

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: P955535

Luminaire Tested: **GALN-SB8B-950-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955535  
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-SB8B-950-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

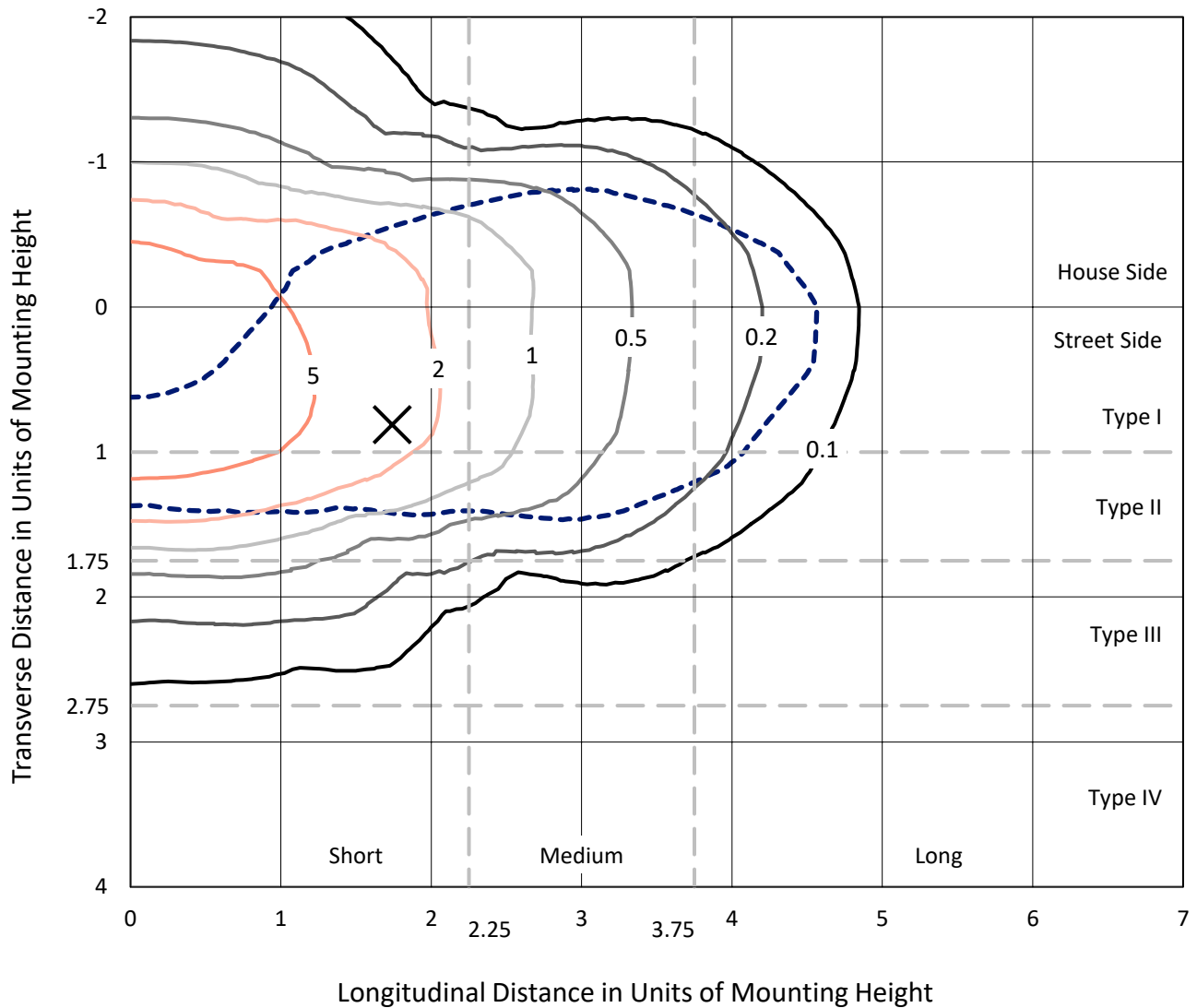
Lumens per Lamp: N/A  
Luminaire Lumens: 32100 lumens  
Efficiency: N/A  
Efficacy: 109.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 292.8  
Input Voltage (V): NR  
Input Current (Ain): 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

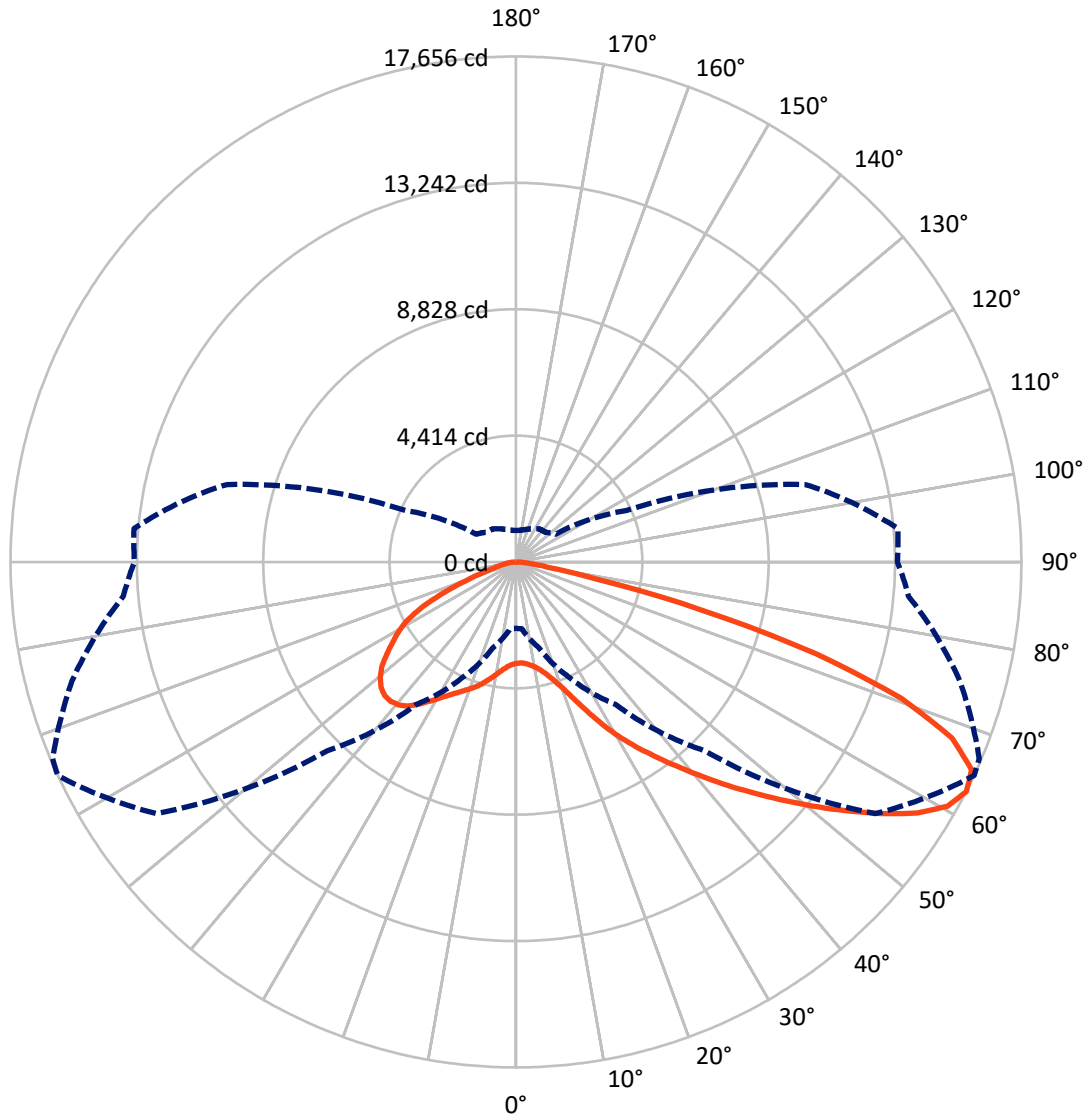
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 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
<b>House Side</b>	Lumens	10129.4	0.0	10129.4
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	21970.6	0.0	21970.6
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	32100.0	0.0	32100.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	352.7	1.1
10°-20°	1195.9	3.7
20°-30°	2424.8	7.6
30°-40°	4196.1	13.1
40°-50°	6350.1	19.8
50°-60°	7445.0	23.2
60°-70°	6241.8	19.4
70°-80°	3446.0	10.7
80°-90°	447.6	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°	32100.0	100.0
0°-180°	32100.0	100.0

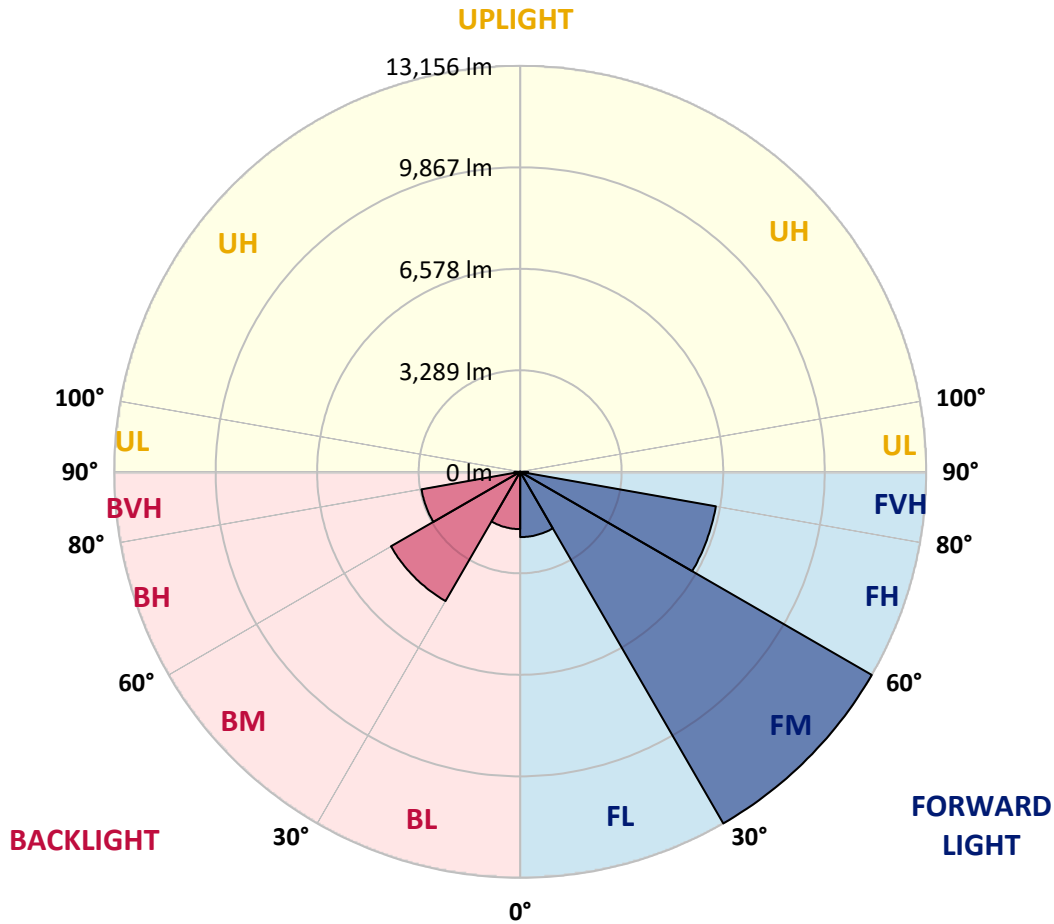


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2115.8	6.6			
FM (30°-60°)	13155.6	41.0			
FH (60°-80°)	6438.3	20.1			G3/7500
FVH (80°-90°)	260.9	0.8			G3/500
BL (0°-30°)	1857.6	5.8	B3/2500		
BM (30°-60°)	4835.6	15.1	B3/5000		
BH (60°-80°)	3249.4	10.1	B4/5000		G4/5000
BVH (80°-90°)	186.7	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°	3537.3	3537.3	3537.3	3537.3	3537.3	3537.3	3537.3	3537.3	3537.3	3537.3
2.5°	3514.0	3504.0	3512.3	3512.3	3515.6	3514.0	3525.6	3529.0	3534.0	3543.9
5°	3479.0	3477.3	3492.3	3505.6	3519.0	3530.6	3545.6	3567.3	3570.6	3582.2
7.5°	3467.3	3457.3	3480.7	3497.3	3529.0	3557.3	3597.2	3633.9	3648.9	3653.9
10°	3557.3	3540.6	3562.3	3572.3	3598.9	3627.2	3673.8	3732.1	3748.8	3768.8
12.5°	3710.5	3692.2	3723.8	3738.8	3763.8	3788.8	3820.4	3877.0	3885.3	3922.0
15°	3920.3	3898.7	3918.7	3937.0	3978.6	4001.9	4033.6	4088.5	4088.5	4116.8
17.5°	4205.1	4176.8	4191.8	4198.4	4225.1	4260.1	4313.4	4361.6	4386.6	4376.6
20°	4629.8	4594.8	4594.8	4561.5	4551.5	4579.8	4649.8	4716.4	4743.0	4691.4
22.5°	5267.6	5217.7	5189.3	5076.1	5031.1	5034.5	5104.4	5186.0	5207.7	5116.1
25°	6078.7	6000.4	5962.1	5795.5	5694.0	5605.7	5660.6	5765.6	5795.5	5682.3
27.5°	6889.7	6894.7	6858.1	6658.2	6490.0	6328.5	6300.2	6410.1	6441.7	6313.5
30°	8027.2	7908.9	7839.0	7599.2	7359.3	7132.9	7016.3	7061.2	7069.6	6916.3
32.5°	9008.1	8978.1	8828.2	8618.4	8310.3	7955.6	7760.7	7689.1	7675.8	7457.6
35°	10125.5	10108.9	9950.7	9700.9	9367.8	8874.8	8523.4	8318.6	8302.0	7995.5
37.5°	11261.3	11261.3	11106.5	10833.3	10488.6	9872.4	9337.8	9013.1	8959.8	8560.1
40°	12167.3	12112.4	12140.7	12025.8	11631.1	10976.6	10242.1	9770.8	9699.2	9219.6
42.5°	12681.9	12663.6	12833.5	12961.7	12800.2	12277.2	11238.0	10591.9	10491.9	9945.7
45°	12796.8	12776.8	13079.9	13549.6	13776.1	13561.2	12320.5	11456.2	11334.6	10705.1
47.5°	12532.0	12492.1	12936.7	13677.8	14403.9	14782.0	13493.0	12393.8	12217.3	11444.5
50°	11736.0	11697.7	12370.5	13354.7	14615.4	15611.3	14765.3	13388.0	13118.2	12237.3
52.5°	10005.6	10024.0	11078.2	12430.4	14337.3	16127.6	15861.1	14435.6	14110.8	13048.3
55°	7794.0	7834.0	9129.6	10618.5	13224.8	16049.3	16608.9	15514.7	15191.7	13811.0
57.5°	5580.7	5757.2	6971.3	8445.2	11088.1	14808.6	16772.1	16540.6	16227.5	14643.7
60°	3617.2	3648.9	4897.9	6383.4	8443.5	12603.6	16440.7	17318.4	17073.5	15493.1
62.5°	2318.2	2339.9	3100.9	4464.9	6077.0	9324.5	15324.9	17656.4	17581.5	16054.3
65°	1703.7	1687.0	2083.4	2951.1	4093.5	5750.6	13158.2	17493.2	17641.4	16405.7
67.5°	1422.2	1398.9	1593.8	2043.4	3016.0	3265.8	9735.8	16432.4	16975.3	16365.8
70°	1295.7	1275.7	1393.9	1517.2	2353.2	2186.7	4907.9	14285.7	15121.7	15911.1
72.5°	1097.5	1062.5	1224.1	1347.3	1830.3	1677.0	2028.4	10973.2	11992.4	14453.9
75°	851.0	827.7	965.9	1185.8	1375.6	1309.0	1282.3	6663.2	7775.7	11178.1
77.5°	674.5	642.8	769.4	924.3	1237.4	987.6	934.3	2869.5	3971.9	7136.2
80°	507.9	479.6	584.6	731.1	950.9	744.4	604.5	1170.8	1497.2	3615.6
82.5°	361.4	336.4	408.0	536.3	639.5	667.8	371.4	656.2	737.8	1393.9
85°	231.5	216.5	273.1	336.4	406.4	429.7	226.5	343.1	376.4	574.6
87.5°	126.6	103.3	146.6	156.5	188.2	171.5	108.3	124.9	134.9	208.2
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°
3537.3	0°	3537.3	3537.3	3537.3	3537.3	3537.3	3537.3	3537.3	3537.3	3537.3	3537.3
3543.9	2.5°	3550.6	3555.6	3572.3	3577.3	3588.9	3603.9	3613.9	3623.9	3623.9	3633.9
3597.2	5°	3598.9	3610.6	3645.5	3663.9	3693.8	3723.8	3742.1	3763.8	3777.1	3783.8
3682.2	7.5°	3692.2	3710.5	3760.4	3792.1	3843.7	3885.3	3913.7	3943.6	3950.3	3968.6
3800.4	10°	3818.7	3840.4	3897.0	3957.0	4018.6	4070.2	4096.9	4118.5	4126.8	4130.2
3952.0	12.5°	3963.6	3995.3	4068.5	4141.8	4206.8	4251.7	4258.4	4253.4	4230.1	4210.1
4138.5	15°	4141.8	4170.1	4251.7	4331.7	4395.0	4403.3	4361.6	4335.0	4306.7	4301.7
4346.7	17.5°	4355.0	4370.0	4444.9	4523.2	4528.2	4499.9	4438.3	4413.3	4386.6	4368.3
4618.1	20°	4603.1	4598.1	4651.4	4684.7	4649.8	4563.2	4469.9	4428.3	4401.6	4380.0
4951.2	22.5°	4899.6	4861.3	4854.6	4846.3	4753.0	4571.5	4444.9	4391.6	4350.0	4320.0
5415.8	25°	5330.9	5184.3	5082.8	5026.1	4816.3	4526.5	4365.0	4246.7	4168.5	4116.8
5983.7	27.5°	5870.5	5624.0	5367.5	5229.3	4816.3	4434.9	4171.8	3980.3	3852.0	3798.7
6533.3	30°	6385.1	6127.0	5748.9	5474.1	4804.6	4285.0	3860.4	3593.9	3444.0	3390.7
7002.9	32.5°	6824.8	6543.3	6153.6	5742.3	4776.3	4041.9	3474.0	3179.2	3034.3	2971.0
7467.6	35°	7232.8	6933.0	6560.0	6037.0	4701.4	3685.5	3049.3	2824.5	2663.0	2561.4
7940.6	37.5°	7650.8	7294.4	6944.7	6303.5	4566.5	3269.2	2722.9	2531.4	2341.5	2205.0
8443.5	40°	8105.4	7679.1	7356.0	6461.7	4345.0	2872.8	2469.8	2294.9	2093.4	1948.5
9023.1	42.5°	8636.7	8140.4	7814.0	6543.3	4041.9	2591.3	2304.9	2133.4	1943.5	1825.3
9644.3	45°	9191.3	8648.4	8232.0	6541.6	3703.8	2459.8	2251.6	2081.7	1871.9	1748.7
10282.1	47.5°	9772.5	9179.6	8593.4	6435.1	3410.7	2478.1	2221.6	1970.2	1738.7	1618.8
10926.6	50°	10355.4	9760.8	8943.1	6235.2	3285.8	2438.1	2110.0	1813.6	1540.5	1432.2
11531.1	52.5°	10933.3	10378.7	9244.6	5950.4	3159.2	2289.9	1966.8	1610.4	1458.9	1383.9
12155.7	55°	11514.5	10989.9	9572.6	5535.7	2842.8	2116.7	1727.0	1533.8	1393.9	1325.6
12766.9	57.5°	12097.4	11696.0	9884.1	5121.1	2444.8	1903.5	1595.4	1440.6	1329.0	1270.7
13278.1	60°	12703.6	12503.7	10205.5	4739.7	2051.8	1630.4	1498.8	1365.6	1252.4	1187.4
13769.4	62.5°	13328.1	13393.0	10457.0	4248.4	1690.4	1463.9	1412.2	1275.7	1165.8	1104.2
14175.8	65°	13957.6	14250.7	10621.8	3567.3	1370.6	1305.7	1319.0	1177.4	1065.8	1012.6
14473.9	67.5°	14432.2	14868.6	10575.2	2699.6	1124.1	1155.8	1202.4	1074.2	969.3	927.6
14425.6	70°	14485.5	14795.3	10115.6	1848.6	940.9	1009.2	1072.5	972.6	864.3	834.4
13746.1	72.5°	13776.1	13796.1	8834.9	1207.4	796.1	886.0	935.9	869.3	764.4	734.4
12025.8	75°	11915.8	11409.6	6486.7	796.1	666.2	761.1	807.7	761.1	659.5	666.2
8998.1	77.5°	9028.1	8080.5	3938.6	566.2	556.2	639.5	702.8	669.5	582.9	654.5
4524.9	80°	4651.4	4371.6	1757.0	423.0	439.7	511.3	577.9	534.6	461.3	439.7
1010.9	82.5°	1065.8	1239.0	692.8	303.1	318.1	368.1	441.3	401.4	331.4	279.8
421.3	85°	373.0	408.0	306.4	189.9	186.5	229.8	299.8	268.1	224.8	179.9
178.2	87.5°	118.2	154.9	114.9	76.6	79.9	103.3	138.2	126.6	104.9	68.3
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°
3537.3
3633.9
3787.1
3962.0
4121.8
4210.1
4301.7
4370.0
4381.6
4330.0
4136.8
3825.4
3422.4
3002.7
2594.7
2241.6
1976.8
1848.6
1768.6
1635.4
1438.9
1383.9
1319.0
1260.7
1182.4
1102.5
1010.9
929.3
836.0
732.8
642.8
576.2
401.4
276.5
189.9
71.6
0.0

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