

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: P940695

Luminaire Tested: **GALN-SB3D-850-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940695
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-850-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28937 lumens
Efficiency: N/A
Efficacy: 132.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

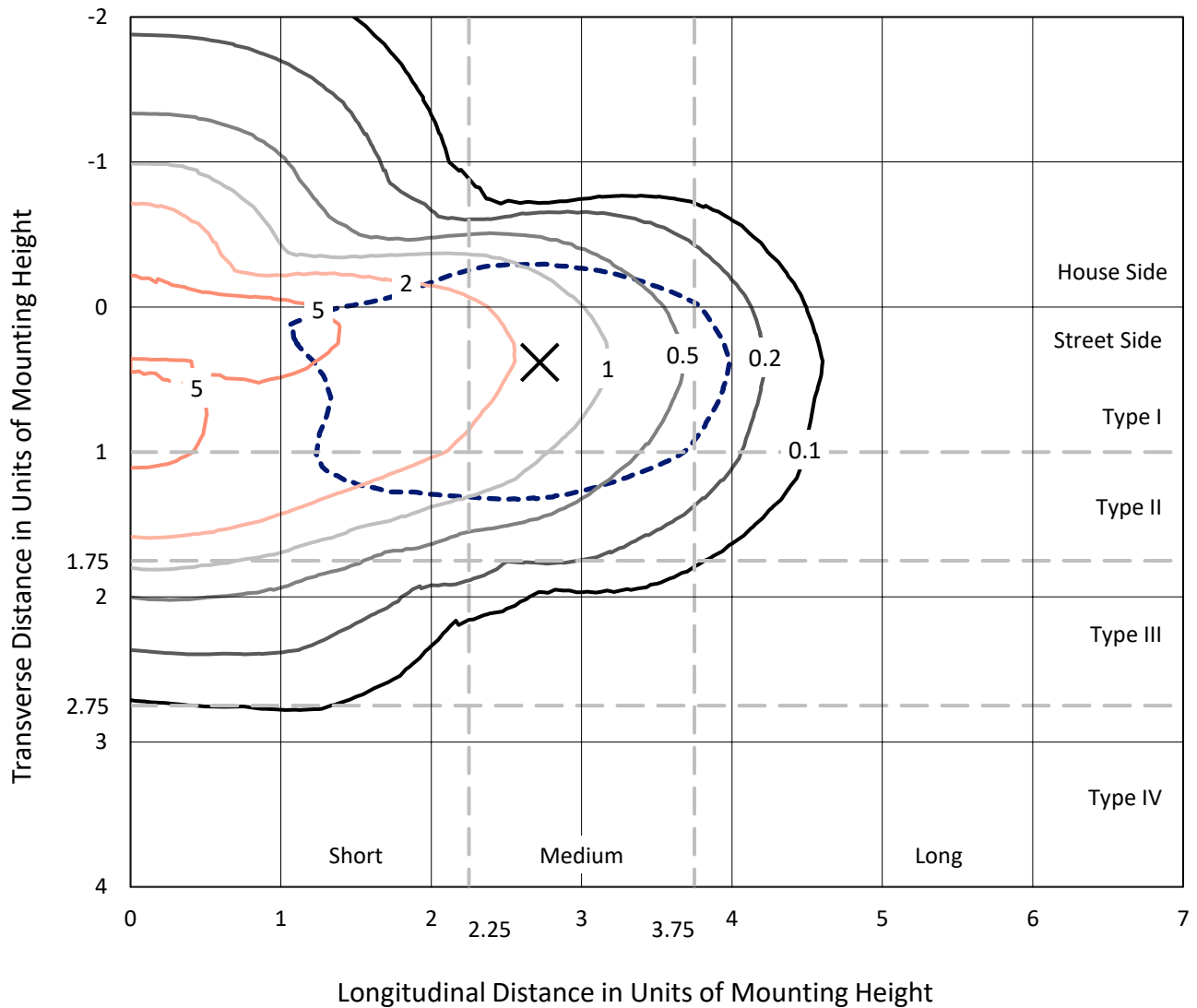
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

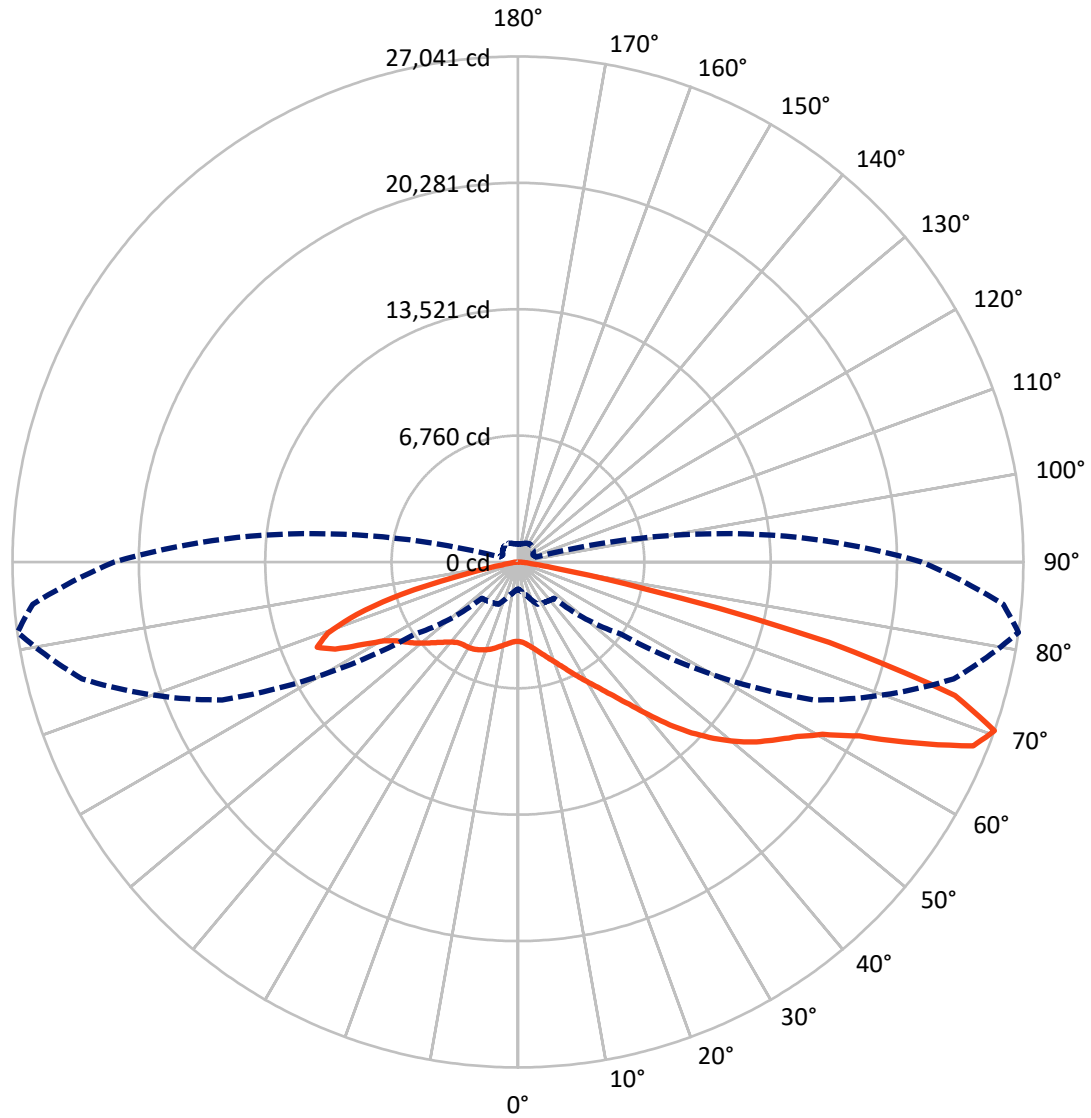
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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	7133.7	0.0	7133.7
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	21803.3	0.0	21803.3
	% Fixture	75.3	0.0	75.3
Total	Lumens	28937.0	0.0	28937.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	400.6	1.4
10°-20°	1150.9	4.0
20°-30°	1925.3	6.7
30°-40°	3007.8	10.4
40°-50°	4790.2	16.6
50°-60°	6666.2	23.0
60°-70°	6973.1	24.1
70°-80°	3644.5	12.6
80°-90°	378.4	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°	28937.0	100.0
0°-180°	28937.0	100.0

Coefficient of Utilization



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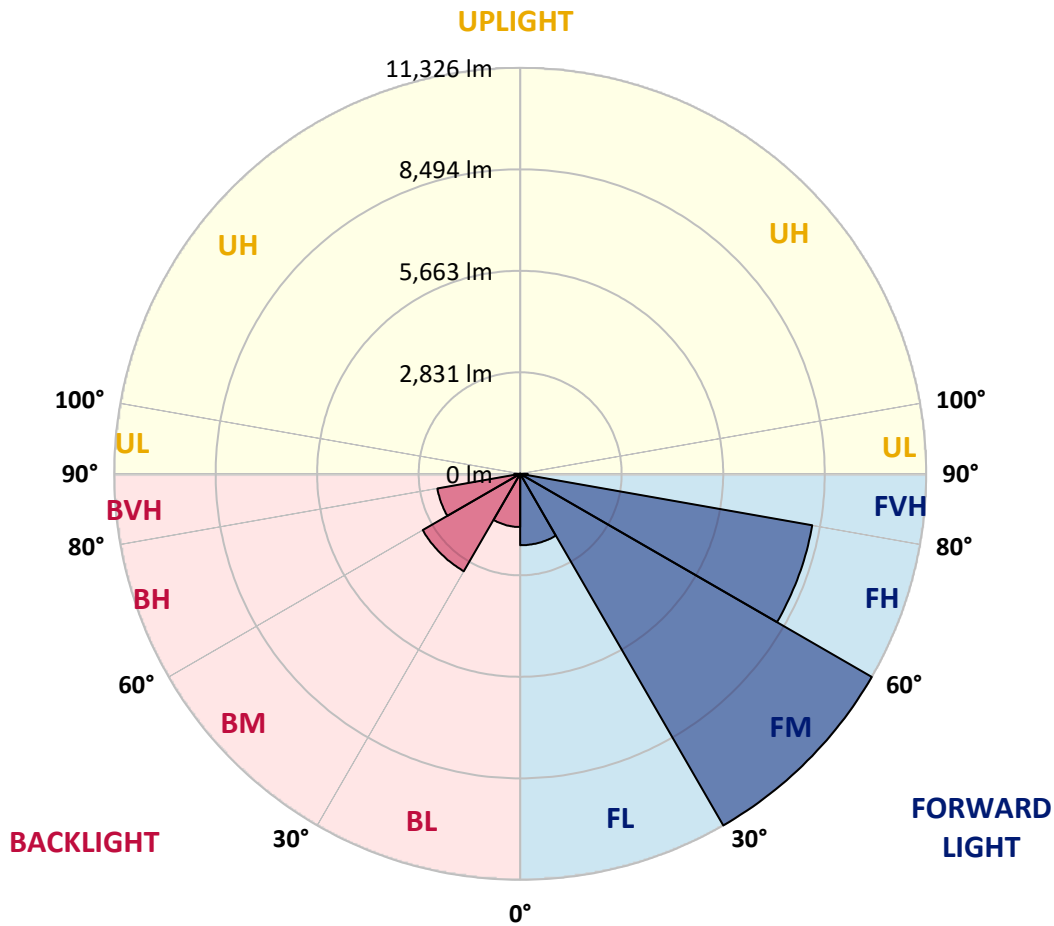
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1992.6	6.9			
FM (30°-60°)	11325.7	39.1			
FH (60°-80°)	8273.2	28.6			G4/12000
FVH (80°-90°)	211.9	0.7			G2/225
BL (0°-30°)	1484.1	5.1	B3/2500		
BM (30°-60°)	3138.5	10.8	B3/5000		
BH (60°-80°)	2344.5	8.1	B3/2500		G3/2500
BVH (80°-90°)	166.6	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°	4242.5	4242.5	4242.5	4242.5	4242.5	4242.5	4242.5	4242.5	4242.5	4242.5
2.5°	4343.9	4368.4	4360.8	4353.1	4353.1	4342.3	4340.8	4325.4	4313.2	4293.2
5°	4399.1	4425.2	4422.2	4428.3	4448.3	4452.9	4457.5	4448.3	4423.7	4399.1
7.5°	4350.0	4379.2	4388.4	4425.2	4486.7	4541.9	4583.4	4600.3	4577.3	4541.9
10°	4184.2	4216.4	4248.7	4336.2	4445.2	4575.7	4686.3	4752.3	4747.7	4713.9
12.5°	3847.9	3881.7	3950.8	4121.2	4320.8	4551.2	4756.9	4895.1	4942.7	4918.1
15°	3579.2	3608.4	3660.6	3835.6	4095.1	4445.2	4783.0	5051.7	5173.0	5159.2
17.5°	3571.5	3583.8	3616.1	3699.0	3898.6	4279.4	4755.4	5205.3	5437.1	5435.6
20°	3706.6	3711.3	3729.7	3746.6	3860.2	4153.5	4684.7	5332.7	5733.5	5733.5
22.5°	3894.0	3890.9	3909.3	3894.0	3949.2	4142.7	4640.2	5444.8	6063.6	6088.2
25°	4175.0	4159.6	4155.0	4119.7	4130.4	4242.5	4689.4	5572.3	6455.2	6505.8
27.5°	4549.6	4525.1	4508.2	4426.8	4399.1	4448.3	4839.8	5725.8	6891.2	6978.7
30°	5037.9	4993.4	4968.8	4827.5	4727.7	4735.4	5067.1	5930.0	7347.3	7488.5
32.5°	5704.3	5635.2	5569.2	5337.3	5154.6	5094.7	5360.4	6212.5	7841.7	8067.4
35°	6450.5	6395.3	6324.6	5966.9	5685.9	5547.7	5756.5	6607.2	8420.6	8778.3
37.5°	7169.1	7121.5	7155.3	6673.2	6310.8	6109.7	6275.5	7136.9	9134.6	9662.8
40°	7912.3	7875.5	7880.1	7419.4	6997.2	6771.5	6905.0	7801.8	9953.0	10714.6
42.5°	8720.0	8692.3	8600.2	8191.8	7717.3	7507.0	7629.8	8569.5	10831.3	11912.2
45°	9624.4	9607.5	9521.5	9053.2	8509.6	8273.2	8439.0	9417.1	11714.2	13039.3
47.5°	10405.9	10419.8	10409.0	10014.4	9450.9	9103.8	9301.9	10301.5	12535.6	14098.8
50°	10782.1	10854.3	10960.2	10837.4	10487.3	10134.2	10172.5	11155.2	13318.7	15092.2
52.5°	10585.6	10722.2	11010.9	11207.5	11342.6	11268.9	11166.0	12002.8	14055.8	15988.9
55°	9853.2	10045.1	10524.2	10998.6	11688.1	12223.9	12359.1	12942.5	14774.4	16778.2
57.5°	8518.8	8830.5	9260.5	10220.1	11381.0	12686.1	13750.2	14246.2	15536.0	17621.1
60°	6231.0	6648.6	7183.0	8611.0	10306.1	12438.9	14934.1	16248.4	16618.5	18712.9
62.5°	3987.6	4245.6	4736.9	6082.0	8030.6	11172.1	15296.4	18751.3	18453.4	20503.2
65°	2730.1	2895.9	3345.8	4101.3	5191.5	8316.1	14326.0	20627.6	21367.7	23340.8
67.5°	1983.8	2109.7	2493.6	3155.4	3382.7	4921.2	11116.9	20541.6	24200.7	26264.4
70°	1446.4	1535.5	1857.9	2493.6	2602.6	2737.8	6734.6	17461.5	24139.3	27041.3
72.5°	1071.8	1133.2	1349.7	1934.7	2106.7	1848.7	3333.5	12690.7	20742.8	24458.6
75°	775.4	821.5	981.2	1480.2	1686.0	1408.0	1662.9	7416.4	14468.8	17205.0
77.5°	592.7	628.0	732.4	1084.0	1349.7	1056.4	1031.8	3411.8	6860.5	6894.3
80°	476.0	499.0	555.8	763.1	1034.9	790.8	672.5	1377.3	2168.1	1834.9
82.5°	350.1	388.5	469.9	535.9	740.1	545.1	410.0	695.6	824.6	709.4
85°	199.6	225.7	284.1	383.9	472.9	333.2	234.9	308.6	383.9	314.8
87.5°	70.6	92.1	99.8	150.5	205.8	138.2	90.6	89.1	125.9	93.7
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°
4242.5	0°	4242.5	4242.5	4242.5	4242.5	4242.5	4242.5	4242.5	4242.5	4242.5	4242.5
4288.6	2.5°	4273.2	4265.6	4234.8	4193.4	4150.4	4108.9	4095.1	4065.9	4046.0	4035.2
4388.4	5°	4359.2	4334.7	4262.5	4170.4	4073.6	3969.2	3895.5	3827.9	3778.8	3732.7
4525.1	7.5°	4482.1	4439.1	4314.7	4153.5	3981.5	3808.0	3679.0	3580.7	3514.7	3471.7
4684.7	10°	4624.9	4558.8	4368.4	4127.4	3861.7	3613.0	3461.0	3376.5	3335.1	3312.0
4867.5	12.5°	4789.2	4695.5	4423.7	4067.5	3679.0	3394.9	3290.5	3266.0	3267.5	3269.0
5097.8	15°	4991.8	4861.3	4468.2	3937.0	3441.0	3227.6	3209.1	3249.1	3290.5	3310.5
5358.8	17.5°	5220.6	5036.4	4475.9	3722.0	3207.6	3120.1	3178.4	3264.4	3327.4	3355.0
5650.6	20°	5466.3	5214.5	4420.6	3418.0	3015.7	3032.6	3137.0	3247.5	3316.6	3351.9
5983.8	22.5°	5747.3	5404.9	4288.6	3098.6	2859.1	2937.4	3060.2	3167.7	3239.9	3275.2
6375.3	25°	6068.2	5618.3	4081.3	2829.9	2723.9	2829.9	2952.7	3041.8	3100.1	3132.4
6812.9	27.5°	6424.4	5841.0	3804.9	2616.5	2605.7	2719.3	2820.7	2889.8	2920.5	2945.0
7278.2	30°	6782.2	6043.6	3470.2	2455.2	2502.8	2610.3	2682.5	2713.2	2722.4	2727.0
7797.2	32.5°	7169.1	6218.7	3118.6	2321.6	2404.6	2504.4	2547.4	2561.2	2518.2	2489.0
8426.7	35°	7637.5	6406.0	2774.6	2215.7	2307.8	2393.8	2407.6	2395.3	2344.7	2284.8
9215.9	37.5°	8216.3	6639.4	2499.8	2140.5	2217.2	2274.0	2257.2	2254.1	2258.7	2188.1
10164.9	40°	8925.7	6943.4	2298.6	2082.1	2143.5	2155.8	2108.2	2134.3	2157.3	2049.9
11205.9	42.5°	9713.4	7310.4	2171.2	2042.2	2082.1	2052.9	1979.2	2008.4	2005.3	1864.1
12251.6	45°	10516.5	7709.6	2126.6	2013.0	2025.3	1966.9	1885.6	1893.2	1828.8	1701.3
13254.2	47.5°	11314.9	8138.0	2154.3	1988.4	1954.7	1888.6	1825.7	1791.9	1696.7	1601.5
14215.5	50°	12098.0	8587.9	2255.6	1939.3	1857.9	1819.5	1773.5	1713.6	1612.3	1530.9
15124.5	52.5°	12824.3	9040.9	2369.2	1857.9	1736.6	1759.7	1730.5	1661.4	1561.6	1478.7
15984.3	55°	13512.2	9493.9	2413.8	1745.8	1623.0	1707.5	1690.6	1563.1	1443.3	1375.8
16884.1	57.5°	14261.5	10039.0	2364.6	1603.0	1530.9	1647.6	1583.1	1441.8	1372.7	1322.0
18055.7	60°	15299.5	10894.2	2258.7	1426.5	1443.3	1558.5	1448.0	1389.6	1314.4	1257.6
19812.3	62.5°	17023.8	12489.6	2088.3	1251.4	1340.5	1426.5	1383.5	1325.1	1248.3	1193.1
22815.7	65°	19572.7	14706.8	1767.3	1114.8	1225.3	1297.5	1314.4	1256.0	1176.2	1117.8
25447.5	67.5°	21722.4	16098.0	1337.4	1001.1	1107.1	1193.1	1240.7	1183.9	1099.4	1042.6
26063.2	70°	21604.2	15087.6	1021.1	889.0	1002.7	1090.2	1151.6	1107.1	1016.5	962.7
23674.0	72.5°	19188.9	12621.6	826.1	775.4	896.7	982.7	1056.4	1022.6	930.5	878.3
17343.2	75°	14097.2	8959.5	660.3	660.3	764.7	870.6	952.0	930.5	846.0	809.2
7281.2	77.5°	5942.3	3758.9	517.5	548.2	635.7	747.8	849.1	856.8	783.1	829.2
1925.5	80°	1580.0	1036.4	394.6	431.5	499.0	617.3	738.6	735.5	655.6	612.7
715.5	82.5°	601.9	408.4	281.0	304.0	360.8	472.9	585.0	603.4	523.6	453.0
281.0	85°	231.9	175.0	173.5	182.7	210.4	313.2	442.2	457.6	394.6	334.7
78.3	87.5°	59.9	52.2	64.5	61.4	96.7	167.4	253.4	262.6	241.1	139.7
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>
4242.5
4047.5
3751.2
3480.9
3318.2
3272.1
3309.0
3361.2
3361.2
3284.4
3141.6
2954.3
2737.8
2498.2
2287.9
2192.7
2052.9
1862.5
1705.9
1601.5
1524.7
1480.2
1369.6
1317.4
1254.5
1193.1
1120.9
1044.1
967.4
878.3
798.4
752.4
569.7
453.0
345.5
199.6
0.0

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