

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: P955350

Luminaire Tested: **GALN-SB8B-827-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955350
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8B-827-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39517 lumens
Efficiency: N/A
Efficacy: 135.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

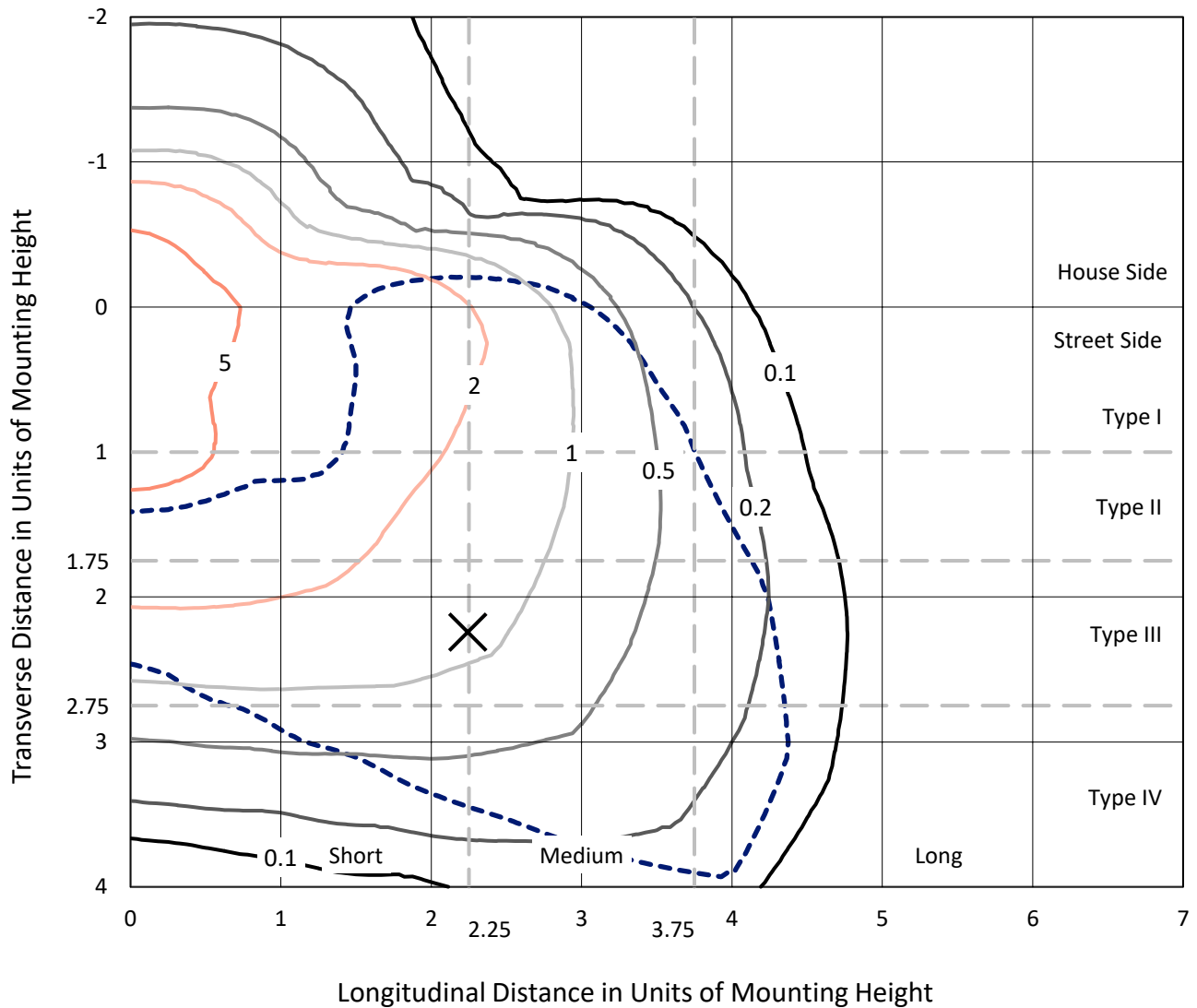
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

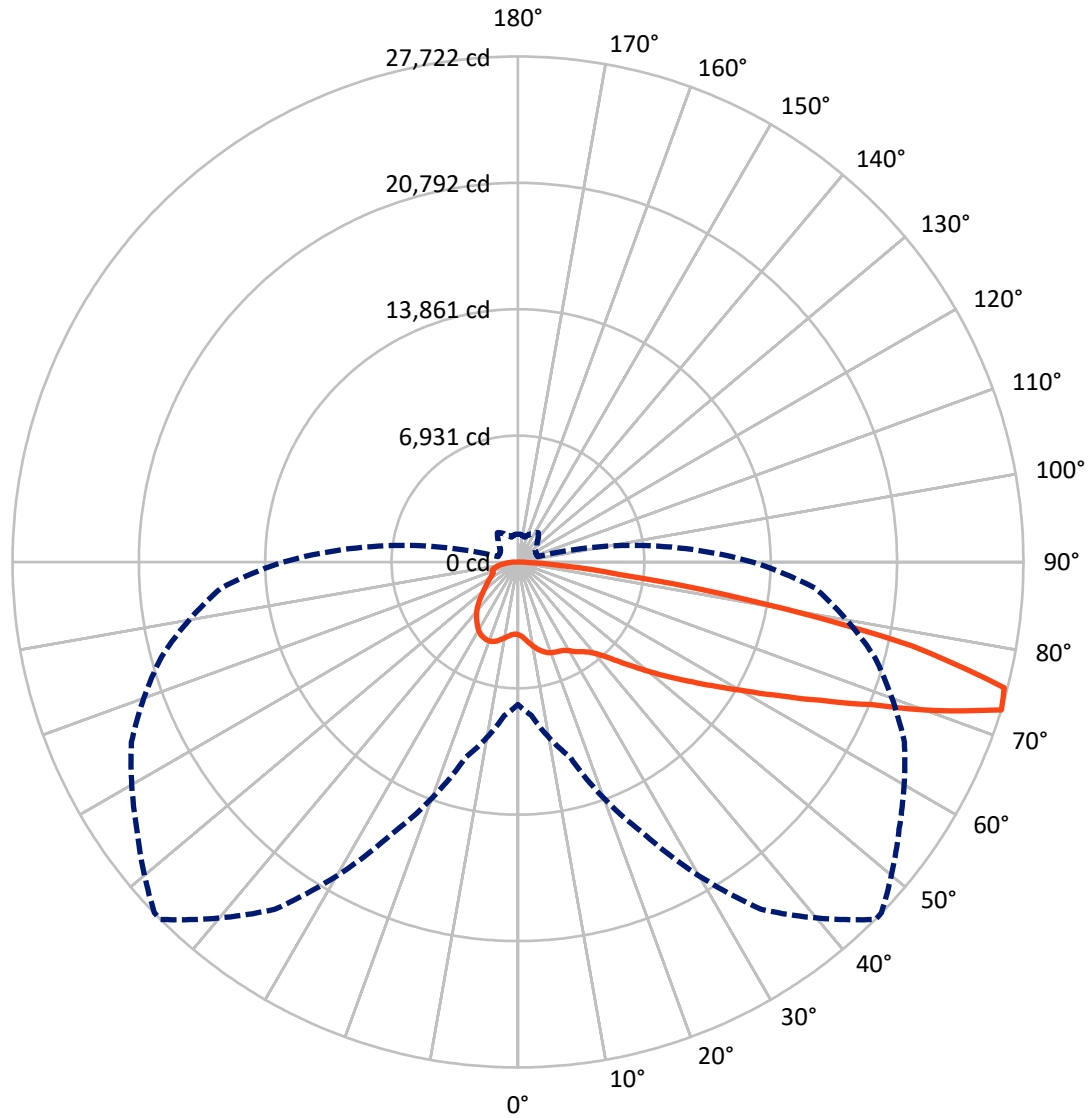
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8933.4	0.0	8933.4
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	30583.6	0.0	30583.6
	% Fixture	77.4	0.0	77.4
Total	Lumens	39517.0	0.0	39517.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.7	1.0
10°-20°	1352.8	3.4
20°-30°	2353.3	6.0
30°-40°	3373.6	8.5
40°-50°	4750.2	12.0
50°-60°	7275.9	18.4
60°-70°	10540.2	26.7
70°-80°	8417.0	21.3
80°-90°	1048.3	2.7
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°	39517.0	100.0
0°-180°	39517.0	100.0



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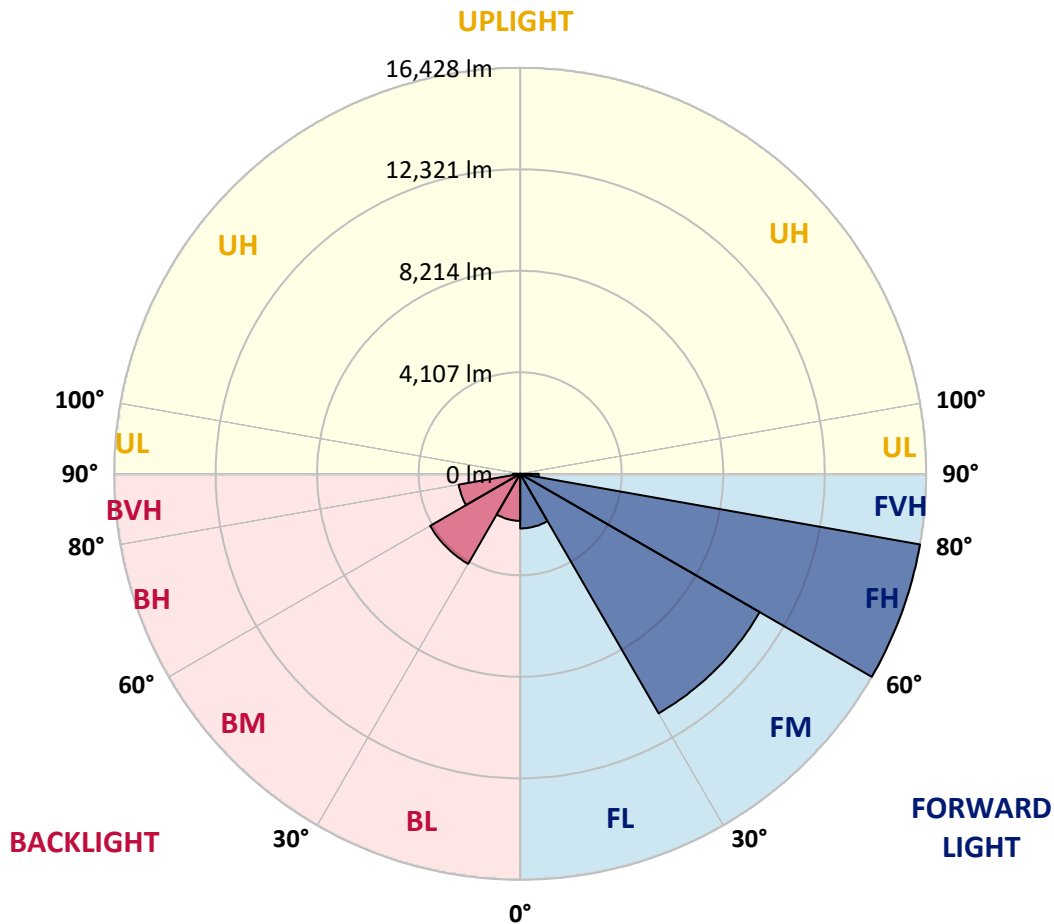
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2209.8	5.6			
FM (30°-60°)	11193.3	28.3			
FH (60°-80°)	16428.4	41.6			G5
FVH (80°-90°)	752.1	1.9			G5
BL (0°-30°)	1902.0	4.8	B3/2500		
BM (30°-60°)	4206.4	10.6	B3/5000		
BH (60°-80°)	2528.8	6.4	B4/5000		G4/5000
BVH (80°-90°)	296.2	0.7			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	3986.5	3986.5	3986.5	3986.5	3986.5	3986.5	3986.5	3986.5	3986.5	3986.5
2.5°	4142.6	4169.7	4144.7	4121.8	4111.4	4084.3	4082.3	4065.6	4055.2	4026.0
5°	4432.0	4467.4	4425.7	4379.9	4338.3	4271.7	4263.4	4215.5	4161.4	4098.9
7.5°	4758.8	4790.0	4742.2	4673.5	4600.6	4490.3	4488.2	4400.8	4315.4	4209.2
10°	5044.0	5085.6	5021.1	4927.4	4835.8	4710.9	4696.4	4596.4	4488.2	4350.8
12.5°	5295.9	5325.0	5262.6	5148.1	5041.9	4917.0	4898.3	4788.0	4667.2	4511.1
15°	5495.7	5533.2	5449.9	5327.1	5214.7	5091.9	5075.2	4975.3	4854.6	4690.1
17.5°	5626.9	5658.1	5572.8	5435.4	5327.1	5225.1	5212.6	5129.4	5023.2	4856.7
20°	5676.9	5710.2	5620.6	5481.2	5381.2	5302.1	5295.9	5235.5	5162.7	5010.7
22.5°	5726.8	5758.0	5641.5	5495.7	5408.3	5358.4	5356.3	5316.7	5287.6	5162.7
25°	5928.7	5937.1	5780.9	5570.7	5445.8	5402.1	5400.0	5397.9	5410.4	5312.6
27.5°	6103.6	6101.5	5968.3	5770.5	5576.9	5485.3	5483.3	5504.1	5543.6	5462.4
30°	6359.7	6336.8	6178.5	5972.5	5795.5	5654.0	5641.5	5622.7	5654.0	5589.4
32.5°	6903.0	6830.1	6574.1	6207.7	5976.6	5868.4	5851.7	5735.1	5747.6	5708.1
35°	7681.6	7585.8	7244.4	6653.2	6201.4	6047.4	6039.1	5891.3	5866.3	5830.9
37.5°	8607.9	8489.3	8091.7	7298.5	6588.6	6255.6	6243.1	6109.9	6007.8	5970.4
40°	9538.4	9388.6	9059.7	8085.4	7159.0	6603.2	6563.7	6361.7	6245.2	6182.7
42.5°	10441.9	10317.0	10036.0	8968.1	7862.7	7111.2	7023.7	6678.2	6590.7	6532.4
45°	11241.3	11128.9	10922.8	9911.1	8687.0	7802.3	7716.9	7152.8	7125.7	7125.7
47.5°	11890.8	11865.8	11647.2	10872.8	9659.2	8589.2	8441.4	7812.7	7885.6	7998.0
50°	12611.1	12542.4	12309.2	11820.0	10802.1	9490.6	9369.8	8622.5	8895.2	9203.3
52.5°	13273.1	13310.5	13050.3	12806.7	12092.7	10496.0	10283.7	9578.0	10167.1	10677.1
55°	13953.8	13955.9	13883.0	13849.7	13445.8	11607.7	11374.5	10727.1	11663.9	12296.7
57.5°	14592.9	14597.0	14705.3	14998.8	15015.5	12890.0	12625.6	12138.5	13327.2	13972.5
60°	15163.3	15192.4	15488.0	16175.0	16395.6	14359.7	14109.9	13806.0	15046.7	15696.2
62.5°	15354.8	15460.9	16118.8	17095.1	17759.2	16162.5	15916.8	15735.7	16853.6	17457.3
65°	15030.0	15273.6	16545.5	17854.9	19162.2	18304.6	18061.0	17863.2	18731.3	19299.6
67.5°	14232.7	14547.1	16520.5	18652.2	20865.1	20881.7	20654.8	20190.6	20744.4	20962.9
70°	12132.3	12602.7	15065.4	18949.9	22819.8	24406.1	24187.5	22992.6	22753.2	21695.7
72.5°	7816.9	8449.7	11093.5	16499.7	23254.9	27722.3	27709.8	25521.9	23388.1	20271.8
75°	2852.0	3239.2	5154.3	10356.6	19520.3	27553.7	27634.8	25088.9	21350.1	15658.7
77.5°	1038.8	1136.6	1682.0	3980.3	12005.3	22107.9	22276.5	20057.4	15196.6	7858.5
80°	545.4	599.5	861.8	1544.6	5143.9	13129.4	13393.8	11919.9	7142.4	2366.9
82.5°	301.8	326.8	483.0	838.9	2317.0	5614.4	5772.6	4708.9	2512.6	1003.4
85°	162.4	172.8	226.9	458.0	1132.5	1946.4	1990.1	1407.2	1001.3	589.1
87.5°	47.9	58.3	74.9	145.7	443.4	437.2	447.6	279.0	395.5	297.7
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°
3986.5	0°	3986.5	3986.5	3986.5	3986.5	3986.5	3986.5	3986.5	3986.5	3986.5	3986.5
4017.7	2.5°	4005.2	3999.0	3976.1	3965.7	3953.2	3951.1	3961.5	3963.6	3965.7	3967.8
4063.5	5°	4042.7	4021.9	4001.1	3988.6	3992.7	3994.8	4015.6	4030.2	4040.6	4048.9
4148.9	7.5°	4115.6	4098.9	4063.5	4061.4	4067.7	4086.4	4113.5	4146.8	4165.5	4180.1
4259.2	10°	4223.8	4192.6	4151.0	4157.2	4169.7	4196.8	4253.0	4280.0	4311.2	4338.3
4394.5	12.5°	4334.1	4307.1	4259.2	4263.4	4284.2	4332.1	4386.2	4419.5	4440.3	4461.1
4540.2	15°	4477.8	4429.9	4377.9	4377.9	4415.3	4467.4	4492.4	4519.4	4531.9	4554.8
4696.4	17.5°	4625.6	4563.1	4494.4	4490.3	4536.1	4561.1	4575.6	4579.8	4584.0	4608.9
4848.3	20°	4773.4	4704.7	4606.8	4598.5	4608.9	4604.8	4602.7	4598.5	4604.8	4636.0
5004.5	22.5°	4919.1	4840.0	4704.7	4667.2	4638.1	4598.5	4596.4	4594.4	4598.5	4629.7
5173.1	25°	5089.8	4994.0	4812.9	4700.5	4602.7	4548.6	4554.8	4556.9	4561.1	4586.0
5347.9	27.5°	5275.1	5168.9	4912.9	4690.1	4513.2	4475.7	4465.3	4471.5	4486.1	4525.7
5522.8	30°	5460.4	5335.5	5004.5	4648.5	4400.8	4348.7	4315.4	4330.0	4375.8	4415.3
5674.8	32.5°	5629.0	5504.1	5077.3	4556.9	4257.1	4175.9	4132.2	4151.0	4196.8	4211.3
5843.4	35°	5826.7	5685.2	5108.5	4411.2	4101.0	3976.1	3917.8	3890.7	3913.6	3899.1
6041.2	37.5°	6047.4	5899.6	5104.4	4219.6	3917.8	3774.2	3693.0	3591.0	3543.1	3493.1
6332.6	40°	6374.2	6161.9	5054.4	3988.6	3690.9	3559.7	3414.0	3241.2	3133.0	3035.1
6803.1	42.5°	6819.7	6526.2	4962.8	3734.6	3434.8	3312.0	3114.3	2912.3	2741.6	2579.3
7517.1	45°	7483.8	7002.9	4848.3	3464.0	3158.0	3037.2	2822.8	2595.9	2402.3	2194.1
8530.9	47.5°	8441.4	7644.1	4740.1	3155.9	2866.5	2756.2	2562.6	2352.3	2123.4	1921.4
9996.4	50°	9757.0	8564.2	4640.2	2856.1	2579.3	2496.0	2341.9	2127.5	1896.4	1734.1
11713.8	52.5°	11430.7	9815.3	4598.5	2566.8	2310.7	2279.5	2156.7	1956.8	1738.2	1600.8
13716.5	55°	13352.2	11312.1	4598.5	2289.9	2075.5	2085.9	2000.5	1815.3	1625.8	1503.0
15781.5	57.5°	15313.1	12827.6	4515.3	2033.8	1875.6	1919.3	1865.2	1702.8	1532.1	1405.2
17952.8	60°	17120.1	14097.4	4178.0	1800.7	1698.7	1767.4	1732.0	1592.5	1384.3	1278.2
19768.0	62.5°	18508.6	14813.5	3528.5	1615.4	1553.0	1632.1	1613.3	1446.8	1357.3	1313.6
21258.5	65°	19203.9	14697.0	2697.9	1451.0	1430.1	1553.0	1513.4	1507.2	1436.4	1386.4
21743.6	67.5°	18777.1	13693.6	1956.8	1330.2	1359.4	1480.1	1632.1	1657.1	1525.9	1428.1
20378.0	70°	16905.7	11878.3	1457.2	1215.7	1269.8	1482.2	1861.1	1734.1	1496.8	1382.3
16343.6	72.5°	12860.9	8857.7	1130.4	1095.0	1153.3	1492.6	1963.1	1698.7	1413.5	1528.0
10181.7	75°	7354.7	4862.9	907.6	947.2	1007.6	1394.8	1911.0	1607.1	1349.0	1403.1
4034.4	77.5°	2804.1	1869.4	749.4	801.5	809.8	1217.8	1827.8	1600.8	1284.4	1253.2
1209.5	80°	972.2	730.7	620.4	637.0	626.6	1082.5	1752.8	1392.7	1051.3	940.9
499.6	82.5°	397.6	364.3	491.3	470.5	445.5	841.0	1415.6	1138.7	859.8	759.8
241.5	85°	172.8	231.1	324.7	285.2	258.1	582.9	1134.5	963.8	726.5	626.6
79.1	87.5°	35.4	87.4	137.4	129.1	133.2	389.3	805.6	684.9	514.2	385.1
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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180°
3986.5
3976.1
4053.1
4184.3
4332.1
4469.5
4563.1
4617.3
4648.5
4650.6
4619.3
4565.2
4459.0
4263.4
3944.9
3524.4
3041.4
2564.7
2169.2
1898.5
1723.7
1590.4
1490.5
1384.3
1261.5
1299.0
1369.8
1411.4
1363.5
1515.5
1403.1
1142.9
909.7
751.5
624.5
301.8
0.0

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