

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: P940655

Luminaire Tested: **GALN-SB3D-827-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940655
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-SB3D-827-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26306 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

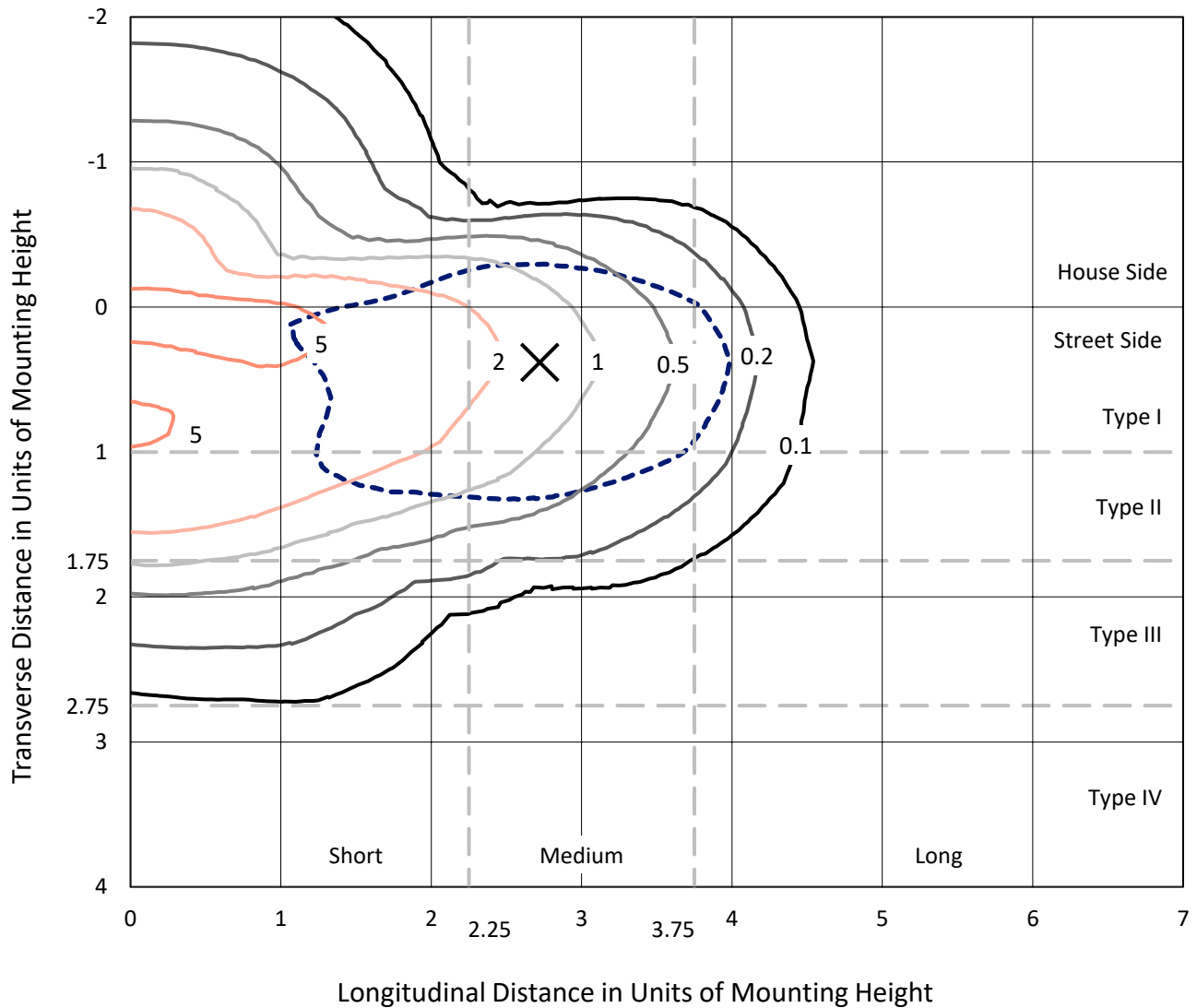
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

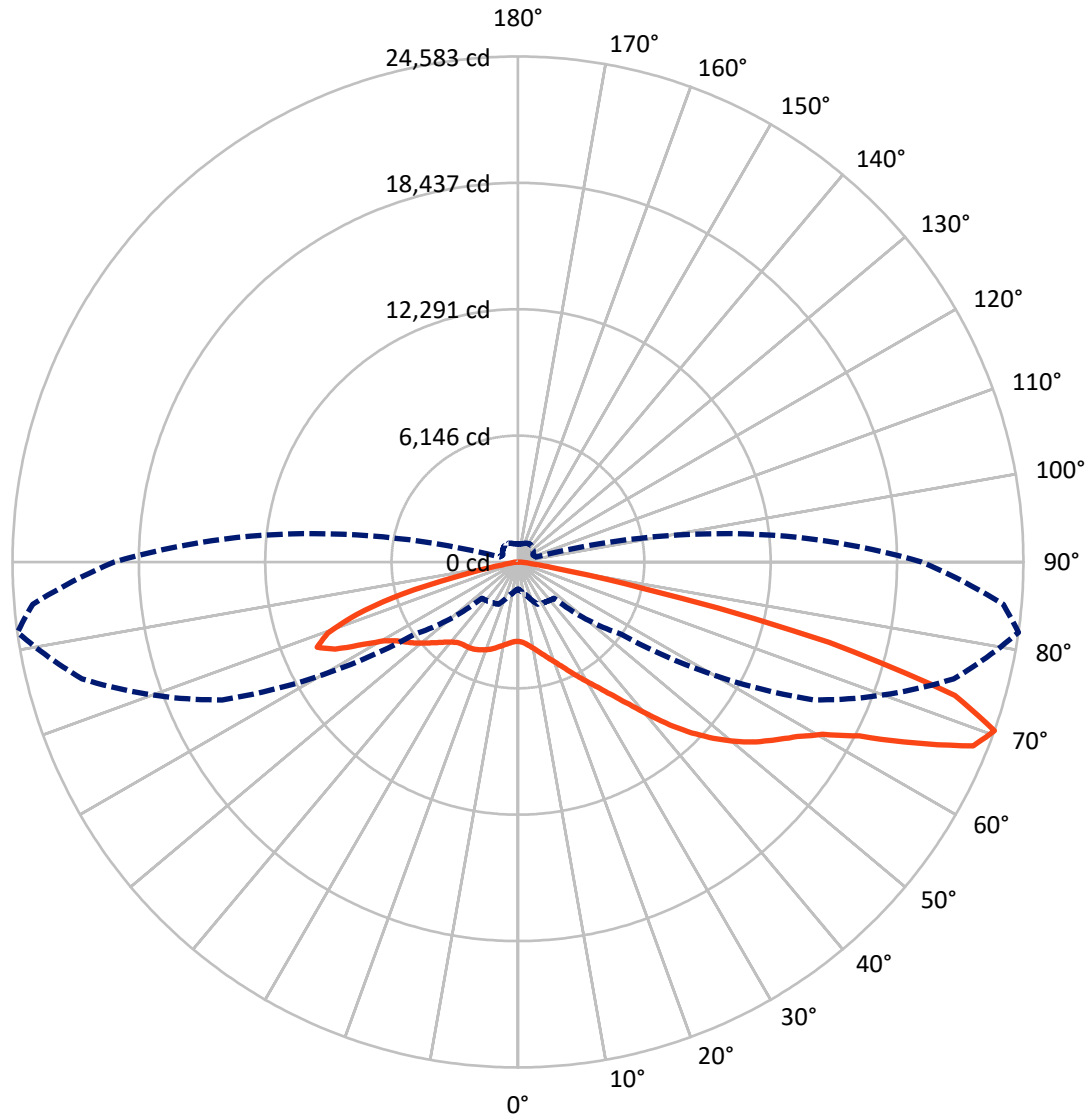
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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	6485.1	0.0	6485.1
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	19820.9	0.0	19820.9
	% Fixture	75.3	0.0	75.3
Total	Lumens	26306.0	0.0	26306.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.1	1.4
10°-20°	1046.2	4.0
20°-30°	1750.2	6.7
30°-40°	2734.3	10.4
40°-50°	4354.7	16.6
50°-60°	6060.1	23.0
60°-70°	6339.1	24.1
70°-80°	3313.2	12.6
80°-90°	344.0	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°	26306.0	100.0
0°-180°	26306.0	100.0

Coefficient of Utilization



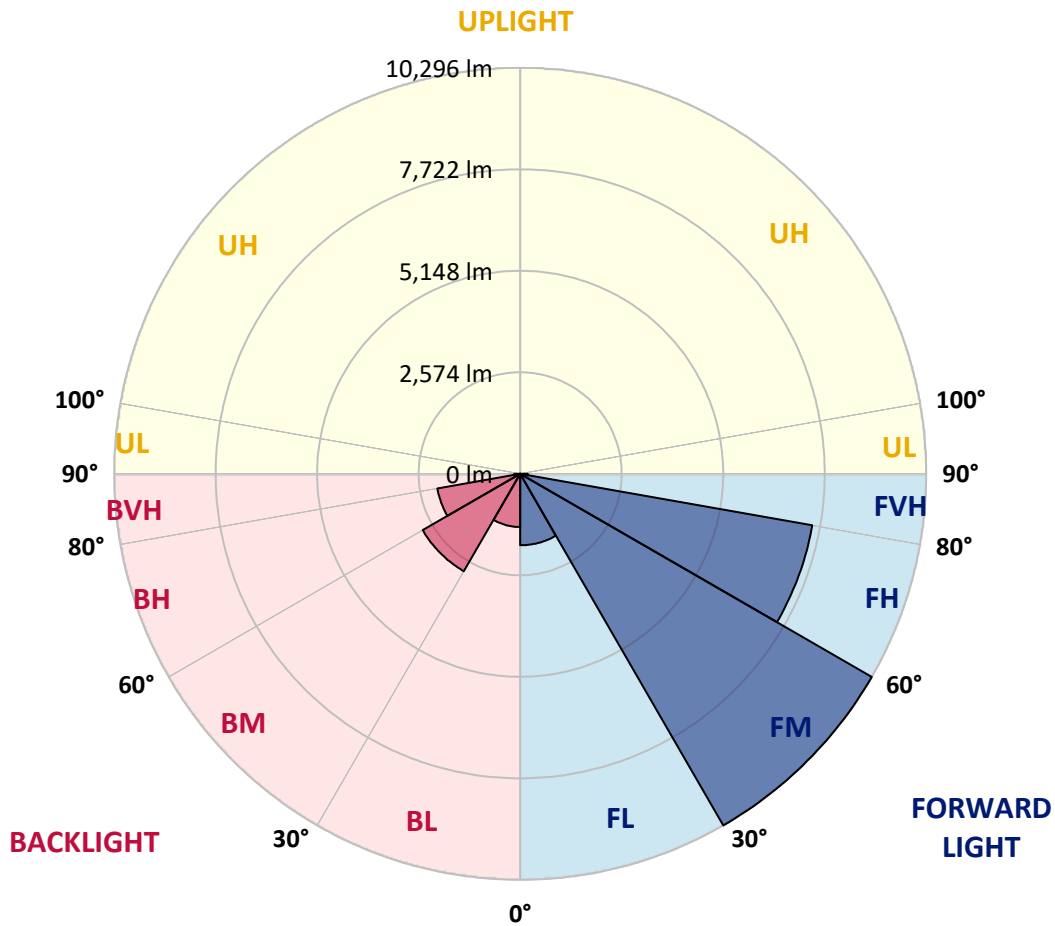
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1811.5	6.9			
FM (30°-60°)	10295.9	39.1			
FH (60°-80°)	7521.0	28.6			G4/12000
FVH (80°-90°)	192.6	0.7			G2/225
BL (0°-30°)	1349.1	5.1	B3/2500		
BM (30°-60°)	2853.2	10.8	B3/5000		
BH (60°-80°)	2131.3	8.1	B3/2500		G3/2500
BVH (80°-90°)	151.4	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	3856.8	3856.8	3856.8	3856.8	3856.8	3856.8	3856.8	3856.8	3856.8	3856.8
2.5°	3948.9	3971.2	3964.3	3957.3	3957.3	3947.5	3946.1	3932.2	3921.0	3902.9
5°	3999.2	4022.9	4020.1	4025.7	4043.8	4048.0	4052.2	4043.8	4021.5	3999.2
7.5°	3954.5	3981.0	3989.4	4022.9	4078.7	4129.0	4166.7	4182.0	4161.1	4129.0
10°	3803.7	3833.1	3862.4	3941.9	4041.0	4159.7	4260.2	4320.2	4316.0	4285.3
12.5°	3498.0	3528.8	3591.6	3746.5	3928.0	4137.4	4324.4	4450.0	4493.3	4471.0
15°	3253.8	3280.3	3327.8	3486.9	3722.8	4041.0	4348.1	4592.4	4702.7	4690.1
17.5°	3246.8	3258.0	3287.3	3362.7	3544.1	3890.3	4323.0	4732.0	4942.8	4941.4
20°	3369.6	3373.8	3390.6	3405.9	3509.2	3775.8	4258.8	4847.9	5212.2	5212.2
22.5°	3539.9	3537.1	3553.9	3539.9	3590.2	3766.1	4218.3	4949.8	5512.3	5534.6
25°	3795.4	3781.4	3777.2	3745.1	3754.9	3856.8	4263.0	5065.6	5868.2	5914.3
27.5°	4136.0	4113.6	4098.3	4024.3	3999.2	4043.8	4399.8	5205.2	6264.7	6344.2
30°	4579.8	4539.4	4517.0	4388.6	4297.9	4304.9	4606.4	5390.8	6679.2	6807.7
32.5°	5185.7	5122.8	5062.8	4852.0	4685.9	4631.5	4873.0	5647.7	7128.7	7333.9
35°	5864.0	5813.8	5749.6	5424.4	5168.9	5043.3	5233.1	6006.4	7655.0	7980.2
37.5°	6517.3	6474.0	6504.8	6066.5	5737.0	5554.2	5704.9	6488.0	8304.0	8784.2
40°	7192.9	7159.4	7163.6	6744.8	6361.0	6155.8	6277.2	7092.4	9048.0	9740.4
42.5°	7927.1	7902.0	7818.3	7447.0	7015.6	6824.4	6936.1	7790.3	9846.5	10829.2
45°	8749.3	8734.0	8655.8	8230.0	7735.9	7520.9	7671.7	8560.9	10649.1	11853.7
47.5°	9459.8	9472.4	9462.6	9103.9	8591.6	8276.1	8456.2	9364.9	11395.9	12816.9
50°	9801.8	9867.4	9963.7	9852.0	9533.8	9212.7	9247.6	10141.0	12107.8	13720.0
52.5°	9623.1	9747.4	10009.8	10188.5	10311.3	10244.3	10150.8	10911.5	12777.8	14535.2
55°	8957.3	9131.8	9567.3	9998.6	10625.4	11112.5	11235.4	11765.8	13431.1	15252.7
57.5°	7744.3	8027.6	8418.5	9290.9	10346.2	11532.7	12500.0	12950.9	14123.4	16019.0
60°	5664.4	6044.1	6529.9	7828.0	9369.1	11307.9	13576.2	14771.1	15107.5	17011.5
62.5°	3625.1	3859.6	4306.3	5529.0	7300.4	10156.3	13905.7	17046.4	16775.6	18639.1
65°	2481.9	2632.6	3041.6	3728.4	4719.4	7560.0	13023.5	18752.1	19424.9	21218.6
67.5°	1803.5	1917.9	2266.9	2868.5	3075.1	4473.8	10106.1	18673.9	22000.3	23876.4
70°	1314.9	1395.9	1689.0	2266.9	2366.0	2488.8	6122.3	15873.8	21944.5	24582.7
72.5°	974.3	1030.2	1227.0	1758.8	1915.1	1680.6	3030.4	11536.9	18856.8	22234.8
75°	704.9	746.8	892.0	1345.6	1532.7	1280.0	1511.7	6742.1	13153.3	15640.7
77.5°	538.8	570.9	665.8	985.5	1227.0	960.4	938.0	3101.6	6236.7	6267.5
80°	432.7	453.7	505.3	693.7	940.8	718.9	611.4	1252.1	1971.0	1668.1
82.5°	318.3	353.2	427.1	487.2	672.8	495.5	372.7	632.3	749.6	644.9
85°	181.5	205.2	258.2	349.0	429.9	302.9	213.6	280.6	349.0	286.2
87.5°	64.2	83.8	90.7	136.8	187.0	125.6	82.4	81.0	114.5	85.1
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°
3856.8	0°	3856.8	3856.8	3856.8	3856.8	3856.8	3856.8	3856.8	3856.8	3856.8	3856.8
3898.7	2.5°	3884.7	3877.7	3849.8	3812.1	3773.0	3735.3	3722.8	3696.3	3678.1	3668.3
3989.4	5°	3962.9	3940.5	3874.9	3791.2	3703.2	3608.3	3541.3	3479.9	3435.2	3393.4
4113.6	7.5°	4074.5	4035.5	3922.4	3775.8	3619.5	3461.8	3344.5	3255.2	3195.1	3156.1
4258.8	10°	4204.4	4144.3	3971.2	3752.1	3510.6	3284.5	3146.3	3069.5	3031.8	3010.9
4424.9	12.5°	4353.7	4268.6	4021.5	3697.7	3344.5	3086.3	2991.3	2969.0	2970.4	2971.8
4634.3	15°	4538.0	4419.3	4062.0	3579.0	3128.1	2934.1	2917.4	2953.7	2991.3	3009.5
4871.6	17.5°	4746.0	4578.5	4069.0	3383.6	2916.0	2836.4	2889.5	2967.6	3024.9	3050.0
5136.8	20°	4969.3	4740.4	4018.7	3107.2	2741.5	2756.8	2851.8	2952.3	3015.1	3047.2
5439.7	22.5°	5224.7	4913.5	3898.7	2816.9	2599.1	2670.3	2782.0	2879.7	2945.3	2977.4
5795.7	25°	5516.5	5107.5	3710.2	2572.6	2476.3	2572.6	2684.3	2765.2	2818.3	2847.6
6193.5	27.5°	5840.3	5309.9	3459.0	2378.6	2368.8	2472.1	2564.2	2627.0	2654.9	2677.3
6616.4	30°	6165.6	5494.1	3154.7	2232.0	2275.3	2373.0	2438.6	2466.5	2474.9	2479.1
7088.2	32.5°	6517.3	5653.3	2835.0	2110.6	2185.9	2276.7	2315.7	2328.3	2289.2	2262.7
7660.5	35°	6943.1	5823.6	2522.3	2014.2	2098.0	2176.2	2188.7	2177.6	2131.5	2077.1
8378.0	37.5°	7469.3	6035.7	2272.5	1945.8	2015.6	2067.3	2051.9	2049.1	2053.3	1989.1
9240.7	40°	8114.2	6312.1	2089.6	1892.8	1948.6	1959.8	1916.5	1940.3	1961.2	1863.5
10187.1	42.5°	8830.3	6645.7	1973.8	1856.5	1892.8	1866.3	1799.3	1825.8	1823.0	1694.6
11137.6	45°	9560.3	7008.7	1933.3	1830.0	1841.2	1788.1	1714.1	1721.1	1662.5	1546.6
12049.1	47.5°	10286.2	7398.1	1958.4	1807.7	1776.9	1716.9	1659.7	1629.0	1542.4	1455.9
12923.0	50°	10998.1	7807.1	2050.5	1763.0	1689.0	1654.1	1612.2	1557.8	1465.7	1391.7
13749.3	52.5°	11658.3	8218.9	2153.8	1689.0	1578.7	1599.7	1573.1	1510.3	1419.6	1344.2
14531.0	55°	12283.7	8630.7	2194.3	1587.1	1475.4	1552.2	1536.9	1421.0	1312.1	1250.7
15349.0	57.5°	12964.8	9126.2	2149.6	1457.3	1391.7	1497.8	1439.1	1310.7	1247.9	1201.8
16414.0	60°	13908.4	9903.7	2053.3	1296.8	1312.1	1416.8	1316.3	1263.3	1194.9	1143.2
18010.9	62.5°	15476.0	11354.0	1898.4	1137.6	1218.6	1296.8	1257.7	1204.6	1134.8	1084.6
20741.2	65°	17793.2	13369.6	1606.6	1013.4	1113.9	1179.5	1194.9	1141.8	1069.2	1016.2
23133.8	67.5°	19747.4	14634.3	1215.8	910.1	1006.4	1084.6	1127.9	1076.2	999.4	947.8
23693.5	70°	19639.9	13715.8	928.3	808.2	911.5	991.1	1046.9	1006.4	924.1	875.2
21521.5	72.5°	17444.2	11474.1	751.0	704.9	815.2	893.4	960.4	929.6	845.9	798.4
15766.4	75°	12815.5	8144.9	600.2	600.2	695.1	791.5	865.4	845.9	769.1	735.6
6619.2	77.5°	5402.0	3417.1	470.4	498.3	577.9	679.8	771.9	778.9	711.9	753.8
1750.4	80°	1436.4	942.2	358.7	392.2	453.7	561.1	671.4	668.6	596.0	557.0
650.5	82.5°	547.2	371.3	255.4	276.4	328.0	429.9	531.8	548.6	476.0	411.8
255.4	85°	210.8	159.1	157.7	166.1	191.2	284.8	402.0	416.0	358.7	304.3
71.2	87.5°	54.4	47.5	58.6	55.8	87.9	152.1	230.3	238.7	219.2	127.0
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°
3856.8
3679.5
3410.1
3164.4
3016.5
2974.6
3008.1
3055.6
3055.6
2985.8
2855.9
2685.7
2488.8
2271.1
2079.8
1993.3
1866.3
1693.2
1550.8
1455.9
1386.1
1345.6
1245.1
1197.7
1140.4
1084.6
1019.0
949.2
879.4
798.4
725.9
684.0
517.9
411.8
314.1
181.5
0.0

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