

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: P943795

Luminaire Tested: **GALN-SB8B-940-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943795
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB8B-940-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32693 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

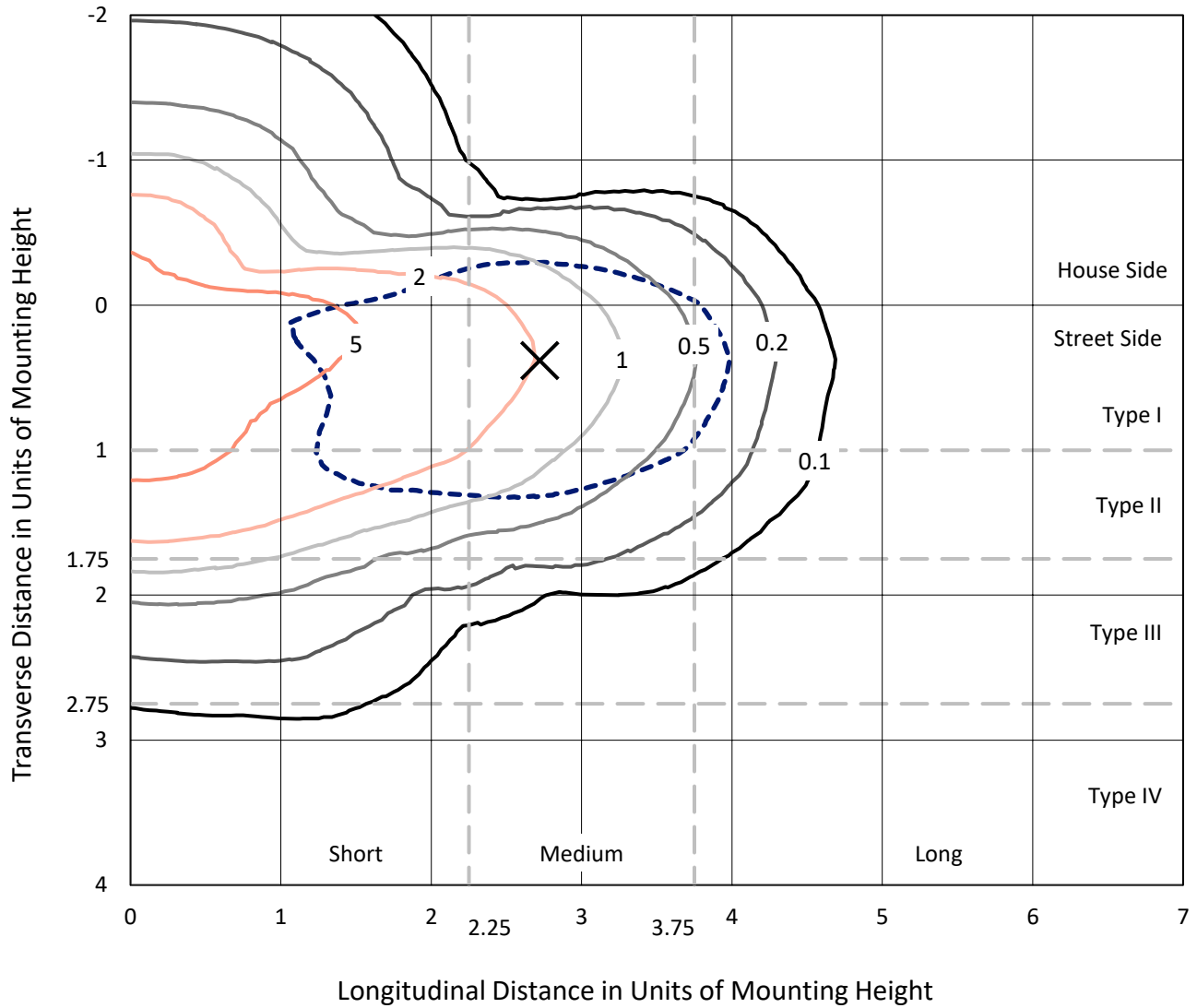
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

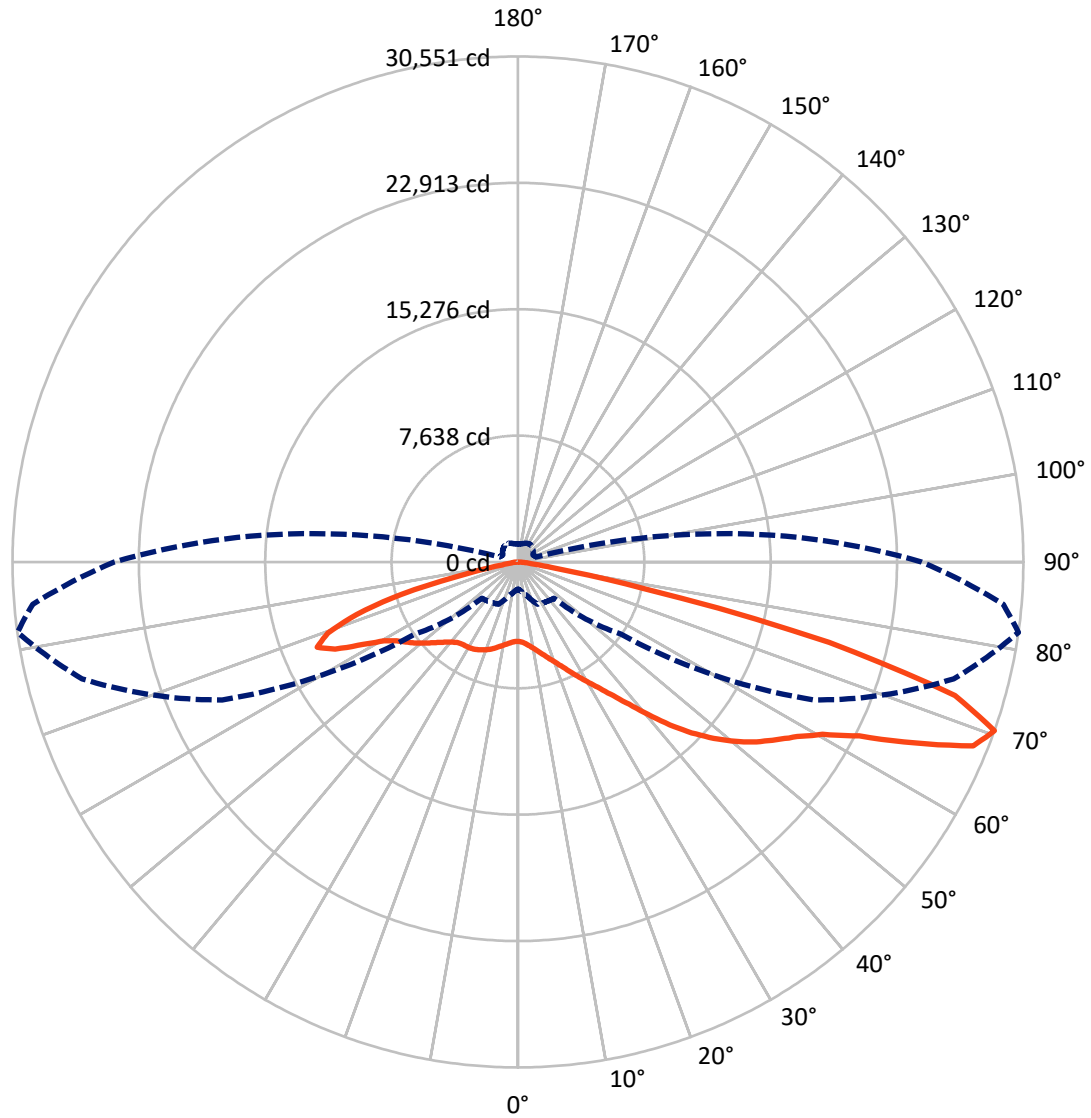
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8059.6	0.0	8059.6
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	24633.4	0.0	24633.4
	% Fixture	75.3	0.0	75.3
Total	Lumens	32693.0	0.0	32693.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	452.6	1.4
10°-20°	1300.2	4.0
20°-30°	2175.2	6.7
30°-40°	3398.2	10.4
40°-50°	5412.0	16.6
50°-60°	7531.5	23.0
60°-70°	7878.2	24.1
70°-80°	4117.6	12.6
80°-90°	427.6	1.3
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°	32693.0	100.0
0°-180°	32693.0	100.0

Coefficient of Utilization



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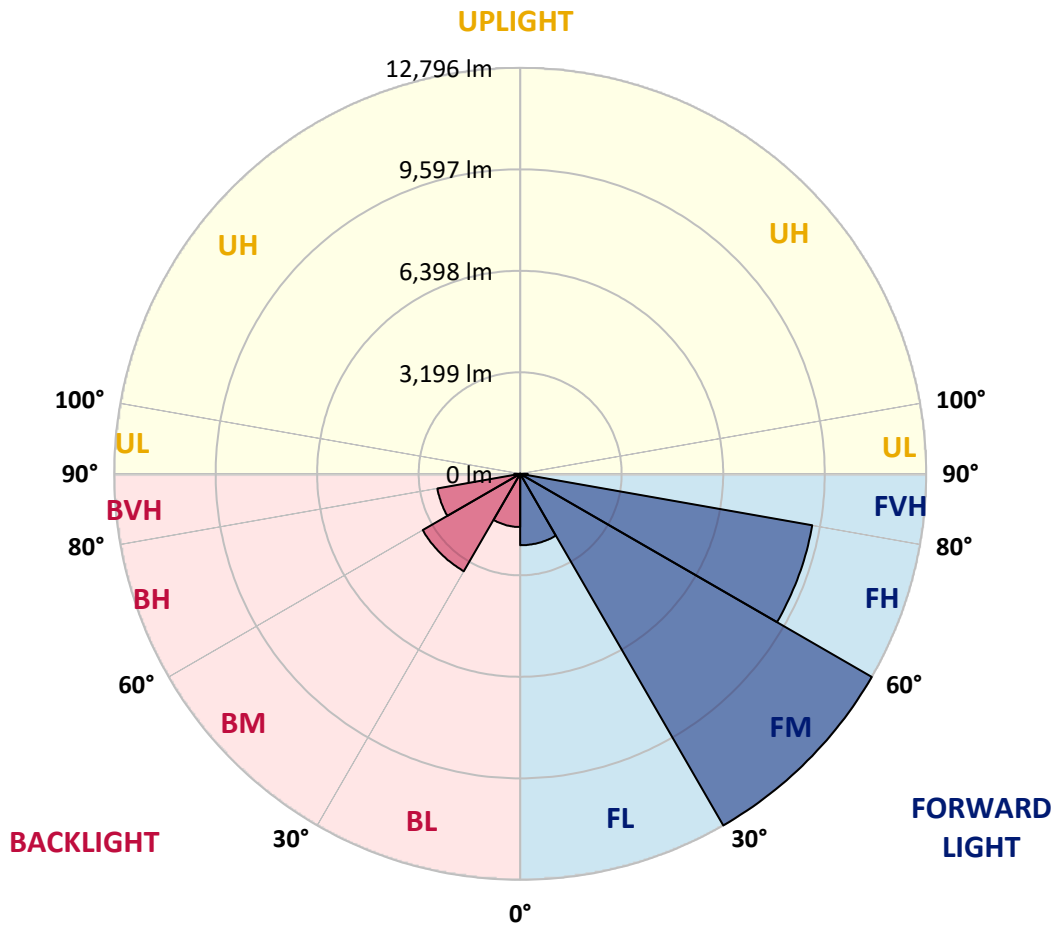
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2251.3	6.9			
FM	(30°-60°)	12795.7	39.1			
FH	(60°-80°)	9347.0	28.6			G4/12000
FVH	(80°-90°)	239.4	0.7			G3/500
BL	(0°-30°)	1676.7	5.1	B3/2500		
BM	(30°-60°)	3545.9	10.8	B3/5000		
BH	(60°-80°)	2648.8	8.1	B4/5000		G4/5000
BVH	(80°-90°)	188.2	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	4793.2	4793.2	4793.2	4793.2	4793.2	4793.2	4793.2	4793.2	4793.2	4793.2
2.5°	4907.7	4935.5	4926.8	4918.1	4918.1	4906.0	4904.2	4886.9	4873.0	4850.5
5°	4970.2	4999.6	4996.2	5003.1	5025.7	5030.9	5036.1	5025.7	4997.9	4970.2
7.5°	4914.6	4947.6	4958.0	4999.6	5069.0	5131.5	5178.3	5197.4	5171.4	5131.5
10°	4727.3	4763.7	4800.1	4899.0	5022.2	5169.7	5294.6	5369.2	5363.9	5325.8
12.5°	4347.4	4385.5	4463.6	4656.2	4881.7	5141.9	5374.4	5530.5	5584.3	5556.5
15°	4043.8	4076.7	4135.7	4333.5	4626.7	5022.2	5403.8	5707.4	5844.5	5828.9
17.5°	4035.1	4049.0	4085.4	4179.1	4404.6	4834.8	5372.6	5880.9	6142.9	6141.1
20°	4187.8	4193.0	4213.8	4232.9	4361.2	4692.6	5292.8	6024.9	6477.7	6477.7
22.5°	4399.4	4395.9	4416.8	4399.4	4461.9	4680.4	5242.5	6151.5	6850.7	6878.4
25°	4716.9	4699.5	4694.3	4654.4	4666.6	4793.2	5298.0	6295.5	7293.0	7350.3
27.5°	5140.2	5112.4	5093.3	5001.4	4970.2	5025.7	5468.0	6469.0	7785.7	7884.6
30°	5691.8	5641.5	5613.8	5454.2	5341.4	5350.1	5724.8	6699.7	8300.9	8460.5
32.5°	6444.7	6366.6	6292.1	6030.1	5823.7	5756.0	6056.1	7018.9	8859.5	9114.5
35°	7287.8	7225.4	7145.6	6741.4	6423.9	6267.8	6503.7	7464.8	9513.5	9917.7
37.5°	8099.7	8045.9	8084.1	7539.4	7130.0	6902.7	7090.1	8063.3	10320.2	10917.0
40°	8939.3	8897.7	8902.9	8382.5	7905.4	7650.4	7801.3	8814.4	11244.9	12105.3
42.5°	9851.8	9820.6	9716.5	9255.1	8719.0	8481.3	8620.1	9681.8	12237.2	13458.4
45°	10873.6	10854.5	10757.4	10228.3	9614.2	9347.0	9534.4	10639.4	13234.7	14731.8
47.5°	11756.6	11772.2	11760.1	11314.2	10677.6	10285.5	10509.3	11638.7	14162.8	15928.8
50°	12181.6	12263.2	12382.9	12244.1	11848.6	11449.6	11492.9	12603.2	15047.5	17051.2
52.5°	11959.6	12114.0	12440.1	12662.2	12814.8	12731.6	12615.3	13560.8	15880.2	18064.3
55°	11132.1	11348.9	11890.2	12426.2	13205.2	13810.6	13963.3	14622.5	16692.1	18956.0
57.5°	9624.6	9976.7	10462.5	11546.7	12858.2	14332.8	15535.0	16095.3	17552.5	19908.4
60°	7039.7	7511.6	8115.3	9728.7	11643.9	14053.5	16872.5	18357.5	18775.5	21141.8
62.5°	4505.2	4796.7	5351.8	6871.5	9072.9	12622.3	17281.9	21185.2	20848.6	23164.5
65°	3084.4	3271.8	3780.1	4633.6	5865.3	9395.6	16185.5	23305.1	24141.2	26370.4
67.5°	2241.3	2383.6	2817.3	3565.0	3821.7	5560.0	12559.8	23207.9	27341.9	29673.4
70°	1634.2	1734.8	2099.1	2817.3	2940.5	3093.1	7608.8	19727.9	27272.5	30551.2
72.5°	1210.9	1280.3	1524.9	2185.8	2380.1	2088.7	3766.2	14338.0	23435.2	27633.3
75°	876.1	928.1	1108.5	1672.3	1904.8	1590.8	1878.8	8379.0	16346.9	19438.2
77.5°	669.6	709.5	827.5	1224.8	1524.9	1193.5	1165.8	3854.7	7751.0	7789.2
80°	537.8	563.8	628.0	862.2	1169.2	893.4	759.8	1556.1	2449.5	2073.1
82.5°	395.5	438.9	530.8	605.4	836.2	615.8	463.2	785.9	931.6	801.5
85°	225.5	255.0	320.9	433.7	534.3	376.4	265.4	348.7	433.7	355.6
87.5°	79.8	104.1	112.8	170.0	232.5	156.1	102.4	100.6	142.3	105.8
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°
4793.2	0°	4793.2	4793.2	4793.2	4793.2	4793.2	4793.2	4793.2	4793.2	4793.2	4793.2
4845.2	2.5°	4827.9	4819.2	4784.5	4737.7	4689.1	4642.3	4626.7	4593.7	4571.2	4559.0
4958.0	5°	4925.0	4897.3	4815.8	4711.7	4602.4	4484.4	4401.1	4324.8	4269.3	4217.3
5112.4	7.5°	5063.8	5015.3	4874.7	4692.6	4498.3	4302.3	4156.5	4045.5	3970.9	3922.3
5292.8	10°	5225.2	5150.6	4935.5	4663.1	4363.0	4081.9	3910.2	3814.8	3767.9	3741.9
5499.3	12.5°	5410.8	5305.0	4997.9	4595.4	4156.5	3835.6	3717.6	3689.9	3691.6	3693.4
5759.5	15°	5639.8	5492.3	5048.2	4448.0	3887.6	3646.5	3625.7	3670.8	3717.6	3740.2
6054.4	17.5°	5898.3	5690.1	5056.9	4205.1	3624.0	3525.1	3591.0	3688.1	3759.3	3790.5
6384.0	20°	6175.8	5891.3	4994.4	3861.6	3407.1	3426.2	3544.2	3669.1	3747.1	3787.0
6760.4	22.5°	6493.3	6106.4	4845.2	3500.8	3230.2	3318.6	3457.4	3578.9	3660.4	3700.3
7202.8	25°	6855.9	6347.6	4611.1	3197.2	3077.5	3197.2	3336.0	3436.6	3502.5	3539.0
7697.2	27.5°	7258.3	6599.1	4298.8	2956.1	2943.9	3072.3	3186.8	3264.9	3299.6	3327.3
8222.9	30°	7662.5	6828.1	3920.6	2773.9	2827.7	2949.1	3030.7	3065.4	3075.8	3081.0
8809.2	32.5°	8099.7	7025.9	3523.3	2623.0	2716.7	2829.4	2878.0	2893.6	2845.0	2812.1
9520.5	35°	8628.8	7237.5	3134.8	2503.3	2607.4	2704.5	2720.1	2706.3	2649.0	2581.4
10412.2	37.5°	9282.8	7501.2	2824.2	2418.3	2505.0	2569.2	2550.1	2546.7	2551.9	2472.1
11484.3	40°	10084.3	7844.7	2597.0	2352.4	2421.8	2435.6	2381.9	2411.3	2437.4	2315.9
12660.4	42.5°	10974.2	8259.3	2453.0	2307.3	2352.4	2319.4	2236.1	2269.1	2265.6	2106.0
13841.8	45°	11881.5	8710.3	2402.7	2274.3	2288.2	2222.3	2130.3	2139.0	2066.1	1922.1
14974.6	47.5°	12783.6	9194.3	2433.9	2246.5	2208.4	2133.8	2062.7	2024.5	1916.9	1809.4
16060.6	50°	13668.3	9702.6	2548.4	2191.0	2099.1	2055.7	2003.7	1936.0	1821.5	1729.6
17087.6	52.5°	14488.9	10214.4	2676.8	2099.1	1962.0	1988.1	1955.1	1877.0	1764.3	1670.6
18059.1	55°	15266.1	10726.2	2727.1	1972.4	1833.7	1929.1	1910.0	1766.0	1630.7	1554.4
19075.7	57.5°	16112.7	11342.0	2671.6	1811.1	1729.6	1861.4	1788.6	1629.0	1550.9	1493.6
20399.3	60°	17285.4	12308.3	2551.9	1611.6	1630.7	1760.8	1635.9	1570.0	1485.0	1420.8
22383.9	62.5°	19233.5	14110.7	2359.3	1413.8	1514.5	1611.6	1563.0	1497.1	1410.4	1347.9
25777.1	65°	22113.3	16615.7	1996.7	1259.5	1384.4	1465.9	1485.0	1419.1	1328.8	1262.9
28750.5	67.5°	24542.0	18187.5	1511.0	1131.1	1250.8	1347.9	1401.7	1337.5	1242.1	1177.9
29446.2	70°	24408.4	17046.0	1153.6	1004.4	1132.8	1231.7	1301.1	1250.8	1148.4	1087.7
26746.9	72.5°	21679.6	14259.9	933.3	876.1	1013.1	1110.3	1193.5	1155.4	1051.3	992.3
19594.4	75°	15927.0	10122.5	746.0	746.0	863.9	983.6	1075.6	1051.3	955.9	914.2
8226.3	77.5°	6713.6	4246.7	584.6	619.3	718.2	844.8	959.3	968.0	884.7	936.8
2175.4	80°	1785.1	1171.0	445.8	487.5	563.8	697.4	834.4	831.0	740.8	692.2
808.4	82.5°	680.0	461.5	317.5	343.5	407.7	534.3	661.0	681.8	591.6	511.8
317.5	85°	262.0	197.8	196.0	206.4	237.7	353.9	499.6	517.0	445.8	378.2
88.5	87.5°	67.7	59.0	72.9	69.4	109.3	189.1	286.2	296.6	272.4	157.9
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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180°
4793.2
4572.9
4238.1
3932.8
3748.9
3696.8
3738.5
3797.4
3797.4
3710.7
3549.4
3337.7
3093.1
2822.5
2584.8
2477.3
2319.4
2104.3
1927.3
1809.4
1722.6
1672.3
1547.4
1488.4
1417.3
1347.9
1266.4
1179.7
1092.9
992.3
902.1
850.0
643.6
511.8
390.3
225.5
0.0

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