

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: P956585

Luminaire Tested: **GALN-SB9A-940-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956585
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
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-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30004 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

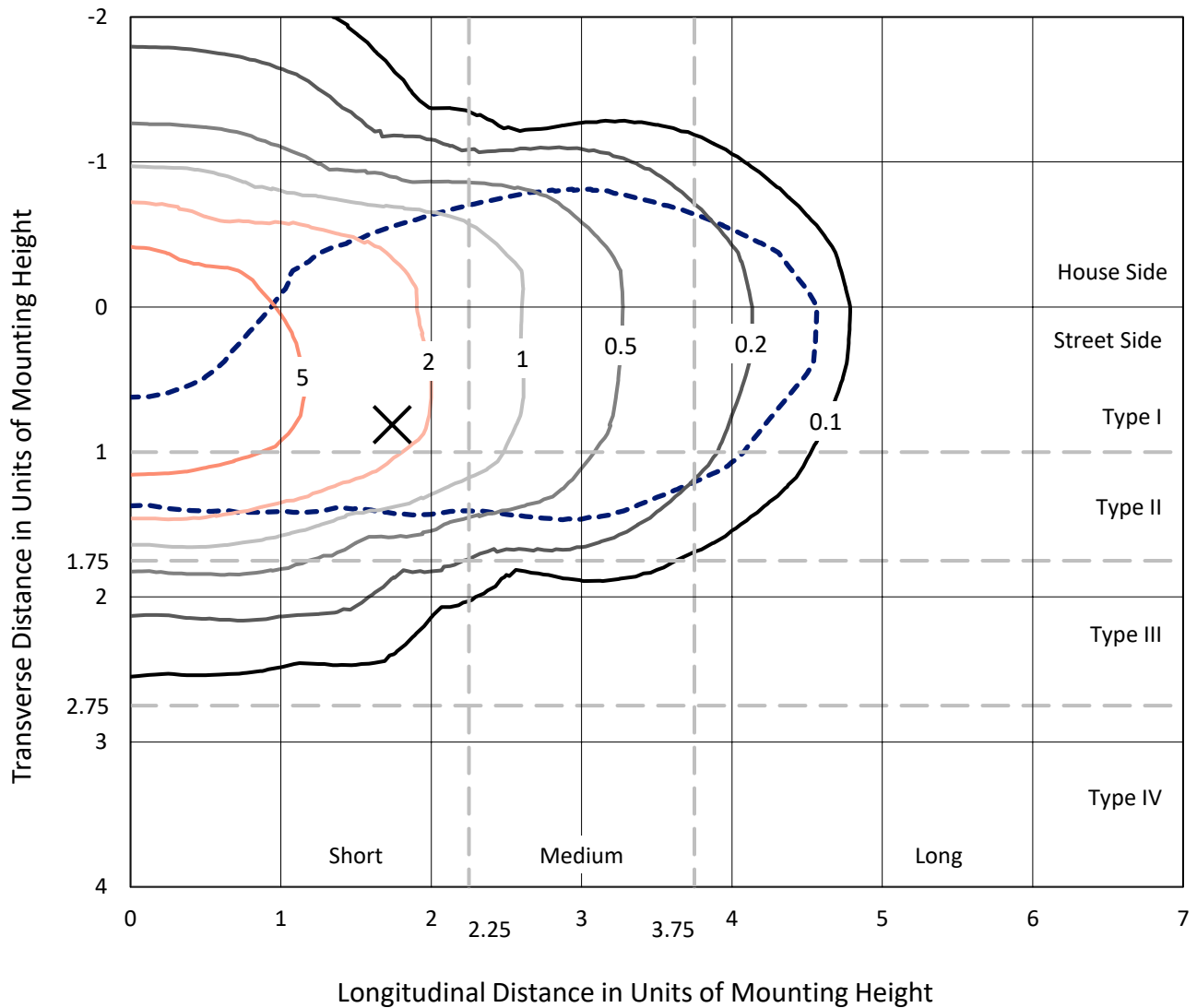
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

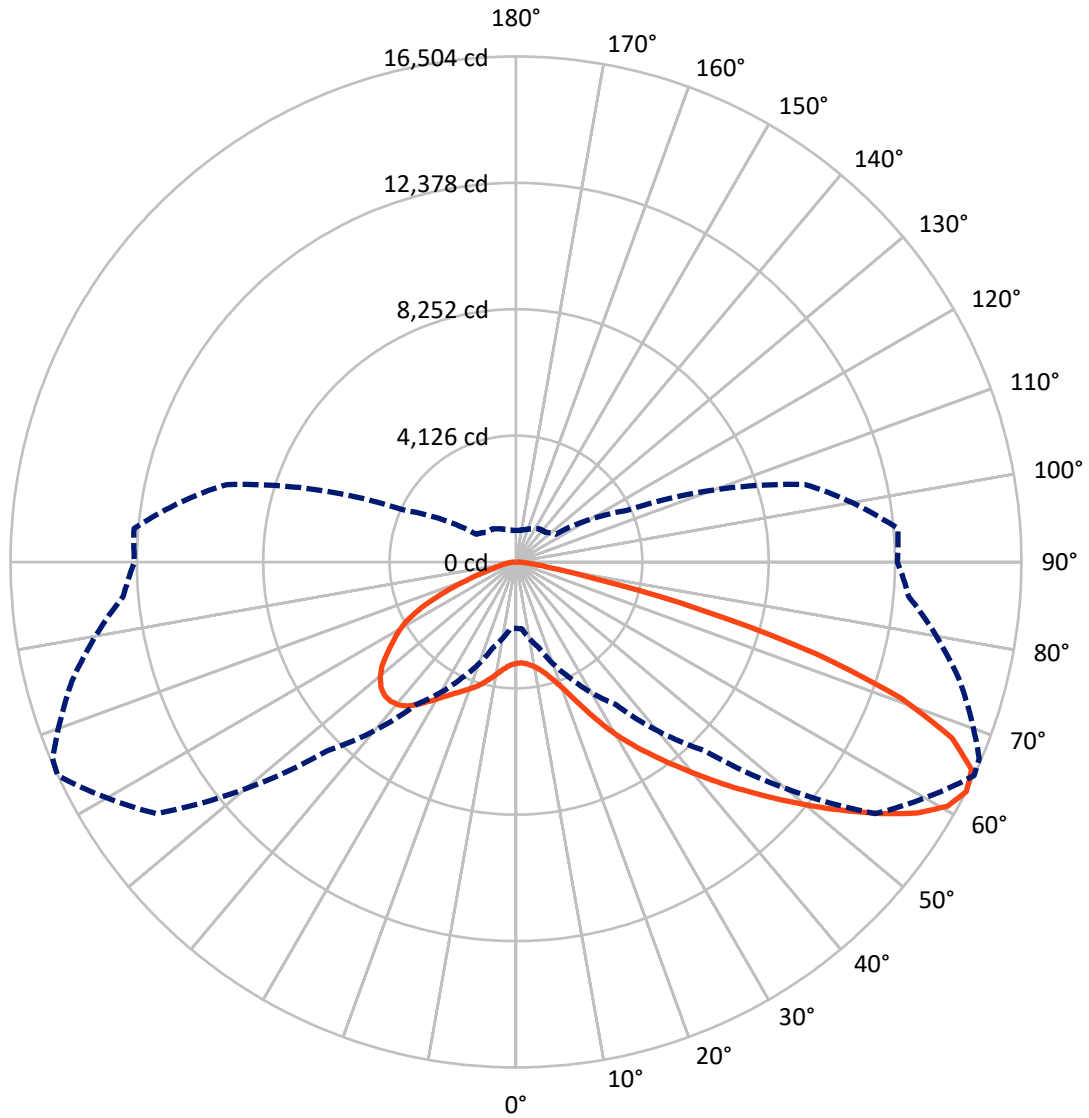
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9468.0	0.0	9468.0
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	20536.0	0.0	20536.0
	% Fixture	68.4	0.0	68.4
Total	Lumens	30004.0	0.0	30004.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.6	1.1
10°-20°	1117.8	3.7
20°-30°	2266.5	7.6
30°-40°	3922.1	13.1
40°-50°	5935.4	19.8
50°-60°	6958.9	23.2
60°-70°	5834.2	19.4
70°-80°	3221.0	10.7
80°-90°	418.4	1.4
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°	30004.0	100.0
0°-180°	30004.0	100.0

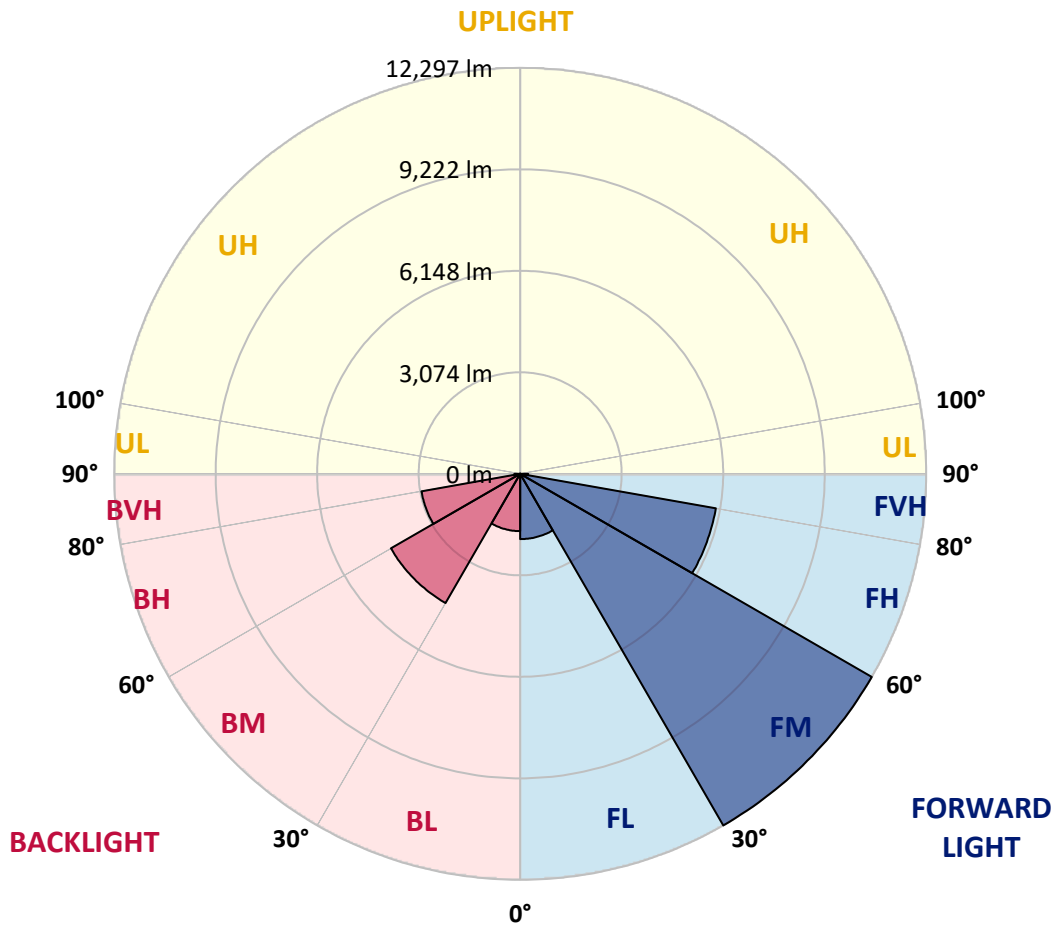


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1977.7	6.6			
FM (30°-60°)	12296.6	41.0			
FH (60°-80°)	6017.9	20.1			G3/7500
FVH (80°-90°)	243.8	0.8			G3/500
BL (0°-30°)	1736.3	5.8	B3/2500		
BM (30°-60°)	4519.9	15.1	B3/5000		
BH (60°-80°)	3037.2	10.1	B4/5000		G4/5000
BVH (80°-90°)	174.5	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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	3306.3	3306.3	3306.3	3306.3	3306.3	3306.3	3306.3	3306.3	3306.3	3306.3
2.5°	3284.5	3275.2	3283.0	3283.0	3286.1	3284.5	3295.4	3298.5	3303.2	3312.5
5°	3251.8	3250.3	3264.3	3276.7	3289.2	3300.1	3314.1	3334.3	3337.4	3348.3
7.5°	3240.9	3231.6	3253.4	3269.0	3298.5	3325.0	3362.3	3396.6	3410.6	3415.3
10°	3325.0	3309.4	3329.7	3339.0	3363.9	3390.4	3434.0	3488.4	3504.0	3522.7
12.5°	3468.2	3451.1	3480.7	3494.7	3518.0	3541.4	3570.9	3623.9	3631.6	3665.9
15°	3664.3	3644.1	3662.8	3679.9	3718.8	3740.6	3770.2	3821.6	3821.6	3848.0
17.5°	3930.5	3904.1	3918.1	3924.3	3949.2	3981.9	4031.7	4076.8	4100.2	4090.9
20°	4327.5	4294.8	4294.8	4263.6	4254.3	4280.8	4346.1	4408.4	4433.3	4385.1
22.5°	4923.7	4877.0	4850.5	4744.6	4702.6	4705.7	4771.1	4847.4	4867.6	4782.0
25°	5681.7	5608.6	5572.8	5417.1	5322.2	5239.7	5291.0	5389.1	5417.1	5311.3
27.5°	6439.8	6444.5	6410.3	6223.5	6066.2	5915.2	5888.8	5991.5	6021.1	5901.2
30°	7503.0	7392.5	7327.1	7103.0	6878.8	6667.1	6558.1	6600.2	6608.0	6464.7
32.5°	8419.9	8391.9	8251.8	8055.6	7767.7	7436.1	7254.0	7187.0	7174.6	6970.6
35°	9464.4	9448.8	9300.9	9067.4	8756.1	8295.4	7966.9	7775.4	7759.9	7473.4
37.5°	10526.0	10526.0	10381.3	10126.0	9803.7	9227.8	8728.1	8424.6	8374.7	8001.1
40°	11372.8	11321.5	11347.9	11240.5	10871.6	10259.8	9573.4	9132.8	9065.9	8617.6
42.5°	11853.8	11836.7	11995.5	12115.4	11964.4	11475.6	10504.2	9900.3	9806.9	9296.3
45°	11961.2	11942.6	12225.9	12664.9	12876.6	12675.7	11516.0	10708.2	10594.5	10006.1
47.5°	11713.7	11676.4	12092.0	12784.7	13463.4	13816.8	12611.9	11584.5	11419.5	10697.3
50°	10969.7	10933.9	11562.7	12482.7	13661.1	14592.0	13801.2	12513.9	12261.7	11438.2
52.5°	9352.3	9369.4	10354.8	11618.8	13401.1	15074.5	14825.5	13493.0	13189.4	12196.3
55°	7285.1	7322.5	8533.5	9925.2	12361.3	15001.4	15524.4	14501.7	14199.7	12909.2
57.5°	5216.3	5381.3	6516.1	7893.7	10364.1	13841.7	15677.0	15460.6	15167.9	13687.6
60°	3381.0	3410.6	4578.1	5966.6	7892.2	11780.7	15367.2	16187.5	15958.7	14481.5
62.5°	2166.8	2187.1	2898.5	4173.4	5680.2	8715.6	14324.2	16503.5	16433.5	15006.0
65°	1592.4	1576.9	1947.4	2758.4	3826.2	5375.1	12299.0	16351.0	16489.5	15334.5
67.5°	1329.4	1307.6	1489.7	1910.0	2819.1	3052.6	9100.1	15359.4	15866.9	15297.1
70°	1211.1	1192.4	1302.9	1418.1	2199.5	2043.9	4587.4	13352.9	14134.3	14872.2
72.5°	1025.8	993.1	1144.1	1259.3	1710.8	1567.5	1896.0	10256.7	11209.4	13510.1
75°	795.4	773.7	902.9	1108.3	1285.8	1223.5	1198.6	6228.1	7268.0	10448.2
77.5°	630.4	600.9	719.2	863.9	1156.6	923.1	873.3	2682.1	3712.6	6670.2
80°	474.8	448.3	546.4	683.4	888.8	695.8	565.1	1094.3	1399.4	3379.5
82.5°	337.8	314.4	381.4	501.2	597.8	624.2	347.1	613.3	689.6	1302.9
85°	216.4	202.4	255.3	314.4	379.8	401.6	211.7	320.7	351.8	537.0
87.5°	118.3	96.5	137.0	146.3	175.9	160.3	101.2	116.7	126.1	194.6
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°
3306.3	0°	3306.3	3306.3	3306.3	3306.3	3306.3	3306.3	3306.3	3306.3	3306.3	3306.3
3312.5	2.5°	3318.8	3323.4	3339.0	3343.7	3354.6	3368.6	3377.9	3387.3	3387.3	3396.6
3362.3	5°	3363.9	3374.8	3407.5	3424.6	3452.6	3480.7	3497.8	3518.0	3530.5	3536.7
3441.7	7.5°	3451.1	3468.2	3514.9	3544.5	3592.7	3631.6	3658.1	3686.1	3692.4	3709.5
3552.3	10°	3569.4	3589.6	3642.5	3698.6	3756.2	3804.4	3829.3	3849.6	3857.4	3860.5
3693.9	12.5°	3704.8	3734.4	3802.9	3871.4	3932.1	3974.1	3980.3	3975.7	3953.9	3935.2
3868.3	15°	3871.4	3897.8	3974.1	4048.8	4108.0	4115.8	4076.8	4051.9	4025.5	4020.8
4062.8	17.5°	4070.6	4084.6	4154.7	4227.8	4232.5	4206.1	4148.5	4125.1	4100.2	4083.1
4316.6	20°	4302.6	4297.9	4347.7	4378.8	4346.1	4265.2	4178.0	4139.1	4114.2	4094.0
4627.9	22.5°	4579.6	4543.8	4537.6	4529.8	4442.7	4273.0	4154.7	4104.9	4066.0	4037.9
5062.2	25°	4982.8	4845.8	4750.9	4697.9	4501.8	4231.0	4080.0	3969.4	3896.3	3848.0
5593.0	27.5°	5487.2	5256.8	5017.1	4887.9	4501.8	4145.3	3899.4	3720.4	3600.5	3550.7
6106.7	30°	5968.2	5726.9	5373.5	5116.7	4490.9	4005.2	3608.3	3359.2	3219.1	3169.3
6545.7	32.5°	6379.1	6116.1	5751.8	5367.3	4464.5	3778.0	3247.2	2971.6	2836.2	2777.1
6980.0	35°	6760.5	6480.3	6131.6	5642.8	4394.4	3444.9	2850.2	2640.1	2489.1	2394.1
7422.1	37.5°	7151.2	6818.1	6491.2	5891.9	4268.3	3055.7	2545.1	2366.1	2188.6	2061.0
7892.2	40°	7576.2	7177.7	6875.7	6039.8	4061.3	2685.2	2308.5	2145.1	1956.7	1821.3
8433.9	42.5°	8072.8	7608.9	7303.8	6116.1	3778.0	2422.1	2154.4	1994.1	1816.6	1706.1
9014.5	45°	8591.1	8083.6	7694.5	6114.5	3462.0	2299.2	2104.6	1945.8	1749.7	1634.5
9610.7	47.5°	9134.4	8580.2	8032.3	6014.9	3188.0	2316.3	2076.6	1841.5	1625.1	1513.1
10213.1	50°	9679.2	9123.5	8359.2	5828.1	3071.3	2278.9	1972.3	1695.2	1439.9	1338.7
10778.2	52.5°	10219.4	9701.0	8640.9	5561.9	2953.0	2140.4	1838.4	1505.3	1363.6	1293.6
11361.9	55°	10762.6	10272.3	8947.6	5174.3	2657.2	1978.5	1614.2	1433.7	1302.9	1239.1
11933.2	57.5°	11307.5	10932.3	9238.7	4786.7	2285.2	1779.2	1491.3	1346.5	1242.2	1187.7
12411.1	60°	11874.1	11687.3	9539.1	4430.2	1917.8	1524.0	1401.0	1276.4	1170.6	1109.9
12870.3	62.5°	12457.8	12518.5	9774.2	3971.0	1580.0	1368.3	1320.0	1192.4	1089.7	1032.1
13250.1	65°	13046.2	13320.2	9928.3	3334.3	1281.1	1220.4	1232.9	1100.5	996.3	946.4
13528.8	67.5°	13489.9	13897.7	9884.7	2523.3	1050.7	1080.3	1123.9	1004.0	906.0	867.1
13483.6	70°	13539.7	13829.2	9455.1	1727.9	879.5	943.3	1002.5	909.1	807.9	779.9
12848.5	72.5°	12876.6	12895.2	8258.0	1128.6	744.1	828.1	874.8	812.6	714.5	686.5
11240.5	75°	11137.8	10664.6	6063.1	744.1	622.7	711.4	755.0	711.4	616.4	622.7
8410.5	77.5°	8438.6	7552.8	3681.5	529.3	519.9	597.8	656.9	625.8	544.8	611.8
4229.4	80°	4347.7	4086.2	1642.3	395.4	411.0	477.9	540.2	499.7	431.2	411.0
944.9	82.5°	996.3	1158.1	647.6	283.3	297.3	344.0	412.5	375.2	309.8	261.5
393.8	85°	348.7	381.4	286.4	177.5	174.3	214.8	280.2	250.6	210.1	168.1
166.6	87.5°	110.5	144.8	107.4	71.6	74.7	96.5	129.2	118.3	98.1	63.8
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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180°
3306.3
3396.6
3539.8
3703.3
3852.7
3935.2
4020.8
4084.6
4095.5
4047.3
3866.7
3575.6
3198.9
2806.6
2425.3
2095.2
1847.7
1727.9
1653.2
1528.6
1344.9
1293.6
1232.9
1178.4
1105.2
1030.5
944.9
868.6
781.4
684.9
600.9
538.6
375.2
258.4
177.5
66.9
0.0

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