

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: P956583

Luminaire Tested: **GALN-SB9A-940-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956583
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-SB9A-940-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30157 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

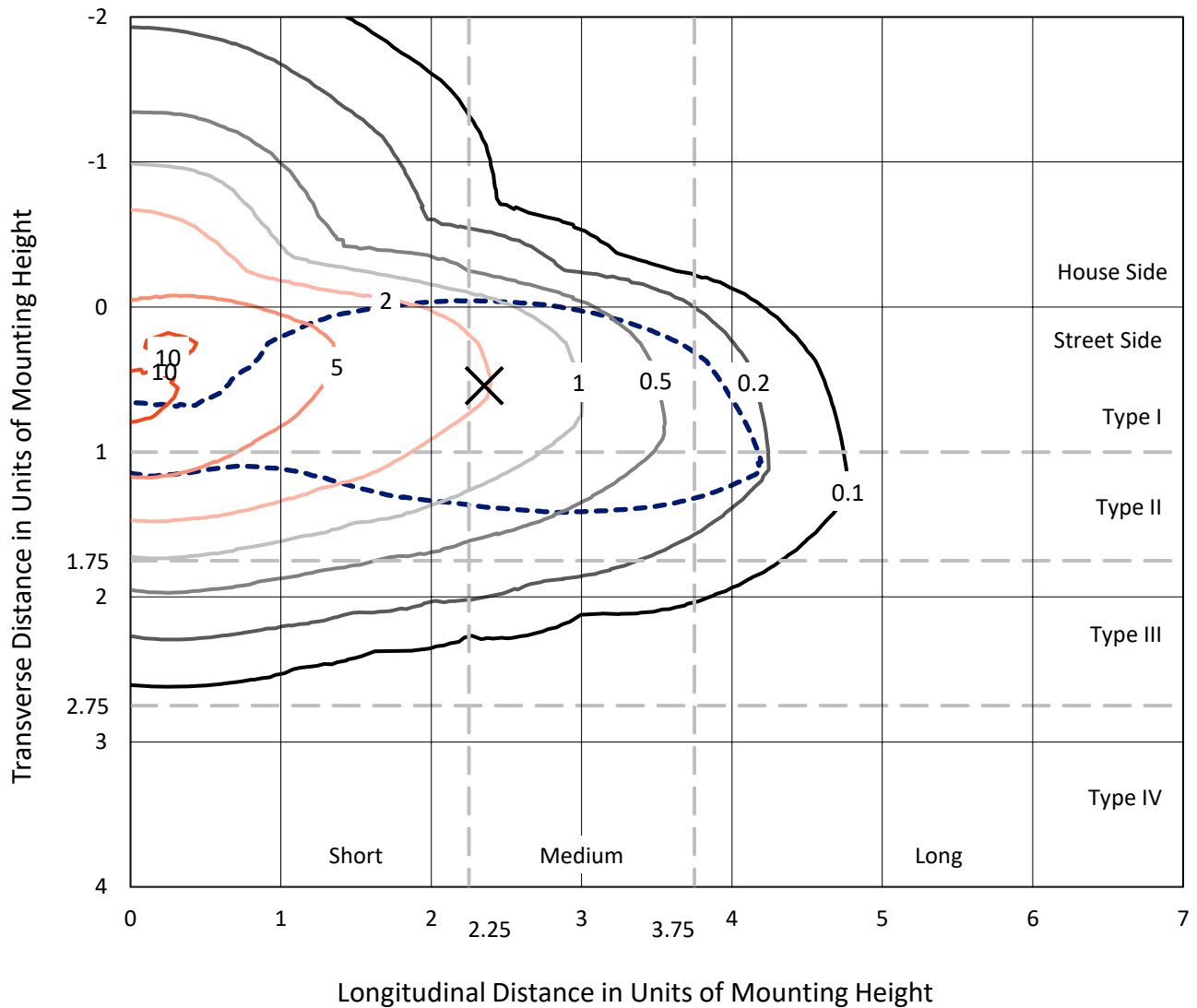
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

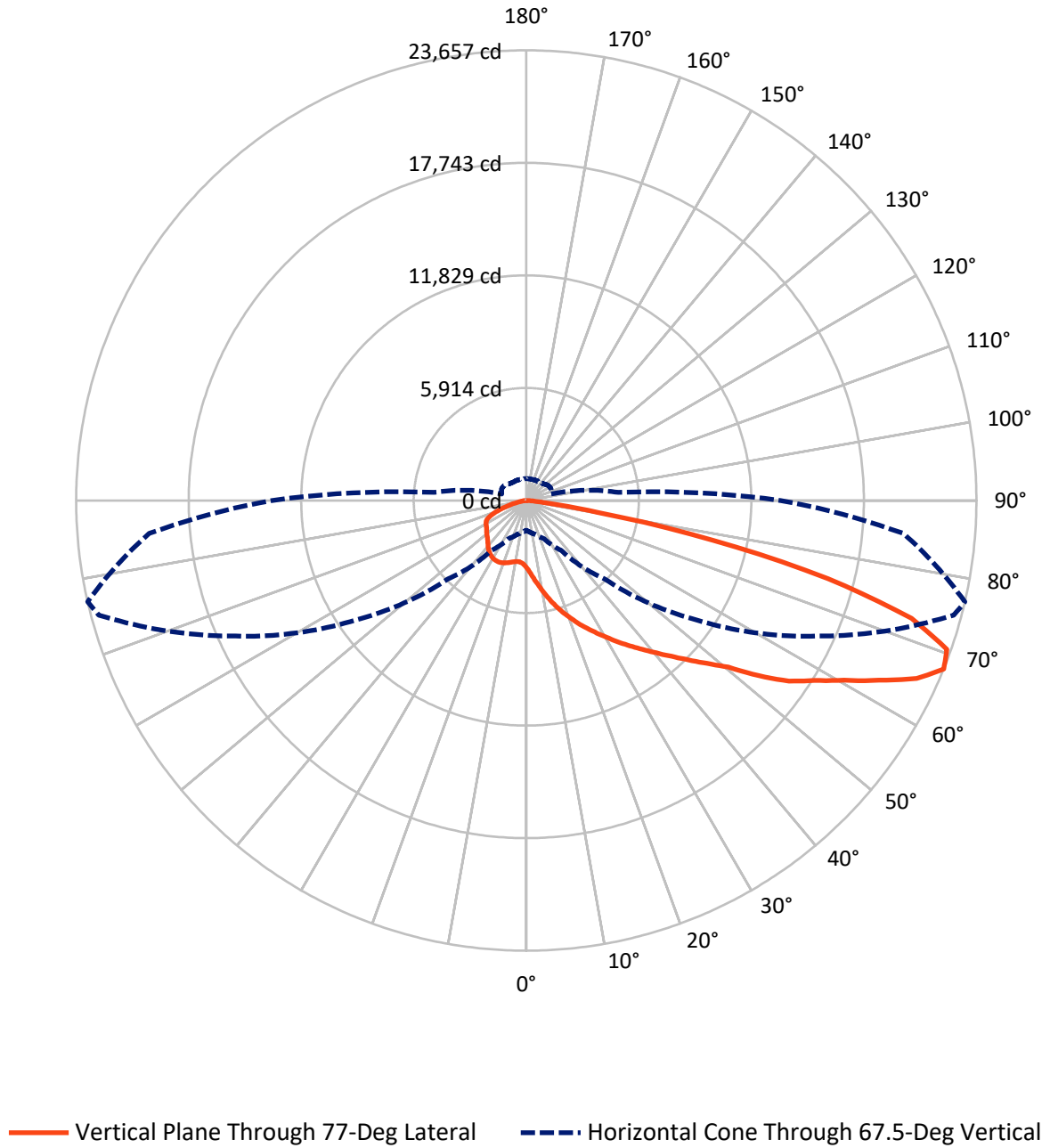
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 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	5704.5	0.0	5704.5
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	24452.5	0.0	24452.5
	% Fixture	81.1	0.0	81.1
Total	Lumens	30157.0	0.0	30157.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	379.3	1.3
10°-20°	1362.5	4.5
20°-30°	2572.6	8.5
30°-40°	4144.4	13.7
40°-50°	5668.8	18.8
50°-60°	6394.5	21.2
60°-70°	5968.5	19.8
70°-80°	3271.7	10.8
80°-90°	394.6	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°	30157.0	100.0
0°-180°	30157.0	100.0

Coefficient of Utilization



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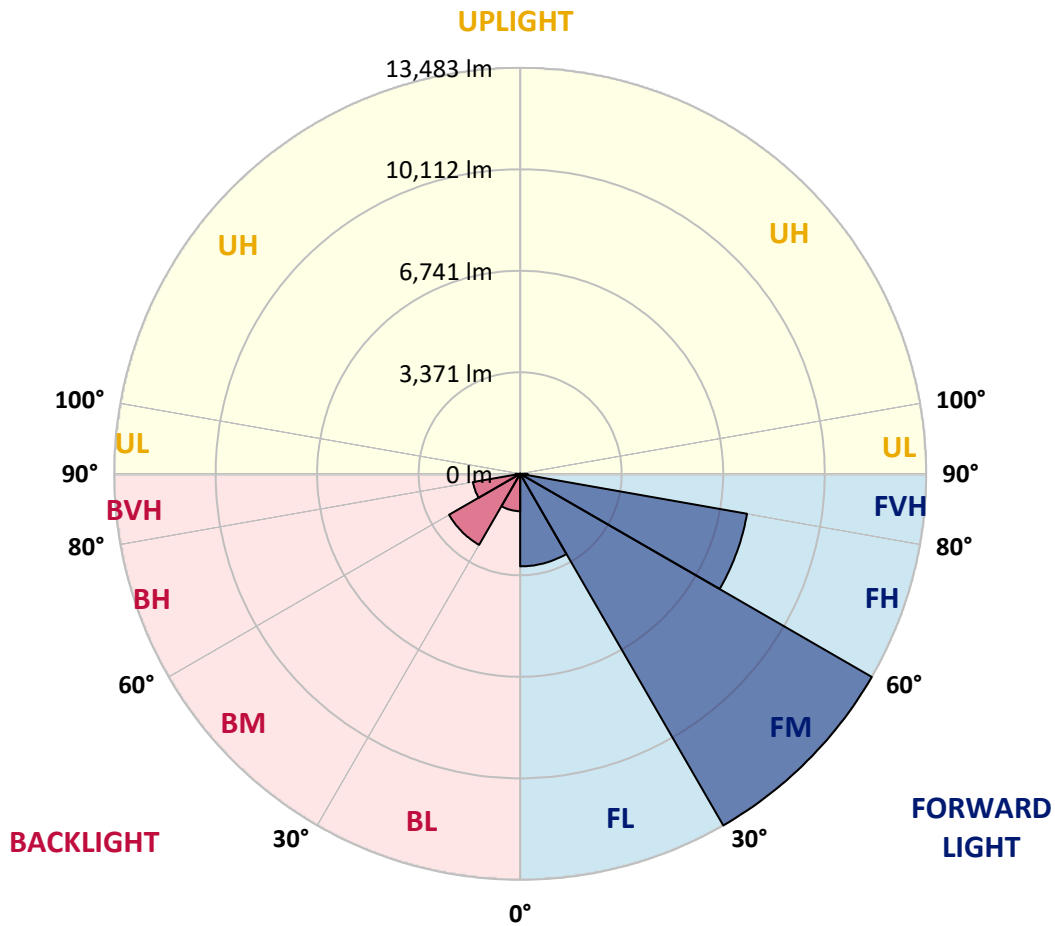
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3074.1	10.2			
FM (30°-60°)	13482.9	44.7			
FH (60°-80°)	7648.7	25.4			G4/12000
FVH (80°-90°)	246.8	0.8			G3/500
BL (0°-30°)	1240.3	4.1	B3/2500		
BM (30°-60°)	2724.9	9.0	B3/5000		
BH (60°-80°)	1591.5	5.3	B3/2500		G3/2500
BVH (80°-90°)	147.8	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-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3538.4	3538.4	3538.4	3538.4	3538.4	3538.4	3538.4	3538.4	3538.4	3538.4
2.5°	4430.3	4461.5	4422.6	4422.6	4291.8	4223.3	4092.5	3992.9	3813.9	3782.8
5°	5236.7	5275.6	5221.1	5197.8	5043.7	4902.0	4682.5	4466.1	4147.0	4114.3
7.5°	5860.9	5910.7	5862.5	5837.6	5700.6	5541.8	5285.0	4983.0	4533.1	4469.3
10°	6370.0	6377.8	6362.2	6371.5	6264.1	6133.4	5870.3	5518.5	4956.5	4869.3
12.5°	6658.0	6693.8	6724.9	6780.9	6762.3	6681.3	6444.7	6024.4	5404.8	5292.7
15°	6793.4	6855.7	6925.7	7054.9	7159.2	7179.4	6998.9	6567.7	5860.9	5725.5
17.5°	6841.6	6900.8	7011.3	7198.1	7422.3	7573.3	7492.3	7095.4	6312.4	6156.7
20°	7086.0	7103.2	7170.1	7347.6	7590.4	7841.0	7901.8	7602.9	6759.1	6583.2
22.5°	7609.1	7574.8	7593.5	7674.5	7848.8	8091.7	8230.2	8051.2	7218.4	7016.0
25°	8473.1	8373.4	8273.8	8180.4	8269.1	8406.1	8563.3	8499.5	7699.4	7442.5
27.5°	9564.3	9442.9	9223.4	8916.7	8809.3	8857.6	8927.6	8915.2	8144.6	7884.6
30°	10638.4	10496.8	10235.2	9791.6	9508.3	9380.6	9327.7	9291.9	8628.7	8351.6
32.5°	11496.1	11384.1	11127.2	10630.6	10219.7	10001.7	9825.8	9698.2	9134.6	8857.6
35°	12246.5	12142.2	11848.0	11306.2	10859.5	10627.5	10397.1	10124.7	9660.8	9380.6
37.5°	12931.4	12827.1	12423.9	11860.4	11410.5	11250.2	11044.7	10582.4	10188.5	9923.9
40°	13364.2	13340.8	12964.1	12325.9	11858.9	11779.5	11711.0	11113.2	10773.8	10527.9
42.5°	13474.7	13526.1	13227.2	12702.6	12257.4	12193.5	12353.9	11714.1	11430.8	11195.7
45°	13208.5	13356.4	13160.2	12803.8	12540.7	12506.4	12923.6	12371.0	12157.7	11942.9
47.5°	12534.5	12785.1	12704.1	12654.3	12617.0	12764.8	13424.9	13068.4	12981.2	12794.4
50°	11173.9	11648.7	11790.4	12104.8	12466.0	12965.7	13881.0	13829.6	13943.3	13754.9
52.5°	8821.8	9475.6	10297.5	11085.2	12002.1	12898.7	14382.2	14922.4	15401.9	15299.1
55°	7282.2	7576.4	8208.4	9653.0	11102.3	12617.0	14608.0	15805.1	16849.6	16757.8
57.5°	6099.1	6362.2	6751.4	7957.8	9741.8	11977.2	14748.1	16343.7	17841.2	17831.9
60°	4830.4	5109.1	5507.6	6362.2	8152.4	10871.9	14716.9	16957.0	19106.8	19184.6
62.5°	3398.3	3704.9	4147.0	4944.0	6528.8	9439.8	14081.8	17400.7	20596.5	20808.3
65°	2233.8	2436.2	2769.3	3457.4	4864.7	7598.2	12869.1	17458.3	22190.6	22548.6
67.5°	1566.0	1643.9	1840.0	2213.6	3206.8	5826.7	10937.3	16862.0	23253.8	23657.0
70°	1222.0	1260.9	1360.5	1510.0	2014.4	3918.2	8381.2	15311.6	23026.5	23446.8
72.5°	1055.4	1092.8	1130.2	1148.8	1351.2	2419.1	5677.2	12802.2	20886.1	21171.0
75°	957.4	966.7	997.8	991.6	1030.5	1569.1	3276.8	9327.7	16479.1	16381.0
77.5°	804.8	817.3	868.6	860.8	915.3	1072.6	1701.5	6019.7	10683.6	10017.3
80°	681.8	688.1	744.1	734.8	795.5	776.8	868.6	3068.2	4531.5	3838.8
82.5°	236.6	292.7	568.2	585.3	607.1	470.1	501.3	1251.6	1383.9	1060.1
85°	115.2	123.0	289.5	411.0	409.4	236.6	244.4	446.8	435.9	342.5
87.5°	18.7	23.4	34.2	160.3	127.6	62.3	84.1	87.2	90.3	77.8
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°
3538.4	0°	3538.4	3538.4	3538.4	3538.4	3538.4	3538.4	3538.4	3538.4	3538.4	3538.4
3664.4	2.5°	3577.3	3499.4	3336.0	3185.0	3066.7	2953.0	2889.2	2834.7	2803.6	2797.4
3835.7	5°	3673.8	3513.4	3216.1	2965.5	2802.0	2680.6	2616.8	2576.3	2556.1	2543.6
4066.1	7.5°	3812.3	3577.3	3153.9	2869.0	2697.7	2610.6	2577.9	2571.6	2570.1	2571.6
4344.7	10°	4003.8	3681.6	3147.6	2845.6	2702.4	2654.2	2652.6	2654.2	2660.4	2661.9
4648.3	12.5°	4210.8	3789.0	3172.5	2865.9	2761.6	2735.1	2730.4	2728.9	2733.5	2736.7
4954.9	15°	4436.6	3930.6	3214.6	2909.5	2826.9	2798.9	2794.3	2784.9	2783.4	2781.8
5277.2	17.5°	4668.5	4070.7	3261.3	2956.2	2869.0	2830.1	2812.9	2791.1	2774.0	2769.3
5610.3	20°	4903.6	4209.3	3294.0	2979.5	2872.1	2817.6	2783.4	2746.0	2716.4	2699.3
5946.6	22.5°	5154.2	4354.1	3314.2	2973.3	2844.1	2769.3	2707.1	2663.5	2618.4	2588.8
6285.9	25°	5398.6	4480.1	3312.6	2940.6	2789.6	2694.6	2615.2	2559.2	2496.9	2465.8
6636.2	27.5°	5633.7	4593.8	3273.7	2883.0	2711.8	2605.9	2510.9	2444.0	2383.3	2353.7
6989.5	30°	5876.5	4688.7	3213.0	2798.9	2619.9	2503.2	2398.9	2341.3	2286.8	2258.8
7363.1	32.5°	6117.8	4775.9	3127.4	2694.6	2514.1	2402.0	2299.2	2246.3	2213.6	2213.6
7764.8	35°	6373.1	4836.6	3013.7	2573.2	2402.0	2294.6	2213.6	2182.5	2179.4	2160.7
8189.7	37.5°	6642.4	4875.5	2875.2	2448.7	2291.4	2190.3	2165.4	2128.0	2096.9	2056.4
8656.7	40°	6925.7	4914.5	2708.6	2319.5	2174.7	2118.7	2107.8	2057.9	1969.2	1869.6
9186.0	42.5°	7269.7	4940.9	2535.8	2190.3	2051.7	2033.0	2048.6	1963.0	1821.3	1746.6
9824.3	45°	7668.2	4984.5	2377.1	2062.6	1925.6	1925.6	1991.0	1878.9	1762.2	1715.5
10552.8	47.5°	8185.1	5085.7	2229.2	1922.5	1808.9	1840.0	1863.4	1777.7	1712.4	1654.8
11440.1	50°	8932.3	5328.5	2076.6	1780.9	1720.1	1782.4	1749.7	1699.9	1623.6	1576.9
12850.5	52.5°	9860.1	5471.8	1941.2	1653.2	1643.9	1706.1	1659.4	1612.7	1555.1	1492.9
13919.9	55°	10492.1	5498.2	1827.6	1559.8	1592.5	1586.3	1569.1	1527.1	1496.0	1413.5
14975.3	57.5°	11198.8	5551.2	1734.2	1503.8	1559.8	1491.3	1485.1	1449.3	1408.8	1352.8
16262.7	60°	12044.1	5633.7	1653.2	1482.0	1531.8	1429.0	1397.9	1383.9	1343.4	1315.4
17811.6	62.5°	12965.7	5708.4	1570.7	1485.1	1499.1	1368.3	1321.6	1317.0	1292.1	1282.7
19265.6	65°	13594.6	5504.5	1468.0	1482.0	1447.7	1306.1	1246.9	1245.4	1225.1	1222.0
19896.0	67.5°	13375.1	4858.4	1329.4	1438.4	1394.8	1243.8	1178.4	1172.2	1145.7	1147.3
19237.6	70°	12276.0	3936.9	1137.9	1331.0	1329.4	1187.8	1106.8	1086.6	1050.8	1057.0
16726.6	72.5°	10215.0	2917.2	881.1	1151.9	1225.1	1136.4	1024.3	991.6	946.5	952.7
12347.7	75°	7377.1	1983.2	641.4	876.4	1066.3	1075.7	943.4	887.3	832.8	842.2
6872.8	77.5°	3775.0	1123.9	471.7	604.0	837.5	977.6	870.2	795.5	783.0	870.2
1981.7	80°	1231.3	563.5	326.9	423.4	549.5	800.1	762.8	677.2	674.0	694.3
415.6	82.5°	367.4	238.2	210.2	278.6	303.6	613.3	658.5	512.2	440.5	463.9
138.5	85°	126.1	115.2	119.9	138.5	144.8	359.6	460.8	339.4	320.7	353.4
31.1	87.5°	29.6	40.5	34.2	31.1	31.1	87.2	179.0	141.7	196.1	130.8
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>
3538.4
2797.4
2542.1
2576.3
2663.5
2738.2
2780.2
2774.0
2705.5
2590.3
2465.8
2352.2
2257.2
2215.2
2156.0
2050.2
1855.6
1748.2
1723.3
1653.2
1572.3
1480.4
1415.0
1334.1
1323.2
1282.7
1220.4
1147.3
1063.2
951.1
845.3
857.7
596.2
479.5
348.7
126.1
0.0

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