

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: P954294

Luminaire Tested: **GALN-SB7C-830-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954294
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7C-830-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48745 lumens
Efficiency: N/A
Efficacy: 139.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

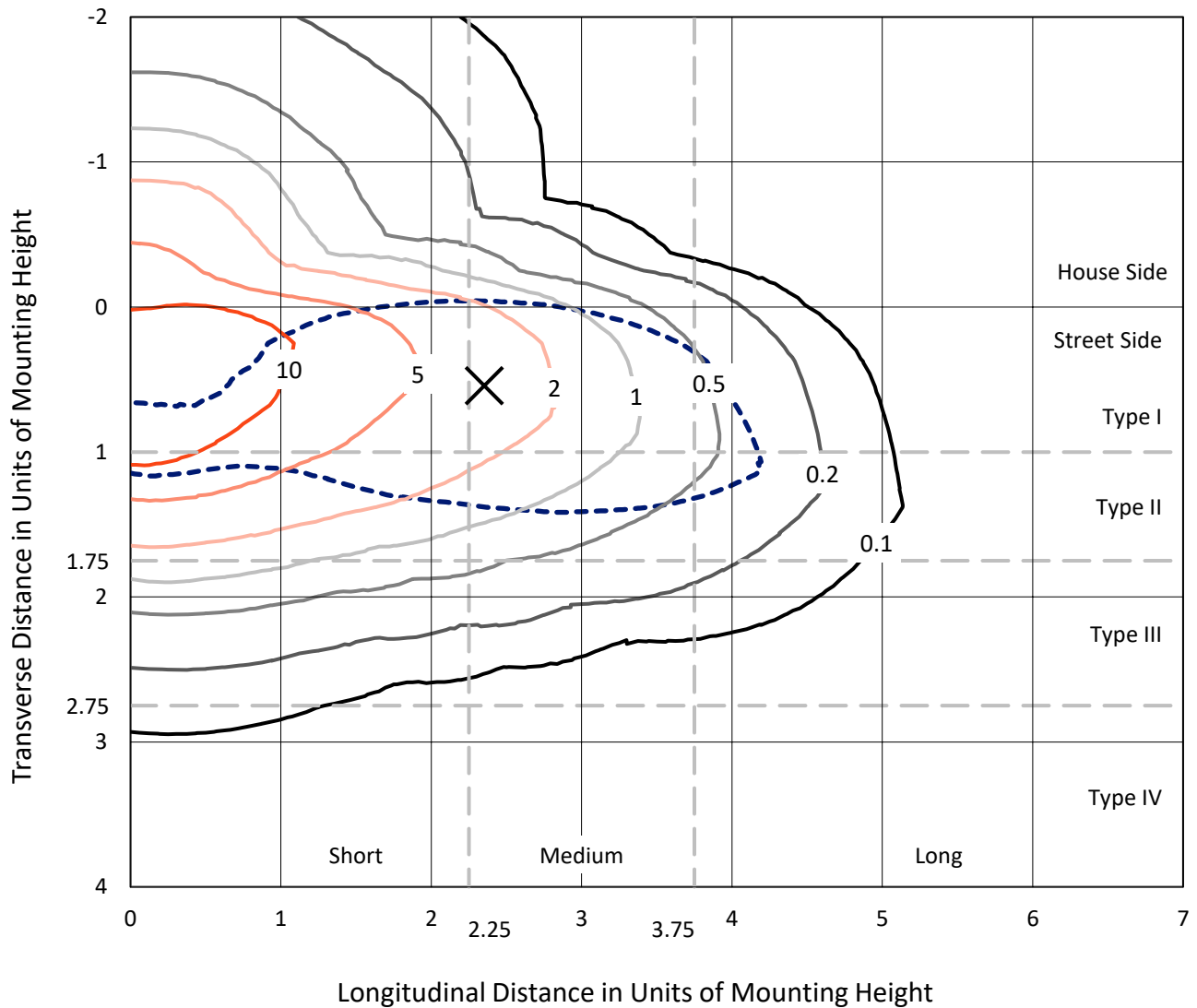
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

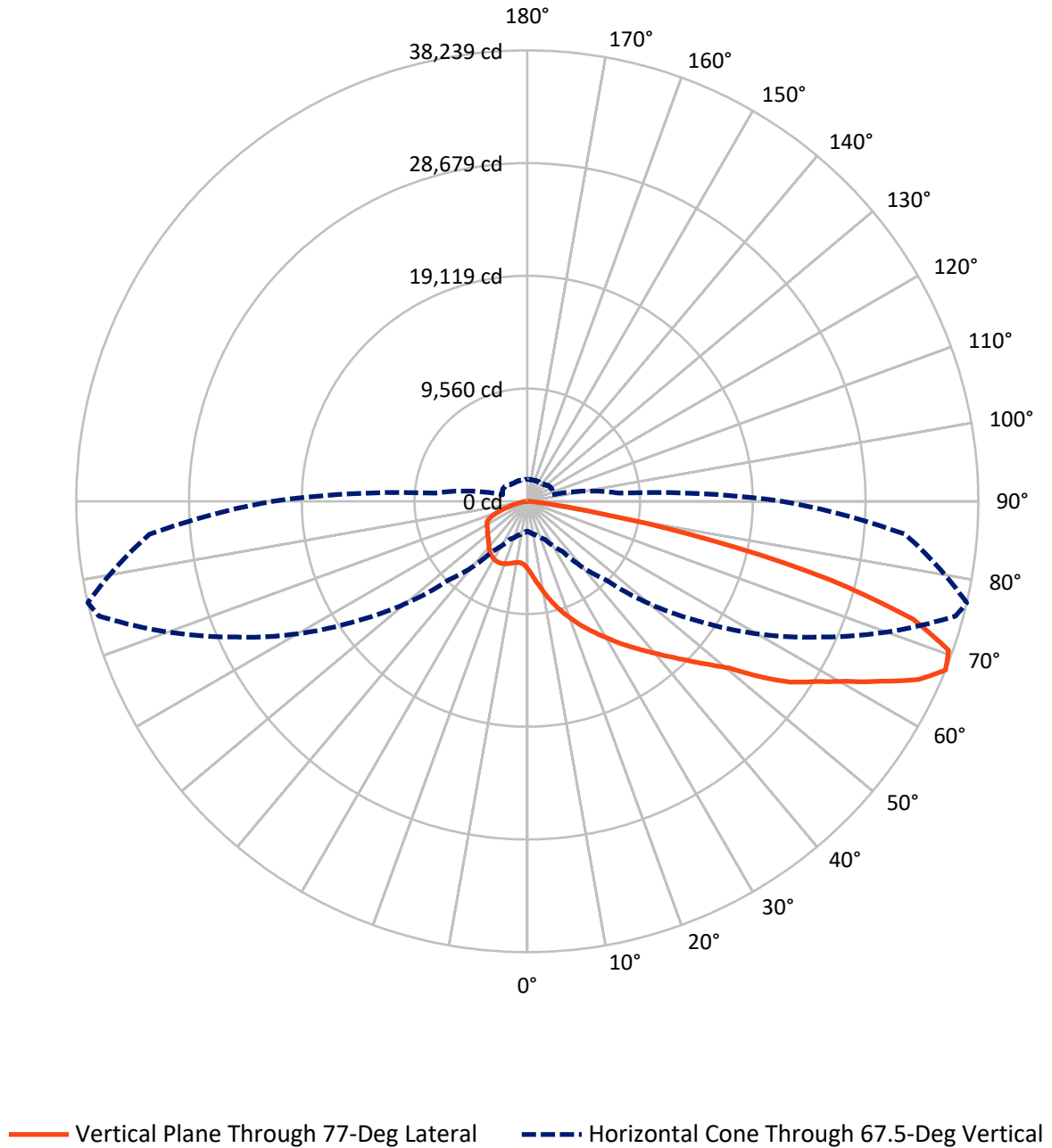
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9220.6	0.0	9220.6
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	39524.4	0.0	39524.4
	% Fixture	81.1	0.0	81.1
Total	Lumens	48745.0	0.0	48745.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	613.0	1.3
10°-20°	2202.4	4.5
20°-30°	4158.3	8.5
30°-40°	6699.0	13.7
40°-50°	9163.0	18.8
50°-60°	10335.9	21.2
60°-70°	9647.3	19.8
70°-80°	5288.3	10.8
80°-90°	637.9	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°	48745.0	100.0
0°-180°	48745.0	100.0

Coefficient of Utilization



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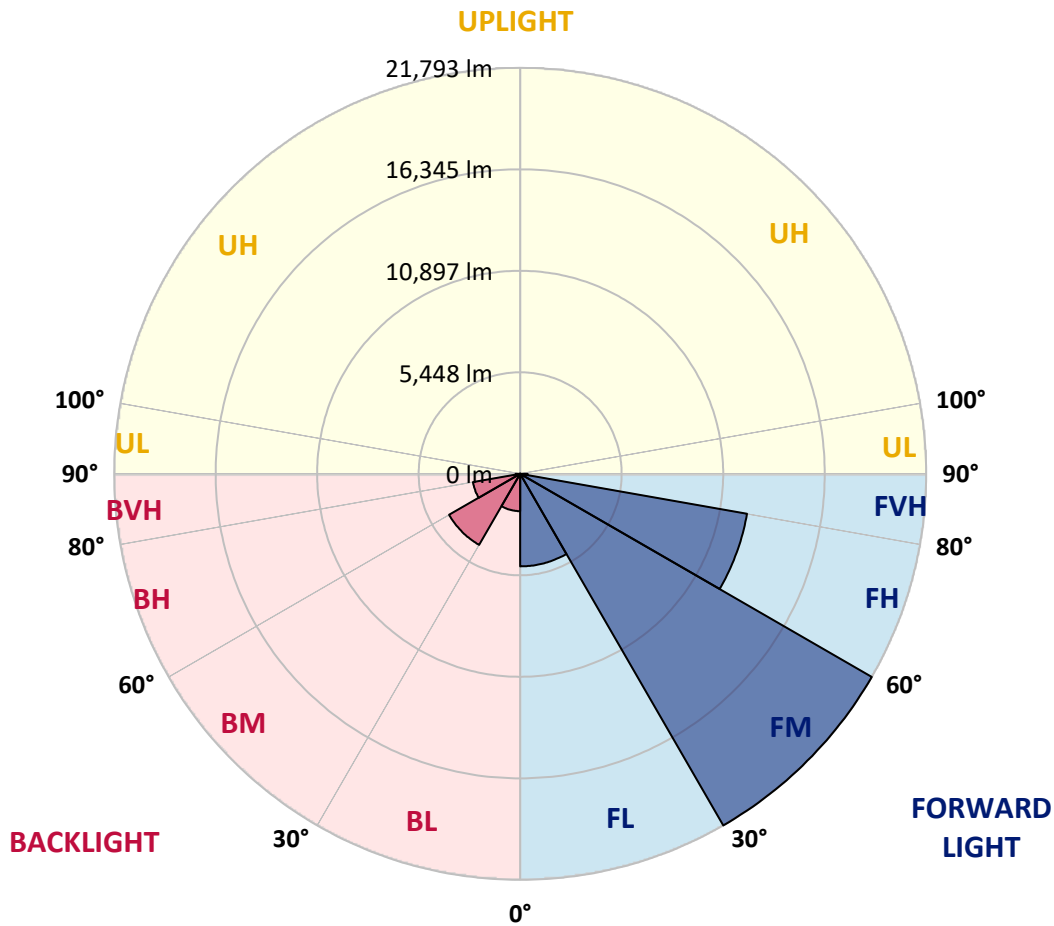
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4968.9	10.2			
FM (30°-60°)	21793.4	44.7			
FH (60°-80°)	12363.2	25.4			G5
FVH (80°-90°)	398.9	0.8			G3/500
BL (0°-30°)	2004.8	4.1	B3/2500		
BM (30°-60°)	4404.4	9.0	B3/5000		
BH (60°-80°)	2572.4	5.3	B4/5000		G4/5000
BVH (80°-90°)	239.0	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	5719.3	5719.3	5719.3	5719.3	5719.3	5719.3	5719.3	5719.3	5719.3	5719.3
2.5°	7161.1	7211.4	7148.5	7148.5	6937.1	6826.4	6615.1	6454.0	6164.7	6114.3
5°	8464.5	8527.4	8439.3	8401.6	8152.5	7923.5	7568.7	7219.0	6703.1	6650.3
7.5°	9473.5	9554.0	9476.0	9435.7	9214.3	8957.6	8542.5	8054.3	7327.1	7224.0
10°	10296.3	10308.8	10283.7	10298.8	10125.2	9913.8	9488.6	8919.9	8011.6	7870.6
12.5°	10761.8	10819.6	10869.9	10960.5	10930.3	10799.5	10417.0	9737.7	8736.2	8555.1
15°	10980.7	11081.3	11194.5	11403.4	11572.0	11604.7	11312.8	10615.8	9473.5	9254.6
17.5°	11058.7	11154.3	11332.9	11634.9	11997.2	12241.3	12110.4	11468.8	10203.2	9951.5
20°	11453.7	11481.4	11589.6	11876.4	12268.9	12674.1	12772.2	12289.1	10925.3	10641.0
22.5°	12299.1	12243.8	12274.0	12404.8	12686.6	13079.2	13303.1	13013.7	11667.6	11340.5
25°	13695.6	13534.6	13373.6	13222.6	13366.0	13587.4	13841.6	13738.4	12445.1	12029.9
27.5°	15459.5	15263.2	14908.4	14412.7	14239.1	14317.1	14430.4	14410.2	13164.7	12744.5
30°	17195.7	16966.7	16544.0	15826.8	15368.9	15162.6	15077.0	15019.1	13947.2	13499.4
32.5°	18582.1	18400.9	17985.7	17183.1	16518.8	16166.5	15882.2	15675.9	14765.0	14317.1
35°	19794.9	19626.3	19150.7	18275.1	17553.0	17178.0	16805.6	16365.3	15615.5	15162.6
37.5°	20902.0	20733.4	20081.7	19170.9	18443.7	18184.5	17852.4	17105.1	16468.5	16040.7
40°	21601.5	21563.8	20954.8	19923.2	19168.3	19040.0	18929.3	17963.1	17414.6	17017.0
42.5°	21780.2	21863.2	21380.1	20532.1	19812.5	19709.3	19968.5	18934.3	18476.4	18096.4
45°	21349.9	21588.9	21271.9	20695.7	20270.4	20215.1	20889.4	19996.2	19651.5	19304.2
47.5°	20260.4	20665.5	20534.6	20454.1	20393.7	20632.8	21699.6	21123.4	20982.5	20680.6
50°	18061.2	18828.7	19057.6	19565.9	20149.7	20957.4	22436.9	22353.8	22537.5	22233.1
52.5°	14259.3	15316.1	16644.6	17917.8	19399.8	20849.2	23247.1	24120.2	24895.2	24729.1
55°	11770.7	12246.3	13267.9	15602.9	17945.5	20393.7	23611.9	25546.9	27235.3	27086.8
57.5°	9858.4	10283.7	10912.7	12862.8	15746.3	19359.6	23838.4	26417.5	28838.1	28823.0
60°	7807.7	8258.1	8902.3	10283.7	13177.3	17573.1	23788.1	27408.9	30883.7	31009.5
62.5°	5492.8	5988.5	6703.1	7991.4	10552.9	15258.2	22761.5	28126.0	33291.7	33633.9
65°	3610.7	3937.8	4476.3	5588.5	7863.1	12281.5	20801.4	28219.1	35868.3	36447.0
67.5°	2531.3	2657.1	2974.1	3578.0	5183.4	9418.1	17678.8	27255.4	37586.9	38238.6
70°	1975.2	2038.1	2199.2	2440.7	3256.0	6333.3	13547.2	24749.3	37219.5	37898.9
72.5°	1706.0	1766.4	1826.8	1856.9	2184.1	3910.2	9176.5	20693.2	33759.7	34220.2
75°	1547.5	1562.6	1612.9	1602.8	1665.7	2536.3	5296.6	15077.0	26636.4	26477.9
77.5°	1300.9	1321.0	1404.0	1391.5	1479.5	1733.7	2750.2	9730.1	17268.6	16191.7
80°	1102.1	1112.2	1202.7	1187.6	1285.8	1255.6	1404.0	4959.4	7324.6	6204.9
82.5°	382.5	473.0	918.4	946.1	981.3	759.9	810.2	2023.0	2236.9	1713.5
85°	186.2	198.8	468.0	664.3	661.8	382.5	395.0	722.1	704.5	553.6
87.5°	30.2	37.7	55.4	259.2	206.3	100.6	135.9	140.9	145.9	125.8
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°
5719.3	0°	5719.3	5719.3	5719.3	5719.3	5719.3	5719.3	5719.3	5719.3	5719.3	5719.3
5923.1	2.5°	5782.2	5656.4	5392.2	5148.1	4956.9	4773.2	4670.1	4582.0	4531.7	4521.6
6199.9	5°	5938.2	5679.0	5198.5	4793.3	4529.1	4332.9	4229.7	4164.3	4131.6	4111.5
6572.3	7.5°	6162.2	5782.2	5097.8	4637.3	4360.6	4219.7	4166.8	4156.7	4154.2	4156.7
7022.7	10°	6471.6	5950.8	5087.7	4599.6	4368.1	4290.1	4287.6	4290.1	4300.2	4302.7
7513.3	12.5°	6806.3	6124.4	5128.0	4632.3	4463.7	4420.9	4413.4	4410.9	4418.4	4423.5
8009.0	15°	7171.1	6353.4	5195.9	4702.8	4569.4	4524.1	4516.6	4501.5	4499.0	4496.4
8529.9	17.5°	7546.1	6579.8	5271.4	4778.2	4637.3	4574.4	4546.8	4511.5	4483.9	4476.3
9068.4	20°	7926.0	6803.8	5324.3	4816.0	4642.4	4554.3	4499.0	4438.6	4390.8	4363.1
9611.9	22.5°	8331.1	7037.8	5357.0	4805.9	4597.1	4476.3	4375.7	4305.2	4232.2	4184.4
10160.4	25°	8726.2	7241.6	5354.5	4753.1	4509.0	4355.5	4227.2	4136.6	4036.0	3985.6
10726.5	27.5°	9106.1	7425.3	5291.6	4660.0	4383.2	4212.1	4058.6	3950.4	3852.3	3804.5
11297.7	30°	9498.6	7578.8	5193.4	4524.1	4234.7	4046.0	3877.5	3784.4	3696.3	3651.0
11901.6	32.5°	9888.6	7719.7	5055.0	4355.5	4063.6	3882.5	3716.4	3630.9	3578.0	3578.0
12550.8	35°	10301.3	7817.8	4871.3	4159.3	3882.5	3708.9	3578.0	3527.7	3522.7	3492.5
13237.7	37.5°	10736.6	7880.7	4647.4	3958.0	3703.8	3540.3	3500.0	3439.6	3389.3	3323.9
13992.5	40°	11194.5	7943.6	4378.2	3749.1	3515.1	3424.5	3406.9	3326.4	3183.0	3021.9
14848.0	42.5°	11750.6	7986.4	4098.9	3540.3	3316.3	3286.1	3311.3	3172.9	2943.9	2823.2
15879.7	45°	12394.8	8056.8	3842.2	3334.0	3112.5	3112.5	3218.2	3037.0	2848.3	2772.8
17057.3	47.5°	13230.1	8220.4	3603.2	3107.5	2923.8	2974.1	3011.9	2873.5	2767.8	2674.7
18491.5	50°	14437.9	8612.9	3356.6	2878.5	2780.4	2881.0	2828.2	2747.7	2624.4	2548.9
20771.2	52.5°	15937.6	8844.4	3137.7	2672.2	2657.1	2757.7	2682.3	2606.8	2513.7	2413.0
22499.8	55°	16959.1	8887.2	2954.0	2521.2	2574.1	2564.0	2536.3	2468.4	2418.1	2284.7
24205.8	57.5°	18101.5	8972.7	2803.0	2430.6	2521.2	2410.5	2400.4	2342.6	2277.2	2186.6
26286.7	60°	19467.8	9106.1	2672.2	2395.4	2475.9	2309.9	2259.5	2236.9	2171.5	2126.2
28790.3	62.5°	20957.4	9226.9	2538.8	2400.4	2423.1	2211.7	2136.2	2128.7	2088.4	2073.3
31140.4	65°	21973.9	8897.3	2372.8	2395.4	2340.1	2111.1	2015.5	2013.0	1980.2	1975.2
32159.4	67.5°	21619.1	7853.0	2148.8	2325.0	2254.5	2010.4	1904.8	1894.7	1851.9	1854.4
31095.1	70°	19842.7	6363.4	1839.3	2151.3	2148.8	1919.9	1789.0	1756.3	1698.4	1708.5
27036.5	72.5°	16511.2	4715.3	1424.2	1862.0	1980.2	1836.8	1655.7	1602.8	1529.8	1539.9
19958.4	75°	11924.2	3205.6	1036.7	1416.6	1723.6	1738.7	1524.8	1434.2	1346.2	1361.3
11109.0	77.5°	6101.8	1816.7	762.4	976.3	1353.7	1580.2	1406.6	1285.8	1265.6	1406.6
3203.1	80°	1990.3	910.9	528.4	684.4	888.2	1293.3	1232.9	1094.5	1089.5	1122.2
671.8	82.5°	593.8	385.0	339.7	450.4	490.7	991.4	1064.3	827.8	712.1	749.8
223.9	85°	203.8	186.2	193.7	223.9	234.0	581.2	744.8	548.5	518.3	571.2
50.3	87.5°	47.8	65.4	55.4	50.3	50.3	140.9	289.4	229.0	317.0	211.4
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°
5719.3
4521.6
4108.9
4164.3
4305.2
4426.0
4493.9
4483.9
4373.1
4186.9
3985.6
3802.0
3648.5
3580.5
3484.9
3313.8
2999.3
2825.7
2785.4
2672.2
2541.4
2392.9
2287.2
2156.4
2138.8
2073.3
1972.7
1854.4
1718.6
1537.4
1366.3
1386.4
963.7
775.0
563.6
203.8
0.0

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