

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: P943885

Luminaire Tested: **GALN-SB8C-827-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943885
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-827-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52177 lumens
Efficiency: N/A
Efficacy: 130.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

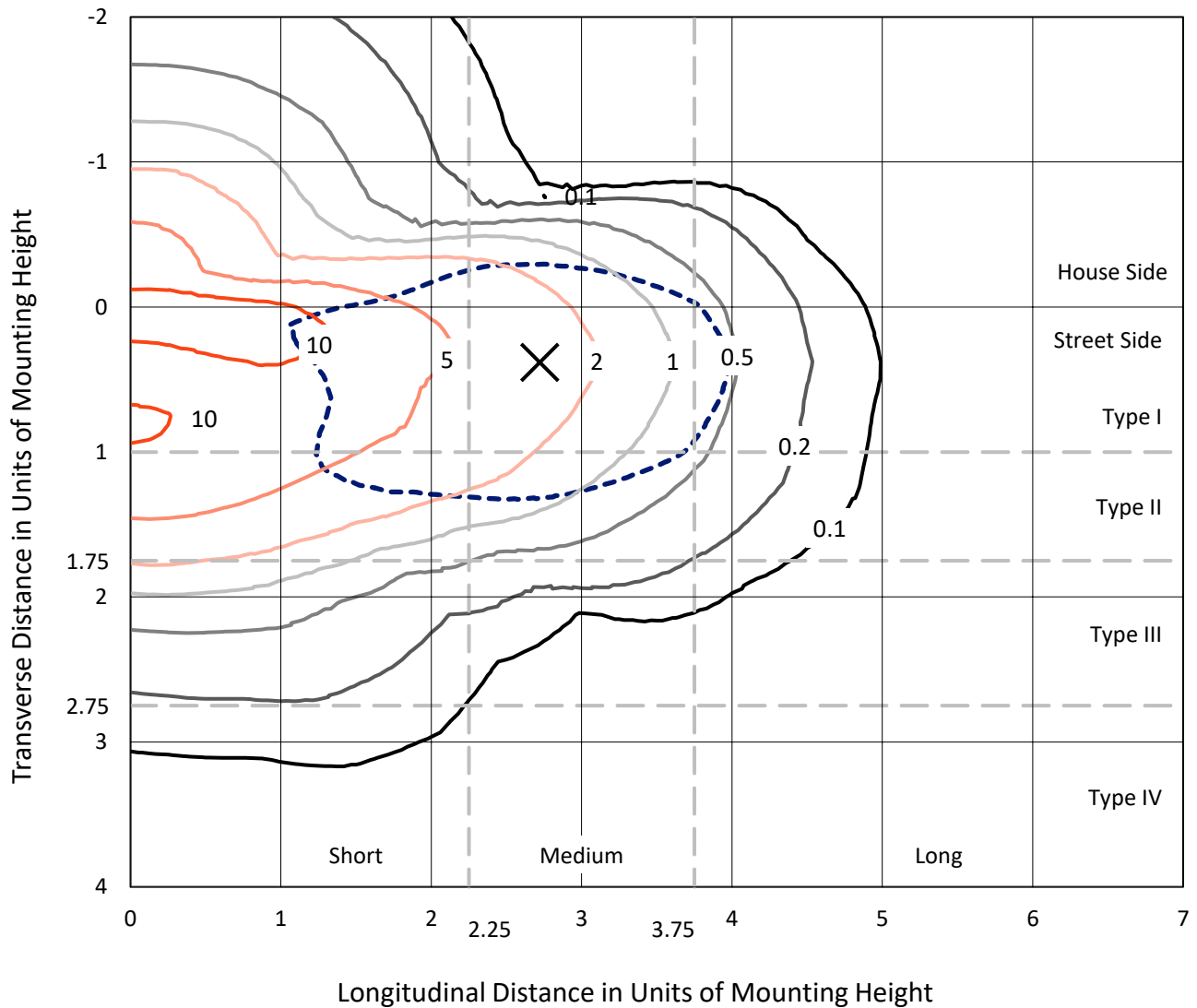
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

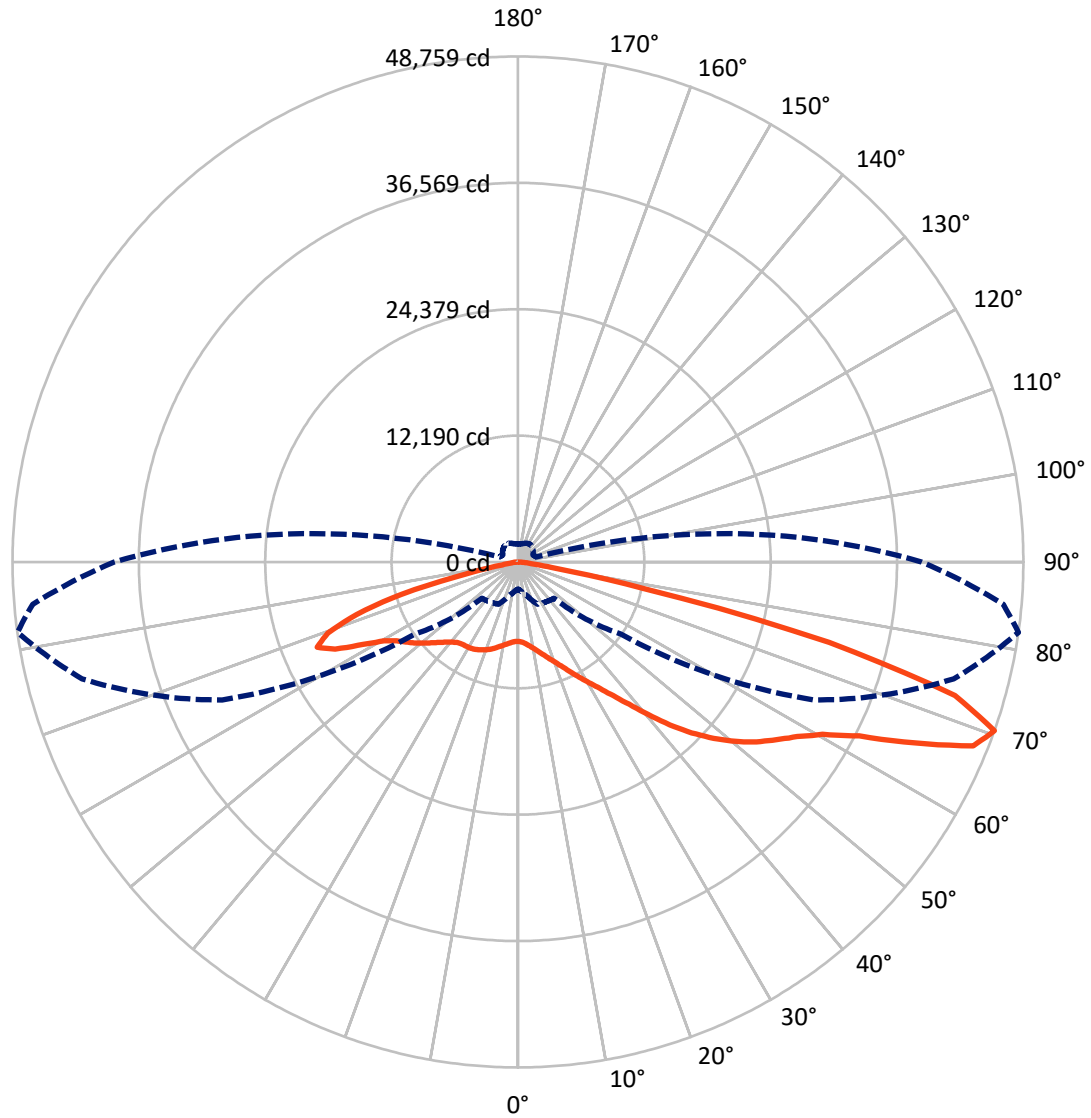
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 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	12862.9	0.0	12862.9
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	39314.1	0.0	39314.1
	% Fixture	75.3	0.0	75.3
Total	Lumens	52177.0	0.0	52177.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	722.3	1.4
10°-20°	2075.1	4.0
20°-30°	3471.5	6.7
30°-40°	5423.4	10.4
40°-50°	8637.4	16.6
50°-60°	12020.0	23.0
60°-70°	12573.4	24.1
70°-80°	6571.5	12.6
80°-90°	682.4	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°	52177.0	100.0
0°-180°	52177.0	100.0

Coefficient of Utilization



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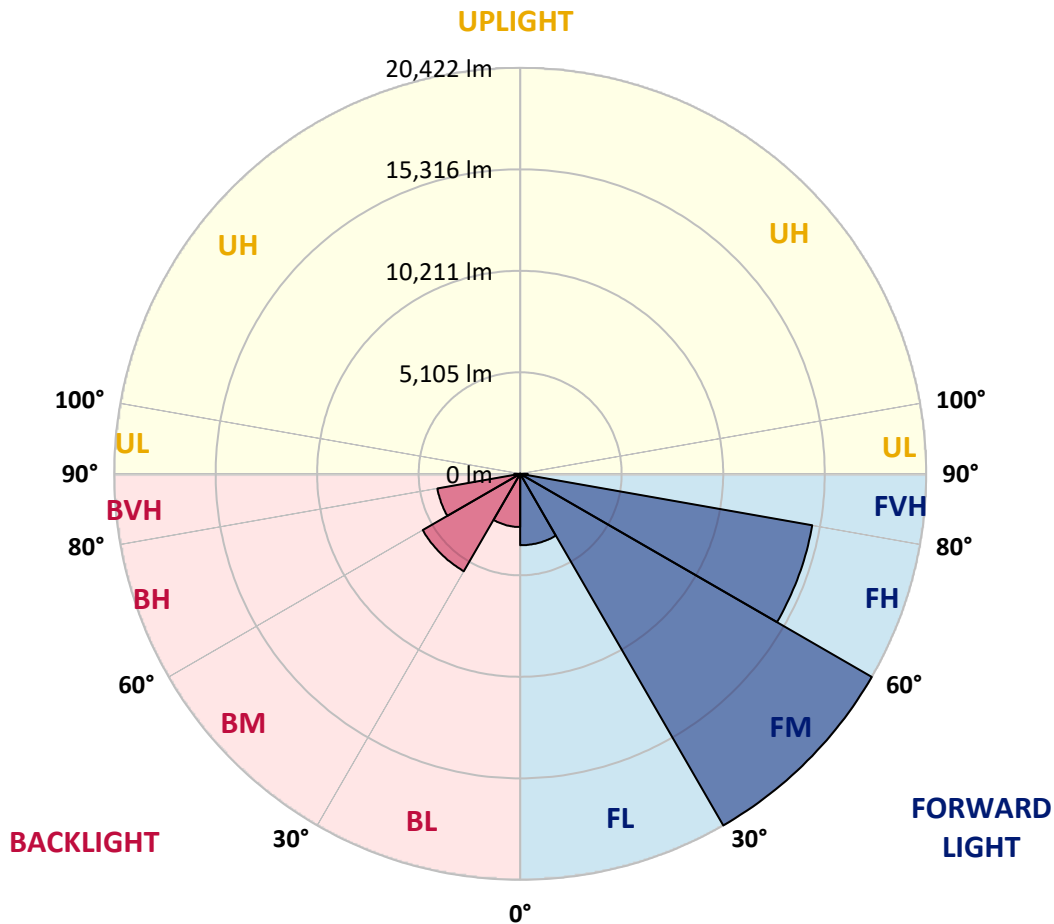
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3593.0	6.9			
FM (30°-60°)	20421.6	39.1			
FH (60°-80°)	14917.6	28.6			G5
FVH (80°-90°)	382.0	0.7			G3/500
BL (0°-30°)	2676.0	5.1	B4/5000		
BM (30°-60°)	5659.2	10.8	B4/8500		
BH (60°-80°)	4227.4	8.1	B4/5000		G4/5000
BVH (80°-90°)	300.4	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-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	7649.8	7649.8	7649.8	7649.8	7649.8	7649.8	7649.8	7649.8	7649.8	7649.8
2.5°	7832.5	7876.8	7863.0	7849.1	7849.1	7829.8	7827.0	7799.3	7777.2	7741.2
5°	7932.2	7979.3	7973.7	7984.8	8020.8	8029.1	8037.4	8020.8	7976.5	7932.2
7.5°	7843.6	7896.2	7912.8	7979.3	8090.0	8189.7	8264.4	8294.9	8253.4	8189.7
10°	7544.6	7602.7	7660.9	7818.7	8015.3	8250.6	8449.9	8569.0	8560.7	8499.8
12.5°	6938.3	6999.2	7123.8	7431.1	7791.0	8206.3	8577.3	8826.5	8912.3	8868.0
15°	6453.7	6506.3	6600.5	6916.1	7384.0	8015.3	8624.4	9108.9	9327.6	9302.7
17.5°	6439.9	6462.0	6520.2	6669.7	7029.6	7716.2	8574.5	9385.7	9803.8	9801.0
20°	6683.5	6691.8	6725.1	6755.5	6960.4	7489.2	8447.2	9615.5	10338.2	10338.2
22.5°	7021.3	7015.8	7049.0	7021.3	7121.0	7469.8	8366.9	9817.7	10933.4	10977.7
25°	7528.0	7500.3	7492.0	7428.3	7447.7	7649.8	8455.5	10047.5	11639.4	11730.8
27.5°	8203.5	8159.2	8128.8	7982.0	7932.2	8020.8	8726.8	10324.3	12425.7	12583.5
30°	9084.0	9003.7	8959.4	8704.7	8524.7	8538.5	9136.6	10692.6	13248.0	13502.7
32.5°	10285.6	10161.0	10041.9	9623.9	9294.4	9186.4	9665.4	11202.0	14139.5	14546.5
35°	11631.1	11531.5	11404.1	10759.0	10252.3	10003.2	10379.7	11913.5	15183.3	15828.4
37.5°	12926.9	12841.0	12901.9	12032.6	11379.2	11016.5	11315.5	12868.7	16470.7	17423.2
40°	14266.9	14200.4	14208.8	13378.2	12616.8	12209.8	12450.7	14067.5	17946.4	19319.7
42.5°	15723.2	15673.4	15507.3	14770.8	13915.3	13536.0	13757.5	15451.9	19530.1	21479.2
45°	17353.9	17323.5	17168.4	16324.0	15343.9	14917.5	15216.5	16980.2	21122.1	23511.4
47.5°	18763.2	18788.1	18768.7	18057.2	17041.1	16415.4	16772.5	18574.9	22603.3	25421.8
50°	19441.5	19571.6	19762.7	19541.2	18909.9	18273.1	18342.4	20114.3	24015.3	27213.1
52.5°	19087.1	19333.5	19854.0	20208.4	20452.1	20319.2	20133.7	21642.6	25344.3	28830.0
55°	17766.5	18112.6	18976.4	19831.9	21075.0	22041.3	22284.9	23337.0	26640.0	30253.1
57.5°	15360.5	15922.5	16697.8	18428.2	20521.3	22874.6	24793.3	25687.6	28013.3	31773.1
60°	11235.2	11988.3	12951.8	15526.6	18583.2	22428.9	26928.0	29297.9	29965.2	33741.6
62.5°	7190.2	7655.3	8541.3	10966.7	14480.1	20144.8	27581.4	33810.8	33273.7	36969.9
65°	4922.7	5221.7	6032.9	7395.1	9360.8	14995.0	25831.6	37194.1	38528.6	42086.4
67.5°	3577.1	3804.1	4496.3	5689.6	6099.4	8873.5	20045.1	37039.1	43636.8	47357.9
70°	2608.1	2768.7	3350.1	4496.3	4692.9	4936.5	12143.3	31485.2	43526.1	48758.8
72.5°	1932.5	2043.3	2433.6	3488.5	3798.6	3333.5	6010.8	22883.0	37401.8	44101.9
75°	1398.2	1481.2	1769.2	2669.0	3040.0	2538.9	2998.5	13372.6	26089.1	31022.8
77.5°	1068.7	1132.4	1320.6	1954.7	2433.6	1904.8	1860.5	6152.0	12370.4	12431.3
80°	858.3	899.8	1002.3	1376.0	1866.1	1425.9	1212.7	2483.5	3909.3	3308.5
82.5°	631.3	700.5	847.2	966.3	1334.5	982.9	739.2	1254.2	1486.8	1279.1
85°	359.9	407.0	512.2	692.2	852.7	600.8	423.6	556.5	692.2	567.6
87.5°	127.4	166.1	180.0	271.3	371.0	249.2	163.4	160.6	227.0	168.9
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°
7649.8	0°	7649.8	7649.8	7649.8	7649.8	7649.8	7649.8	7649.8	7649.8	7649.8	7649.8
7732.9	2.5°	7705.2	7691.3	7636.0	7561.2	7483.7	7408.9	7384.0	7331.4	7295.4	7276.0
7912.8	5°	7860.2	7815.9	7685.8	7519.7	7345.2	7157.0	7024.1	6902.3	6813.7	6730.6
8159.2	7.5°	8081.7	8004.2	7779.9	7489.2	7179.1	6866.3	6633.7	6456.5	6337.5	6259.9
8447.2	10°	8339.2	8220.1	7876.8	7442.2	6963.2	6514.7	6240.6	6088.3	6013.5	5972.0
8776.6	12.5°	8635.4	8466.6	7976.5	7334.2	6633.7	6121.5	5933.2	5888.9	5891.7	5894.5
9191.9	15°	9000.9	8765.6	8056.8	7098.8	6204.6	5819.7	5786.5	5858.5	5933.2	5969.2
9662.6	17.5°	9413.4	9081.2	8070.6	6711.2	5783.7	5625.9	5731.1	5886.2	5999.7	6049.5
10188.7	20°	9856.4	9402.4	7971.0	6163.0	5437.6	5468.1	5656.4	5855.7	5980.3	6044.0
10789.5	22.5°	10363.1	9745.7	7732.9	5587.2	5155.2	5296.4	5517.9	5711.7	5841.9	5905.5
11495.5	25°	10941.7	10130.5	7359.1	5102.6	4911.6	5102.6	5324.1	5484.7	5589.9	5648.1
12284.5	27.5°	11584.1	10532.0	6860.7	4717.8	4698.4	4903.3	5086.0	5210.6	5266.0	5310.3
13123.4	30°	12229.2	10897.4	6257.2	4427.1	4512.9	4706.7	4836.8	4892.2	4908.8	4917.1
14059.2	32.5°	12926.9	11213.1	5623.1	4186.2	4335.7	4515.7	4593.2	4618.1	4540.6	4488.0
15194.4	35°	13771.3	11550.8	5003.0	3995.2	4161.3	4316.3	4341.3	4319.1	4227.7	4119.8
16617.5	37.5°	14815.1	11971.7	4507.4	3859.5	3997.9	4100.4	4069.9	4064.4	4072.7	3945.3
18328.5	40°	16094.2	12519.9	4144.7	3754.3	3865.0	3887.2	3801.4	3848.4	3890.0	3696.2
20205.7	42.5°	17514.5	13181.6	3914.9	3682.3	3754.3	3701.7	3568.8	3621.4	3615.9	3361.2
22091.1	45°	18962.5	13901.4	3834.6	3629.7	3651.9	3546.7	3399.9	3413.8	3297.5	3067.7
23899.1	47.5°	20402.2	14673.9	3884.4	3585.4	3524.5	3405.4	3291.9	3231.0	3059.4	2887.7
25632.2	50°	21814.3	15485.1	4067.2	3496.8	3350.1	3280.9	3197.8	3089.8	2907.1	2760.4
27271.3	52.5°	23123.8	16301.9	4272.0	3350.1	3131.4	3172.9	3120.3	2995.7	2815.7	2666.2
28821.7	55°	24364.2	17118.6	4352.3	3148.0	2926.5	3078.7	3048.3	2818.5	2602.5	2480.7
30444.2	57.5°	25715.3	18101.5	4263.7	2890.5	2760.4	2970.8	2854.5	2599.8	2475.2	2383.8
32556.6	60°	27586.9	19643.6	4072.7	2572.1	2602.5	2810.2	2610.8	2505.6	2370.0	2267.5
35724.0	62.5°	30696.1	22520.3	3765.4	2256.5	2417.0	2572.1	2494.6	2389.4	2250.9	2151.2
41139.5	65°	35292.1	26518.2	3186.7	2010.0	2209.4	2339.5	2370.0	2264.8	2120.8	2015.6
45885.0	67.5°	39168.2	29026.6	2411.5	1805.2	1996.2	2151.2	2237.1	2134.6	1982.4	1879.9
46995.2	70°	38955.0	27204.8	1841.2	1603.1	1807.9	1965.7	2076.5	1996.2	1832.9	1735.9
42687.2	72.5°	34599.9	22758.4	1489.5	1398.2	1616.9	1771.9	1904.8	1843.9	1677.8	1583.7
31272.0	75°	25419.0	16155.1	1190.5	1190.5	1378.8	1569.8	1716.6	1677.8	1525.5	1459.1
13129.0	77.5°	10714.7	6777.7	933.0	988.4	1146.2	1348.3	1531.1	1544.9	1412.0	1495.1
3471.9	80°	2848.9	1868.8	711.5	778.0	899.8	1113.0	1331.7	1326.2	1182.2	1104.7
1290.2	82.5°	1085.3	736.5	506.7	548.2	650.6	852.7	1054.9	1088.1	944.1	816.8
506.7	85°	418.1	315.6	312.9	329.5	379.3	564.8	797.4	825.1	711.5	603.6
141.2	87.5°	108.0	94.1	116.3	110.7	174.4	301.8	456.8	473.4	434.7	251.9
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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<u>180°</u>
7649.8
7298.2
6763.8
6276.5
5983.1
5900.0
5966.5
6060.6
6060.6
5922.2
5664.7
5326.9
4936.5
4504.6
4125.3
3953.6
3701.7
3358.4
3076.0
2887.7
2749.3
2669.0
2469.6
2375.5
2262.0
2151.2
2021.1
1882.7
1744.3
1583.7
1439.7
1356.6
1027.2
816.8
622.9
359.9
0.0

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