

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: P949573

Luminaire Tested: **GALN-SB4B-740-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949573
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4B-740-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24511 lumens
Efficiency: N/A
Efficacy: 166.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

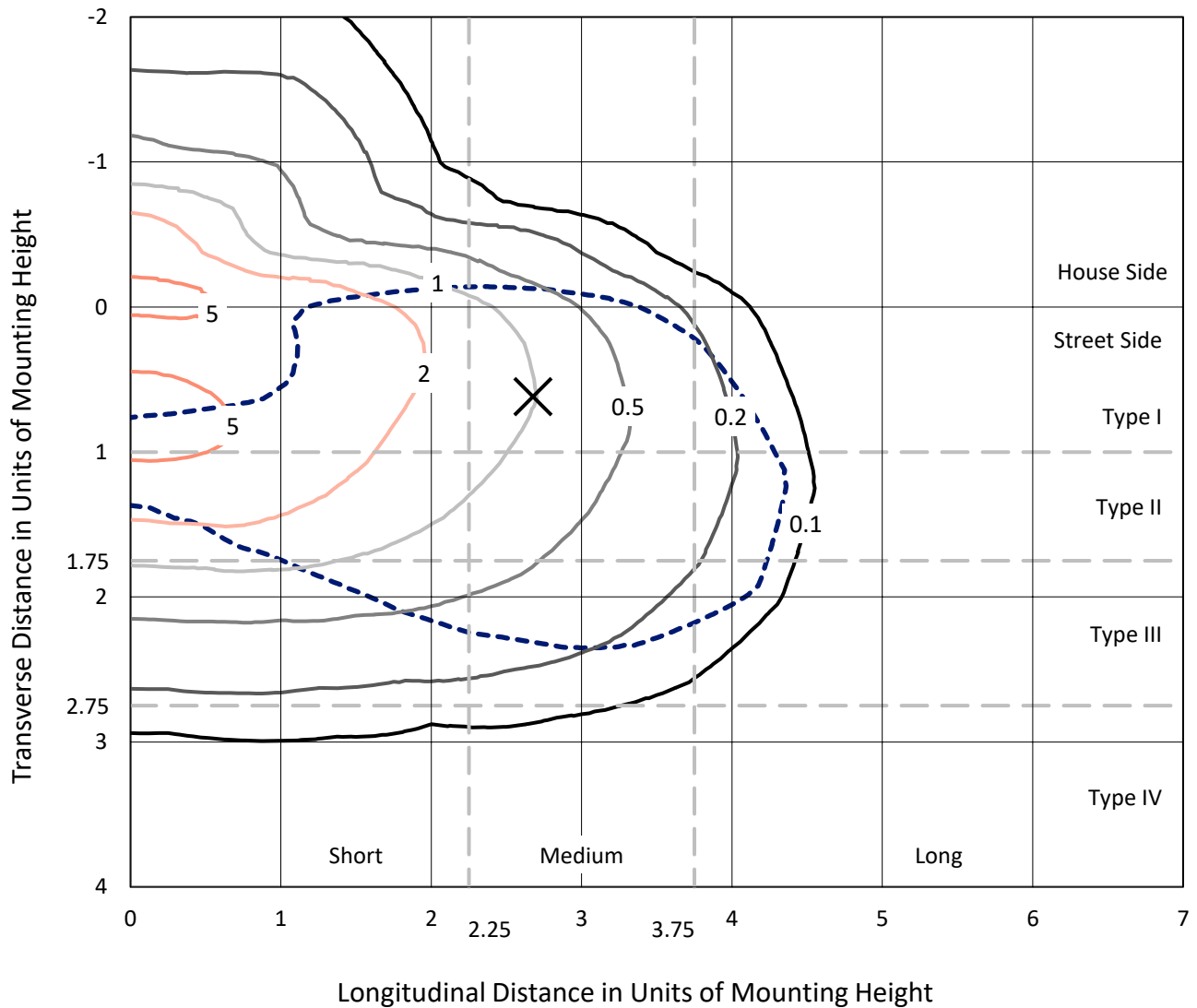
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

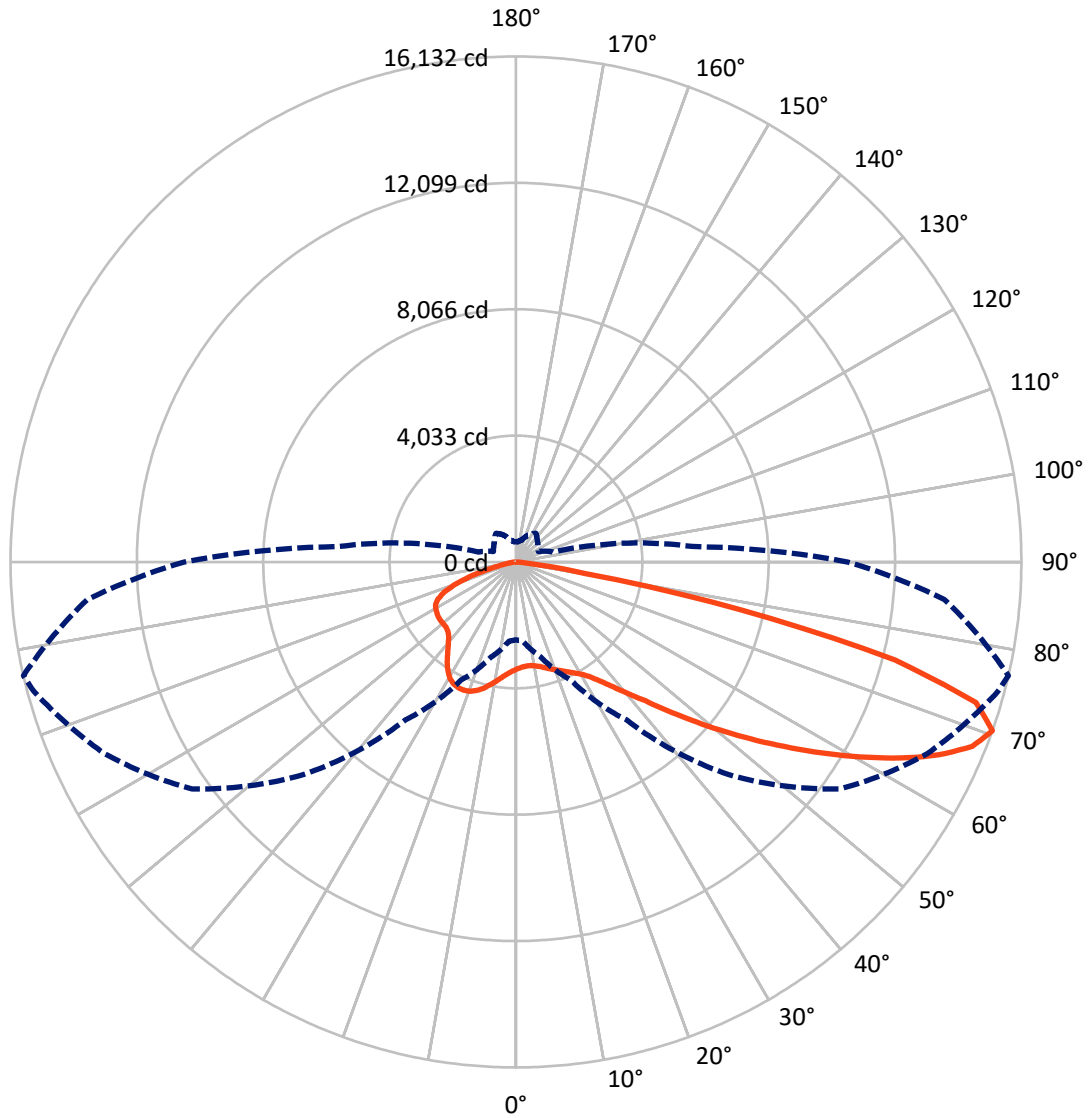
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5367.5	0.0	5367.5
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	19143.5	0.0	19143.5
	% Fixture	78.1	0.0	78.1
Total	Lumens	24511.0	0.0	24511.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.1	1.3
10°-20°	941.2	3.8
20°-30°	1609.7	6.6
30°-40°	2588.5	10.6
40°-50°	4041.3	16.5
50°-60°	5398.2	22.0
60°-70°	5753.7	23.5
70°-80°	3541.9	14.5
80°-90°	310.4	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°	24511.0	100.0
0°-180°	24511.0	100.0



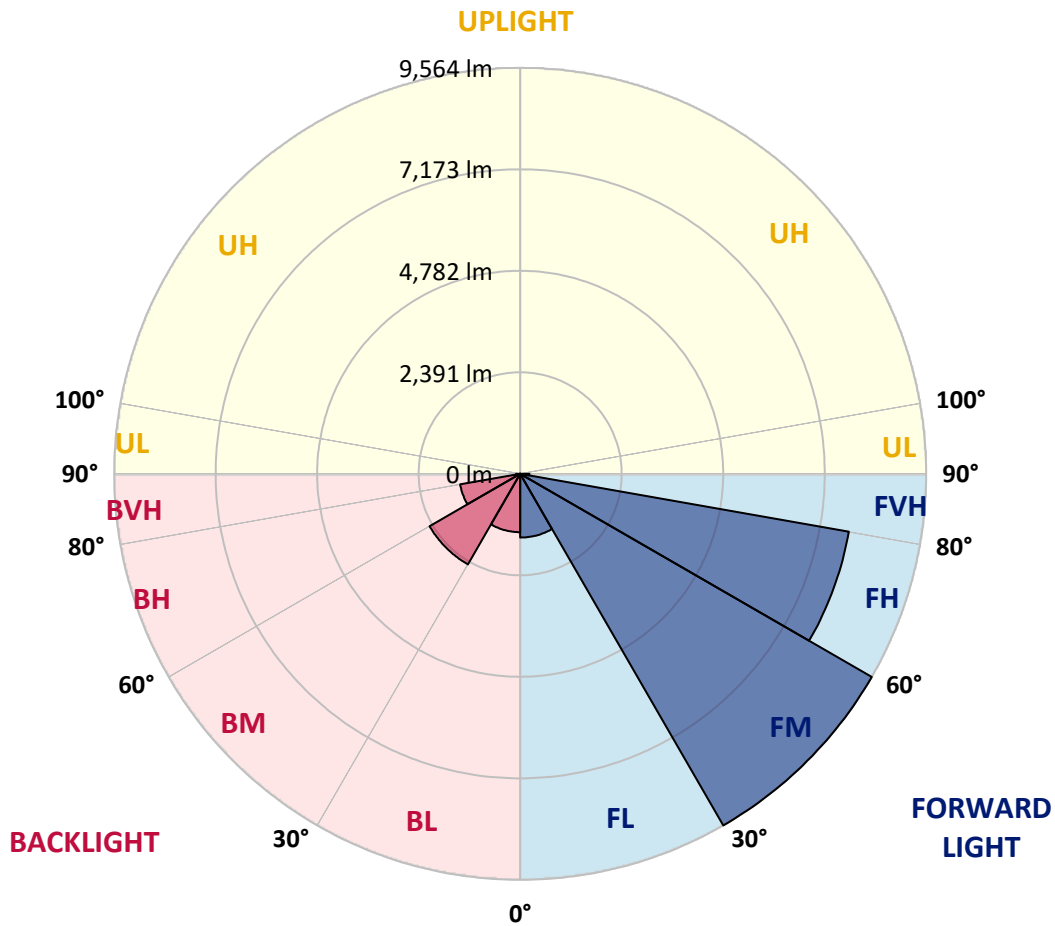
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1501.7	6.1			
FM (30°-60°)	9563.7	39.0			
FH (60°-80°)	7861.1	32.1			G4/12000
FVH (80°-90°)	217.0	0.9			G2/225
BL (0°-30°)	1375.3	5.6	B3/2500		
BM (30°-60°)	2464.4	10.1	B2/2500		
BH (60°-80°)	1434.5	5.9	B3/2500		G3/2500
BVH (80°-90°)	93.3	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3419.5	3419.5	3419.5	3419.5	3419.5	3419.5	3419.5	3419.5	3419.5	3419.5
2.5°	3152.1	3150.9	3167.2	3172.2	3202.3	3223.7	3263.8	3306.5	3361.8	3368.0
5°	2970.1	2970.1	2988.9	3009.0	3047.9	3090.6	3152.1	3226.2	3321.6	3336.7
7.5°	2815.7	2825.7	2842.1	2881.0	2926.2	2987.7	3081.8	3187.3	3312.8	3336.7
10°	2691.4	2702.7	2722.8	2754.2	2822.0	2907.3	3030.4	3165.9	3334.1	3371.8
12.5°	2652.5	2663.8	2675.1	2699.0	2761.7	2862.1	3009.0	3176.0	3385.6	3423.3
15°	2742.9	2756.7	2747.9	2741.6	2774.3	2865.9	3019.1	3212.4	3449.6	3503.6
17.5°	2951.3	2956.3	2936.2	2877.2	2872.2	2921.1	3066.8	3262.6	3530.0	3589.0
20°	3287.7	3278.9	3237.5	3120.7	3054.2	3044.2	3148.4	3337.9	3612.8	3675.6
22.5°	3744.6	3734.6	3651.7	3467.2	3319.1	3221.2	3266.4	3435.8	3705.7	3776.0
25°	4314.6	4300.7	4179.0	3927.9	3698.2	3455.9	3427.0	3565.1	3820.0	3885.2
27.5°	4979.9	4968.6	4836.8	4505.4	4174.0	3777.3	3626.6	3717.0	3939.2	4013.3
30°	5695.4	5728.1	5494.6	5138.0	4718.8	4196.6	3895.3	3904.1	4093.6	4160.2
32.5°	6536.5	6593.0	6311.8	5859.9	5287.4	4652.2	4234.2	4165.2	4318.3	4373.6
35°	7370.0	7434.0	7200.6	6700.9	6041.9	5189.5	4588.2	4465.2	4617.1	4677.3
37.5°	8090.6	8175.9	8055.4	7621.1	6849.1	5837.3	5050.2	4817.9	4984.9	5060.2
40°	8659.2	8789.8	8781.0	8509.9	7800.6	6623.1	5636.4	5253.5	5441.8	5523.4
42.5°	9121.2	9234.2	9332.1	9318.3	8793.6	7515.6	6325.6	5819.7	5962.8	6056.9
45°	9440.1	9560.6	9771.5	9998.7	9748.9	8470.9	7115.2	6491.3	6621.8	6763.7
47.5°	9725.0	9861.8	10135.5	10495.8	10559.8	9430.0	7980.1	7273.4	7392.6	7539.5
50°	9750.1	9868.1	10292.4	10803.3	11136.0	10351.4	8909.0	8150.8	8262.6	8419.5
52.5°	9143.8	9329.6	10070.2	10794.5	11400.9	11122.2	9831.7	9063.5	9189.0	9377.3
55°	7097.6	7370.0	9418.7	10458.1	11306.7	11620.6	10709.2	10033.8	10194.5	10391.6
57.5°	6113.4	6232.7	7476.7	9845.5	10877.4	11749.9	11449.8	11014.2	11272.8	11488.7
60°	5494.6	5593.7	6329.4	8892.7	10312.5	11545.2	12022.3	11928.1	12375.0	12632.3
62.5°	4831.7	4925.9	5595.0	7425.3	9589.4	11205.0	12383.8	12771.7	13504.8	13786.0
65°	4174.0	4254.3	4895.8	6239.0	8670.5	10864.8	12570.8	13501.0	14550.5	14841.7
67.5°	3440.8	3507.4	4113.7	5263.6	7553.3	10399.1	12663.7	14074.7	15460.6	15710.4
70°	2483.0	2534.5	3160.9	4162.7	6151.1	9598.2	12626.1	14481.4	15932.6	16132.2
72.5°	1173.7	1220.2	1955.8	2702.7	4344.7	8039.1	11864.1	14158.8	15453.1	15353.9
75°	626.4	666.6	1123.5	1482.5	2294.7	5510.9	9708.7	12196.7	12976.3	12494.3
77.5°	424.3	455.7	695.5	890.0	1048.2	2616.1	6240.2	8444.6	8124.5	7328.6
80°	336.4	369.1	569.9	602.6	507.2	945.3	2578.4	3909.1	2808.2	2245.8
82.5°	258.6	295.0	479.5	436.9	276.2	387.9	750.7	1236.5	719.3	547.3
85°	158.2	197.1	376.6	278.7	155.7	177.0	254.8	344.0	219.7	183.3
87.5°	80.3	113.0	190.8	101.7	70.3	41.4	67.8	67.8	57.7	50.2
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°
3419.5	0°	3419.5	3419.5	3419.5	3419.5	3419.5	3419.5	3419.5	3419.5	3419.5	3419.5
3401.9	2.5°	3432.1	3457.2	3499.8	3540.0	3571.4	3601.5	3631.7	3648.0	3653.0	3673.1
3420.8	5°	3472.2	3518.7	3601.5	3679.4	3728.3	3758.4	3779.8	3792.3	3794.9	3801.1
3472.2	7.5°	3546.3	3620.4	3735.9	3813.7	3850.1	3847.6	3838.8	3807.4	3794.9	3783.6
3547.6	10°	3650.5	3748.4	3890.3	3944.2	3921.6	3861.4	3783.6	3691.9	3649.2	3607.8
3650.5	12.5°	3779.8	3904.1	4043.4	4040.9	3929.2	3774.8	3594.0	3453.4	3364.3	3300.3
3777.3	15°	3936.7	4079.8	4186.5	4101.2	3856.4	3578.9	3314.1	3130.8	3050.4	2980.1
3905.3	17.5°	4098.6	4251.8	4300.7	4082.3	3673.1	3289.0	2988.9	2844.6	2765.5	2727.8
4043.4	20°	4256.8	4408.7	4368.5	3974.4	3394.4	2960.1	2692.7	2613.6	2597.3	2606.1
4177.7	22.5°	4423.8	4559.3	4382.3	3766.0	3039.1	2623.6	2476.8	2479.3	2515.7	2542.0
4318.3	25°	4594.5	4686.1	4345.9	3464.7	2657.5	2376.3	2339.9	2380.1	2451.7	2503.1
4476.5	27.5°	4758.9	4799.1	4266.9	3091.9	2329.9	2199.3	2205.6	2288.5	2396.4	2468.0
4668.6	30°	4944.7	4899.5	4115.0	2672.6	2102.7	2047.4	2100.2	2196.8	2304.8	2368.8
4910.8	32.5°	5154.4	4986.2	3873.9	2284.7	1942.0	1925.7	2012.3	2075.1	2122.8	2141.6
5232.2	35°	5415.5	5107.9	3565.1	2012.3	1797.6	1836.5	1919.4	1888.0	1869.2	1859.1
5664.0	37.5°	5754.4	5272.4	3203.6	1835.3	1680.9	1772.5	1806.4	1708.5	1634.4	1598.0
6187.5	40°	6162.4	5513.4	2855.9	1698.5	1606.8	1717.3	1658.3	1540.3	1446.1	1394.7
6776.2	42.5°	6615.6	5765.7	2563.4	1595.5	1565.4	1672.1	1549.1	1408.5	1256.6	1240.3
7478.0	45°	7091.3	6025.6	2363.8	1516.4	1545.3	1633.2	1486.3	1259.1	1151.1	1217.7
8182.2	47.5°	7567.1	6264.1	2243.3	1457.4	1535.3	1589.2	1431.1	1176.2	1099.7	1196.3
8936.7	50°	8096.9	6477.5	2189.3	1414.8	1524.0	1571.7	1348.2	1154.9	1045.7	1109.7
9717.5	52.5°	8622.8	6643.2	2149.1	1372.1	1507.6	1557.9	1308.0	1129.8	980.4	984.2
10503.3	55°	9147.6	6751.1	2105.2	1315.6	1471.2	1527.7	1304.3	1102.2	931.5	913.9
11334.3	57.5°	9707.4	6812.7	2051.2	1252.8	1408.5	1451.2	1300.5	1080.8	916.4	887.5
12184.2	60°	10277.4	6903.0	1980.9	1176.2	1324.4	1359.5	1291.7	1073.3	907.6	858.6
12985.1	62.5°	10788.3	6934.4	1896.8	1103.4	1216.4	1269.1	1272.9	1067.0	883.7	799.6
13650.4	65°	11123.4	6798.8	1749.9	1020.6	1099.7	1176.2	1236.5	1045.7	841.1	757.0
13979.3	67.5°	11109.6	6412.2	1520.2	913.9	986.7	1073.3	1183.8	1009.3	789.6	704.2
13730.8	70°	10592.4	5649.0	1229.0	789.6	862.4	962.8	1116.0	955.3	728.1	646.5
12209.3	72.5°	9084.8	4421.3	892.5	644.0	718.0	848.6	1028.1	890.0	665.3	595.0
9023.3	75°	6490.0	2798.1	605.1	494.6	558.6	719.3	918.9	813.5	607.6	597.5
4519.2	77.5°	3315.3	1336.9	400.4	361.5	389.2	567.4	772.0	726.8	616.4	493.3
1285.5	80°	1078.3	493.3	252.3	246.0	258.6	377.9	597.5	596.3	467.0	335.2
311.3	82.5°	344.0	212.2	164.4	158.2	151.9	237.3	416.8	472.0	315.1	212.2
111.7	85°	136.8	126.8	96.7	89.1	64.0	111.7	218.4	313.8	234.7	153.1
28.9	87.5°	50.2	50.2	26.4	18.8	13.8	37.7	59.0	94.1	134.3	79.1
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>
3419.5
3684.4
3811.2
3786.1
3595.3
3285.2
2972.6
2739.1
2602.3
2548.3
2516.9
2485.5
2383.9
2151.6
1869.2
1606.8
1398.4
1256.6
1252.8
1241.5
1157.4
1010.5
926.4
891.3
862.4
799.6
757.0
708.0
654.0
591.3
563.6
439.4
296.3
210.9
156.9
77.8
0.0

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