

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: P950054

Luminaire Tested: **GALN-SB4C-840-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950054  
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-SB4C-840-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

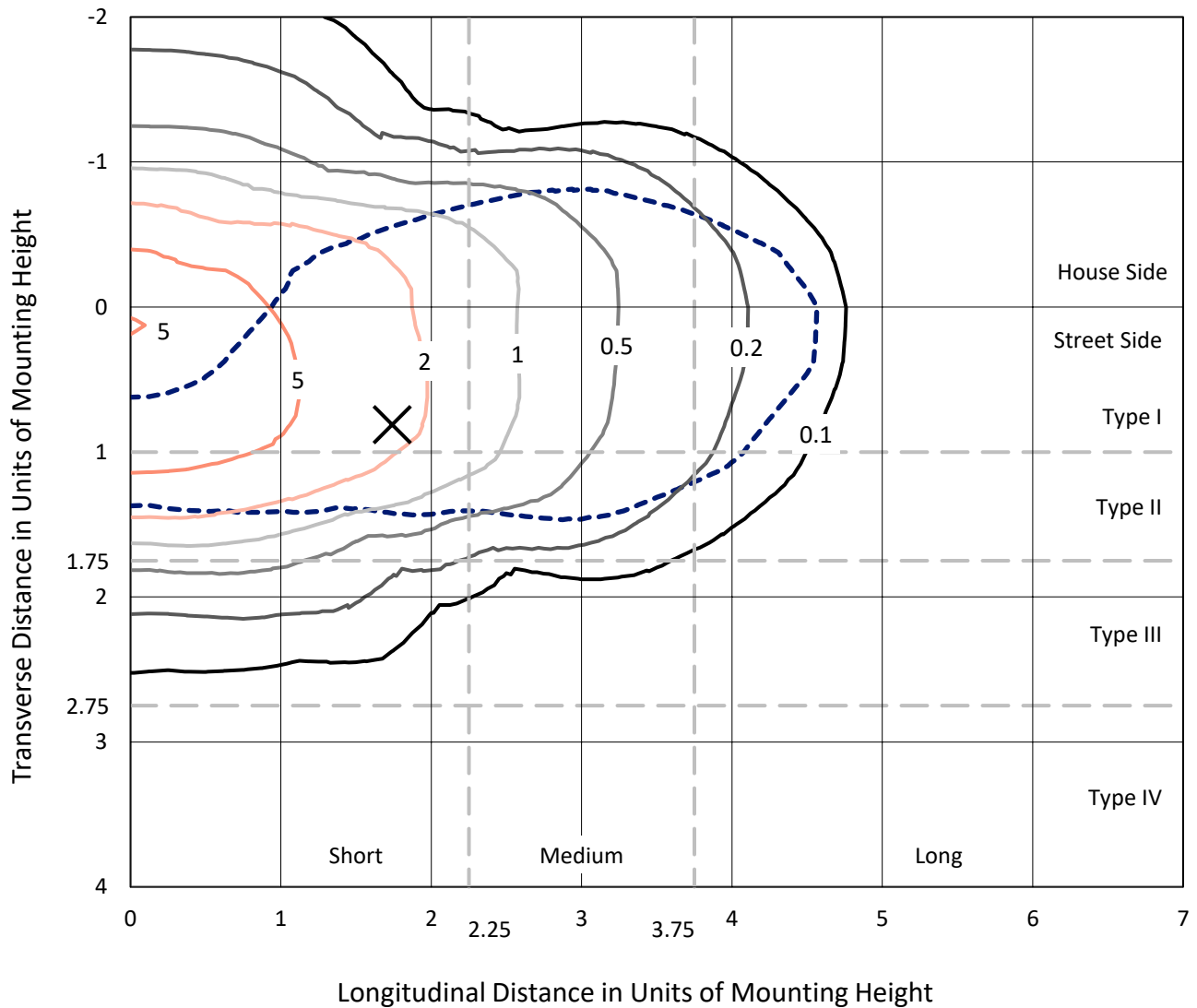
Lumens per Lamp: N/A  
Luminaire Lumens: 29094 lumens  
Efficiency: N/A  
Efficacy: 145.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

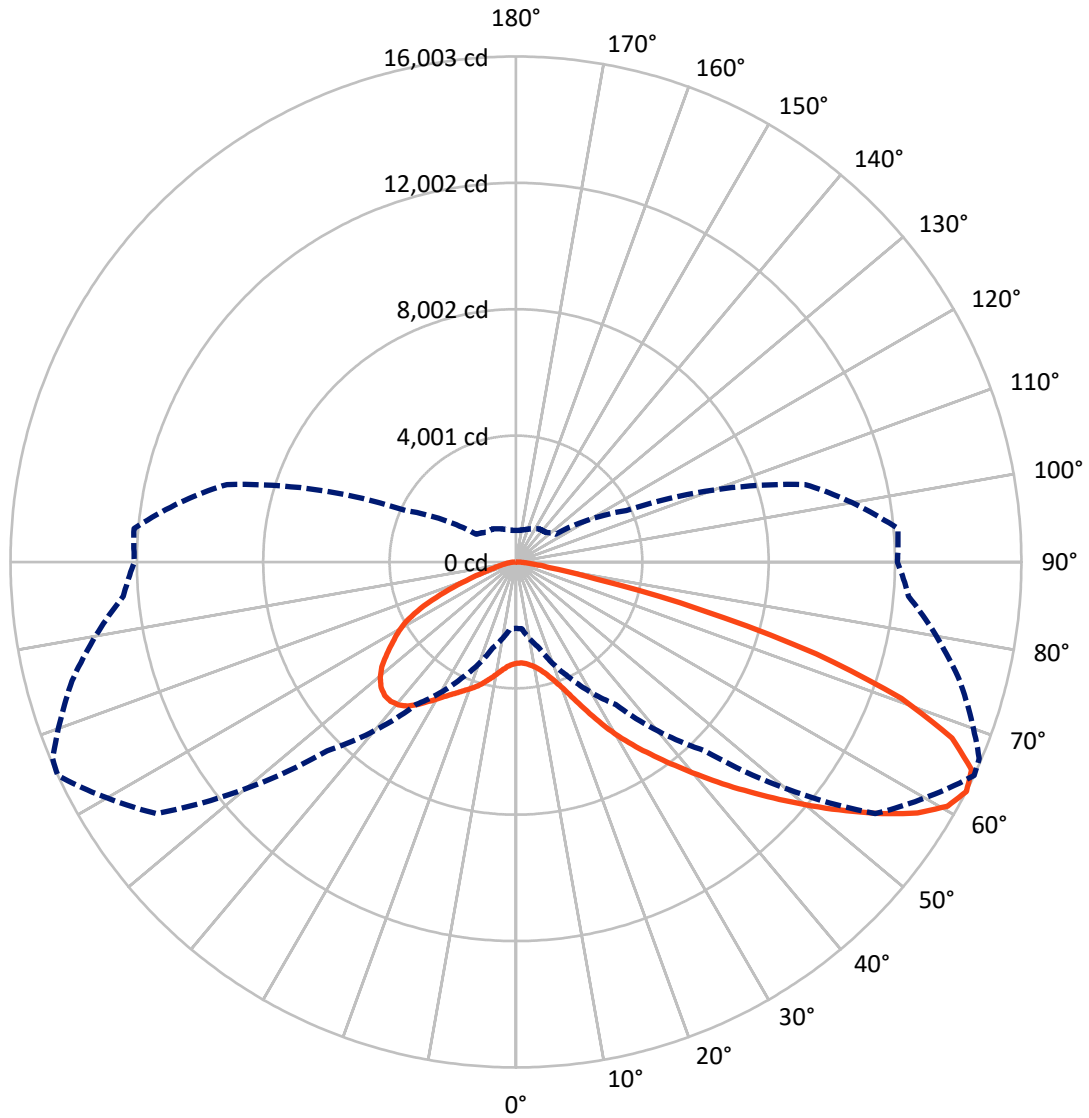
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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	9180.8	0.0	9180.8
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	19913.2	0.0	19913.2
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	29094.0	0.0	29094.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	319.6	1.1
10°-20°	1083.9	3.7
20°-30°	2197.8	7.6
30°-40°	3803.2	13.1
40°-50°	5755.4	19.8
50°-60°	6747.8	23.2
60°-70°	5657.3	19.4
70°-80°	3123.3	10.7
80°-90°	405.7	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°	29094.0	100.0
0°-180°	29094.0	100.0



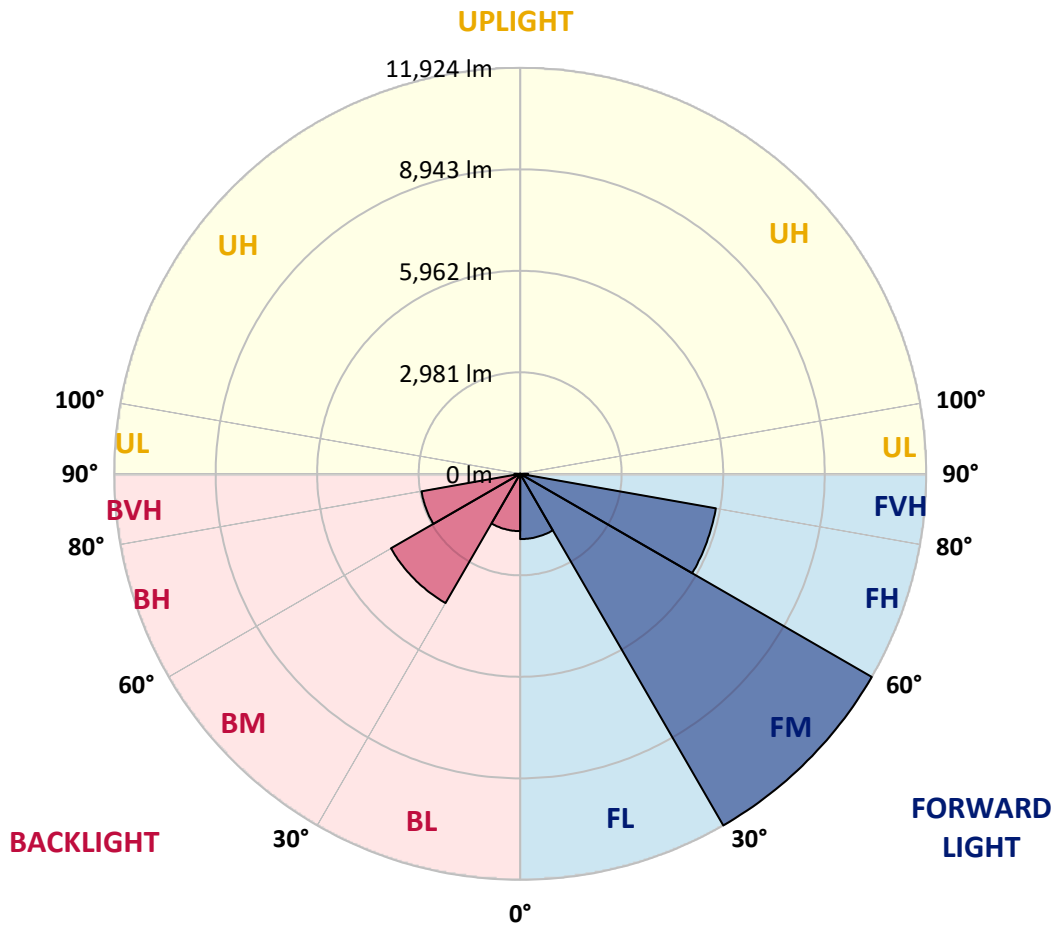
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1917.7	6.6			
FM (30°-60°)	11923.7	41.0			
FH (60°-80°)	5835.4	20.1			G3/7500
FVH (80°-90°)	236.4	0.8			G3/500
BL (0°-30°)	1683.6	5.8	B3/2500		
BM (30°-60°)	4382.8	15.1	B3/5000		
BH (60°-80°)	2945.1	10.1	B4/5000		G4/5000
BVH (80°-90°)	169.2	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°	3206.0	3206.0	3206.0	3206.0	3206.0	3206.0	3206.0	3206.0	3206.0	3206.0
2.5°	3184.9	3175.8	3183.4	3183.4	3186.4	3184.9	3195.5	3198.5	3203.0	3212.1
5°	3153.2	3151.7	3165.3	3177.4	3189.4	3200.0	3213.6	3233.2	3236.2	3246.8
7.5°	3142.6	3133.6	3154.7	3169.8	3198.5	3224.1	3260.4	3293.6	3307.2	3311.7
10°	3224.1	3209.1	3228.7	3237.7	3261.9	3287.5	3329.8	3382.6	3397.7	3415.8
12.5°	3363.0	3346.4	3375.1	3388.7	3411.3	3434.0	3462.6	3514.0	3521.5	3554.7
15°	3553.2	3533.6	3551.7	3568.3	3606.0	3627.2	3655.8	3705.7	3705.7	3731.3
17.5°	3811.3	3785.7	3799.2	3805.3	3829.4	3861.1	3909.4	3953.2	3975.8	3966.8
20°	4196.2	4164.5	4164.5	4134.3	4125.3	4150.9	4214.3	4274.7	4298.9	4252.1
22.5°	4774.3	4729.0	4703.4	4600.7	4560.0	4563.0	4626.4	4700.4	4720.0	4637.0
25°	5509.4	5438.5	5403.8	5252.8	5160.7	5080.7	5130.6	5225.7	5252.8	5150.2
27.5°	6244.5	6249.0	6215.8	6034.7	5882.3	5735.8	5710.2	5809.8	5838.5	5722.3
30°	7275.5	7168.3	7104.9	6887.5	6670.2	6464.9	6359.2	6400.0	6407.5	6268.7
32.5°	8164.5	8137.3	8001.5	7811.3	7532.1	7210.6	7034.0	6969.0	6957.0	6759.2
35°	9177.3	9162.2	9018.9	8792.4	8490.6	8043.8	7725.3	7539.6	7524.5	7246.8
37.5°	10206.8	10206.8	10066.4	9818.9	9506.4	8947.9	8463.4	8169.0	8120.7	7758.5
40°	11027.9	10978.1	11003.8	10899.6	10541.9	9948.7	9283.0	8855.8	8790.9	8356.2
42.5°	11494.3	11477.7	11631.7	11747.9	11601.5	11127.5	10185.6	9600.0	9509.4	9014.3
45°	11598.5	11580.4	11855.1	12280.7	12486.0	12291.3	11166.8	10383.4	10273.2	9702.6
47.5°	11358.5	11322.2	11725.3	12397.0	13055.1	13397.7	12229.4	11233.2	11073.2	10372.8
50°	10637.0	10602.2	11212.1	12104.1	13246.8	14149.4	13382.6	12134.3	11889.8	11091.3
52.5°	9068.7	9085.3	10040.7	11266.4	12994.7	14617.3	14375.8	13083.8	12789.4	11826.4
55°	7064.1	7100.4	8274.7	9624.1	11986.4	14546.4	15053.6	14061.9	13769.0	12517.7
57.5°	5058.1	5218.1	6318.5	7654.3	10049.8	13421.9	15201.5	14991.7	14707.9	13272.4
60°	3278.5	3307.2	4439.2	5785.7	7652.8	11423.4	14901.1	15696.6	15474.7	14042.2
62.5°	2101.1	2120.8	2810.6	4046.8	5507.9	8451.3	13889.8	16003.0	15935.1	14550.9
65°	1544.1	1529.1	1888.3	2674.7	3710.2	5212.1	11926.0	15855.1	15989.4	14869.4
67.5°	1289.1	1267.9	1444.5	1852.1	2733.6	2960.0	8824.1	14893.6	15385.6	14833.2
70°	1174.3	1156.2	1263.4	1375.1	2132.8	1981.9	4448.3	12947.9	13705.6	14421.1
72.5°	994.7	963.0	1109.4	1221.1	1658.9	1520.0	1838.5	9945.6	10869.4	13100.4
75°	771.3	750.2	875.5	1074.7	1246.8	1186.4	1162.3	6039.2	7047.5	10131.3
77.5°	611.3	582.6	697.4	837.7	1121.5	895.1	846.8	2600.8	3600.0	6467.9
80°	460.4	434.7	529.8	662.6	861.9	674.7	547.9	1061.1	1357.0	3277.0
82.5°	327.5	304.9	369.8	486.0	579.6	605.3	336.6	594.7	668.7	1263.4
85°	209.8	196.2	247.5	304.9	368.3	389.4	205.3	310.9	341.1	520.8
87.5°	114.7	93.6	132.8	141.9	170.6	155.5	98.1	113.2	122.3	188.7
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°
3206.0	0°	3206.0	3206.0	3206.0	3206.0	3206.0	3206.0	3206.0	3206.0	3206.0	3206.0
3212.1	2.5°	3218.1	3222.6	3237.7	3242.3	3252.8	3266.4	3275.5	3284.5	3284.5	3293.6
3260.4	5°	3261.9	3272.4	3304.1	3320.7	3347.9	3375.1	3391.7	3411.3	3423.4	3429.4
3337.4	7.5°	3346.4	3363.0	3408.3	3437.0	3483.8	3521.5	3547.2	3574.3	3580.4	3597.0
3444.5	10°	3461.1	3480.7	3532.1	3586.4	3642.3	3689.1	3713.2	3732.8	3740.4	3743.4
3581.9	12.5°	3592.4	3621.1	3687.5	3754.0	3812.8	3853.6	3859.6	3855.1	3834.0	3815.8
3750.9	15°	3754.0	3779.6	3853.6	3926.0	3983.4	3990.9	3953.2	3929.1	3903.4	3898.9
3939.6	17.5°	3947.2	3960.7	4028.7	4099.6	4104.1	4078.5	4022.6	4000.0	3975.8	3959.2
4185.7	20°	4172.1	4167.5	4215.8	4246.0	4214.3	4135.8	4051.3	4013.6	3989.4	3969.8
4487.5	22.5°	4440.7	4406.0	4400.0	4392.4	4307.9	4143.4	4028.7	3980.4	3942.6	3915.5
4908.7	25°	4831.7	4698.9	4606.8	4555.5	4365.3	4102.6	3956.2	3849.1	3778.1	3731.3
5423.4	27.5°	5320.7	5097.4	4864.9	4739.6	4365.3	4019.6	3781.1	3607.5	3491.3	3443.0
5921.5	30°	5787.2	5553.2	5210.6	4961.5	4354.7	3883.8	3498.9	3257.4	3121.5	3073.2
6347.2	32.5°	6185.7	5930.6	5577.3	5204.5	4329.0	3663.4	3148.7	2881.5	2750.2	2692.8
6768.3	35°	6555.5	6283.8	5945.7	5471.7	4261.1	3340.4	2763.8	2560.0	2413.6	2321.5
7197.0	37.5°	6934.3	6611.3	6294.3	5713.2	4138.9	2963.0	2467.9	2294.3	2122.3	1998.5
7652.8	40°	7346.4	6960.0	6667.2	5856.6	3938.1	2603.8	2238.5	2080.0	1897.4	1766.0
8178.1	42.5°	7827.9	7378.1	7082.3	5930.6	3663.4	2348.7	2089.1	1933.6	1761.5	1654.3
8741.1	45°	8330.6	7838.5	7461.1	5929.0	3357.0	2229.4	2040.8	1886.8	1696.6	1584.9
9319.2	47.5°	8857.3	8320.0	7788.7	5832.4	3091.3	2246.0	2013.6	1785.7	1575.8	1467.2
9903.4	50°	9385.6	8846.8	8105.6	5651.3	2978.1	2209.8	1912.4	1643.8	1396.2	1298.1
10451.3	52.5°	9909.4	9406.8	8378.9	5393.2	2863.4	2075.5	1782.6	1459.6	1322.3	1254.3
11017.3	55°	10436.2	9960.7	8676.2	5017.4	2576.6	1918.5	1565.3	1390.2	1263.4	1201.5
11571.3	57.5°	10964.5	10600.7	8958.5	4641.5	2215.8	1725.3	1446.0	1305.7	1204.5	1151.7
12034.7	60°	11513.9	11332.8	9249.8	4295.8	1859.6	1477.7	1358.5	1237.7	1135.1	1076.2
12480.0	62.5°	12080.0	12138.8	9477.7	3850.6	1532.1	1326.8	1280.0	1156.2	1056.6	1000.8
12848.3	65°	12650.5	12916.2	9627.2	3233.2	1242.3	1183.4	1195.5	1067.2	966.0	917.7
13118.5	67.5°	13080.7	13476.2	9584.9	2446.8	1018.9	1047.5	1089.8	973.6	878.5	840.8
13074.7	70°	13129.0	13409.8	9168.3	1675.5	852.8	914.7	972.1	881.5	783.4	756.2
12458.8	72.5°	12486.0	12504.1	8007.5	1094.3	721.5	803.0	848.3	787.9	692.8	665.7
10899.6	75°	10800.0	10341.1	5879.2	721.5	603.8	689.8	732.1	689.8	597.7	603.8
8155.5	77.5°	8182.6	7323.8	3569.8	513.2	504.2	579.6	637.0	606.8	528.3	593.2
4101.1	80°	4215.8	3962.3	1592.5	383.4	398.5	463.4	523.8	484.5	418.1	398.5
916.2	82.5°	966.0	1123.0	627.9	274.7	288.3	333.6	400.0	363.8	300.4	253.6
381.9	85°	338.1	369.8	277.7	172.1	169.1	208.3	271.7	243.0	203.8	163.0
161.5	87.5°	107.2	140.4	104.2	69.4	72.5	93.6	125.3	114.7	95.1	61.9
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°
3206.0
3293.6
3432.4
3590.9
3735.8
3815.8
3898.9
3960.7
3971.3
3924.5
3749.4
3467.2
3101.9
2721.5
2351.7
2031.7
1791.7
1675.5
1603.0
1482.3
1304.1
1254.3
1195.5
1142.6
1071.7
999.2
916.2
842.3
757.7
664.1
582.6
522.3
363.8
250.6
172.1
64.9
0.0

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