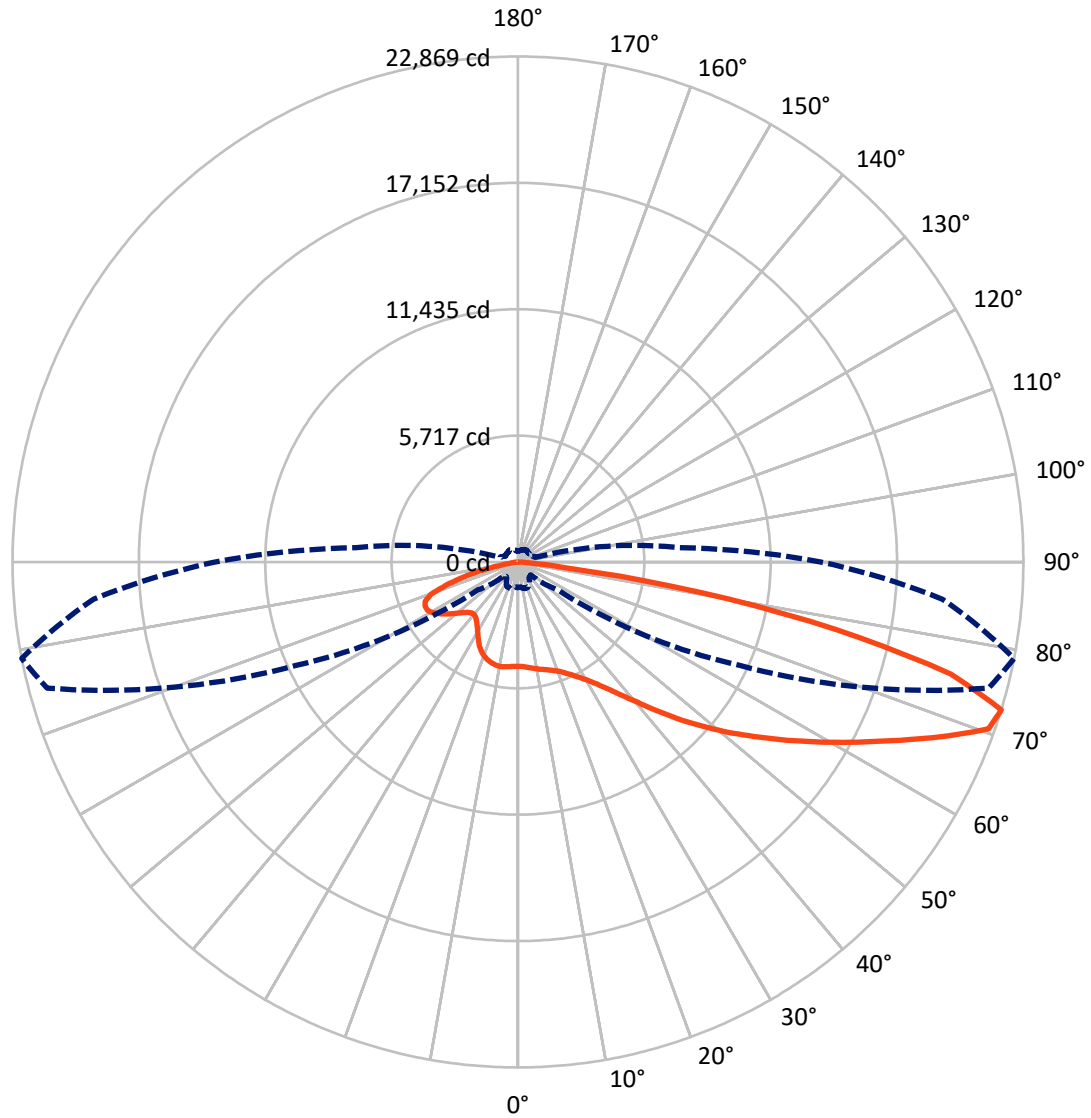
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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	5173.7	0.0	5173.7
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	18337.3	0.0	18337.3
	% Fixture	78.0	0.0	78.0
Total	Lumens	23511.0	0.0	23511.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.4	1.8
10°-20°	1120.1	4.8
20°-30°	1807.3	7.7
30°-40°	2712.5	11.5
40°-50°	3847.9	16.4
50°-60°	4859.4	20.7
60°-70°	4935.3	21.0
70°-80°	3363.7	14.3
80°-90°	436.4	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°	23511.0	100.0
0°-180°	23511.0	100.0



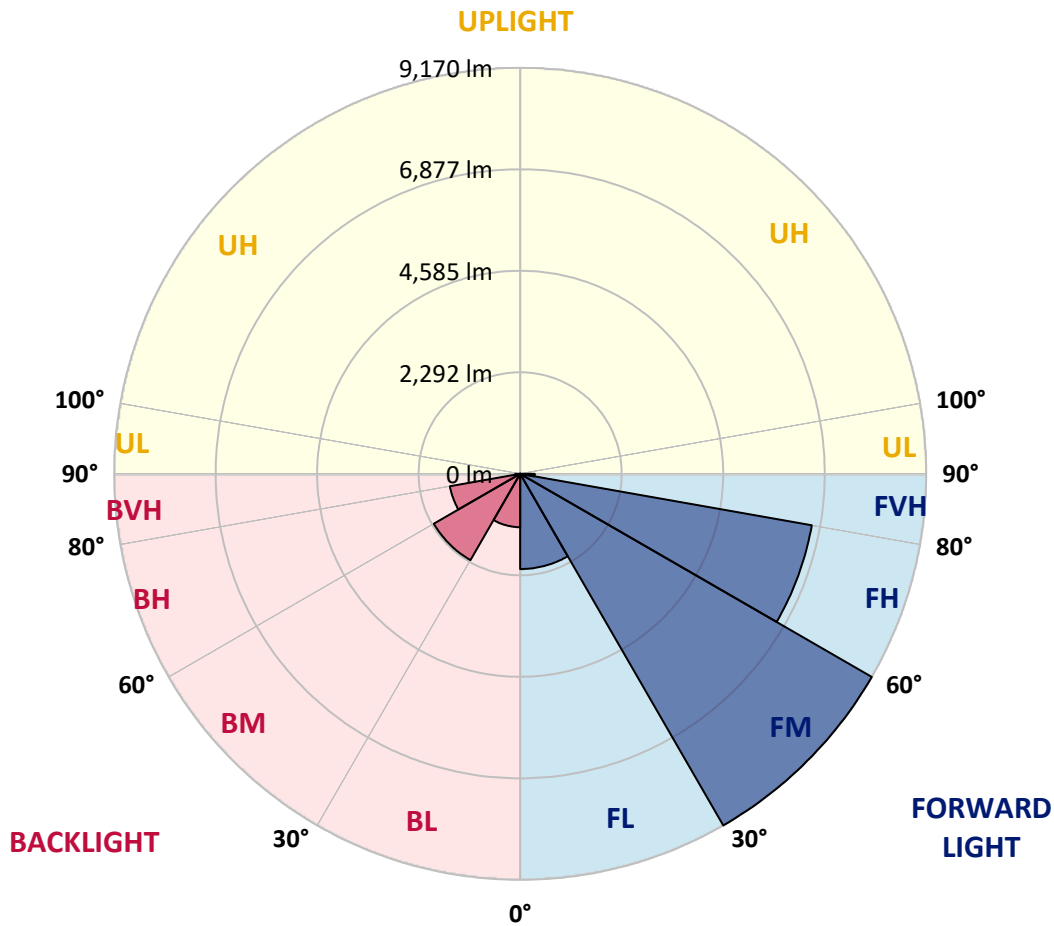
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2150.7	9.1			
FM (30°-60°)	9169.8	39.0			
FH (60°-80°)	6688.1	28.4			G3/7500
FVH (80°-90°)	328.7	1.4			G3/500
BL (0°-30°)	1205.1	5.1	B3/2500		
BM (30°-60°)	2250.0	9.6	B2/2500		
BH (60°-80°)	1610.9	6.9	B3/2500		G3/2500
BVH (80°-90°)	107.7	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-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	4719.6	4719.6	4719.6	4719.6	4719.6	4719.6	4719.6	4719.6	4719.6	4719.6
2.5°	4722.1	4699.7	4713.4	4708.4	4714.6	4722.1	4724.6	4728.3	4740.8	4739.5
5°	4712.1	4689.8	4708.4	4702.2	4718.4	4735.8	4750.7	4764.4	4784.3	4793.0
7.5°	4691.0	4676.1	4694.7	4713.4	4743.2	4769.4	4790.5	4821.6	4850.2	4855.2
10°	4567.9	4556.7	4600.2	4648.7	4730.8	4801.7	4847.7	4883.8	4914.9	4919.8
12.5°	4439.8	4426.1	4474.6	4540.5	4673.6	4801.7	4898.7	4946.0	4973.3	4989.5
15°	4418.6	4407.5	4434.8	4492.0	4602.7	4768.1	4933.5	5020.6	5044.2	5062.9
17.5°	4520.6	4499.5	4510.7	4530.6	4595.2	4737.0	4960.9	5105.1	5141.2	5161.1
20°	4756.9	4727.1	4709.7	4669.9	4658.7	4742.0	4958.4	5207.1	5254.4	5279.2
22.5°	5071.6	5051.7	5014.4	4913.6	4804.2	4802.9	5005.6	5337.7	5426.0	5449.6
25°	5452.1	5422.3	5375.0	5238.2	5028.0	4923.6	5085.2	5504.3	5652.3	5658.6
27.5°	5889.9	5845.1	5780.4	5600.1	5316.6	5112.6	5207.1	5695.9	5912.3	5909.8
30°	6351.3	6306.5	6238.1	6019.2	5662.3	5367.5	5376.3	5902.3	6220.7	6207.0
32.5°	6688.3	6654.7	6641.0	6471.9	6060.3	5668.5	5570.3	6131.1	6601.2	6588.8
35°	6947.0	6903.4	6919.6	6833.8	6494.3	6005.5	5807.8	6403.5	7063.9	7062.6
37.5°	7203.2	7164.6	7178.3	7121.1	6896.0	6433.3	6097.6	6736.8	7637.2	7664.5
40°	7437.0	7395.9	7450.6	7397.2	7208.1	6888.5	6427.1	7113.6	8301.3	8353.5
42.5°	7577.5	7545.2	7635.9	7637.2	7479.2	7272.8	6789.0	7529.0	9069.9	9186.8
45°	7626.0	7614.8	7751.6	7780.2	7719.3	7495.4	7114.9	7981.7	9898.1	10107.1
47.5°	7573.8	7552.6	7741.7	7847.4	7895.9	7599.9	7384.7	8471.7	10743.8	11049.7
50°	7310.1	7269.1	7550.1	7772.7	7945.6	7668.3	7657.1	9037.5	11705.1	12039.7
52.5°	6836.3	6805.2	7124.8	7511.6	7836.2	7701.9	7963.0	9655.6	12618.0	13050.7
55°	6230.6	6189.6	6541.5	7046.5	7563.8	7690.7	8269.0	10347.1	13695.0	14134.0
57.5°	5270.5	5188.5	5633.7	6230.6	7119.8	7677.0	8587.3	11034.8	14789.4	15315.4
60°	3870.2	3748.3	4294.3	5001.9	6251.8	7543.9	8981.6	11805.9	16102.6	16576.5
62.5°	2253.5	2182.6	2539.5	3199.9	4712.1	6760.4	9202.9	12702.5	17393.5	17891.0
65°	1749.8	1729.9	1761.0	1812.0	2622.8	5061.6	8520.2	13576.8	19035.1	19383.4
67.5°	1600.6	1585.6	1599.3	1503.6	1330.7	2819.3	6740.5	13798.2	20793.6	21005.1
70°	1422.7	1405.3	1450.1	1368.0	1047.1	1282.2	4355.2	12994.8	22192.7	22589.5
72.5°	1159.1	1139.2	1243.6	1206.3	881.7	823.3	2187.6	11085.8	22046.0	22869.3
75°	890.4	879.3	1003.6	1034.7	718.8	647.9	1049.6	8240.4	19400.8	20230.3
77.5°	691.5	682.8	746.2	859.4	579.5	502.4	645.4	5227.0	14620.2	14765.7
80°	518.6	493.7	552.2	665.3	451.4	366.9	437.8	3048.2	9241.5	8377.2
82.5°	324.6	312.2	360.7	444.0	318.4	252.5	284.8	1683.9	3703.6	2181.3
85°	185.3	180.3	196.5	253.7	172.9	145.5	162.9	743.7	676.5	465.1
87.5°	74.6	72.1	89.5	113.2	63.4	53.5	57.2	179.1	149.2	138.0
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°
4719.6	0°	4719.6	4719.6	4719.6	4719.6	4719.6	4719.6	4719.6	4719.6	4719.6	4719.6
4738.3	2.5°	4733.3	4733.3	4715.9	4688.5	4657.4	4637.5	4605.2	4596.5	4562.9	4553.0
4780.5	5°	4790.5	4780.5	4727.1	4650.0	4544.3	4447.3	4340.3	4273.1	4178.6	4145.0
4863.9	7.5°	4862.6	4835.3	4743.2	4574.1	4352.7	4135.1	3908.8	3737.1	3573.0	3514.5
4932.3	10°	4928.5	4890.0	4733.3	4437.3	4054.3	3677.4	3316.8	3064.3	2872.8	2794.5
5008.1	12.5°	4994.5	4923.6	4667.4	4209.7	3630.2	3119.0	2734.8	2538.3	2420.1	2325.6
5070.3	15°	5056.6	4957.1	4565.4	3905.0	3165.1	2646.5	2362.9	2206.2	2111.7	2049.5
5161.1	17.5°	5128.8	4985.7	4412.4	3518.3	2722.3	2319.4	2088.1	1993.6	1974.9	1967.4
5285.5	20°	5229.5	5011.9	4211.0	3085.5	2396.5	2058.2	1938.8	1930.1	1928.9	1925.2
5434.7	22.5°	5337.7	5043.0	3944.8	2692.5	2119.2	1895.3	1874.2	1856.8	1845.6	1844.3
5615.0	25°	5465.8	5052.9	3611.5	2370.4	1882.9	1818.2	1793.3	1767.2	1759.7	1759.7
5820.2	27.5°	5590.2	5019.3	3223.5	2090.6	1749.8	1747.3	1715.0	1706.3	1705.0	1708.8
6054.0	30°	5714.5	4955.9	2838.0	1831.9	1672.7	1672.7	1661.5	1667.7	1672.7	1685.1
6374.9	32.5°	5882.4	4888.7	2515.9	1640.4	1605.5	1593.1	1604.3	1616.7	1621.7	1637.9
6796.5	35°	6128.7	4841.5	2259.7	1535.9	1535.9	1519.7	1525.9	1523.5	1512.3	1504.8
7306.4	37.5°	6454.5	4839.0	2048.3	1487.4	1477.4	1475.0	1476.2	1460.0	1416.5	1364.3
7923.2	40°	6846.2	4906.2	1885.4	1453.8	1446.4	1461.3	1453.8	1410.3	1290.9	1200.1
8681.8	42.5°	7372.3	5097.7	1780.9	1412.8	1435.2	1453.8	1424.0	1273.5	1192.6	1131.7
9546.2	45°	7991.6	5408.6	1727.4	1369.2	1414.0	1436.4	1292.1	1226.2	1161.6	1088.2
10488.9	47.5°	8693.0	5800.3	1715.0	1328.2	1366.8	1380.4	1236.2	1206.3	1133.0	1053.4
11436.5	50°	9456.6	6264.2	1748.6	1279.7	1298.4	1251.1	1217.5	1190.2	1114.3	1036.0
12407.8	52.5°	10246.3	6775.3	1815.7	1213.8	1230.0	1177.7	1210.1	1186.4	1103.1	997.4
13411.4	55°	11022.4	7290.2	1880.4	1136.7	1160.3	1111.8	1188.9	1171.5	1052.1	932.7
14482.2	57.5°	11810.8	7802.6	1943.8	1068.3	1093.2	1048.4	1155.3	1131.7	994.9	873.0
15651.2	60°	12630.4	8300.0	1973.7	1002.4	1019.8	989.9	1104.4	1063.3	930.2	812.1
16800.3	62.5°	13397.7	8714.2	1925.2	936.5	947.7	935.2	1037.2	982.5	865.6	743.7
17997.9	65°	14167.5	8960.4	1775.9	871.8	874.3	868.1	942.7	895.4	789.7	684.0
19046.3	67.5°	14865.2	9098.5	1538.4	802.1	795.9	793.4	854.4	800.9	716.3	624.3
19843.5	70°	15013.2	8747.8	1175.2	720.1	720.1	713.8	757.4	702.7	635.5	560.9
19272.7	72.5°	13712.4	7358.6	834.5	626.8	636.7	624.3	660.4	614.4	553.4	503.7
16610.0	75°	11057.2	5396.1	606.9	531.0	548.4	527.3	560.9	528.5	476.3	475.1
11446.5	77.5°	7597.4	3336.7	440.2	437.8	450.2	422.8	461.4	444.0	396.7	375.6
4982.0	80°	3242.2	1330.7	320.9	338.3	338.3	313.4	358.2	363.1	322.1	312.2
961.3	82.5°	645.4	378.1	225.1	232.6	218.9	211.4	253.7	281.1	388.0	431.5
289.8	85°	194.0	139.3	135.6	126.9	111.9	113.2	149.2	282.3	348.2	199.0
95.8	87.5°	53.5	34.8	36.1	28.6	23.6	31.1	51.0	213.9	116.9	49.7
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>
4719.6
4569.1
4169.9
3522.0
2811.9
2356.7
2060.7
1972.4
1937.6
1858.0
1767.2
1718.7
1693.8
1651.6
1522.2
1365.5
1197.6
1129.2
1083.2
1047.1
1027.2
989.9
926.5
870.5
808.4
742.5
676.5
616.8
558.4
488.8
427.8
351.9
312.2
432.8
171.6
42.3
0.0

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