

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: P950991

Luminaire Tested: **GALN-SB5B-740-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950991
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5B-740-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29412 lumens
Efficiency: N/A
Efficacy: 161.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

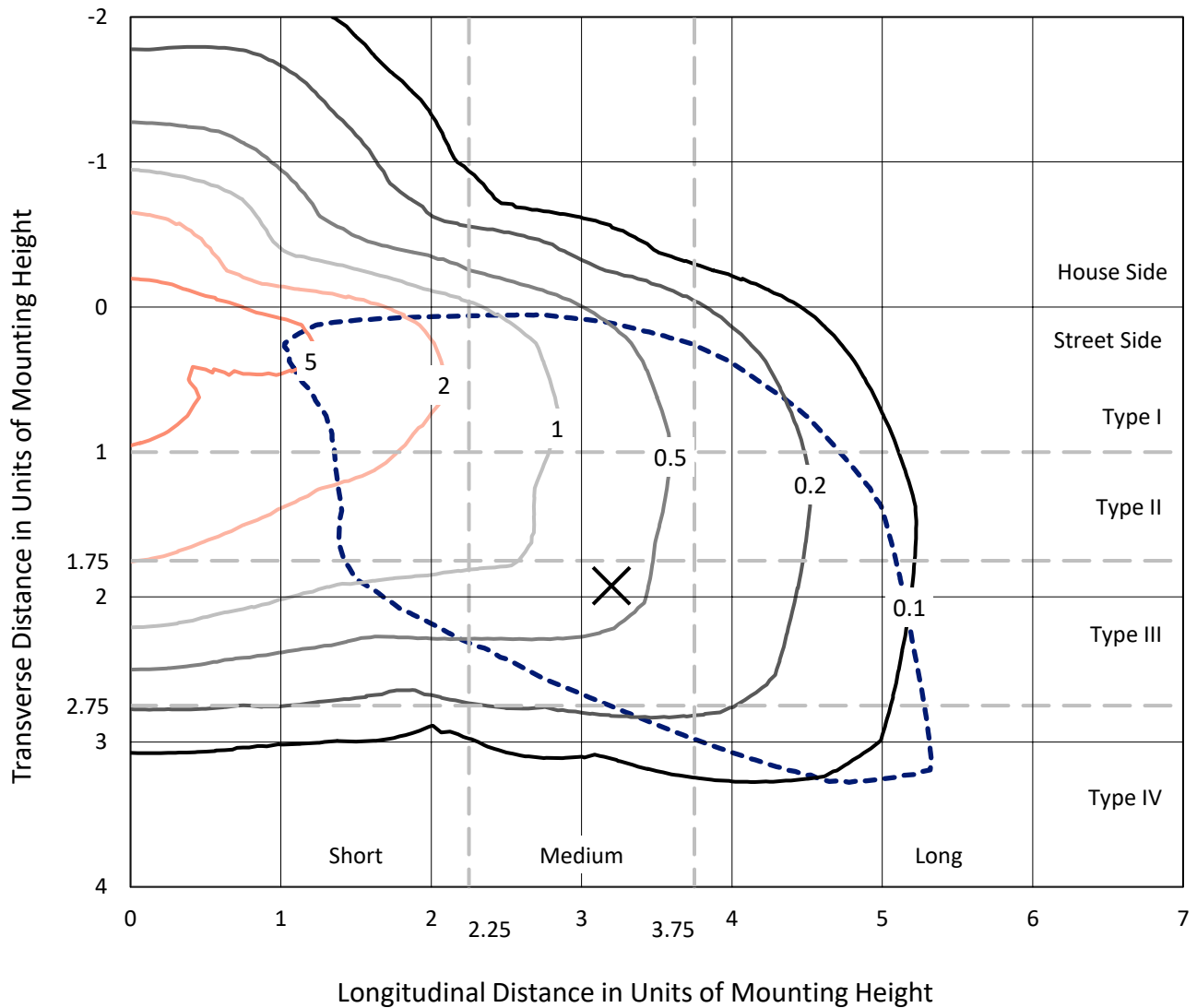
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

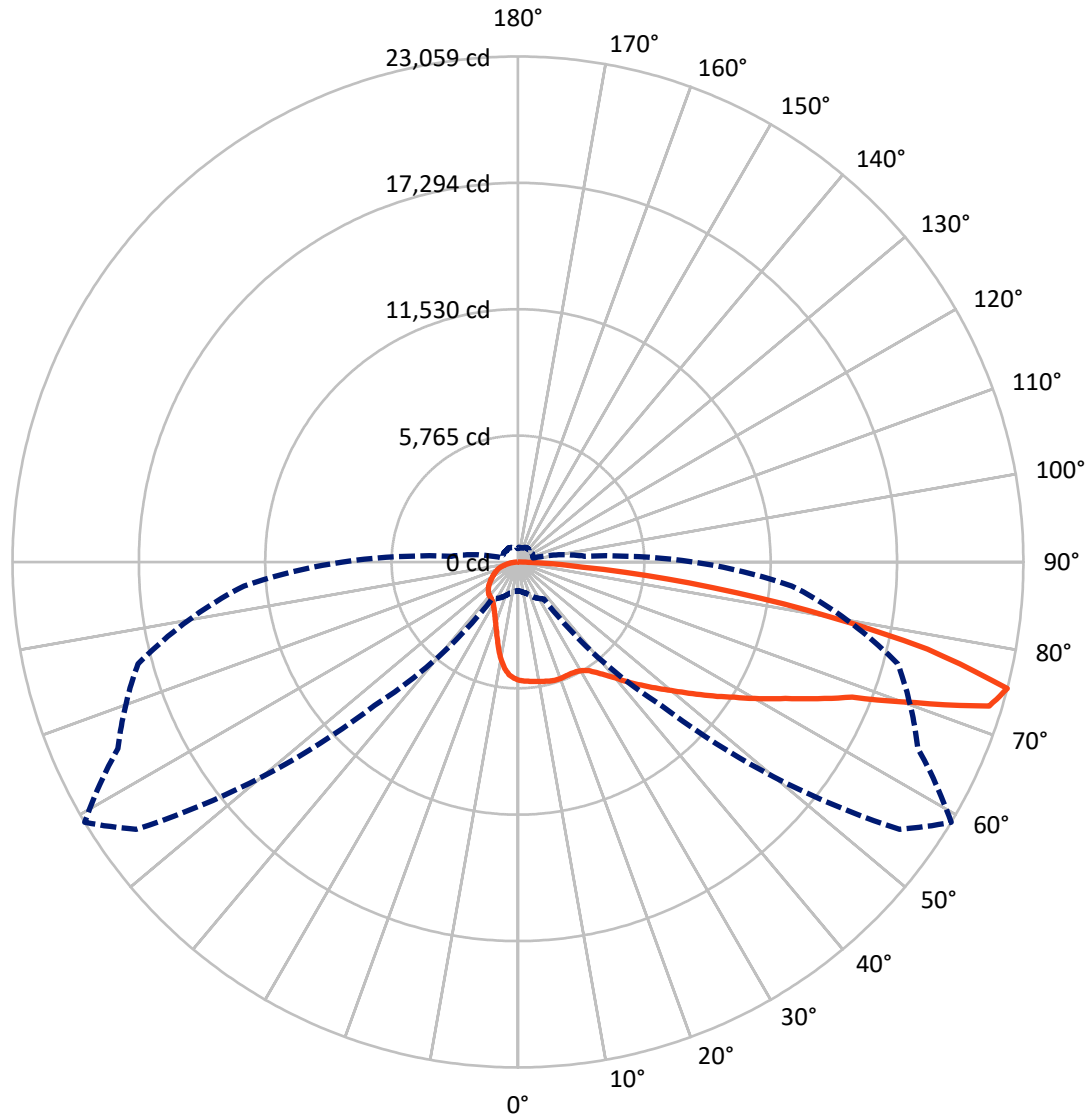
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5516.4	0.0	5516.4
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	23895.6	0.0	23895.6
	% Fixture	81.2	0.0	81.2
Total	Lumens	29412.0	0.0	29412.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	484.1	1.6
10°-20°	1237.3	4.2
20°-30°	1879.4	6.4
30°-40°	2793.6	9.5
40°-50°	4154.6	14.1
50°-60°	5639.4	19.2
60°-70°	6884.7	23.4
70°-80°	5403.1	18.4
80°-90°	935.9	3.2
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°	29412.0	100.0
0°-180°	29412.0	100.0

Coefficient of Utilization



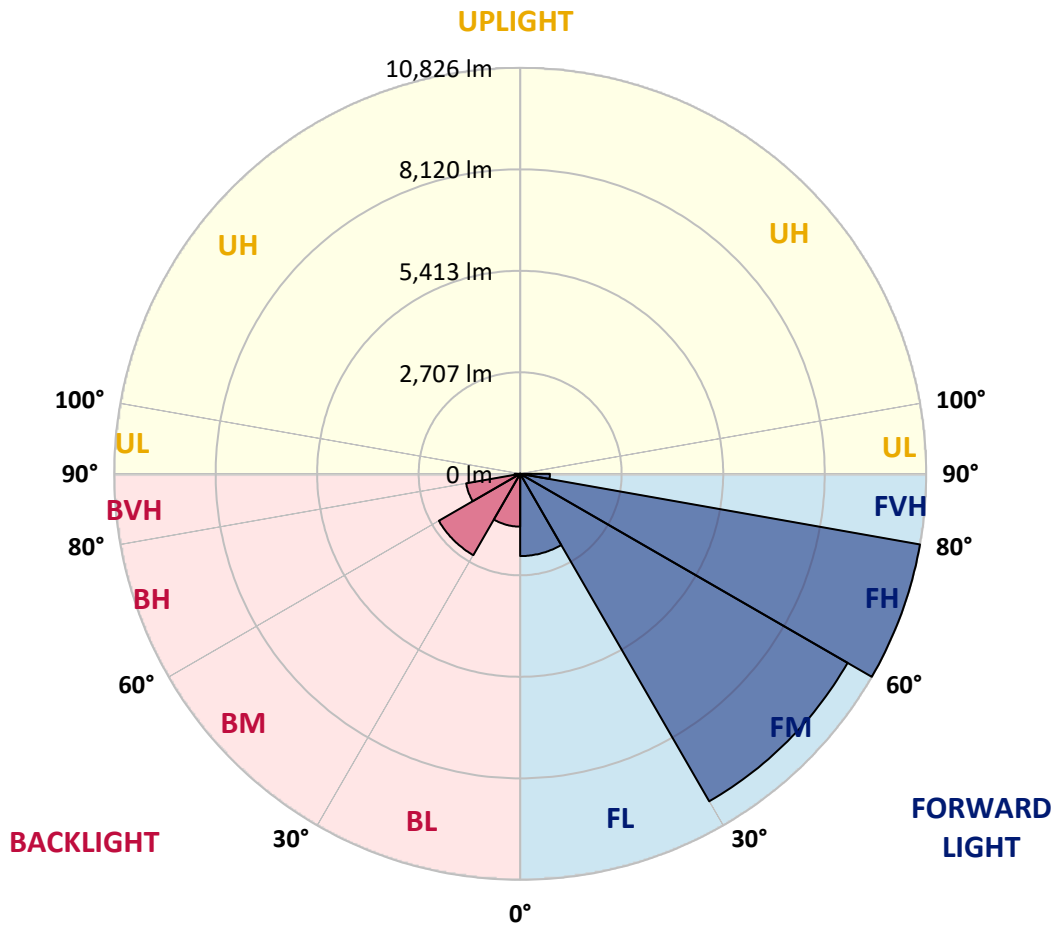
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2193.0	7.5			
FM (30°-60°)	10083.7	34.3			
FH (60°-80°)	10826.3	36.8			G4/12000
FVH (80°-90°)	792.7	2.7			G5
BL (0°-30°)	1407.7	4.8	B3/2500		
BM (30°-60°)	2503.9	8.5	B3/5000		
BH (60°-80°)	1461.5	5.0	B3/2500		G3/2500
BVH (80°-90°)	143.3	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-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	5398.5	5398.5	5398.5	5398.5	5398.5	5398.5	5398.5	5398.5	5398.5	5398.5
2.5°	5444.4	5425.4	5444.4	5436.5	5433.3	5427.0	5428.6	5439.6	5433.3	5441.2
5°	5408.0	5396.9	5415.9	5411.2	5431.7	5434.9	5455.5	5468.1	5476.0	5477.6
7.5°	5347.9	5336.8	5363.7	5385.8	5430.2	5442.8	5485.5	5506.1	5517.2	5536.2
10°	5127.9	5123.2	5189.7	5273.5	5377.9	5442.8	5507.7	5542.5	5559.9	5610.5
12.5°	4738.7	4745.1	4832.1	4993.5	5202.3	5411.2	5533.0	5583.6	5610.5	5673.8
15°	4366.9	4365.3	4460.3	4632.7	4925.4	5271.9	5545.7	5632.7	5678.6	5771.9
17.5°	4151.7	4145.4	4211.8	4343.2	4615.3	5058.3	5514.0	5659.6	5757.7	5874.8
20°	4112.2	4099.5	4134.3	4199.2	4392.2	4824.2	5431.7	5659.6	5821.0	5972.8
22.5°	4256.2	4235.6	4221.3	4213.4	4298.9	4631.1	5338.4	5640.6	5914.3	6113.7
25°	4545.7	4514.1	4441.3	4370.1	4344.8	4544.1	5256.1	5635.8	6053.5	6303.5
27.5°	5014.0	4974.5	4827.3	4656.4	4503.0	4588.4	5219.7	5664.3	6207.0	6504.5
30°	5594.7	5552.0	5366.9	5104.2	4828.9	4753.0	5265.6	5748.2	6403.2	6771.9
32.5°	6115.2	6067.8	5909.6	5642.2	5270.3	5037.8	5411.2	5908.0	6711.7	7143.7
35°	6577.3	6521.9	6379.5	6132.7	5811.5	5438.1	5673.8	6191.2	7150.0	7748.1
37.5°	7029.8	6964.9	6809.8	6548.8	6324.1	5971.3	6036.1	6555.1	7732.3	8482.2
40°	7536.1	7442.7	7254.4	6996.5	6778.2	6596.2	6512.4	7001.3	8324.0	9301.8
42.5°	8026.6	7938.0	7713.3	7493.4	7219.6	7167.4	7064.6	7523.4	8971.1	10202.1
45°	8555.0	8449.0	8176.9	7898.4	7725.9	7547.2	7599.4	8045.5	9605.6	11119.8
47.5°	9050.3	8931.6	8610.4	8300.3	8205.4	7866.8	8089.8	8619.9	10265.4	12050.1
50°	9317.6	9200.6	8933.2	8653.1	8578.8	8260.7	8621.5	9251.2	10956.8	12977.3
52.5°	9540.7	9414.2	9064.5	8909.4	8887.3	8689.5	9276.5	9972.7	11648.2	13796.9
55°	9778.1	9637.3	9191.1	9051.8	9153.1	9170.5	10053.4	10790.7	12379.2	14595.9
57.5°	10051.8	9873.0	9312.9	9172.1	9412.6	9733.8	10945.7	11638.8	13097.6	15336.4
60°	10309.7	10129.3	9547.1	9363.5	9692.6	10387.2	11969.4	12665.6	13910.8	15996.2
62.5°	10360.3	10211.6	9733.8	9732.2	10072.4	11149.8	13181.4	13702.0	14621.2	16648.0
65°	9483.8	9390.4	9107.2	9717.9	10616.6	12247.9	14531.0	15027.8	15524.7	17217.6
67.5°	7218.1	7230.7	7210.1	8388.9	10176.8	13825.4	16485.1	16447.1	16640.1	17856.8
70°	3300.5	3374.9	3859.0	5790.9	8153.1	14007.3	19715.9	19223.9	18040.4	18684.3
72.5°	1783.2	1840.1	2037.9	2805.3	4901.7	12453.6	22130.4	22480.1	19902.6	19241.3
75°	1308.5	1340.1	1477.8	1783.2	2058.5	9255.9	21264.9	23059.2	20135.2	17942.3
77.5°	979.4	993.6	1106.0	1412.9	1053.8	4879.5	16991.4	19097.3	17236.6	14741.5
80°	710.4	726.2	810.1	1060.1	738.9	1784.7	11667.2	13404.5	11804.9	9396.8
82.5°	490.5	496.8	533.2	721.5	515.8	693.0	6620.0	7860.4	6589.9	3297.3
85°	295.9	303.8	319.6	420.9	292.7	329.1	2857.5	2955.6	1969.9	787.9
87.5°	121.8	129.7	142.4	177.2	115.5	91.8	471.5	591.7	368.7	231.0
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°
5398.5	0°	5398.5	5398.5	5398.5	5398.5	5398.5	5398.5	5398.5	5398.5	5398.5	5398.5
5414.3	2.5°	5406.4	5395.3	5365.3	5324.1	5286.2	5238.7	5218.1	5200.7	5184.9	5154.8
5457.0	5°	5439.6	5409.6	5328.9	5224.5	5105.8	4976.1	4849.5	4762.5	4688.1	4632.7
5506.1	7.5°	5490.3	5433.3	5286.2	5072.6	4800.4	4522.0	4270.4	4091.6	3957.1	3908.1
5575.7	10°	5542.5	5474.5	5218.1	4841.6	4371.7	3942.9	3609.0	3425.5	3317.9	3283.1
5658.0	12.5°	5604.2	5504.5	5112.1	4520.4	3892.2	3422.3	3131.2	3023.6	2968.2	2949.2
5759.3	15°	5694.4	5529.8	4952.3	4118.5	3435.0	3042.6	2854.3	2779.9	2751.5	2749.9
5863.7	17.5°	5762.4	5534.6	4703.9	3688.1	3083.7	2813.2	2658.1	2629.6	2648.6	2677.1
5966.5	20°	5838.4	5491.9	4378.0	3295.7	2836.9	2612.2	2547.4	2566.3	2612.2	2653.4
6102.6	22.5°	5892.2	5414.3	3984.0	2990.4	2623.3	2496.7	2493.6	2533.1	2558.4	2579.0
6262.4	25°	5939.6	5283.0	3566.3	2734.1	2447.7	2427.1	2461.9	2449.3	2431.9	2449.3
6422.2	27.5°	5974.4	5075.7	3192.9	2509.4	2324.3	2379.6	2359.1	2330.6	2329.0	2338.5
6610.5	30°	5963.4	4798.8	2886.0	2295.8	2237.2	2291.0	2242.0	2237.2	2232.5	2237.2
6893.7	32.5°	5963.4	4484.0	2650.2	2148.6	2181.9	2161.3	2156.6	2145.5	2126.5	2124.9
7278.2	35°	5996.6	4169.1	2447.7	2069.5	2136.0	2086.9	2090.1	2063.2	2023.6	2004.7
7787.6	37.5°	6064.6	3916.0	2246.7	2031.6	2055.3	2053.7	2041.1	1995.2	1925.6	1865.4
8423.7	40°	6229.2	3841.6	2109.1	2014.2	2017.3	2036.3	2003.1	1914.5	1756.3	1658.2
9069.2	42.5°	6487.1	3966.6	2079.0	1971.4	1992.0	2011.0	1946.1	1740.4	1628.1	1569.6
9746.4	45°	6814.6	4185.0	2143.9	1909.7	1931.9	1965.1	1772.1	1674.0	1623.3	1624.9
10417.3	47.5°	7229.1	4414.4	2264.1	1855.9	1844.9	1863.8	1656.6	1596.5	1526.8	1544.2
11061.2	50°	7708.5	4647.0	2378.1	1783.2	1748.3	1686.6	1582.2	1525.3	1436.6	1395.5
11683.1	52.5°	8227.5	4871.6	2423.9	1694.5	1643.9	1572.7	1531.6	1462.0	1354.4	1286.3
12270.1	55°	8719.6	5075.7	2373.3	1588.5	1539.5	1484.1	1477.8	1435.1	1319.6	1224.6
12792.2	57.5°	9184.7	5246.6	2246.7	1481.0	1433.5	1400.3	1443.0	1422.4	1276.8	1155.0
13285.8	60°	9578.7	5363.7	2063.2	1371.8	1338.6	1321.1	1386.0	1379.7	1216.7	1080.7
13728.9	62.5°	9892.0	5409.6	1860.7	1267.4	1259.4	1227.8	1306.9	1306.9	1140.8	1007.9
14118.1	65°	10137.2	5365.3	1655.0	1164.5	1180.3	1132.9	1210.4	1200.9	1060.1	943.0
14565.8	67.5°	10354.0	5219.7	1427.2	1063.2	1099.6	1039.5	1109.1	1087.0	971.5	878.1
14953.5	70°	10450.5	4881.1	1167.7	962.0	1006.3	947.7	1007.9	966.7	871.8	808.5
14527.9	72.5°	9675.2	4056.8	919.3	856.0	893.9	846.5	898.7	851.2	764.2	735.7
12545.4	75°	8004.4	3044.2	707.2	740.5	769.0	732.6	767.4	732.6	653.5	674.0
9267.0	77.5°	5813.0	2055.3	541.1	618.6	631.3	612.3	642.4	602.8	531.6	526.9
4618.5	80°	2890.7	1204.1	424.0	488.9	484.2	471.5	506.3	487.3	427.2	452.5
1246.8	82.5°	837.0	515.8	308.5	343.3	333.8	337.0	362.3	371.8	556.9	552.2
387.6	85°	262.6	202.5	185.1	191.4	182.0	186.7	213.6	424.0	392.4	229.4
120.2	87.5°	68.0	69.6	45.9	49.0	50.6	60.1	68.0	257.9	123.4	80.7
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>
5398.5
5140.6
4586.8
3822.6
3229.3
2954.0
2756.2
2688.2
2667.6
2590.1
2460.3
2354.3
2254.7
2145.5
2023.6
1886.0
1670.8
1569.6
1632.8
1588.5
1406.6
1284.8
1224.6
1148.7
1075.9
1003.1
936.7
871.8
795.9
712.0
615.5
503.1
447.8
564.8
248.4
85.4
0.0

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