

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: P943945

Luminaire Tested: **GALN-SB8C-930-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943945
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-SB8C-930-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41742 lumens
Efficiency: N/A
Efficacy: 104.4 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

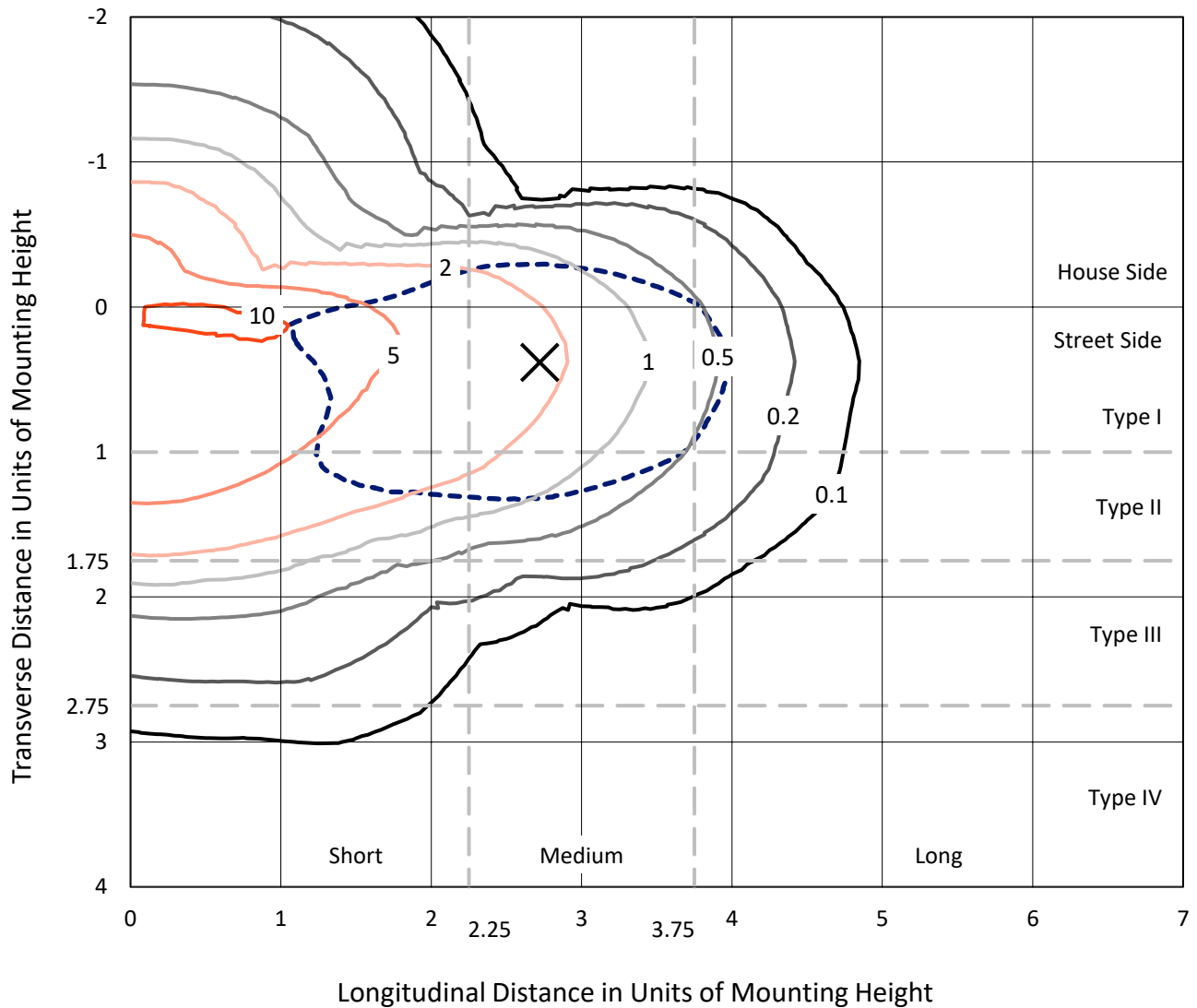
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

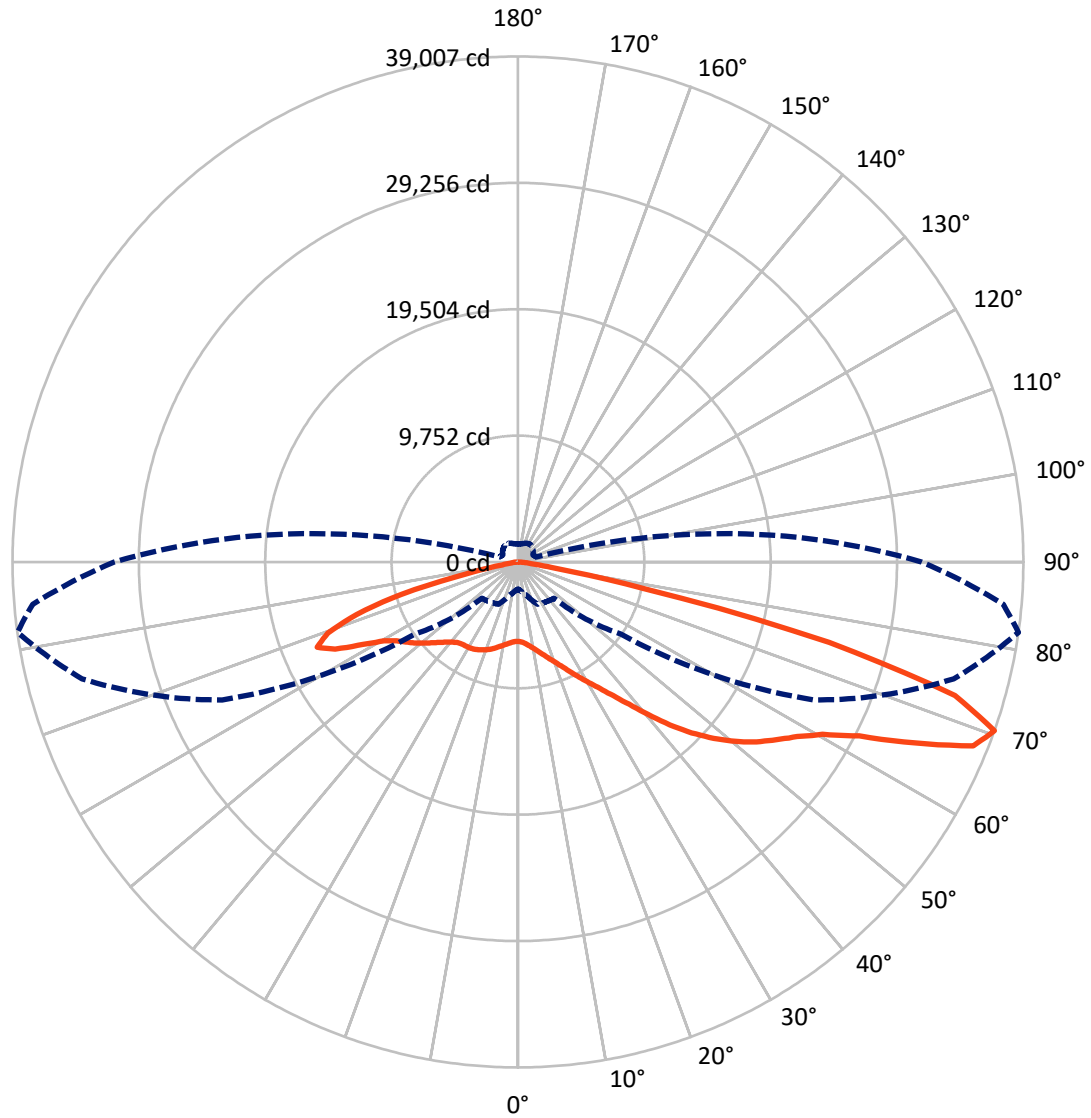
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 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	10290.4	0.0	10290.4
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	31451.6	0.0	31451.6
	% Fixture	75.3	0.0	75.3
Total	Lumens	41742.0	0.0	41742.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	577.8	1.4
10°-20°	1660.1	4.0
20°-30°	2777.2	6.7
30°-40°	4338.8	10.4
40°-50°	6910.0	16.6
50°-60°	9616.1	23.0
60°-70°	10058.8	24.1
70°-80°	5257.3	12.6
80°-90°	545.9	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°	41742.0	100.0
0°-180°	41742.0	100.0

Coefficient of Utilization



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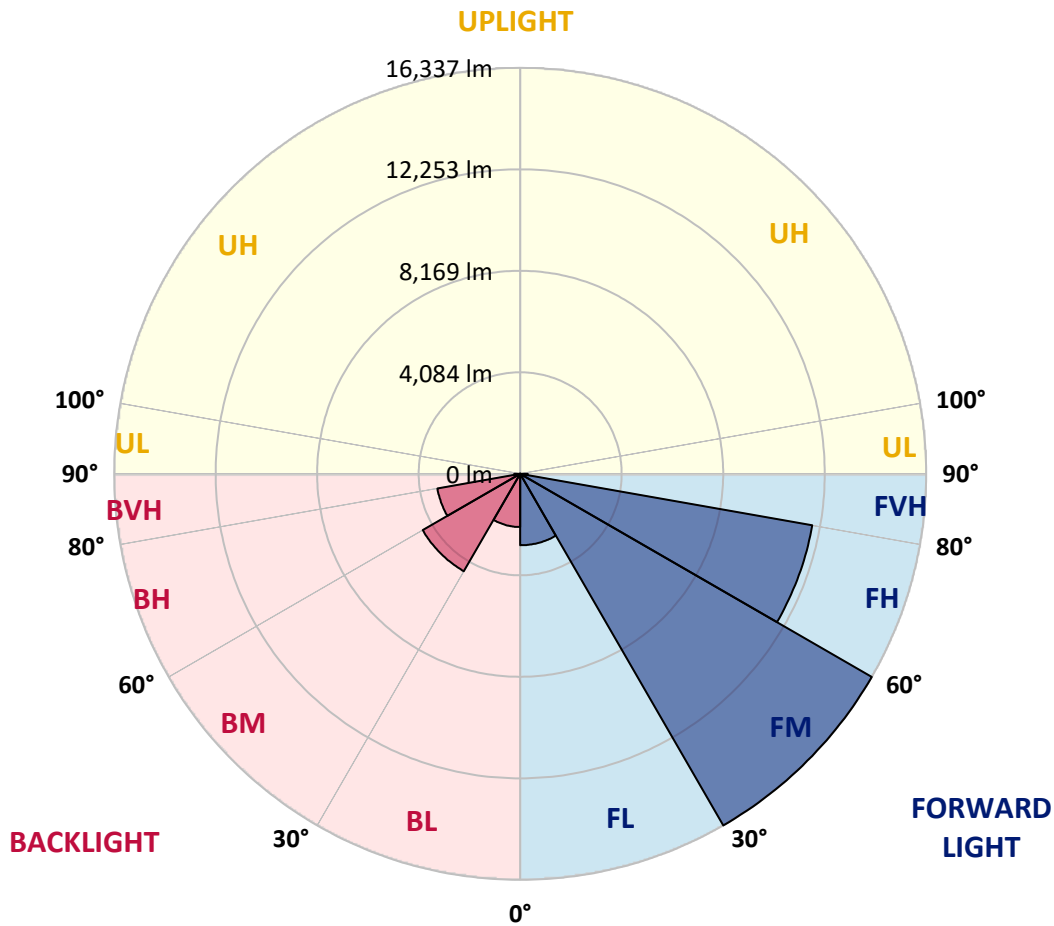
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2874.4	6.9			
FM (30°-60°)	16337.4	39.1			
FH (60°-80°)	11934.2	28.6			G4/12000
FVH (80°-90°)	305.6	0.7			G3/500
BL (0°-30°)	2140.8	5.1	B3/2500		
BM (30°-60°)	4527.4	10.8	B3/5000		
BH (60°-80°)	3382.0	8.1	B4/5000		G4/5000
BVH (80°-90°)	240.3	0.6			G3/500
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°	6119.9	6119.9	6119.9	6119.9	6119.9	6119.9	6119.9	6119.9	6119.9	6119.9
2.5°	6266.1	6301.5	6290.5	6279.4	6279.4	6263.9	6261.7	6239.5	6221.8	6193.0
5°	6345.8	6383.5	6379.0	6387.9	6416.7	6423.3	6430.0	6416.7	6381.3	6345.8
7.5°	6274.9	6317.0	6330.3	6383.5	6472.1	6551.8	6611.6	6636.0	6602.8	6551.8
10°	6035.7	6082.2	6128.8	6255.0	6412.3	6600.5	6760.0	6855.3	6848.6	6799.9
12.5°	5550.7	5599.4	5699.1	5944.9	6232.9	6565.1	6861.9	7061.3	7129.9	7094.5
15°	5163.0	5205.1	5280.4	5532.9	5907.3	6412.3	6899.6	7287.2	7462.2	7442.2
17.5°	5152.0	5169.7	5216.2	5335.8	5623.8	6173.1	6859.7	7508.7	7843.1	7840.9
20°	5346.9	5353.5	5380.1	5404.5	5568.4	5991.4	6757.8	7692.5	8270.6	8270.6
22.5°	5617.1	5612.7	5639.3	5617.1	5696.8	5975.9	6693.6	7854.2	8746.8	8782.3
25°	6022.4	6000.3	5993.6	5942.7	5958.2	6119.9	6764.4	8038.0	9311.6	9384.7
27.5°	6562.9	6527.4	6503.1	6385.7	6345.8	6416.7	6981.5	8259.5	9940.7	10066.9
30°	7267.2	7203.0	7167.6	6963.8	6819.8	6830.9	7309.3	8554.1	10598.5	10802.3
32.5°	8228.5	8128.9	8033.6	7699.2	7435.6	7349.2	7732.4	8961.7	11311.7	11637.3
35°	9305.0	9225.3	9123.4	8607.3	8201.9	8002.6	8303.8	9530.9	12146.8	12662.9
37.5°	10341.6	10272.9	10321.7	9626.2	9103.4	8813.3	9052.5	10295.1	13176.7	13938.7
40°	11413.6	11360.5	11367.1	10702.6	10093.5	9767.9	9960.6	11254.1	14357.3	15455.9
42.5°	12578.7	12538.8	12405.9	11816.7	11132.3	10828.9	11006.1	12361.6	15624.2	17183.6
45°	13883.3	13858.9	13734.9	13059.3	12275.2	11934.1	12173.3	13584.3	16897.8	18809.3
47.5°	15010.7	15030.6	15015.1	14445.9	13633.0	13132.4	13418.2	14860.1	18082.8	20337.6
50°	15553.4	15657.5	15810.3	15633.1	15128.1	14618.7	14674.0	16091.6	19212.5	21770.7
52.5°	15269.8	15467.0	15883.4	16166.9	16361.8	16255.5	16107.1	17314.2	20275.6	23064.2
55°	14213.3	14490.2	15181.2	15865.7	16860.2	17633.2	17828.1	18669.8	21312.2	24202.7
57.5°	12288.5	12738.2	13358.3	14742.7	16417.2	18299.9	19834.9	20550.3	22410.8	25418.7
60°	8988.3	9590.7	10361.5	12421.4	14866.7	17943.3	21542.6	23438.6	23972.4	26993.6
62.5°	5752.2	6124.3	6833.1	8773.4	11584.2	16116.0	22065.3	27048.9	26619.2	29576.2
65°	3938.2	4177.4	4826.4	5916.1	7488.7	11996.2	20665.5	29755.6	30823.2	33669.4
67.5°	2861.7	3043.3	3597.1	4551.7	4879.5	7098.9	16036.2	29631.6	34909.8	37886.7
70°	2086.5	2214.9	2680.1	3597.1	3754.3	3949.3	9714.8	25188.4	34821.2	39007.4
72.5°	1546.0	1634.6	1946.9	2790.8	3038.9	2666.8	4808.7	18306.5	29921.7	35281.9
75°	1118.5	1185.0	1415.4	2135.2	2432.0	2031.1	2398.8	10698.2	20871.4	24818.5
77.5°	855.0	905.9	1056.5	1563.8	1946.9	1523.9	1488.4	4921.6	9896.4	9945.1
80°	686.6	719.9	801.8	1100.8	1492.9	1140.7	970.1	1986.8	3127.5	2646.9
82.5°	505.0	560.4	677.8	773.0	1067.6	786.3	591.4	1003.4	1189.4	1023.3
85°	287.9	325.6	409.8	553.7	682.2	480.6	338.9	445.2	553.7	454.1
87.5°	101.9	132.9	144.0	217.1	296.8	199.3	130.7	128.5	181.6	135.1
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°
6119.9	0°	6119.9	6119.9	6119.9	6119.9	6119.9	6119.9	6119.9	6119.9	6119.9	6119.9
6186.3	2.5°	6164.2	6153.1	6108.8	6049.0	5987.0	5927.2	5907.3	5865.2	5836.4	5820.9
6330.3	5°	6288.2	6252.8	6148.7	6015.8	5876.3	5725.6	5619.3	5521.9	5451.0	5384.5
6527.4	7.5°	6465.4	6403.4	6224.0	5991.4	5743.4	5493.1	5307.0	5165.3	5070.0	5008.0
6757.8	10°	6671.4	6576.2	6301.5	5953.8	5570.6	5211.8	4992.5	4870.7	4810.9	4777.6
7021.4	12.5°	6908.4	6773.3	6381.3	5867.4	5307.0	4897.2	4746.6	4711.2	4713.4	4715.6
7353.6	15°	7200.8	7012.5	6445.5	5679.1	4963.7	4655.8	4629.2	4686.8	4746.6	4775.4
7730.2	17.5°	7530.8	7265.0	6456.6	5369.0	4627.0	4500.8	4584.9	4709.0	4799.8	4839.7
8151.0	20°	7885.2	7522.0	6376.8	4930.5	4350.2	4374.5	4525.1	4684.6	4784.3	4835.2
8631.6	22.5°	8290.5	7796.6	6186.3	4469.8	4124.2	4237.2	4414.4	4569.4	4673.5	4724.5
9196.5	25°	8753.5	8104.5	5887.3	4082.1	3929.3	4082.1	4259.3	4387.8	4472.0	4518.5
9827.7	27.5°	9267.3	8425.7	5488.6	3774.3	3758.8	3922.7	4068.9	4168.5	4212.8	4248.3
10498.8	30°	9783.4	8718.0	5005.8	3541.7	3610.4	3765.4	3869.5	3913.8	3927.1	3933.7
11247.5	32.5°	10341.6	8970.5	4498.6	3349.0	3468.6	3612.6	3674.6	3694.5	3632.5	3590.4
12155.6	35°	11017.1	9240.8	4002.4	3196.2	3329.1	3453.1	3473.0	3455.3	3382.2	3295.8
13294.1	37.5°	11852.2	9577.4	3605.9	3087.6	3198.4	3280.3	3256.0	3251.5	3258.2	3156.3
14663.0	40°	12875.5	10016.0	3315.8	3003.5	3092.1	3109.8	3041.1	3078.8	3112.0	2957.0
16164.7	42.5°	14011.8	10545.4	3131.9	2945.9	3003.5	2961.4	2855.1	2897.2	2892.7	2688.9
17673.1	45°	15170.2	11121.2	3067.7	2903.8	2921.5	2837.3	2720.0	2731.0	2638.0	2454.2
19119.4	47.5°	16321.9	11739.2	3107.6	2868.4	2819.6	2724.4	2633.6	2584.8	2447.5	2310.2
20506.0	50°	17451.6	12388.2	3253.8	2797.5	2680.1	2624.7	2558.3	2471.9	2325.7	2208.3
21817.2	52.5°	18499.2	13041.6	3417.7	2680.1	2505.1	2538.3	2496.2	2396.6	2252.6	2133.0
23057.6	55°	19491.5	13695.0	3481.9	2518.4	2341.2	2463.0	2438.7	2254.8	2082.1	1984.6
24355.6	57.5°	20572.4	14481.3	3411.0	2312.4	2208.3	2376.6	2283.6	2079.8	1980.2	1907.1
26045.6	60°	22069.7	15715.1	3258.2	2057.7	2082.1	2248.2	2088.7	2004.5	1896.0	1814.0
28579.5	62.5°	24557.1	18016.4	3012.3	1805.2	1933.6	2057.7	1995.7	1911.5	1800.8	1721.0
32911.9	65°	28233.9	21214.8	2549.4	1608.1	1767.5	1871.6	1896.0	1811.8	1696.6	1612.5
36708.3	67.5°	31334.9	23221.5	1929.2	1444.1	1597.0	1721.0	1789.7	1707.7	1585.9	1503.9
37596.5	70°	31164.3	21764.1	1472.9	1282.5	1446.4	1572.6	1661.2	1597.0	1466.3	1388.8
34150.1	72.5°	27680.2	18206.9	1191.6	1118.5	1293.5	1417.6	1523.9	1475.2	1342.3	1266.9
25017.8	75°	20335.4	12924.2	952.4	952.4	1103.0	1255.9	1373.3	1342.3	1220.4	1167.3
10503.3	77.5°	8571.8	5422.2	746.4	790.7	917.0	1078.7	1224.9	1235.9	1129.6	1196.1
2777.5	80°	2279.2	1495.1	569.2	622.4	719.9	890.4	1065.4	1061.0	945.8	883.8
1032.2	82.5°	868.3	589.2	405.3	438.6	520.5	682.2	843.9	870.5	755.3	653.4
405.3	85°	334.5	252.5	250.3	263.6	303.4	451.8	637.9	660.1	569.2	482.9
113.0	87.5°	86.4	75.3	93.0	88.6	139.5	241.4	365.5	378.8	347.7	201.6
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>
6119.9
5838.6
5411.1
5021.3
4786.5
4720.1
4773.2
4848.5
4848.5
4737.8
4531.8
4261.6
3949.3
3603.7
3300.3
3162.9
2961.4
2686.7
2460.8
2310.2
2199.4
2135.2
1975.7
1900.4
1809.6
1721.0
1616.9
1506.2
1395.4
1266.9
1151.8
1085.3
821.7
653.4
498.4
287.9
0.0

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