

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: P951094

Luminaire Tested: **GALN-SB5B-835-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951094
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-835-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3500K, 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: 26224 lumens
Efficiency: N/A
Efficacy: 143.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

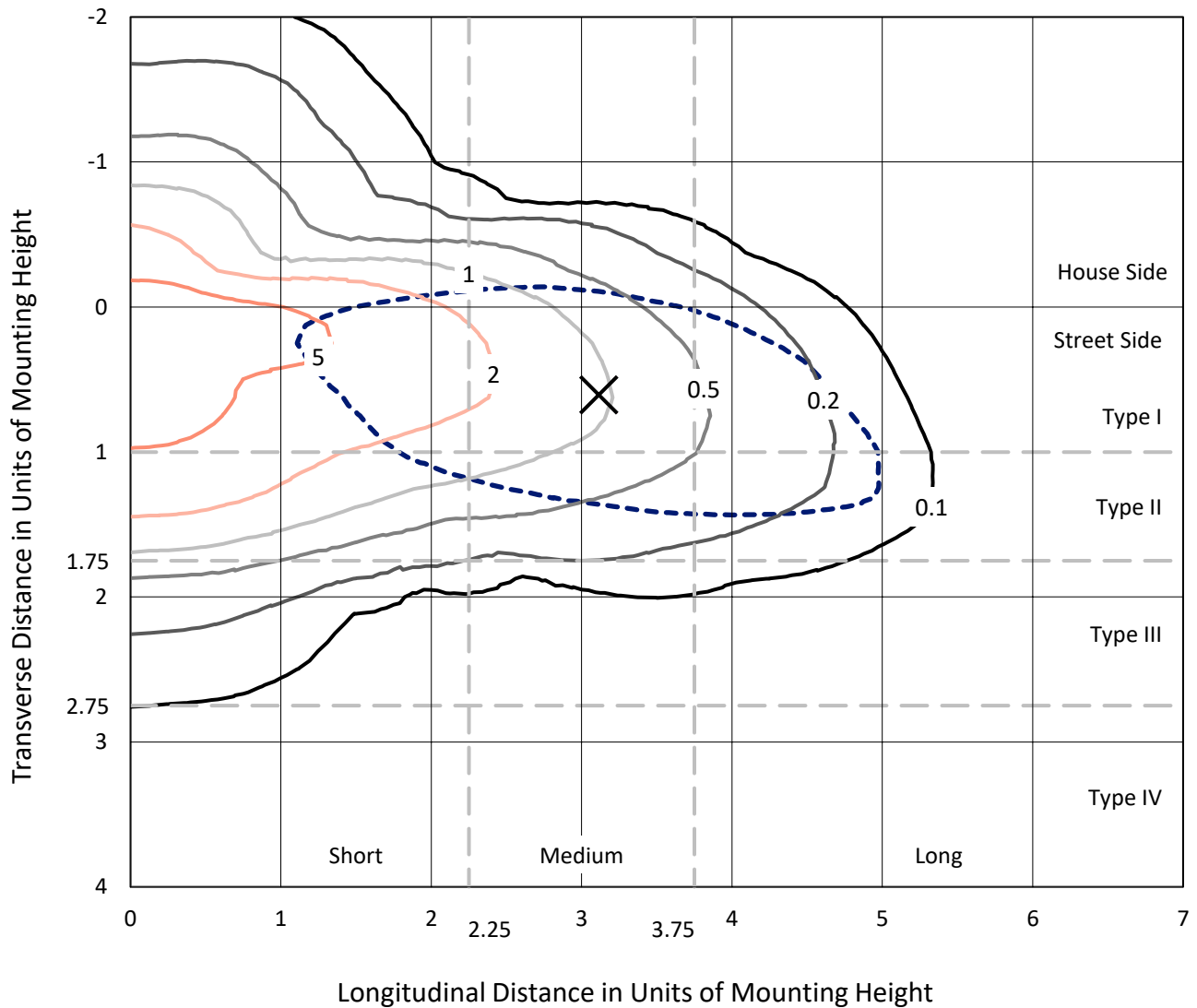
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

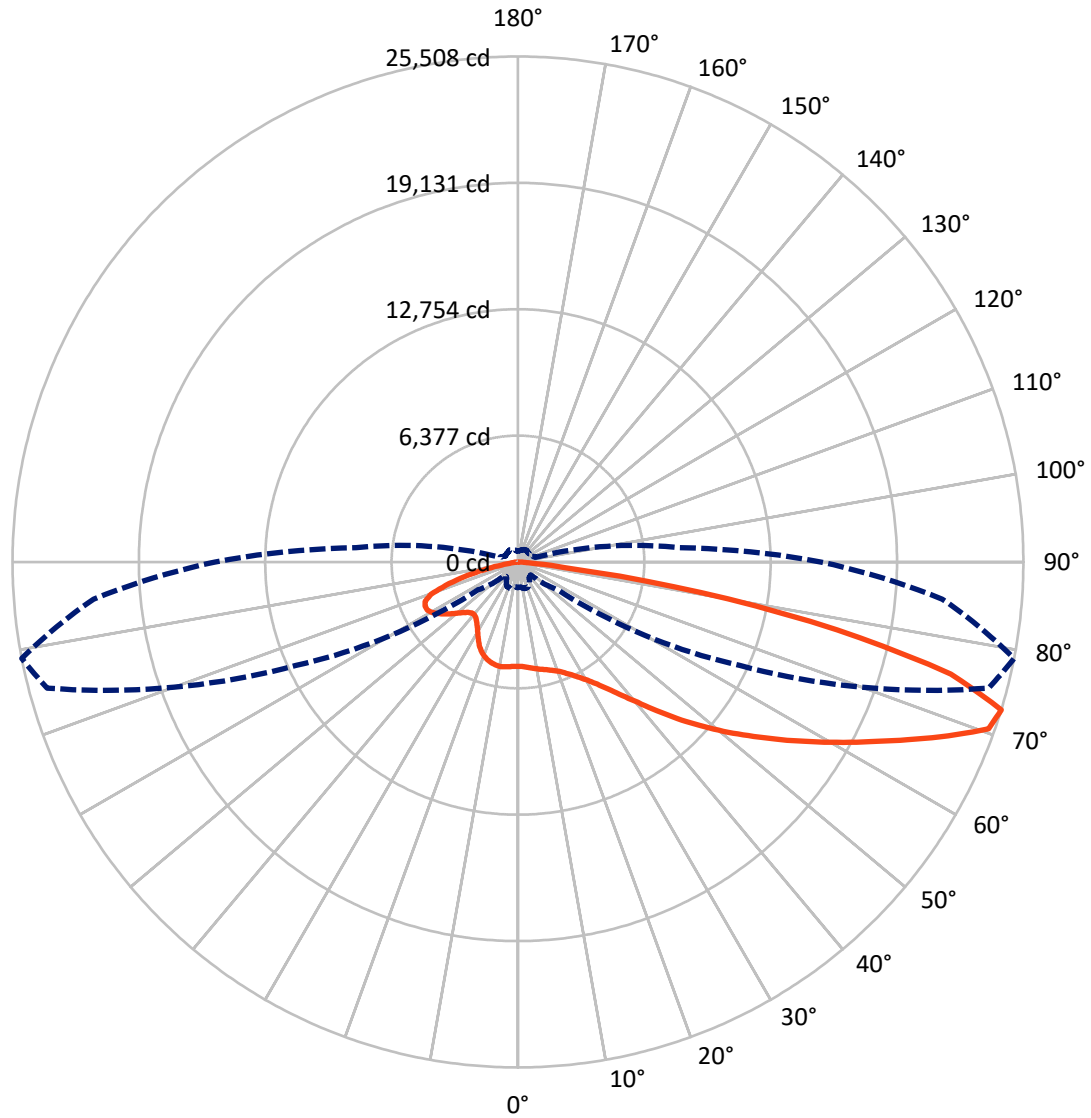
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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	5770.7	0.0	5770.7
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	20453.3	0.0	20453.3
	% Fixture	78.0	0.0	78.0
Total	Lumens	26224.0	0.0	26224.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	477.8	1.8
10°-20°	1249.3	4.8
20°-30°	2015.9	7.7
30°-40°	3025.5	11.5
40°-50°	4291.9	16.4
50°-60°	5420.1	20.7
60°-70°	5504.9	21.0
70°-80°	3751.8	14.3
80°-90°	486.8	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°	26224.0	100.0
0°-180°	26224.0	100.0

Coefficient of Utilization



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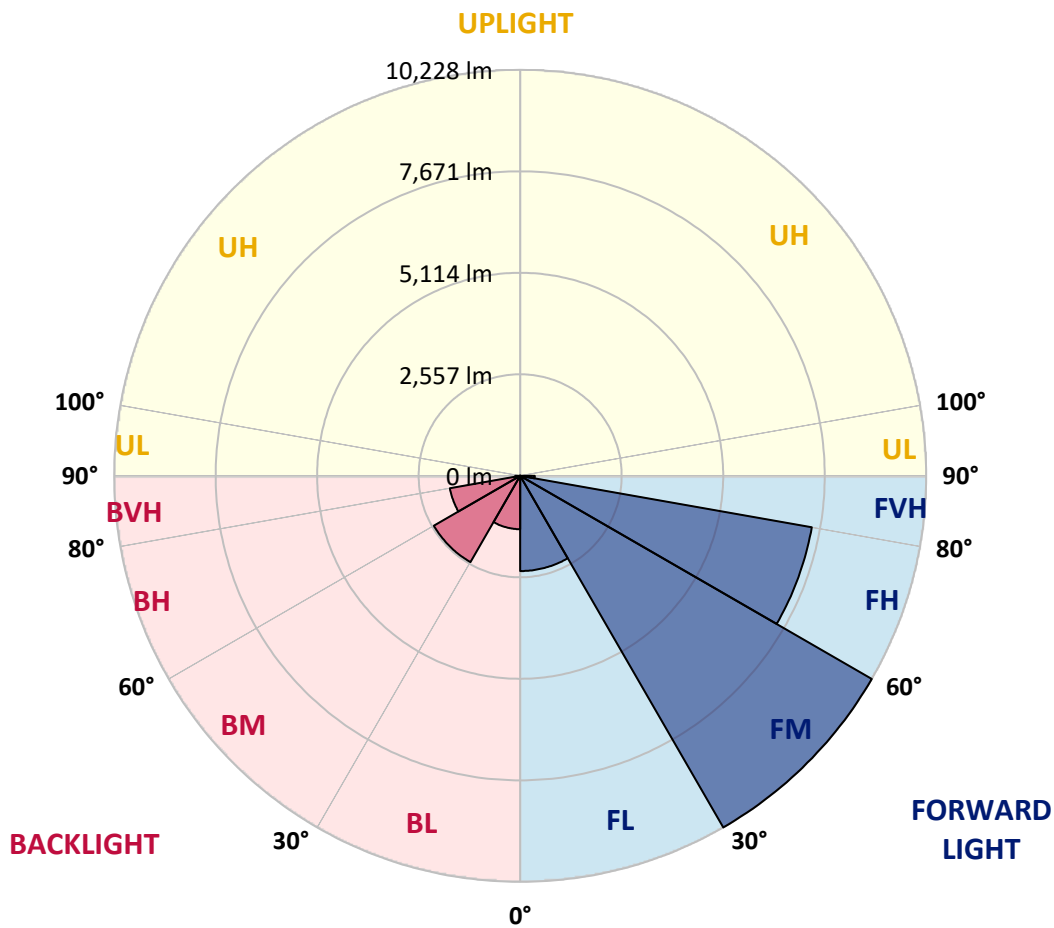
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2398.9	9.1			
FM (30°-60°)	10227.9	39.0			
FH (60°-80°)	7459.8	28.4			G3/7500
FVH (80°-90°)	366.7	1.4			G3/500
BL (0°-30°)	1344.2	5.1	B3/2500		
BM (30°-60°)	2509.7	9.6	B3/5000		
BH (60°-80°)	1796.8	6.9	B3/2500		G3/2500
BVH (80°-90°)	120.1	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°	5264.2	5264.2	5264.2	5264.2	5264.2	5264.2	5264.2	5264.2	5264.2	5264.2
2.5°	5267.0	5242.0	5257.3	5251.7	5258.7	5267.0	5269.8	5273.9	5287.8	5286.4
5°	5255.9	5230.9	5251.7	5244.8	5262.8	5282.3	5298.9	5314.2	5336.4	5346.1
7.5°	5232.3	5215.7	5236.5	5257.3	5290.6	5319.7	5343.3	5378.0	5409.9	5415.4
10°	5095.0	5082.5	5131.1	5185.2	5276.7	5355.8	5407.1	5447.3	5482.0	5487.5
12.5°	4952.1	4936.9	4991.0	5064.5	5212.9	5355.8	5464.0	5516.7	5547.2	5565.2
15°	4928.5	4916.0	4946.6	5010.4	5133.8	5318.3	5502.8	5599.9	5626.3	5647.1
17.5°	5042.3	5018.7	5031.2	5053.4	5125.5	5283.6	5533.3	5694.2	5734.5	5756.7
20°	5305.8	5272.5	5253.1	5208.7	5196.2	5289.2	5530.6	5808.0	5860.7	5888.4
22.5°	5656.8	5634.6	5593.0	5480.6	5358.5	5357.2	5583.3	5953.6	6052.1	6078.5
25°	6081.2	6048.0	5995.2	5842.7	5608.2	5491.7	5672.0	6139.5	6304.6	6311.5
27.5°	6569.5	6519.6	6447.5	6246.3	5930.0	5702.6	5808.0	6353.1	6594.5	6591.7
30°	7084.2	7034.2	6957.9	6713.8	6315.7	5986.9	5996.6	6583.4	6938.5	6923.2
32.5°	7460.1	7422.6	7407.4	7218.7	6759.6	6322.6	6213.0	6838.6	7363.0	7349.1
35°	7748.6	7700.0	7718.1	7622.4	7243.7	6698.5	6478.0	7142.4	7879.0	7877.6
37.5°	8034.3	7991.3	8006.6	7942.8	7691.7	7175.7	6801.2	7514.2	8518.5	8549.0
40°	8295.1	8249.4	8310.4	8250.7	8039.9	7683.4	7168.8	7934.5	9259.2	9317.5
42.5°	8451.9	8415.8	8517.1	8518.5	8342.3	8112.0	7572.4	8397.8	10116.5	10246.8
45°	8506.0	8493.5	8646.1	8678.0	8610.0	8360.3	7935.9	8902.7	11040.3	11273.3
47.5°	8447.7	8424.1	8635.0	8752.9	8807.0	8476.8	8236.9	9449.2	11983.6	12324.8
50°	8153.6	8107.9	8421.4	8669.7	8862.5	8553.1	8540.7	10080.4	13055.8	13429.0
52.5°	7625.1	7590.5	7947.0	8378.4	8740.4	8590.6	8881.9	10769.8	14074.0	14556.7
55°	6949.6	6903.8	7296.4	7859.6	8436.6	8578.1	9223.1	11541.1	15275.3	15764.9
57.5°	5878.7	5787.2	6283.8	6949.6	7941.4	8562.9	9578.2	12308.1	16495.9	17082.7
60°	4316.8	4180.9	4789.8	5579.1	6973.2	8414.4	10018.0	13168.2	17960.8	18489.3
62.5°	2513.5	2434.4	2832.6	3569.1	5255.9	7540.5	10264.9	14168.3	19400.6	19955.5
65°	1951.7	1929.5	1964.2	2021.1	2925.5	5645.7	9503.3	15143.5	21231.7	21620.1
67.5°	1785.3	1768.6	1783.9	1677.1	1484.2	3144.7	7518.3	15390.4	23193.1	23428.9
70°	1586.9	1567.5	1617.4	1525.9	1168.0	1430.1	4857.8	14494.3	24753.6	25196.1
72.5°	1292.8	1270.6	1387.1	1345.5	983.5	918.3	2440.0	12365.0	24589.9	25508.2
75°	993.2	980.7	1119.4	1154.1	801.8	722.7	1170.8	9191.2	21639.5	22564.7
77.5°	771.3	761.5	832.3	958.5	646.4	560.4	719.9	5830.2	16307.3	16469.6
80°	578.4	550.7	615.9	742.1	503.5	409.2	488.3	3399.9	10307.9	9343.8
82.5°	362.0	348.2	402.3	495.2	355.1	281.6	317.7	1878.2	4130.9	2433.1
85°	206.7	201.1	219.2	283.0	192.8	162.3	181.7	829.5	754.6	518.8
87.5°	83.2	80.5	99.9	126.2	70.7	59.6	63.8	199.7	166.5	154.0
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°
5264.2	0°	5264.2	5264.2	5264.2	5264.2	5264.2	5264.2	5264.2	5264.2	5264.2	5264.2
5285.0	2.5°	5279.5	5279.5	5260.1	5229.5	5194.9	5172.7	5136.6	5126.9	5089.4	5078.3
5332.2	5°	5343.3	5332.2	5272.5	5186.5	5068.6	4960.4	4841.1	4766.2	4660.8	4623.4
5425.1	7.5°	5423.7	5393.2	5290.6	5101.9	4855.0	4612.3	4359.8	4168.4	3985.3	3920.1
5501.4	10°	5497.3	5454.3	5279.5	4949.3	4522.1	4101.8	3699.5	3417.9	3204.3	3116.9
5586.0	12.5°	5570.8	5491.7	5206.0	4695.5	4049.1	3479.0	3050.3	2831.2	2699.4	2594.0
5655.4	15°	5640.1	5529.2	5092.2	4355.6	3530.3	2951.8	2635.6	2460.8	2355.4	2286.0
5756.7	17.5°	5720.6	5561.1	4921.6	3924.2	3036.5	2587.0	2329.0	2223.6	2202.8	2194.5
5895.4	20°	5832.9	5590.2	4696.9	3441.5	2673.0	2295.7	2162.6	2152.9	2151.5	2147.3
6061.8	22.5°	5953.6	5624.9	4400.0	3003.2	2363.7	2114.0	2090.4	2071.0	2058.5	2057.1
6263.0	25°	6096.5	5636.0	4028.3	2643.9	2100.1	2028.0	2000.3	1971.1	1962.8	1962.8
6491.8	27.5°	6235.2	5598.5	3595.5	2331.8	1951.7	1948.9	1912.9	1903.2	1901.8	1905.9
6752.6	30°	6373.9	5527.8	3165.5	2043.3	1865.7	1865.7	1853.2	1860.2	1865.7	1879.6
7110.5	32.5°	6561.2	5452.9	2806.2	1829.6	1790.8	1776.9	1789.4	1803.3	1808.8	1826.9
7580.8	35°	6835.9	5400.2	2520.4	1713.1	1713.1	1695.1	1702.0	1699.3	1686.8	1678.4
8149.5	37.5°	7199.3	5397.4	2284.6	1659.0	1647.9	1645.2	1646.5	1628.5	1580.0	1521.7
8837.5	40°	7636.2	5472.3	2102.9	1621.6	1613.3	1629.9	1621.6	1573.0	1439.9	1338.6
9683.7	42.5°	8223.0	5685.9	1986.4	1575.8	1600.8	1621.6	1588.3	1420.4	1330.3	1262.3
10647.7	45°	8913.8	6032.7	1926.7	1527.2	1577.2	1602.2	1441.2	1367.7	1295.6	1213.8
11699.2	47.5°	9696.1	6469.6	1912.9	1481.5	1524.5	1539.7	1378.8	1345.5	1263.7	1174.9
12756.2	50°	10547.9	6987.1	1950.3	1427.4	1448.2	1395.5	1358.0	1327.5	1242.9	1155.5
13839.6	52.5°	11428.7	7557.2	2025.2	1353.9	1371.9	1313.6	1349.7	1323.3	1230.4	1112.5
14959.0	55°	12294.3	8131.4	2097.4	1267.9	1294.2	1240.1	1326.1	1306.7	1173.5	1040.4
16153.3	57.5°	13173.7	8703.0	2168.1	1191.6	1219.3	1169.4	1288.7	1262.3	1109.7	973.8
17457.2	60°	14087.9	9257.8	2201.4	1118.0	1137.5	1104.2	1231.8	1186.0	1037.6	905.8
18739.0	62.5°	14943.7	9719.7	2147.3	1044.5	1057.0	1043.1	1156.9	1095.8	965.5	829.5
20074.8	65°	15802.4	9994.4	1980.8	972.4	975.2	968.2	1051.5	998.7	880.8	762.9
21244.1	67.5°	16580.6	10148.4	1715.9	894.7	887.8	885.0	953.0	893.3	799.0	696.3
22133.3	70°	16745.6	9757.2	1310.9	803.2	803.2	796.2	844.8	783.7	708.8	625.6
21496.6	72.5°	15294.7	8207.7	930.8	699.1	710.2	696.3	736.6	685.3	617.3	561.8
18526.7	75°	12333.1	6018.8	676.9	592.3	611.7	588.1	625.6	589.5	531.3	529.9
12767.3	77.5°	8474.1	3721.7	491.0	488.3	502.1	471.6	514.6	495.2	442.5	418.9
5556.9	80°	3616.3	1484.2	357.9	377.3	377.3	349.6	399.5	405.0	359.3	348.2
1072.3	82.5°	719.9	421.7	251.1	259.4	244.1	235.8	283.0	313.5	432.8	481.3
323.2	85°	216.4	155.4	151.2	141.5	124.8	126.2	166.5	314.9	388.4	221.9
106.8	87.5°	59.6	38.8	40.2	31.9	26.4	34.7	56.9	238.6	130.4	55.5
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>
5264.2
5096.4
4651.1
3928.4
3136.3
2628.6
2298.5
2200.0
2161.2
2072.4
1971.1
1917.0
1889.3
1842.1
1697.9
1523.1
1335.8
1259.5
1208.2
1168.0
1145.8
1104.2
1033.4
971.0
901.6
828.1
754.6
688.0
622.8
545.1
477.2
392.6
348.2
482.7
191.4
47.2
0.0

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