

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: P955168

Luminaire Tested: **GALN-SB8A-950-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955168
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-SB8A-950-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 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: 25080 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

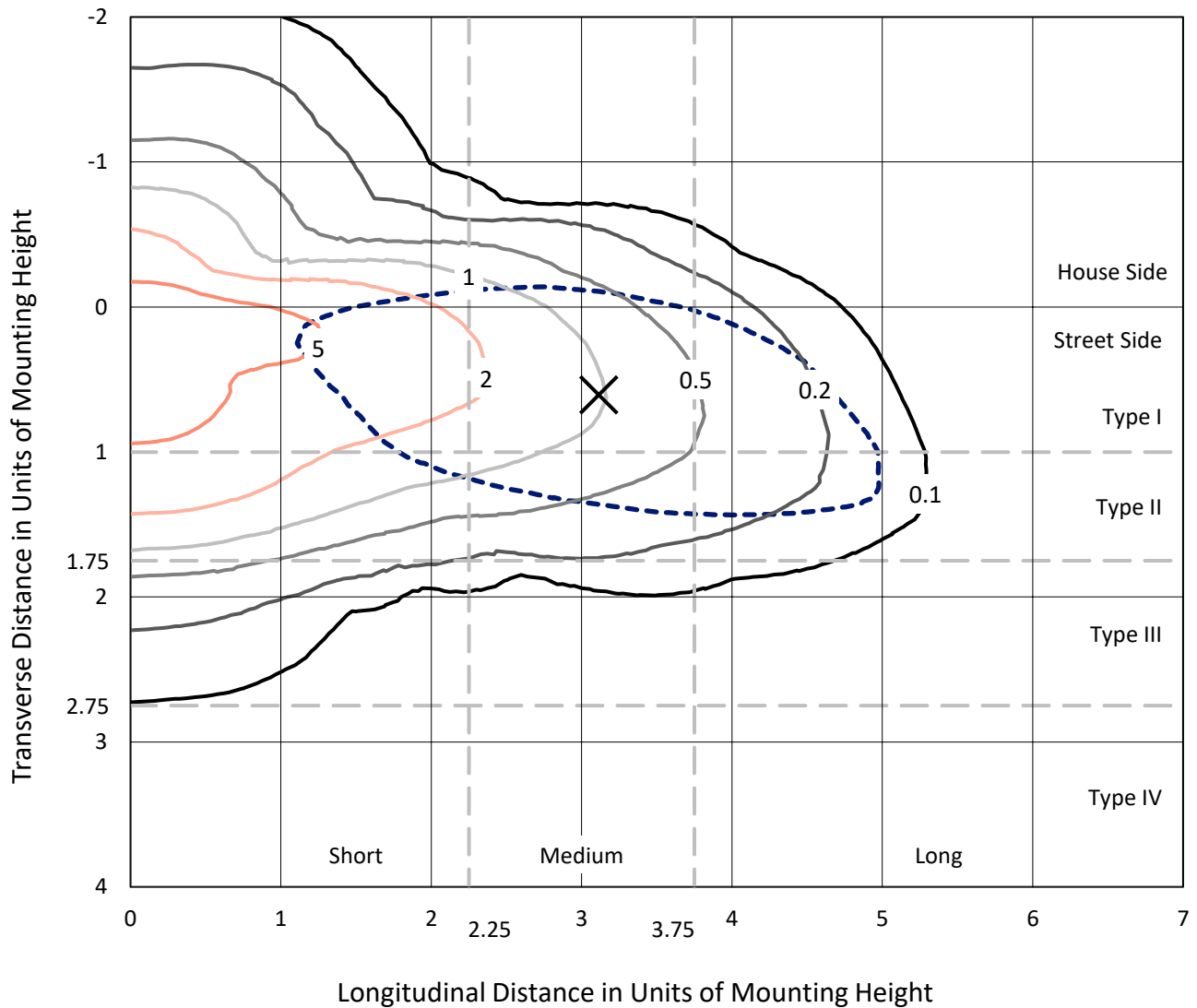
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

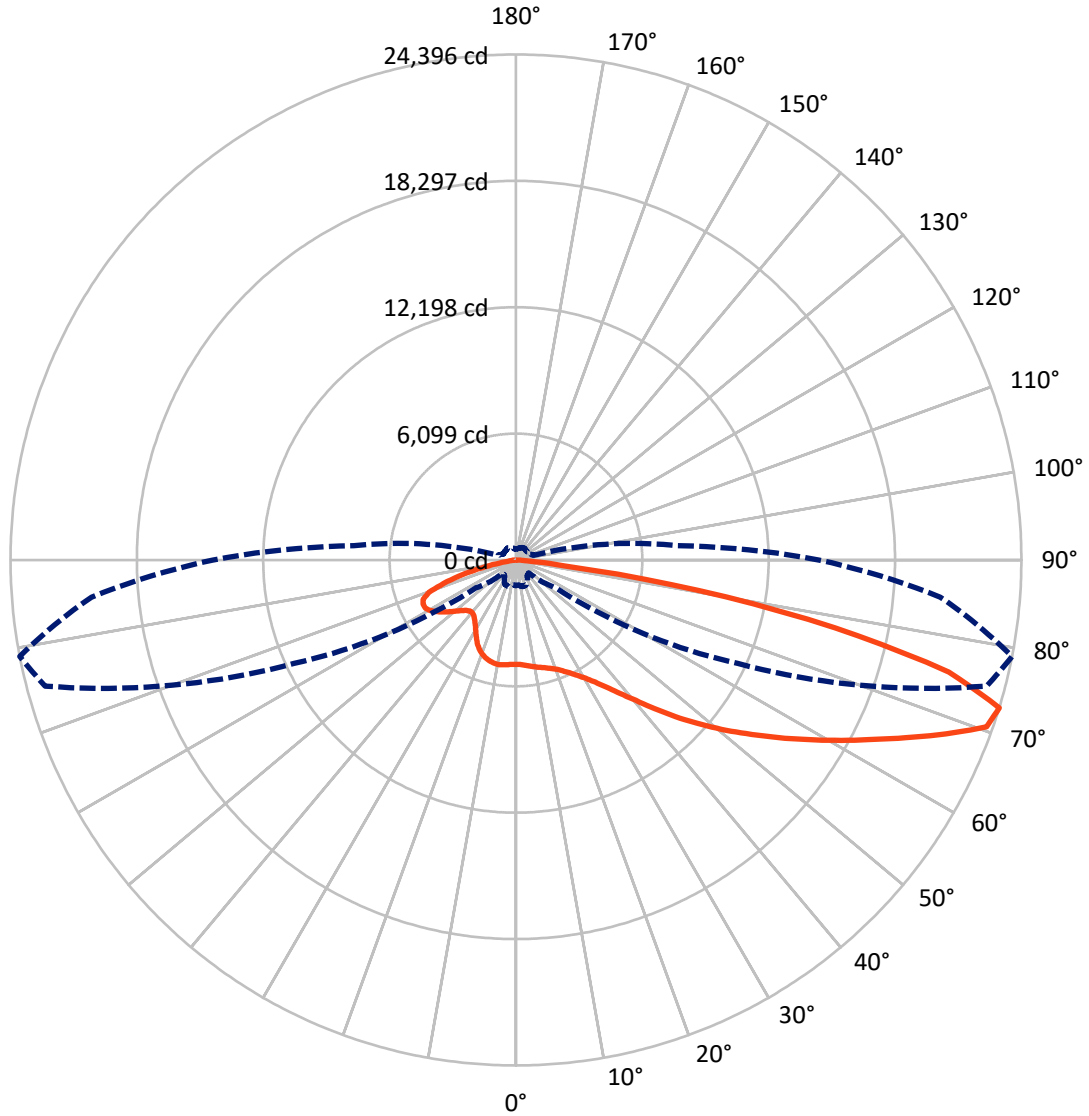
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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	5519.0	0.0	5519.0
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	19561.0	0.0	19561.0
	% Fixture	78.0	0.0	78.0
Total	Lumens	25080.0	0.0	25080.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	457.0	1.8
10°-20°	1194.8	4.8
20°-30°	1927.9	7.7
30°-40°	2893.6	11.5
40°-50°	4104.7	16.4
50°-60°	5183.7	20.7
60°-70°	5264.7	21.0
70°-80°	3588.1	14.3
80°-90°	465.5	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°	25080.0	100.0
0°-180°	25080.0	100.0



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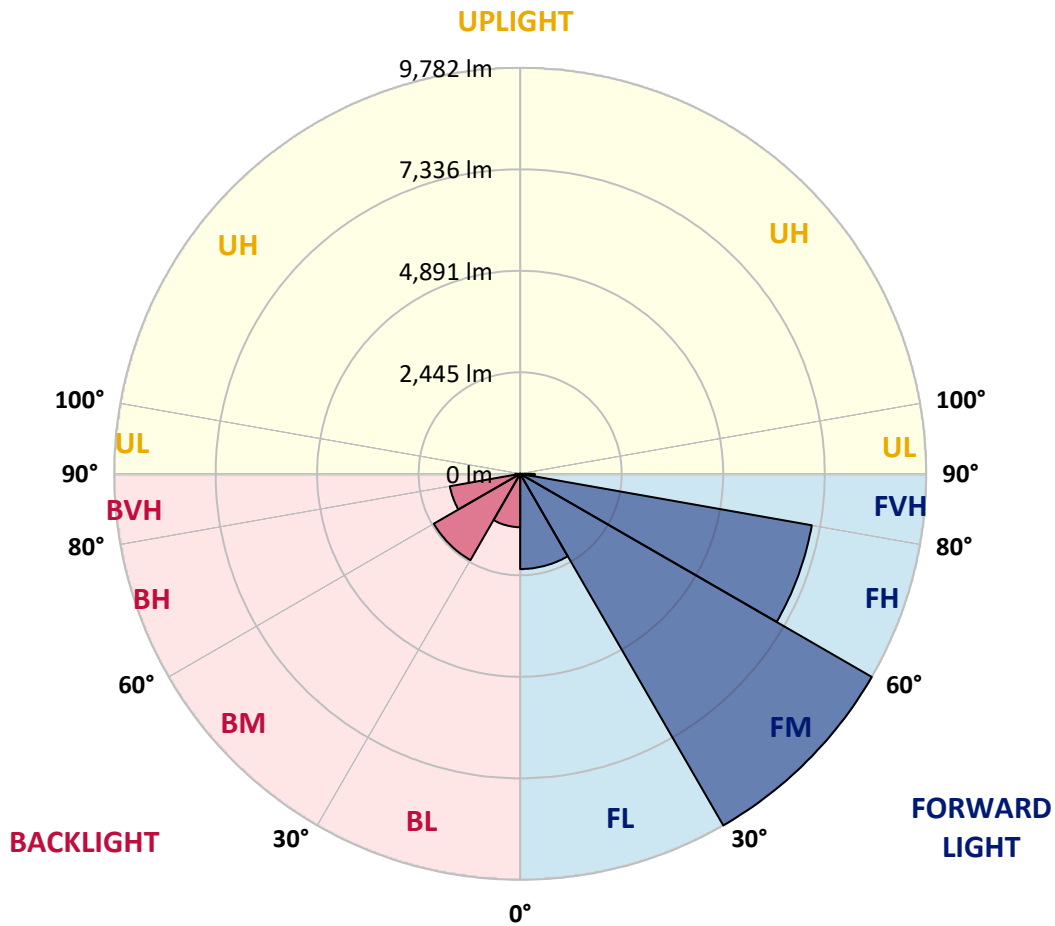
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2294.2	9.1			
FM (30°-60°)	9781.7	39.0			
FH (60°-80°)	7134.4	28.4			G3/7500
FVH (80°-90°)	350.7	1.4			G3/500
BL (0°-30°)	1285.5	5.1	B3/2500		
BM (30°-60°)	2400.2	9.6	B2/2500		
BH (60°-80°)	1718.4	6.9	B3/2500		G3/2500
BVH (80°-90°)	114.8	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°	5034.6	5034.6	5034.6	5034.6	5034.6	5034.6	5034.6	5034.6	5034.6	5034.6
2.5°	5037.2	5013.3	5027.9	5022.6	5029.3	5037.2	5039.9	5043.9	5057.1	5055.8
5°	5026.6	5002.7	5022.6	5016.0	5033.2	5051.8	5067.7	5082.3	5103.6	5112.8
7.5°	5004.1	4988.1	5008.0	5027.9	5059.8	5087.6	5110.2	5143.4	5173.9	5179.2
10°	4872.7	4860.8	4907.2	4959.0	5046.5	5122.1	5171.2	5209.7	5242.9	5248.2
12.5°	4736.1	4721.5	4773.2	4843.5	4985.5	5122.1	5225.6	5276.0	5305.2	5322.5
15°	4713.5	4701.6	4730.8	4791.8	4909.9	5086.3	5262.8	5355.6	5380.8	5400.7
17.5°	4822.3	4799.8	4811.7	4832.9	4901.9	5053.1	5291.9	5445.8	5484.3	5505.5
20°	5074.4	5042.5	5024.0	4981.5	4969.6	5058.5	5289.3	5554.6	5605.0	5631.6
22.5°	5410.0	5388.8	5349.0	5241.5	5124.8	5123.5	5339.7	5693.9	5788.1	5813.3
25°	5816.0	5784.1	5733.7	5587.8	5363.6	5252.1	5424.6	5871.7	6029.5	6036.2
27.5°	6282.9	6235.2	6166.2	5973.8	5671.4	5453.8	5554.6	6076.0	6306.8	6304.2
30°	6775.1	6727.4	6654.4	6420.9	6040.2	5725.7	5735.0	6296.2	6635.8	6621.2
32.5°	7134.6	7098.8	7084.2	6903.8	6464.7	6046.8	5942.0	6540.3	7041.8	7028.5
35°	7410.6	7364.1	7381.4	7289.8	6927.7	6406.3	6195.4	6830.8	7535.3	7533.9
37.5°	7683.9	7642.7	7657.3	7596.3	7356.2	6862.7	6504.5	7186.4	8146.9	8176.0
40°	7933.3	7889.5	7947.9	7890.8	7689.2	7348.2	6856.0	7588.3	8855.3	8911.0
42.5°	8083.2	8048.7	8145.5	8146.9	7978.4	7758.1	7242.1	8031.4	9675.1	9799.8
45°	8134.9	8123.0	8268.9	8299.4	8234.4	7995.6	7589.7	8514.3	10558.7	10781.5
47.5°	8079.2	8056.6	8258.3	8371.1	8422.8	8107.1	7877.5	9037.0	11460.8	11787.1
50°	7797.9	7754.2	8054.0	8291.5	8475.9	8180.0	8168.1	9640.6	12486.3	12843.1
52.5°	7292.5	7259.3	7600.3	8012.9	8359.1	8215.8	8494.4	10300.0	13460.0	13921.7
55°	6646.4	6602.7	6978.1	7516.7	8068.6	8203.9	8820.8	11037.6	14608.9	15077.2
57.5°	5622.3	5534.7	6009.6	6646.4	7595.0	8189.3	9160.4	11771.2	15776.3	16337.5
60°	4128.5	3998.5	4580.9	5335.7	6669.0	8047.4	9580.9	12593.7	17177.2	17682.7
62.5°	2403.9	2328.2	2709.0	3413.4	5026.6	7211.6	9817.1	13550.2	18554.3	19084.9
65°	1866.6	1845.3	1878.5	1932.9	2797.9	5399.4	9088.8	14482.9	20305.4	20676.9
67.5°	1707.4	1691.5	1706.0	1603.9	1419.5	3007.5	7190.3	14719.0	22181.3	22406.8
70°	1517.7	1499.1	1546.9	1459.3	1117.0	1367.8	4645.9	13862.0	23673.8	24097.0
72.5°	1236.4	1215.2	1326.6	1286.8	940.6	878.2	2333.5	11825.6	23517.2	24395.5
75°	949.9	937.9	1070.6	1103.8	766.8	691.2	1119.7	8790.3	20695.5	21580.3
77.5°	737.6	728.3	796.0	916.7	618.2	536.0	688.5	5575.8	15595.9	15751.1
80°	553.2	526.7	589.0	709.7	481.6	391.4	467.0	3251.6	9858.2	8936.2
82.5°	346.3	333.0	384.7	473.6	339.6	269.3	303.8	1796.3	3950.7	2326.9
85°	197.7	192.4	209.6	270.6	184.4	155.2	173.8	793.3	721.7	496.2
87.5°	79.6	76.9	95.5	120.7	67.7	57.0	61.0	191.0	159.2	147.3
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°
5034.6	0°	5034.6	5034.6	5034.6	5034.6	5034.6	5034.6	5034.6	5034.6	5034.6	5034.6
5054.5	2.5°	5049.2	5049.2	5030.6	5001.4	4968.2	4947.0	4912.5	4903.2	4867.4	4856.8
5099.6	5°	5110.2	5099.6	5042.5	4960.3	4847.5	4744.0	4629.9	4558.3	4457.5	4421.7
5188.5	7.5°	5187.1	5157.9	5059.8	4879.4	4643.2	4411.1	4169.6	3986.5	3811.4	3749.1
5261.4	10°	5257.4	5216.3	5049.2	4733.4	4324.8	3922.9	3538.1	3268.8	3064.5	2980.9
5342.4	12.5°	5327.8	5252.1	4978.9	4490.7	3872.4	3327.2	2917.3	2707.7	2581.6	2480.8
5408.7	15°	5394.1	5288.0	4870.1	4165.6	3376.3	2823.1	2520.6	2353.4	2252.6	2186.3
5505.5	17.5°	5471.0	5318.5	4706.9	3753.0	2904.0	2474.2	2227.4	2126.6	2106.7	2098.7
5638.2	20°	5578.5	5346.3	4492.0	3291.4	2556.4	2195.6	2068.2	2058.9	2057.6	2053.6
5797.4	22.5°	5693.9	5379.5	4208.1	2872.2	2260.6	2021.8	1999.2	1980.7	1968.7	1967.4
5989.7	25°	5830.6	5390.1	3852.5	2528.6	2008.5	1939.5	1913.0	1885.1	1877.2	1877.2
6208.6	27.5°	5963.2	5354.3	3438.6	2230.1	1866.6	1863.9	1829.4	1820.1	1818.8	1822.8
6458.0	30°	6095.9	5286.6	3027.4	1954.1	1784.3	1784.3	1772.4	1779.0	1784.3	1797.6
6800.3	32.5°	6275.0	5215.0	2683.8	1749.8	1712.7	1699.4	1711.4	1724.6	1729.9	1747.2
7250.0	35°	6537.6	5164.6	2410.5	1638.4	1638.4	1621.1	1627.8	1625.1	1613.2	1605.2
7794.0	37.5°	6885.2	5161.9	2185.0	1586.7	1576.0	1573.4	1574.7	1557.5	1511.0	1455.3
8452.0	40°	7303.1	5233.6	2011.2	1550.8	1542.9	1558.8	1550.8	1504.4	1377.0	1280.2
9261.2	42.5°	7864.3	5437.9	1899.7	1507.1	1530.9	1550.8	1519.0	1358.5	1272.2	1207.2
10183.2	45°	8524.9	5769.5	1842.7	1460.6	1508.4	1532.3	1378.4	1308.1	1239.1	1160.8
11188.8	47.5°	9273.2	6187.4	1829.4	1416.8	1458.0	1472.6	1318.7	1286.8	1208.6	1123.7
12199.7	50°	10087.7	6682.2	1865.2	1365.1	1385.0	1334.6	1298.8	1269.6	1188.7	1105.1
13235.8	52.5°	10930.1	7227.5	1936.9	1294.8	1312.0	1256.3	1290.8	1265.6	1176.7	1064.0
14306.4	55°	11757.9	7776.7	2005.9	1212.5	1237.7	1186.0	1268.3	1249.7	1122.3	995.0
15448.6	57.5°	12599.0	8323.3	2073.5	1139.6	1166.1	1118.4	1232.4	1207.2	1061.3	931.3
16695.7	60°	13473.3	8853.9	2105.4	1069.3	1087.8	1056.0	1178.0	1134.3	992.3	866.3
17921.5	62.5°	14291.8	9295.7	2053.6	999.0	1010.9	997.6	1106.4	1048.0	923.3	793.3
19199.0	65°	15113.0	9558.4	1894.4	930.0	932.6	926.0	1005.6	955.2	842.4	729.6
20317.4	67.5°	15857.2	9705.6	1641.0	855.7	849.0	846.4	911.4	854.4	764.1	666.0
21167.8	70°	16015.1	9331.5	1253.7	768.1	768.1	761.5	807.9	749.5	677.9	598.3
20558.8	72.5°	14627.5	7849.7	890.2	668.6	679.2	666.0	704.4	655.4	590.4	537.3
17718.5	75°	11795.1	5756.3	647.4	566.5	585.0	562.5	598.3	563.8	508.1	506.8
12210.3	77.5°	8104.4	3559.4	469.6	467.0	480.2	451.1	492.2	473.6	423.2	400.6
5314.5	80°	3458.5	1419.5	342.3	360.8	360.8	334.3	382.1	387.4	343.6	333.0
1025.5	82.5°	688.5	403.3	240.1	248.1	233.5	225.5	270.6	299.8	413.9	460.3
309.1	85°	207.0	148.6	144.6	135.3	119.4	120.7	159.2	301.1	371.5	212.3
102.2	87.5°	57.0	37.1	38.5	30.5	25.2	33.2	54.4	228.2	124.7	53.1
0.0	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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<u>180°</u>
5034.6
4874.0
4448.2
3757.0
2999.5
2514.0
2198.2
2104.0
2066.9
1982.0
1885.1
1833.4
1806.9
1761.8
1623.8
1456.6
1277.5
1204.6
1155.5
1117.0
1095.8
1056.0
988.3
928.6
862.3
792.0
721.7
658.0
595.7
521.4
456.4
375.4
333.0
461.7
183.1
45.1
0.0

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