

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: P957240

Luminaire Tested: **GALN-SB9C-927-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957240
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-SB9C-927-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41440 lumens
Efficiency: N/A
Efficacy: 92.1 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

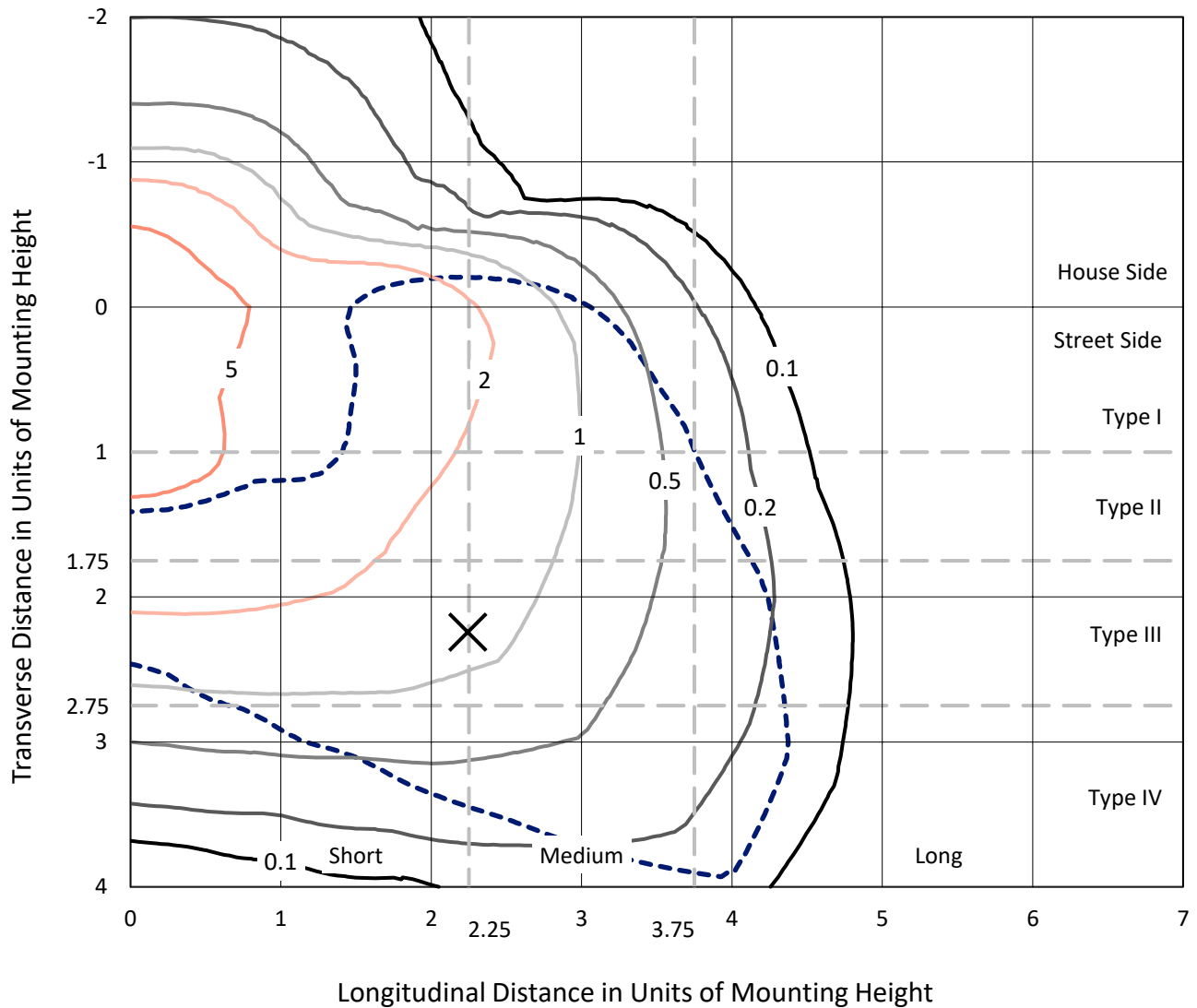
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P957240
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Iso-Footcandle Lines of Horizontal Illumination

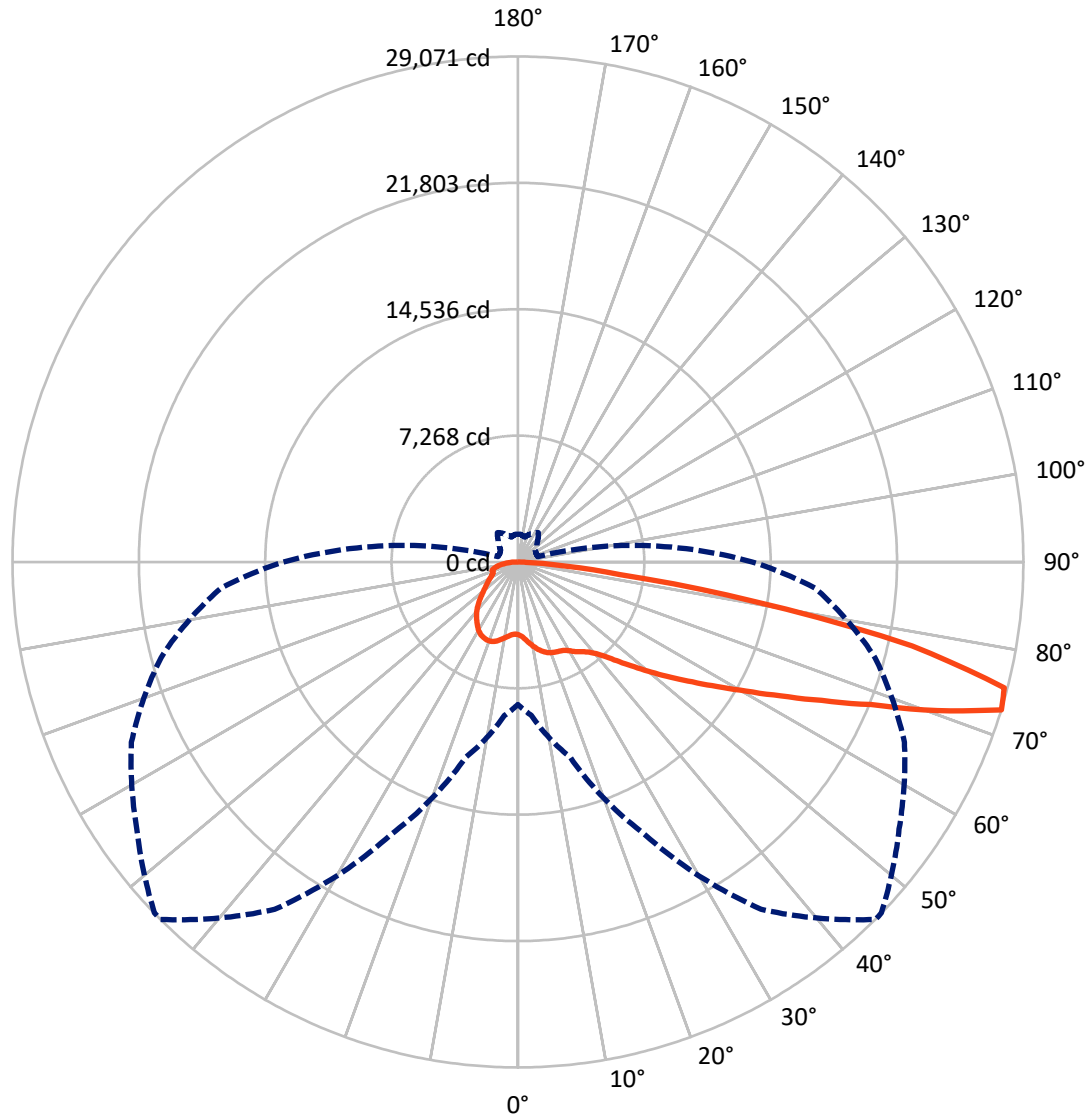
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P957240
CATALOG NUMBER: GALN-SB9C-927-U-T4W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P957240

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9368.1	0.0	9368.1
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	32071.8	0.0	32071.8
	% Fixture	77.4	0.0	77.4
Total	Lumens	41440.0	0.0	41440.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	425.5	1.0
10°-20°	1418.6	3.4
20°-30°	2467.8	6.0
30°-40°	3537.7	8.5
40°-50°	4981.3	12.0
50°-60°	7630.0	18.4
60°-70°	11053.1	26.7
70°-80°	8826.6	21.3
80°-90°	1099.3	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°	41440.0	100.0
0°-180°	41440.0	100.0

Coefficient of Utilization



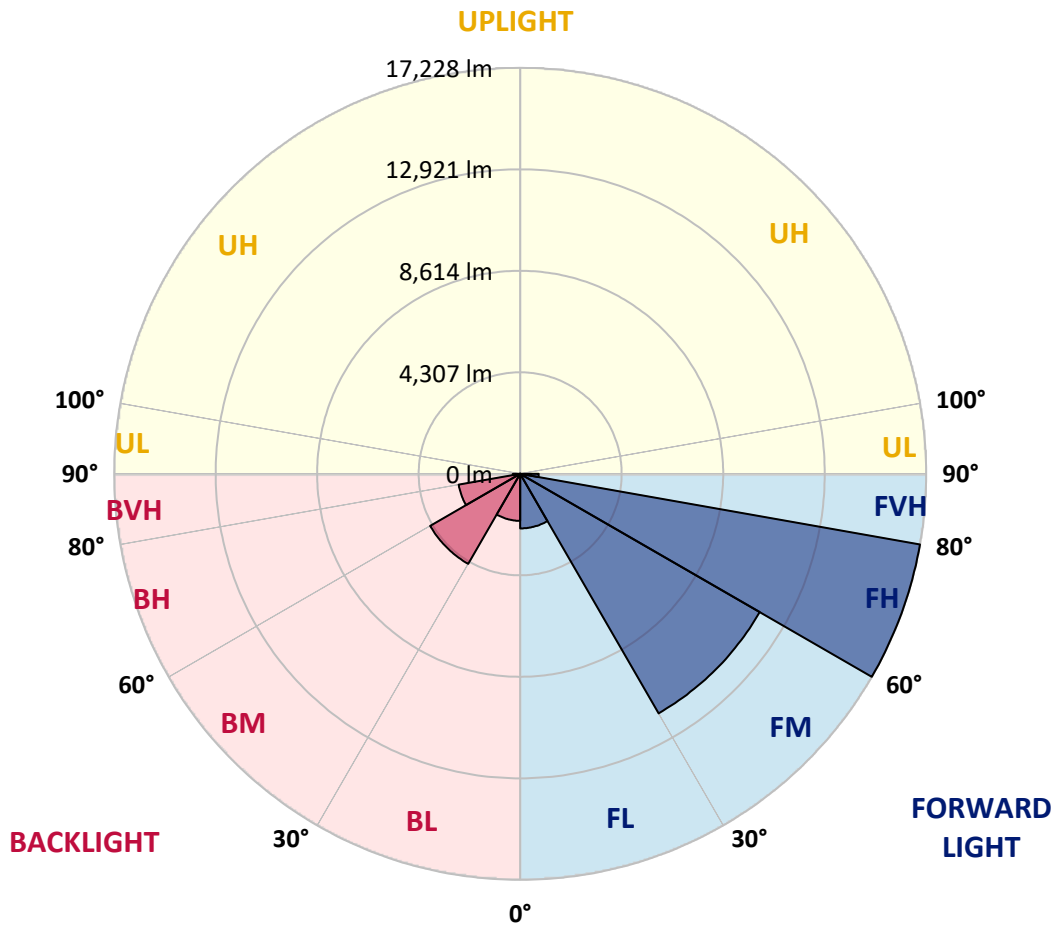
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2317.4	5.6			
FM (30°-60°)	11738.0	28.3			
FH (60°-80°)	17227.8	41.6			G5
FVH (80°-90°)	788.7	1.9			G5
BL (0°-30°)	1994.6	4.8	B3/2500		
BM (30°-60°)	4411.1	10.6	B3/5000		
BH (60°-80°)	2651.9	6.4	B4/5000		G4/5000
BVH (80°-90°)	310.6	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



REPORT NUMBER: P957240
 CATALOG NUMBER: GALN-SB9C-927-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	4180.5	4180.5	4180.5	4180.5	4180.5	4180.5	4180.5	4180.5	4180.5	4180.5
2.5°	4344.2	4372.6	4346.4	4322.4	4311.5	4283.1	4280.9	4263.4	4252.5	4222.0
5°	4647.7	4684.8	4641.1	4593.1	4549.4	4479.6	4470.8	4420.6	4363.9	4298.4
7.5°	4990.4	5023.1	4972.9	4900.9	4824.5	4708.8	4706.6	4614.9	4525.4	4414.1
10°	5289.5	5333.1	5265.5	5167.2	5071.2	4940.2	4924.9	4820.1	4706.6	4562.5
12.5°	5553.6	5584.2	5518.7	5398.6	5287.3	5156.3	5136.7	5021.0	4894.3	4730.6
15°	5763.2	5802.5	5715.2	5586.4	5468.5	5339.7	5322.2	5217.4	5090.8	4918.4
17.5°	5900.7	5933.5	5844.0	5699.9	5586.4	5479.4	5466.3	5379.0	5267.6	5093.0
20°	5953.1	5988.0	5894.2	5747.9	5643.1	5560.2	5553.6	5490.3	5413.9	5254.5
22.5°	6005.5	6038.2	5916.0	5763.2	5671.5	5619.1	5616.9	5575.4	5544.9	5413.9
25°	6217.3	6226.0	6062.3	5841.8	5710.8	5664.9	5662.8	5660.6	5673.7	5571.1
27.5°	6400.6	6398.4	6258.7	6051.3	5848.3	5752.3	5750.1	5771.9	5813.4	5728.3
30°	6669.1	6645.1	6479.2	6263.1	6077.5	5929.1	5916.0	5896.3	5929.1	5861.4
32.5°	7238.9	7162.5	6894.0	6509.8	6267.5	6153.9	6136.5	6014.2	6027.3	5985.8
35°	8055.4	7954.9	7596.9	6976.9	6503.2	6341.7	6333.0	6178.0	6151.8	6114.6
37.5°	9026.8	8902.4	8485.4	7653.7	6909.3	6560.0	6546.9	6407.2	6300.2	6260.9
40°	10002.6	9845.4	9500.5	8478.9	7507.4	6924.5	6883.1	6671.3	6549.1	6483.6
42.5°	10950.0	10819.1	10524.4	9404.5	8245.3	7457.2	7365.5	7003.1	6911.5	6850.3
45°	11788.3	11670.4	11454.3	10393.4	9109.8	8182.0	8092.5	7500.9	7472.5	7472.5
47.5°	12469.4	12443.2	12214.0	11401.9	10129.2	9007.2	8852.2	8192.9	8269.3	8387.2
50°	13224.8	13152.7	12908.2	12395.2	11327.7	9952.4	9825.8	9042.1	9328.1	9651.1
52.5°	13919.0	13958.3	13685.4	13430.0	12681.2	11006.8	10784.1	10044.1	10661.9	11196.7
55°	14632.8	14635.0	14558.6	14523.7	14100.1	12172.5	11928.0	11249.1	12231.5	12895.1
57.5°	15303.0	15307.4	15420.9	15728.7	15746.1	13517.3	13240.0	12729.2	13975.7	14652.5
60°	15901.1	15931.7	16241.7	16962.1	17193.5	15058.5	14796.5	14477.8	15778.9	16460.0
62.5°	16102.0	16213.3	16903.1	17927.0	18623.4	16949.0	16691.4	16501.5	17673.8	18306.8
65°	15761.4	16016.8	17350.7	18723.8	20094.7	19195.3	18939.9	18732.5	19642.8	20238.8
67.5°	14925.3	15255.0	17324.5	19559.9	21880.4	21897.9	21660.0	21173.1	21753.8	21983.0
70°	12722.7	13216.0	15798.5	19872.1	23930.3	25593.8	25364.5	24111.5	23860.4	22751.5
72.5°	8197.3	8860.9	11633.3	17302.6	24386.6	29071.3	29058.2	26763.9	24526.3	21258.3
75°	2990.7	3396.8	5405.2	10860.5	20470.2	28894.5	28979.6	26309.8	22389.1	16420.7
77.5°	1089.3	1191.9	1763.9	4173.9	12589.5	23183.7	23360.5	21033.4	15936.1	8240.9
80°	572.0	628.7	903.8	1619.8	5394.3	13768.3	14045.6	12500.0	7490.0	2482.1
82.5°	316.5	342.7	506.5	879.8	2429.7	5887.6	6053.5	4938.0	2634.9	1052.2
85°	170.3	181.2	237.9	480.3	1187.6	2041.1	2087.0	1475.7	1050.0	617.8
87.5°	50.2	61.1	78.6	152.8	465.0	458.4	469.3	292.5	414.8	312.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P957240
 CATALOG NUMBER: GALN-SB9C-927-U-T4W

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4180.5	0°	4180.5	4180.5	4180.5	4180.5	4180.5	4180.5	4180.5	4180.5	4180.5	4180.5
4213.2	2.5°	4200.1	4193.6	4169.6	4158.7	4145.6	4143.4	4154.3	4156.5	4158.7	4160.8
4261.3	5°	4239.4	4217.6	4195.8	4182.7	4187.0	4189.2	4211.1	4226.3	4237.2	4246.0
4350.8	7.5°	4315.8	4298.4	4261.3	4259.1	4265.6	4285.3	4313.7	4348.6	4368.2	4383.5
4466.5	10°	4429.4	4396.6	4352.9	4359.5	4372.6	4401.0	4459.9	4488.3	4521.0	4549.4
4608.4	12.5°	4545.1	4516.7	4466.5	4470.8	4492.7	4542.9	4599.6	4634.6	4656.4	4678.2
4761.2	15°	4695.7	4645.5	4590.9	4590.9	4630.2	4684.8	4711.0	4739.3	4752.4	4776.5
4924.9	17.5°	4850.7	4785.2	4713.1	4708.8	4756.8	4783.0	4798.3	4802.7	4807.0	4833.2
5084.3	20°	5005.7	4933.6	4831.0	4822.3	4833.2	4828.8	4826.7	4822.3	4828.8	4861.6
5248.0	22.5°	5158.5	5075.5	4933.6	4894.3	4863.8	4822.3	4820.1	4817.9	4822.3	4855.0
5424.8	25°	5337.5	5237.1	5047.1	4929.3	4826.7	4769.9	4776.5	4778.6	4783.0	4809.2
5608.2	27.5°	5531.8	5420.4	5151.9	4918.4	4732.8	4693.5	4682.6	4689.1	4704.4	4745.9
5791.6	30°	5726.1	5595.1	5248.0	4874.7	4614.9	4560.3	4525.4	4540.7	4588.7	4630.2
5950.9	32.5°	5902.9	5771.9	5324.4	4778.6	4464.3	4379.1	4333.3	4352.9	4401.0	4416.3
6127.7	35°	6110.3	5961.8	5357.1	4625.8	4300.6	4169.6	4108.4	4080.1	4104.1	4088.8
6335.1	37.5°	6341.7	6186.7	5352.8	4425.0	4108.4	3957.8	3872.7	3765.7	3715.5	3663.1
6640.8	40°	6684.4	6461.7	5300.4	4182.7	3870.5	3733.0	3580.2	3399.0	3285.4	3182.8
7134.1	42.5°	7151.6	6843.8	5204.3	3916.3	3602.0	3473.2	3265.8	3054.0	2875.0	2704.8
7882.9	45°	7848.0	7343.7	5084.3	3632.6	3311.6	3185.0	2960.2	2722.2	2519.2	2300.9
8946.0	47.5°	8852.2	8016.1	4970.7	3309.5	3006.0	2890.3	2687.3	2466.8	2226.7	2014.9
10482.9	50°	10231.8	8981.0	4866.0	2995.1	2704.8	2617.4	2455.9	2231.0	1988.7	1818.5
12283.9	52.5°	11987.0	10293.0	4822.3	2691.7	2423.2	2390.4	2261.6	2052.0	1822.8	1678.7
14383.9	55°	14001.9	11862.5	4822.3	2401.3	2176.5	2187.4	2097.9	1903.6	1704.9	1576.1
16549.5	57.5°	16058.3	13451.8	4735.0	2132.8	1966.9	2012.7	1956.0	1785.7	1606.7	1473.5
18826.4	60°	17953.2	14783.4	4381.3	1888.3	1781.3	1853.4	1816.3	1670.0	1451.7	1340.4
20730.0	62.5°	19409.3	15534.4	3700.2	1694.0	1628.5	1711.5	1691.8	1517.2	1423.3	1377.5
22293.0	65°	20138.4	15412.1	2829.2	1521.6	1499.7	1628.5	1587.1	1580.5	1506.3	1453.9
22801.7	67.5°	19690.9	14359.9	2052.0	1395.0	1425.5	1552.1	1711.5	1737.7	1600.2	1497.6
21369.6	70°	17728.3	12456.3	1528.1	1274.9	1331.6	1554.3	1951.6	1818.5	1569.6	1449.5
17138.9	72.5°	13486.7	9288.8	1185.4	1148.3	1209.4	1565.2	2058.6	1781.3	1482.3	1602.3
10677.2	75°	7712.6	5099.5	951.8	993.3	1056.6	1462.6	2004.0	1685.3	1414.6	1471.4
4230.7	77.5°	2940.5	1960.4	785.9	840.5	849.2	1277.1	1916.7	1678.7	1346.9	1314.2
1268.3	80°	1019.5	766.2	650.5	668.0	657.1	1135.2	1838.1	1460.4	1102.4	986.7
523.9	82.5°	417.0	382.0	515.2	493.4	467.2	881.9	1484.5	1194.1	901.6	796.8
253.2	85°	181.2	242.3	340.6	299.1	270.7	611.2	1189.7	1010.7	761.9	657.1
83.0	87.5°	37.1	91.7	144.1	135.3	139.7	408.2	844.8	718.2	539.2	403.9
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>
4180.5
4169.6
4250.3
4387.9
4542.9
4687.0
4785.2
4841.9
4874.7
4876.9
4844.1
4787.4
4676.0
4470.8
4136.8
3695.9
3189.4
2689.5
2274.7
1990.9
1807.5
1667.8
1563.0
1451.7
1322.9
1362.2
1436.4
1480.1
1429.9
1589.2
1471.4
1198.5
954.0
788.1
654.9
316.5
0.0

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