

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: P944265

Luminaire Tested: **GALN-SB9A-850-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944265
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-SB9A-850-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38724 lumens
Efficiency: N/A
Efficacy: 151.6 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

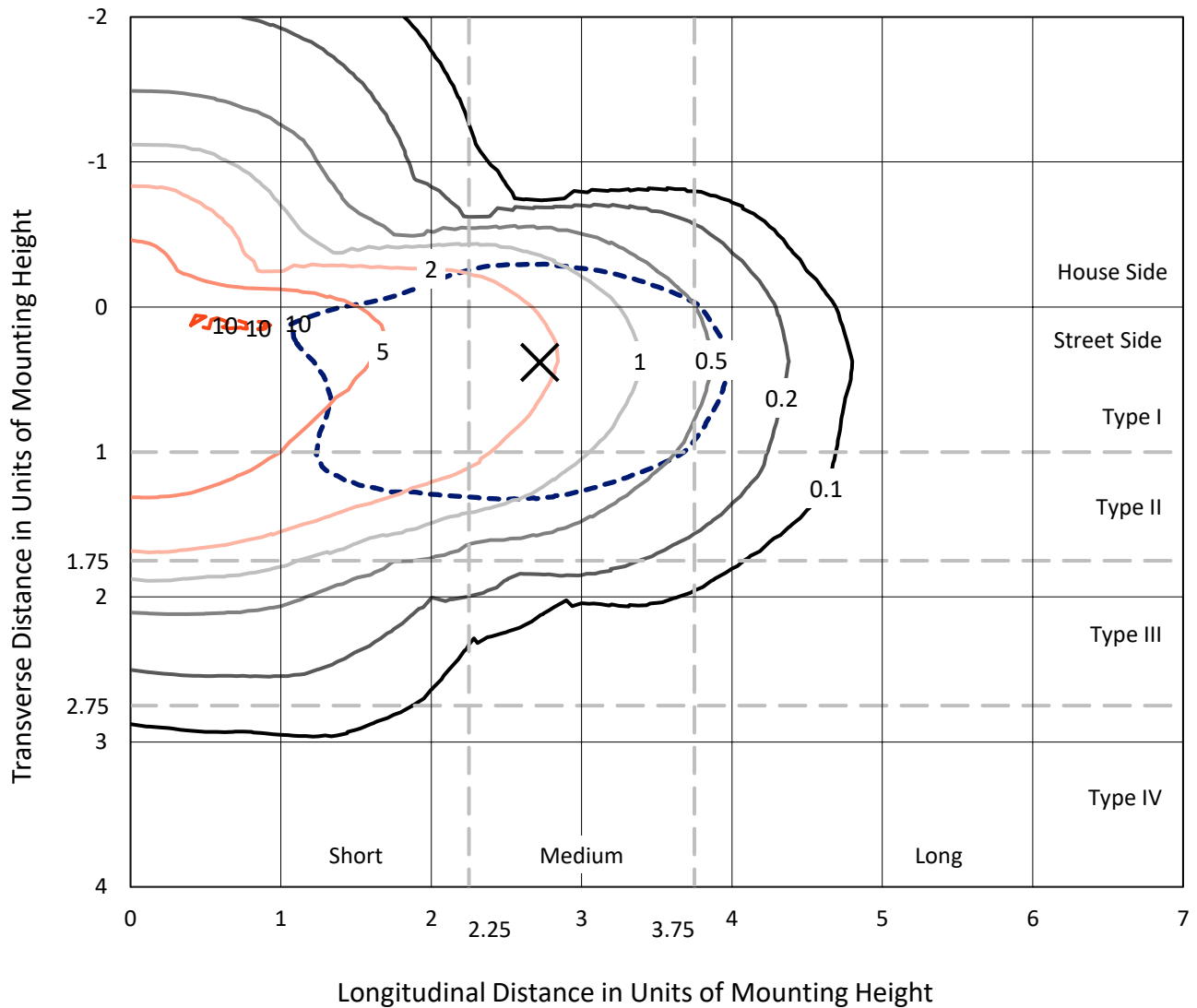
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

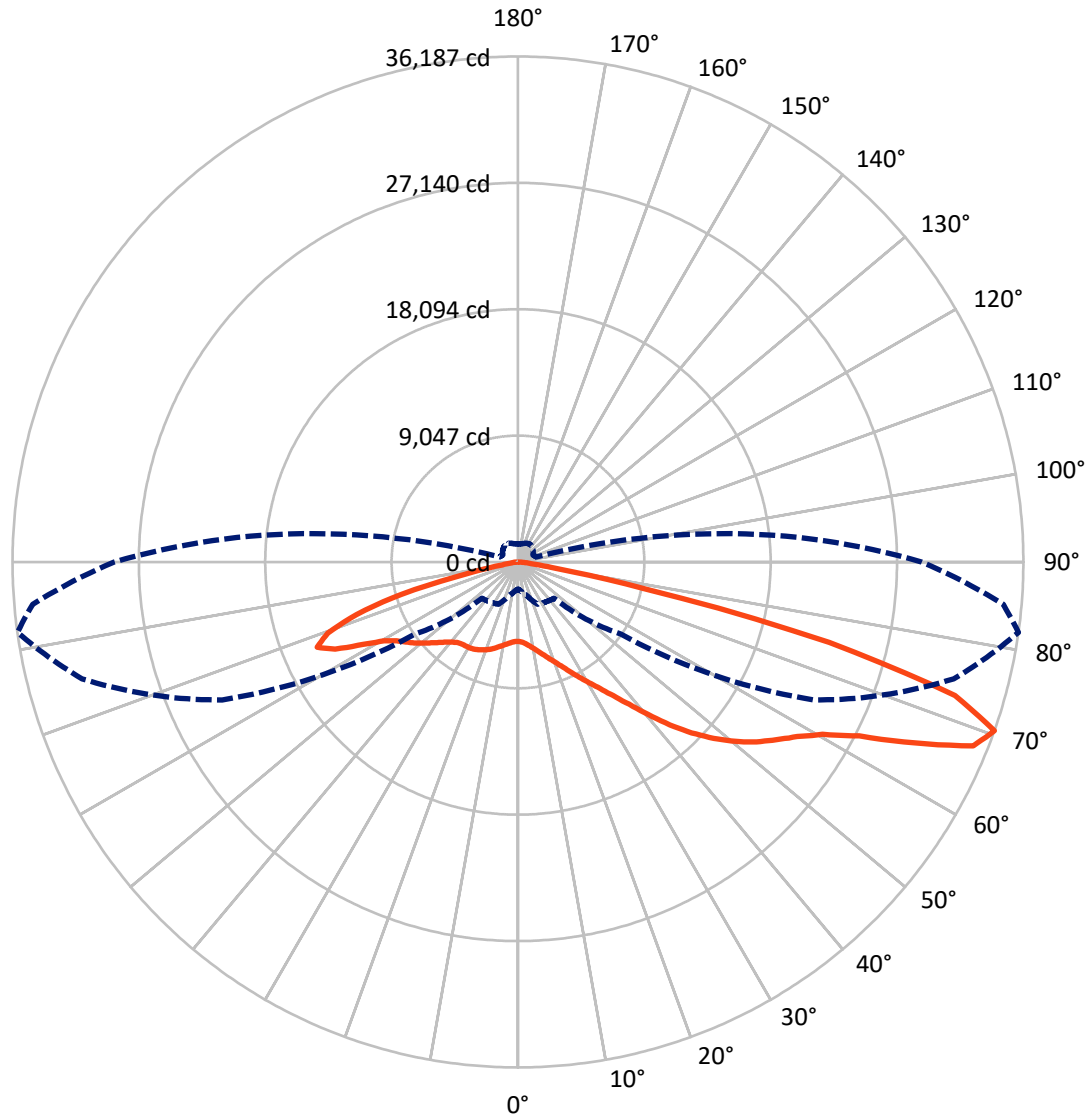
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 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	9546.4	0.0	9546.4
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	29177.6	0.0	29177.6
	% Fixture	75.3	0.0	75.3
Total	Lumens	38724.0	0.0	38724.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	536.0	1.4
10°-20°	1540.1	4.0
20°-30°	2576.4	6.7
30°-40°	4025.1	10.4
40°-50°	6410.4	16.6
50°-60°	8920.8	23.0
60°-70°	9331.6	24.1
70°-80°	4877.2	12.6
80°-90°	506.4	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°	38724.0	100.0
0°-180°	38724.0	100.0

Coefficient of Utilization



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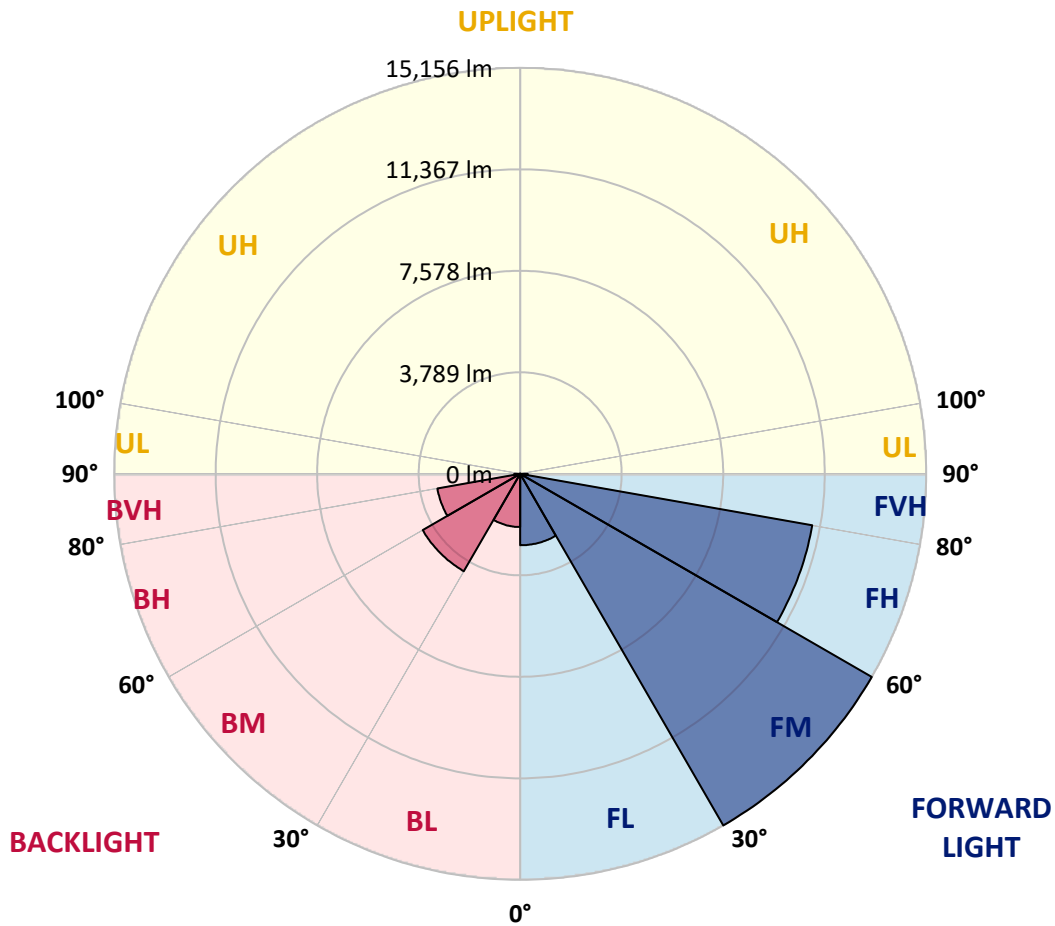
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2666.6	6.9			
FM (30°-60°)	15156.2	39.1			
FH (60°-80°)	11071.3	28.6			G4/12000
FVH (80°-90°)	283.5	0.7			G3/500
BL (0°-30°)	1986.0	5.1	B3/2500		
BM (30°-60°)	4200.0	10.8	B3/5000		
BH (60°-80°)	3137.4	8.1	B4/5000		G4/5000
BVH (80°-90°)	222.9	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°	5677.4	5677.4	5677.4	5677.4	5677.4	5677.4	5677.4	5677.4	5677.4	5677.4
2.5°	5813.0	5845.9	5835.6	5825.4	5825.4	5811.0	5808.9	5788.4	5771.9	5745.2
5°	5887.0	5921.9	5917.8	5926.1	5952.8	5958.9	5965.1	5952.8	5919.9	5887.0
7.5°	5821.3	5860.3	5872.6	5921.9	6004.1	6078.1	6133.6	6156.2	6125.4	6078.1
10°	5599.3	5642.5	5685.6	5802.8	5948.7	6123.3	6271.3	6359.6	6353.5	6308.2
12.5°	5149.3	5194.5	5287.0	5515.1	5782.2	6090.4	6365.8	6550.7	6614.4	6581.5
15°	4789.7	4828.8	4898.7	5132.9	5480.2	5948.7	6400.7	6760.3	6922.6	6904.1
17.5°	4779.5	4795.9	4839.1	4950.0	5217.1	5726.7	6363.7	6965.8	7276.1	7274.0
20°	4960.3	4966.5	4991.1	5013.7	5165.8	5558.2	6269.2	7136.3	7672.6	7672.6
22.5°	5211.0	5206.9	5231.5	5211.0	5285.0	5543.9	6209.6	7286.3	8114.4	8147.3
25°	5587.0	5566.5	5560.3	5513.0	5527.4	5677.4	6275.4	7456.9	8638.4	8706.2
27.5°	6088.4	6055.5	6032.9	5924.0	5887.0	5952.8	6476.7	7662.4	9222.0	9339.1
30°	6741.8	6682.2	6649.3	6460.3	6326.7	6337.0	6780.9	7935.7	9832.2	10021.3
32.5°	7633.6	7541.1	7452.8	7142.5	6898.0	6817.8	7173.3	8313.7	10493.9	10795.9
35°	8632.2	8558.3	8463.7	7985.0	7608.9	7424.0	7703.5	8841.8	11268.5	11747.3
37.5°	9593.9	9530.2	9575.4	8930.2	8445.2	8176.1	8398.0	9550.7	12224.0	12930.9
40°	10588.4	10539.1	10545.3	9928.8	9363.7	9061.7	9240.5	10440.5	13319.2	14338.4
42.5°	11669.2	11632.2	11509.0	10962.4	10327.4	10045.9	10210.3	11467.9	14494.6	15941.2
45°	12879.5	12856.9	12741.8	12115.1	11387.7	11071.3	11293.2	12602.1	15676.1	17449.4
47.5°	13925.4	13943.9	13929.5	13401.4	12647.3	12182.9	12448.0	13785.7	16775.4	18867.2
50°	14428.8	14525.4	14667.2	14502.8	14034.3	13561.7	13613.1	14928.1	17823.4	20196.7
52.5°	14165.8	14348.7	14735.0	14998.0	15178.8	15080.2	14942.5	16062.4	18809.7	21396.7
55°	13185.7	13442.5	14083.6	14718.6	15641.2	16358.3	16539.1	17319.9	19771.3	22452.8
57.5°	11400.1	11817.2	12392.5	13676.8	15230.2	16976.8	18400.8	19064.5	20790.5	23580.9
60°	8338.4	8897.3	9612.4	11523.3	13791.8	16646.0	19985.0	21743.9	22239.1	25041.9
62.5°	5336.3	5681.5	6339.1	8139.1	10746.6	14950.8	20470.0	25093.3	24694.6	27437.8
65°	3653.4	3875.4	4477.4	5488.4	6947.3	11128.8	19171.3	27604.2	28594.6	31235.1
67.5°	2654.8	2823.3	3337.0	4222.6	4526.7	6585.6	14876.8	27489.2	32385.8	35147.4
70°	1935.6	2054.8	2486.3	3337.0	3482.9	3663.7	9012.4	23367.2	32303.6	36187.1
72.5°	1434.3	1516.4	1806.2	2589.1	2819.2	2474.0	4461.0	16983.0	27758.3	32731.0
75°	1037.7	1099.3	1313.0	1980.8	2256.2	1884.3	2225.4	9924.7	19362.4	23024.1
77.5°	793.2	840.4	980.1	1450.7	1806.2	1413.7	1380.8	4565.8	9180.9	9226.1
80°	637.0	667.8	743.8	1021.2	1384.9	1058.2	900.0	1843.2	2901.4	2455.5
82.5°	468.5	519.9	628.8	717.1	990.4	729.5	548.6	930.8	1103.4	949.3
85°	267.1	302.1	380.1	513.7	632.9	445.9	314.4	413.0	513.7	421.2
87.5°	94.5	123.3	133.6	201.4	275.3	184.9	121.2	119.2	168.5	125.3
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°
5677.4	0°	5677.4	5677.4	5677.4	5677.4	5677.4	5677.4	5677.4	5677.4	5677.4	5677.4
5739.1	2.5°	5718.5	5708.2	5667.1	5611.7	5554.1	5498.7	5480.2	5441.1	5414.4	5400.0
5872.6	5°	5833.6	5800.7	5704.1	5580.8	5451.4	5311.7	5213.0	5122.6	5056.9	4995.2
6055.5	7.5°	5998.0	5940.4	5774.0	5558.2	5328.1	5095.9	4923.3	4791.8	4703.4	4645.9
6269.2	10°	6189.1	6100.7	5845.9	5523.3	5167.8	4835.0	4631.5	4518.5	4463.0	4432.2
6513.7	12.5°	6408.9	6283.6	5919.9	5443.2	4923.3	4543.2	4403.4	4370.6	4372.6	4374.7
6821.9	15°	6680.2	6505.5	5979.5	5268.5	4604.8	4319.2	4294.5	4348.0	4403.4	4430.2
7171.3	17.5°	6986.3	6739.8	5989.8	4980.8	4292.5	4175.4	4253.4	4368.5	4452.8	4489.7
7561.7	20°	7315.1	6978.1	5915.8	4574.0	4035.6	4058.2	4198.0	4345.9	4438.4	4485.6
8007.6	22.5°	7691.1	7232.9	5739.1	4146.6	3826.0	3930.8	4095.2	4239.1	4335.6	4382.9
8531.5	25°	8120.6	7518.5	5461.7	3787.0	3645.2	3787.0	3951.4	4070.6	4148.6	4191.8
9117.2	27.5°	8597.3	7816.5	5091.8	3501.4	3487.0	3639.1	3774.7	3867.1	3908.2	3941.1
9739.8	30°	9076.1	8087.7	4643.9	3285.6	3349.3	3493.2	3589.7	3630.8	3643.2	3649.3
10434.3	32.5°	9593.9	8322.0	4173.3	3106.9	3217.8	3351.4	3408.9	3427.4	3369.9	3330.8
11276.8	35°	10220.6	8572.6	3713.0	2965.1	3088.4	3203.4	3221.9	3205.5	3137.7	3057.5
12332.9	37.5°	10995.3	8885.0	3345.2	2864.4	2967.1	3043.2	3020.6	3016.5	3022.6	2928.1
13602.8	40°	11944.6	9291.8	3076.0	2786.3	2868.5	2884.9	2821.2	2856.2	2887.0	2743.2
14996.0	42.5°	12998.7	9782.9	2905.5	2732.9	2786.3	2747.3	2648.6	2687.7	2683.6	2494.5
16395.3	45°	14073.4	10317.2	2845.9	2693.8	2710.3	2632.2	2523.3	2533.6	2447.3	2276.7
17737.1	47.5°	15141.8	10890.5	2882.9	2661.0	2615.8	2527.4	2443.2	2398.0	2270.6	2143.2
19023.4	50°	16189.8	11492.5	3018.5	2595.2	2486.3	2434.9	2373.3	2293.2	2157.5	2048.6
20239.8	52.5°	17161.7	12098.7	3170.6	2486.3	2324.0	2354.8	2315.8	2223.3	2089.7	1978.8
21390.5	55°	18082.3	12704.9	3230.2	2336.3	2171.9	2284.9	2262.3	2091.8	1931.5	1841.1
22594.6	57.5°	19085.0	13434.3	3164.4	2145.2	2048.6	2204.8	2118.5	1929.5	1837.0	1769.2
24162.4	60°	20474.1	14578.8	3022.6	1908.9	1931.5	2085.6	1937.7	1859.6	1758.9	1682.9
26513.1	62.5°	22781.6	16713.8	2794.5	1674.7	1793.8	1908.9	1851.4	1773.3	1670.6	1596.6
30532.3	65°	26192.6	19680.9	2365.1	1491.8	1639.7	1736.3	1758.9	1680.8	1574.0	1495.9
34054.3	67.5°	29069.3	21542.6	1789.7	1339.7	1481.5	1596.6	1660.3	1584.3	1471.2	1395.2
34878.2	70°	28911.1	20190.5	1366.4	1189.7	1341.8	1458.9	1541.1	1481.5	1360.3	1288.4
31681.0	72.5°	25678.9	16890.5	1105.5	1037.7	1200.0	1315.1	1413.7	1368.5	1245.2	1175.3
23209.0	75°	18865.2	11989.8	883.6	883.6	1023.3	1165.1	1274.0	1245.2	1132.2	1082.9
9743.9	77.5°	7952.1	5030.2	692.5	733.6	850.7	1000.7	1136.3	1146.6	1047.9	1109.6
2576.7	80°	2114.4	1387.0	528.1	577.4	667.8	826.0	988.4	984.3	877.4	819.9
957.5	82.5°	805.5	546.6	376.0	406.9	482.9	632.9	782.9	807.5	700.7	606.2
376.0	85°	310.3	234.2	232.2	244.5	281.5	419.2	591.8	612.3	528.1	447.9
104.8	87.5°	80.1	69.9	86.3	82.2	129.5	224.0	339.0	351.4	322.6	187.0
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>
5677.4
5416.5
5019.9
4658.2
4440.4
4378.8
4428.1
4498.0
4498.0
4395.2
4204.1
3953.4
3663.7
3343.2
3061.7
2934.3
2747.3
2492.5
2282.9
2143.2
2040.4
1980.8
1832.9
1763.0
1678.8
1596.6
1500.0
1397.3
1294.5
1175.3
1068.5
1006.9
762.3
606.2
462.3
267.1
0.0

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