

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: P951969

Luminaire Tested: **GALN-SB5D-950-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951969
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-SB5D-950-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35689 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

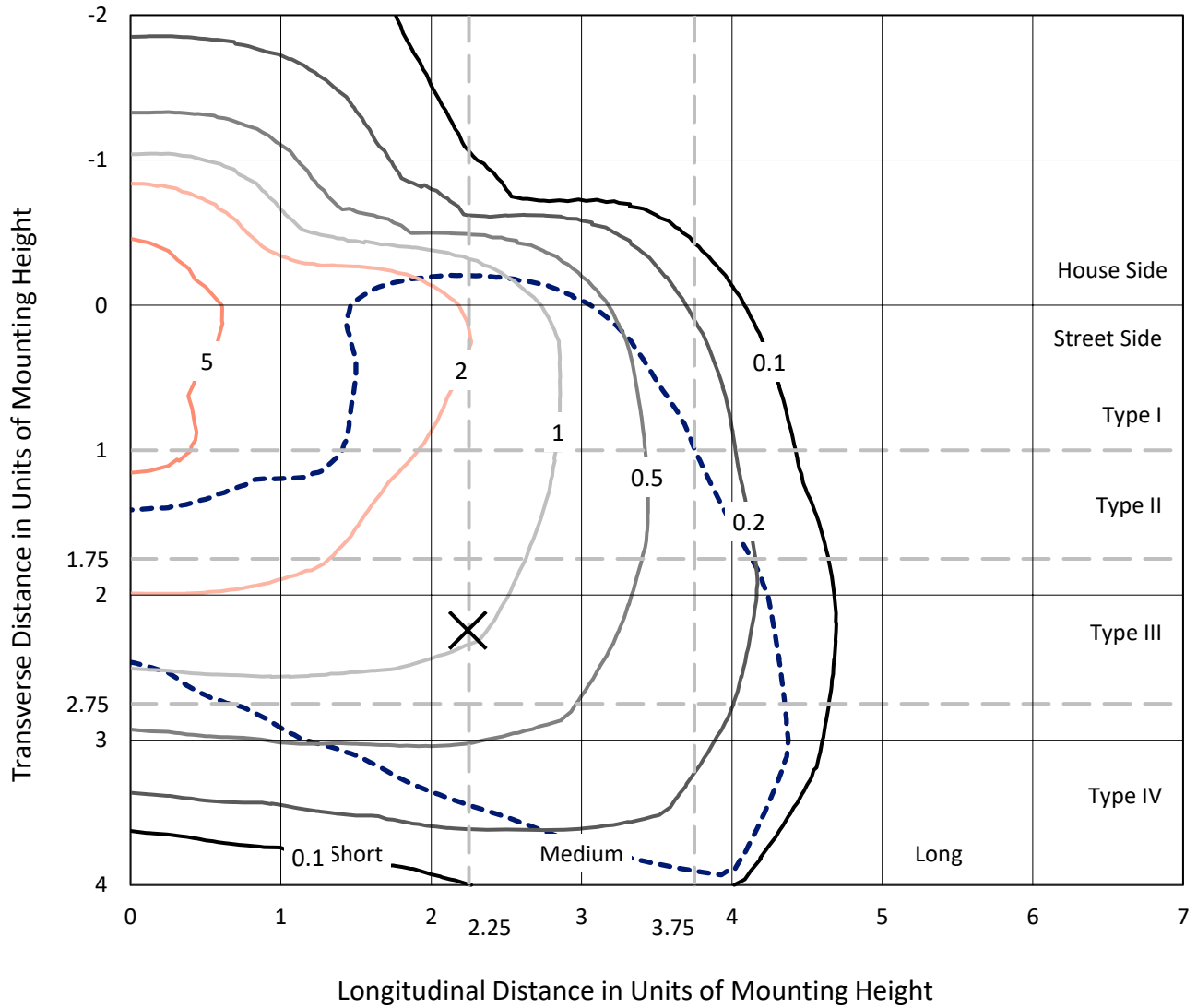
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

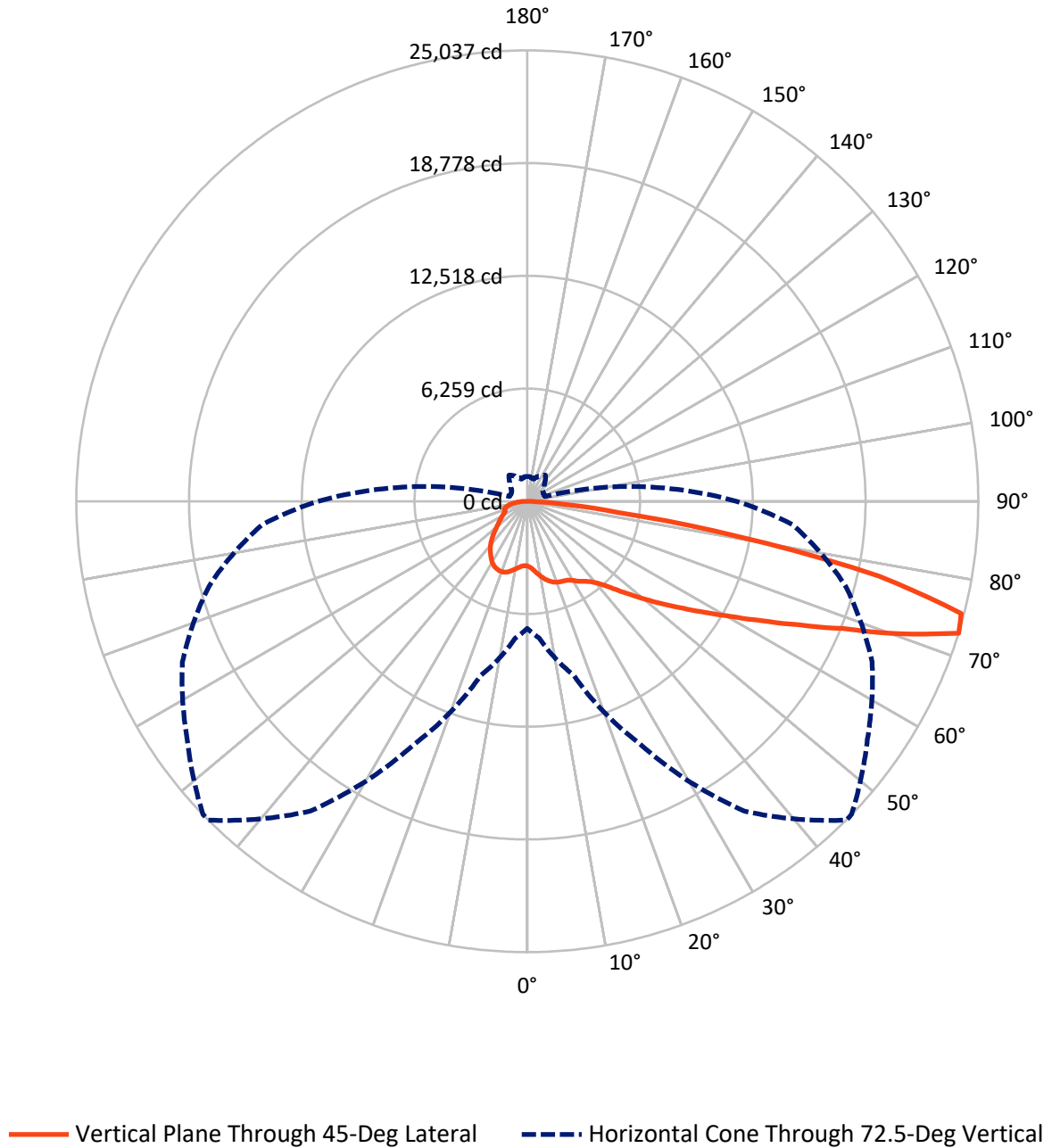
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8068.1	0.0	8068.1
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	27620.9	0.0	27620.9
	% Fixture	77.4	0.0	77.4
Total	Lumens	35689.0	0.0	35689.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.4	1.0
10°-20°	1221.8	3.4
20°-30°	2125.3	6.0
30°-40°	3046.8	8.5
40°-50°	4290.0	12.0
50°-60°	6571.1	18.4
60°-70°	9519.2	26.7
70°-80°	7601.6	21.3
80°-90°	946.7	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°	35689.0	100.0
0°-180°	35689.0	100.0

Coefficient of Utilization



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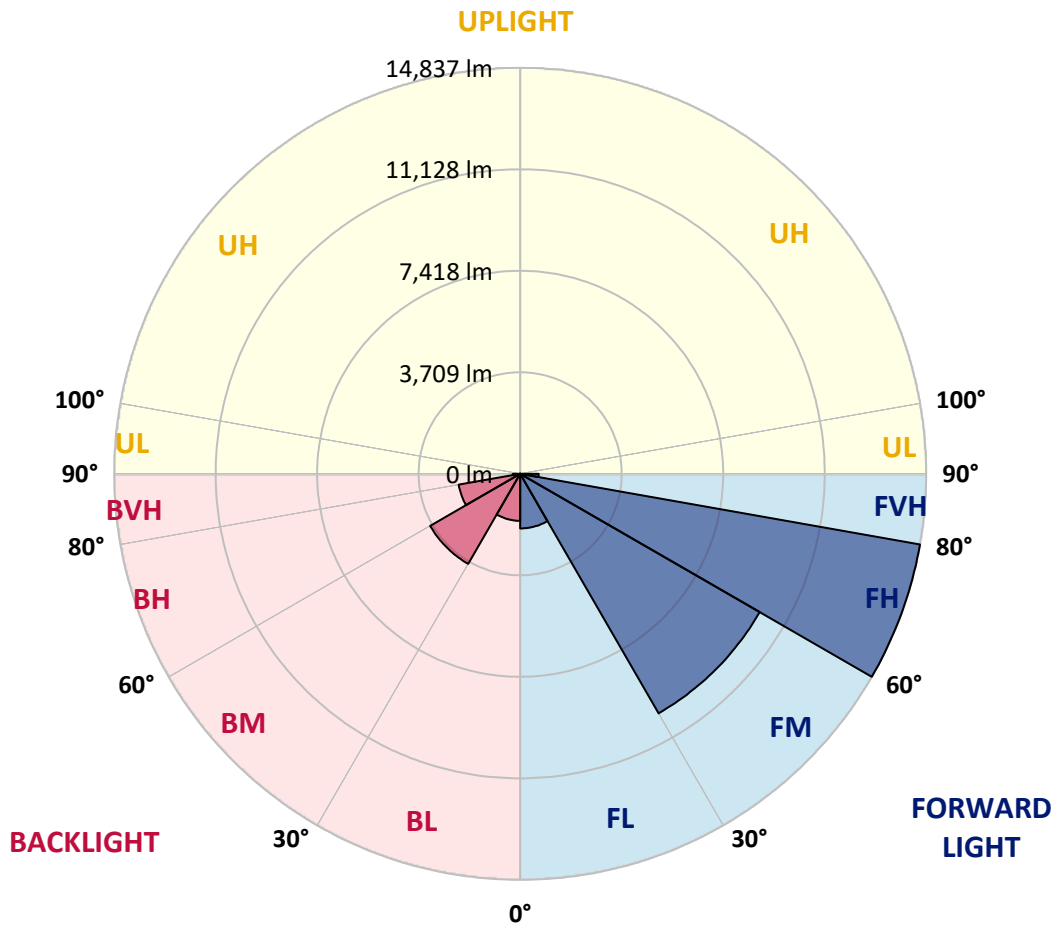
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1995.8	5.6			
FM (30°-60°)	10109.0	28.3			
FH (60°-80°)	14837.0	41.6			G5
FVH (80°-90°)	679.2	1.9			G4/750
BL (0°-30°)	1717.8	4.8	B3/2500		
BM (30°-60°)	3798.9	10.6	B3/5000		
BH (60°-80°)	2283.9	6.4	B3/2500		G3/2500
BVH (80°-90°)	267.5	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	3600.3	3600.3	3600.3	3600.3	3600.3	3600.3	3600.3	3600.3	3600.3	3600.3
2.5°	3741.3	3765.8	3743.2	3722.5	3713.1	3688.7	3686.8	3671.8	3662.4	3636.0
5°	4002.7	4034.6	3997.0	3955.7	3918.1	3857.9	3850.4	3807.1	3758.3	3701.8
7.5°	4297.8	4326.0	4282.8	4220.7	4154.9	4055.3	4053.4	3974.5	3897.4	3801.5
10°	4555.4	4593.0	4534.7	4450.1	4367.4	4254.6	4241.4	4151.2	4053.4	3929.3
12.5°	4782.9	4809.2	4752.8	4649.4	4553.5	4440.7	4423.8	4324.2	4215.1	4074.1
15°	4963.4	4997.2	4922.0	4811.1	4709.6	4598.6	4583.6	4493.4	4384.3	4235.8
17.5°	5081.8	5110.0	5032.9	4908.9	4811.1	4719.0	4707.7	4632.5	4536.6	4386.2
20°	5126.9	5157.0	5076.2	4950.2	4860.0	4788.5	4782.9	4728.4	4662.6	4525.3
22.5°	5172.1	5200.3	5095.0	4963.4	4884.4	4839.3	4837.4	4801.7	4775.4	4662.6
25°	5354.4	5361.9	5220.9	5031.1	4918.3	4878.8	4876.9	4875.0	4886.3	4797.9
27.5°	5512.4	5510.5	5390.1	5211.5	5036.7	4954.0	4952.1	4970.9	5006.6	4933.3
30°	5743.6	5722.9	5580.0	5393.9	5234.1	5106.3	5095.0	5078.1	5106.3	5048.0
32.5°	6234.3	6168.5	5937.2	5606.4	5397.7	5299.9	5284.9	5179.6	5190.9	5155.1
35°	6937.4	6851.0	6542.6	6008.7	5600.7	5461.6	5454.1	5320.6	5298.0	5266.1
37.5°	7774.1	7666.9	7307.8	6591.5	5950.4	5649.6	5638.3	5518.0	5425.9	5392.0
40°	8614.5	8479.1	8182.0	7302.2	6465.5	5963.6	5927.8	5745.5	5640.2	5583.8
42.5°	9430.4	9317.6	9063.8	8099.3	7101.0	6422.3	6343.3	6031.3	5952.3	5899.6
45°	10152.4	10050.8	9864.7	8951.0	7845.5	7046.5	6969.4	6459.9	6435.5	6435.5
47.5°	10738.9	10716.4	10519.0	9819.6	8723.5	7757.2	7623.7	7055.9	7121.7	7223.2
50°	11389.4	11327.4	11116.8	10675.0	9755.7	8571.2	8462.2	7787.2	8033.5	8311.8
52.5°	11987.3	12021.1	11786.1	11566.2	10921.3	9479.3	9287.5	8650.2	9182.2	9642.9
55°	12602.1	12604.0	12538.2	12508.1	12143.3	10483.2	10272.7	9688.0	10534.0	11105.5
57.5°	13179.3	13183.0	13280.8	13545.9	13560.9	11641.4	11402.6	10962.7	12036.2	12619.0
60°	13694.4	13720.7	13987.7	14608.1	14807.4	12968.7	12743.1	12468.6	13589.1	14175.7
62.5°	13867.4	13963.2	14557.3	15439.1	16038.8	14596.8	14375.0	14211.4	15221.0	15766.2
65°	13574.1	13794.0	14942.8	16125.3	17306.0	16531.4	16311.4	16132.8	16916.8	17430.1
67.5°	12854.0	13137.9	14920.2	16845.4	18843.9	18858.9	18654.0	18234.8	18734.9	18932.3
70°	10957.0	11381.9	13606.0	17114.2	20609.3	22041.9	21844.5	20765.3	20549.1	19594.0
72.5°	7059.6	7631.2	10018.9	14901.4	21002.2	25036.8	25025.6	23049.6	21122.5	18308.1
75°	2575.7	2925.4	4655.0	9353.3	17629.4	24884.5	24957.9	22658.5	19282.0	14141.9
77.5°	938.2	1026.5	1519.1	3594.7	10842.3	19966.3	20118.6	18114.4	13724.5	7097.2
80°	492.6	541.5	778.3	1395.0	4645.6	11857.6	12096.3	10765.3	6450.5	2137.6
82.5°	272.6	295.2	436.2	757.7	2092.5	5070.5	5213.4	4252.7	2269.2	906.2
85°	146.6	156.0	204.9	413.6	1022.8	1757.9	1797.3	1270.9	904.3	532.1
87.5°	43.2	52.6	67.7	131.6	400.5	394.8	404.2	251.9	357.2	268.8
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°
3600.3	0°	3600.3	3600.3	3600.3	3600.3	3600.3	3600.3	3600.3	3600.3	3600.3	3600.3
3628.5	2.5°	3617.2	3611.6	3590.9	3581.5	3570.2	3568.4	3577.8	3579.6	3581.5	3583.4
3669.9	5°	3651.1	3632.3	3613.5	3602.2	3606.0	3607.8	3626.6	3639.8	3649.2	3656.7
3747.0	7.5°	3716.9	3701.8	3669.9	3668.0	3673.6	3690.6	3715.0	3745.1	3762.0	3775.2
3846.6	10°	3814.7	3786.5	3748.9	3754.5	3765.8	3790.2	3841.0	3865.4	3893.6	3918.1
3968.8	12.5°	3914.3	3889.9	3846.6	3850.4	3869.2	3912.4	3961.3	3991.4	4010.2	4029.0
4100.4	15°	4044.0	4000.8	3953.8	3953.8	3987.6	4034.6	4057.2	4081.6	4092.9	4113.6
4241.4	17.5°	4177.5	4121.1	4059.1	4055.3	4096.7	4119.2	4132.4	4136.1	4139.9	4162.5
4378.7	20°	4311.0	4248.9	4160.6	4153.1	4162.5	4158.7	4156.8	4153.1	4158.7	4186.9
4519.7	22.5°	4442.6	4371.2	4248.9	4215.1	4188.8	4153.1	4151.2	4149.3	4153.1	4181.3
4672.0	25°	4596.8	4510.3	4346.7	4245.2	4156.8	4107.9	4113.6	4115.5	4119.2	4141.8
4829.9	27.5°	4764.1	4668.2	4437.0	4235.8	4076.0	4042.1	4032.7	4038.4	4051.5	4087.3
4987.8	30°	4931.4	4818.6	4519.7	4198.2	3974.5	3927.5	3897.4	3910.5	3951.9	3987.6
5125.1	32.5°	5083.7	4970.9	4585.5	4115.5	3844.7	3771.4	3731.9	3748.9	3790.2	3803.4
5277.3	35°	5262.3	5134.5	4613.7	3983.9	3703.7	3590.9	3538.3	3513.8	3534.5	3521.4
5456.0	37.5°	5461.6	5328.1	4609.9	3810.9	3538.3	3408.6	3335.2	3243.1	3199.9	3154.7
5719.2	40°	5756.8	5565.0	4564.8	3602.2	3333.4	3214.9	3083.3	2927.3	2829.5	2741.1
6144.1	42.5°	6159.1	5894.0	4482.1	3372.8	3102.1	2991.2	2812.6	2630.2	2476.0	2329.4
6788.9	45°	6758.8	6324.5	4378.7	3128.4	2852.1	2743.0	2549.4	2344.4	2169.6	1981.6
7704.5	47.5°	7623.7	6903.6	4280.9	2850.2	2588.9	2489.2	2314.4	2124.5	1917.7	1735.3
9028.1	50°	8811.9	7734.6	4190.7	2579.4	2329.4	2254.2	2115.1	1921.4	1712.7	1566.1
10579.1	52.5°	10323.4	8864.5	4153.1	2318.1	2086.9	2058.7	1947.7	1767.3	1569.9	1445.8
12387.8	55°	12058.7	10216.3	4153.1	2068.1	1874.4	1883.8	1806.7	1639.4	1468.3	1357.4
14252.8	57.5°	13829.8	11585.0	4077.9	1836.8	1693.9	1733.4	1684.5	1537.9	1383.7	1269.0
16213.7	60°	15461.7	12731.8	3773.3	1626.3	1534.1	1596.2	1564.2	1438.3	1250.2	1154.4
17853.1	62.5°	16715.7	13378.5	3186.7	1458.9	1402.5	1474.0	1457.1	1306.6	1225.8	1186.3
19199.2	65°	17343.6	13273.3	2436.6	1310.4	1291.6	1402.5	1366.8	1361.2	1297.2	1252.1
19637.3	67.5°	16958.2	12367.1	1767.3	1201.4	1227.7	1336.7	1474.0	1496.5	1378.1	1289.7
18404.0	70°	15268.0	10727.7	1316.0	1098.0	1146.8	1338.6	1680.8	1566.1	1351.8	1248.4
14760.4	72.5°	11615.0	7999.7	1020.9	988.9	1041.6	1348.0	1772.9	1534.1	1276.6	1380.0
9195.4	75°	6642.3	4391.8	819.7	855.4	910.0	1259.6	1725.9	1451.4	1218.3	1267.2
3643.6	77.5°	2532.4	1688.3	676.8	723.8	731.3	1099.8	1650.7	1445.8	1160.0	1131.8
1092.3	80°	878.0	659.9	560.3	575.3	565.9	977.6	1583.0	1257.8	949.4	849.8
451.2	82.5°	359.1	329.0	443.7	424.9	402.3	759.5	1278.4	1028.4	776.5	686.2
218.1	85°	156.0	208.7	293.3	257.6	233.1	526.4	1024.6	870.5	656.1	565.9
71.4	87.5°	32.0	79.0	124.1	116.6	120.3	351.6	727.6	618.5	464.4	347.8
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°
3600.3
3590.9
3660.5
3778.9
3912.4
4036.5
4121.1
4170.0
4198.2
4200.1
4171.9
4123.0
4027.1
3850.4
3562.7
3183.0
2746.8
2316.2
1959.0
1714.6
1556.7
1436.4
1346.1
1250.2
1139.3
1173.2
1237.1
1274.7
1231.4
1368.7
1267.2
1032.2
821.6
678.7
564.0
272.6
0.0

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