

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: P951610

Luminaire Tested: **GALN-SB5C-950-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951610
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5C-950-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27017 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

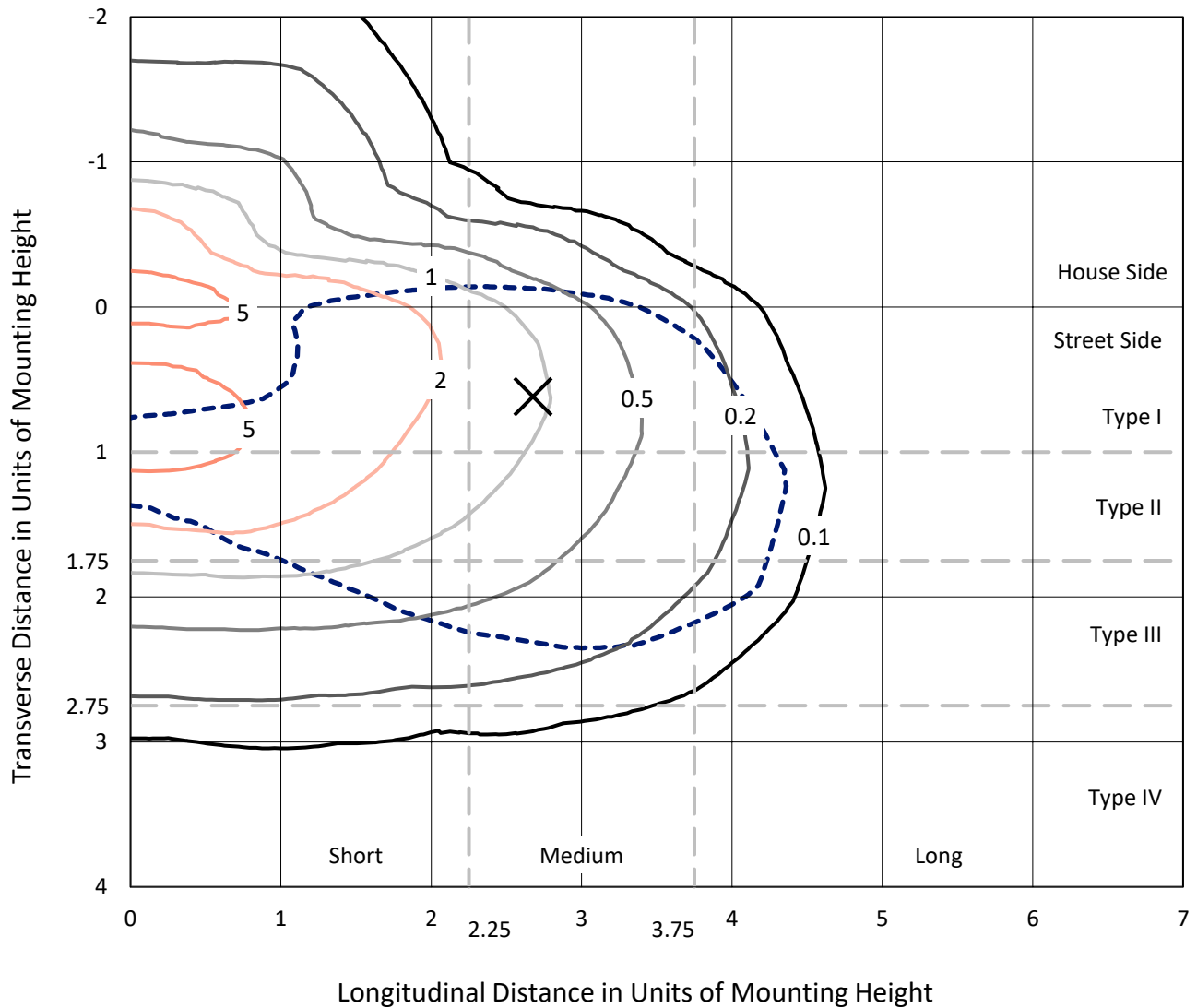
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

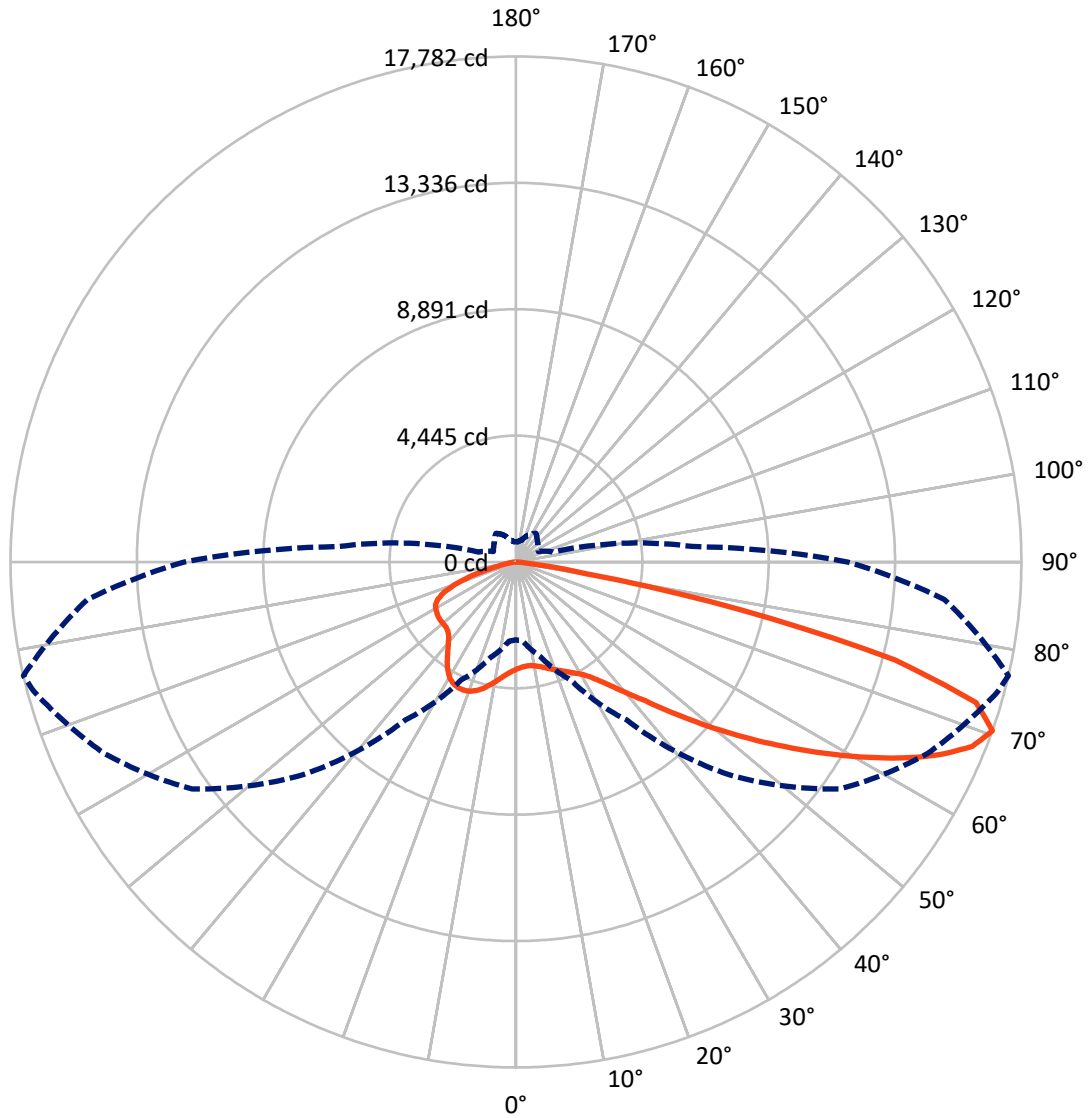
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5916.3	0.0	5916.3
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	21100.7	0.0	21100.7
	% Fixture	78.1	0.0	78.1
Total	Lumens	27017.0	0.0	27017.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.5	1.3
10°-20°	1037.5	3.8
20°-30°	1774.2	6.6
30°-40°	2853.1	10.6
40°-50°	4454.5	16.5
50°-60°	5950.1	22.0
60°-70°	6341.9	23.5
70°-80°	3904.0	14.5
80°-90°	342.1	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°	27017.0	100.0
0°-180°	27017.0	100.0

Coefficient of Utilization



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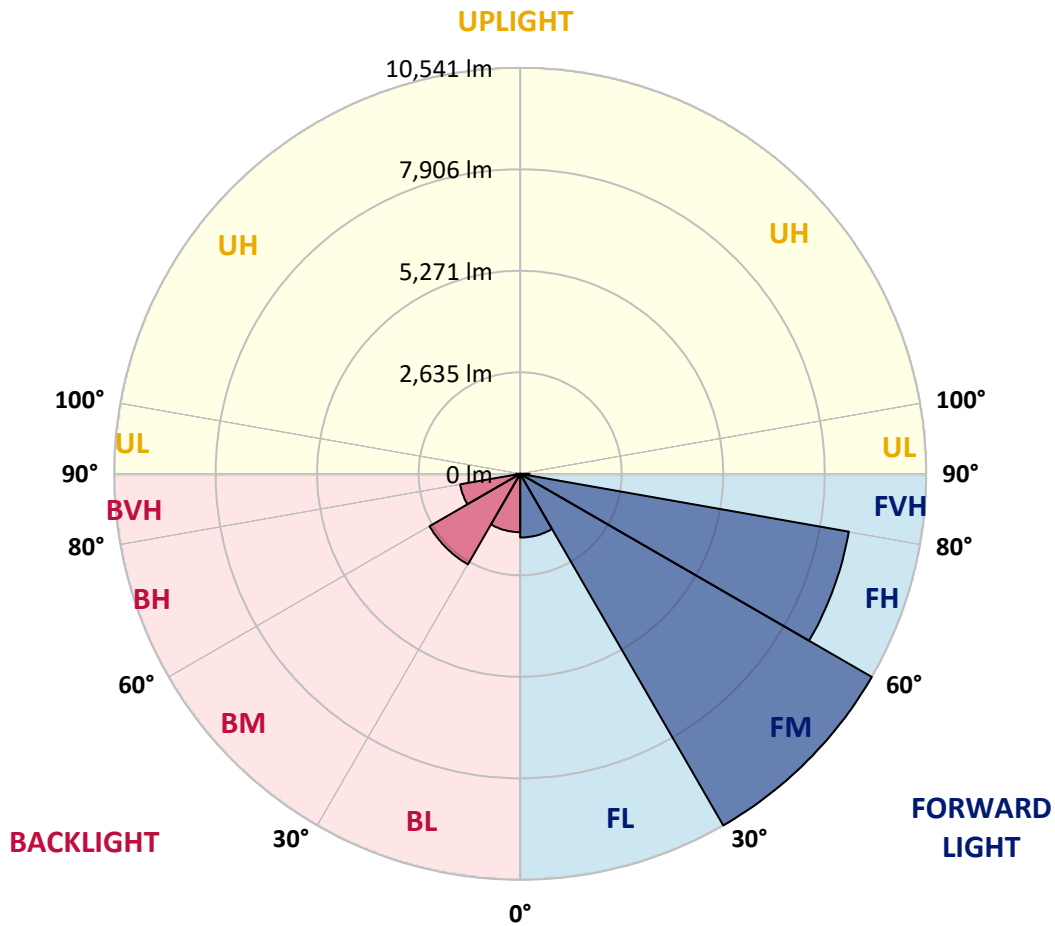
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1655.2	6.1			
FM (30°-60°)	10541.4	39.0			
FH (60°-80°)	8664.8	32.1			G4/12000
FVH (80°-90°)	239.2	0.9			G3/500
BL (0°-30°)	1515.9	5.6	B3/2500		
BM (30°-60°)	2716.3	10.1	B3/5000		
BH (60°-80°)	1581.2	5.9	B3/2500		G3/2500
BVH (80°-90°)	102.9	0.4			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3769.1	3769.1	3769.1	3769.1	3769.1	3769.1	3769.1	3769.1	3769.1	3769.1
2.5°	3474.4	3473.0	3491.0	3496.5	3529.7	3553.3	3597.5	3644.6	3705.5	3712.4
5°	3273.8	3273.8	3294.5	3316.7	3359.6	3406.6	3474.4	3556.0	3661.2	3677.8
7.5°	3103.6	3114.6	3132.6	3175.5	3225.3	3293.1	3396.9	3513.1	3651.5	3677.8
10°	2966.6	2979.0	3001.2	3035.8	3110.5	3204.6	3340.2	3489.6	3675.0	3716.5
12.5°	2923.7	2936.1	2948.6	2974.9	3044.1	3154.8	3316.7	3500.7	3731.8	3773.3
15°	3023.3	3038.5	3028.9	3021.9	3057.9	3158.9	3327.7	3540.8	3802.3	3861.8
17.5°	3253.0	3258.5	3236.4	3171.4	3165.8	3219.8	3380.3	3596.2	3890.9	3955.9
20°	3623.8	3614.1	3568.5	3439.8	3366.5	3355.4	3470.2	3679.2	3982.2	4051.4
22.5°	4127.5	4116.4	4025.1	3821.7	3658.4	3550.5	3600.3	3787.1	4084.6	4162.1
25°	4755.7	4740.5	4606.2	4329.5	4076.3	3809.2	3777.4	3929.6	4210.5	4282.5
27.5°	5489.0	5476.6	5331.3	4966.0	4600.7	4163.5	3997.4	4097.0	4342.0	4423.6
30°	6277.7	6313.7	6056.3	5663.4	5201.2	4625.6	4293.5	4303.2	4512.1	4585.5
32.5°	7204.8	7267.0	6957.1	6459.0	5828.0	5127.9	4667.1	4591.0	4759.8	4820.7
35°	8123.5	8194.1	7936.7	7386.0	6659.6	5720.1	5057.3	4921.7	5089.1	5155.6
37.5°	8917.8	9011.8	8879.0	8400.3	7549.3	6434.1	5566.5	5310.5	5494.6	5577.6
40°	9544.6	9688.5	9678.8	9379.9	8598.1	7300.2	6212.7	5790.7	5998.2	6088.1
42.5°	10053.7	10178.3	10286.2	10271.0	9692.6	8284.0	6972.3	6414.7	6572.4	6676.2
45°	10405.2	10538.0	10770.5	11020.9	10745.6	9337.0	7842.6	7155.0	7298.9	7455.2
47.5°	10719.3	10870.1	11171.8	11568.9	11639.4	10394.1	8796.0	8017.0	8148.4	8310.3
50°	10747.0	10877.0	11344.7	11907.9	12274.5	11409.7	9819.9	8984.2	9107.3	9280.3
52.5°	10078.7	10283.4	11099.8	11898.2	12566.5	12259.3	10836.9	9990.1	10128.5	10336.0
55°	7823.3	8123.5	10381.7	11527.4	12462.7	12808.6	11804.1	11059.7	11236.8	11454.0
57.5°	6738.5	6869.9	8241.1	10852.1	11989.5	12951.2	12620.5	12140.3	12425.4	12663.4
60°	6056.3	6165.6	6976.5	9801.9	11366.9	12725.6	13251.4	13147.6	13640.2	13923.9
62.5°	5325.7	5429.5	6167.0	8184.4	10569.9	12350.6	13649.9	14077.5	14885.5	15195.5
65°	4600.7	4689.3	5396.3	6876.8	9557.0	11975.7	13856.1	14881.4	16038.1	16359.1
67.5°	3792.6	3866.0	4534.3	5801.7	8325.5	11462.3	13958.5	15513.7	17041.3	17316.6
70°	2736.9	2793.6	3484.1	4588.3	6780.0	10579.5	13917.0	15962.0	17561.5	17781.5
72.5°	1293.7	1344.9	2155.8	2979.0	4788.9	8861.0	13077.1	15606.4	17033.0	16923.7
75°	690.5	734.7	1238.4	1634.1	2529.3	6074.3	10701.3	13443.7	14303.0	13771.7
77.5°	467.7	502.3	766.6	981.0	1155.4	2883.6	6878.2	9308.0	8955.1	8077.9
80°	370.8	406.8	628.2	664.2	559.0	1041.9	2842.1	4308.7	3095.3	2475.4
82.5°	285.0	325.2	528.6	481.5	304.4	427.6	827.4	1362.9	792.8	603.3
85°	174.3	217.2	415.1	307.2	171.6	195.1	280.9	379.1	242.1	202.0
87.5°	88.6	124.5	210.3	112.1	77.5	45.7	74.7	74.7	63.6	55.3
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°
3769.1	0°	3769.1	3769.1	3769.1	3769.1	3769.1	3769.1	3769.1	3769.1	3769.1	3769.1
3749.7	2.5°	3783.0	3810.6	3857.7	3902.0	3936.5	3969.8	4003.0	4020.9	4026.5	4048.6
3770.5	5°	3827.2	3878.4	3969.8	4055.5	4109.5	4142.7	4166.2	4180.1	4182.8	4189.8
3827.2	7.5°	3908.9	3990.5	4117.8	4203.6	4243.7	4240.9	4231.3	4196.7	4182.8	4170.4
3910.3	10°	4023.7	4131.6	4288.0	4347.5	4322.6	4256.2	4170.4	4069.4	4022.3	3976.7
4023.7	12.5°	4166.2	4303.2	4456.8	4454.0	4330.9	4160.7	3961.4	3806.5	3708.2	3637.7
4163.5	15°	4339.2	4496.9	4614.5	4520.5	4250.6	3944.8	3652.9	3450.9	3362.3	3284.8
4304.6	17.5°	4517.7	4686.5	4740.5	4499.7	4048.6	3625.2	3294.5	3135.4	3048.2	3006.7
4456.8	20°	4692.0	4859.5	4815.2	4380.7	3741.4	3262.7	2968.0	2880.8	2862.8	2872.5
4604.9	22.5°	4876.1	5025.5	4830.4	4151.0	3349.9	2891.9	2730.0	2732.7	2772.9	2801.9
4759.8	25°	5064.2	5165.2	4790.3	3818.9	2929.2	2619.3	2579.2	2623.4	2702.3	2759.0
4934.2	27.5°	5245.5	5289.8	4703.1	3408.0	2568.1	2424.2	2431.1	2522.4	2641.4	2720.3
5145.9	30°	5450.3	5400.5	4535.7	2945.8	2317.6	2256.8	2314.9	2421.4	2540.4	2611.0
5412.9	32.5°	5681.4	5495.9	4270.0	2518.3	2140.5	2122.6	2218.0	2287.2	2339.8	2360.5
5767.1	35°	5969.2	5630.2	3929.6	2218.0	1981.4	2024.3	2115.6	2081.0	2060.3	2049.2
6243.1	37.5°	6342.7	5811.4	3531.1	2022.9	1852.7	1953.7	1991.1	1883.2	1801.5	1761.4
6820.1	40°	6792.4	6077.1	3147.8	1872.1	1771.1	1892.9	1827.8	1697.8	1594.0	1537.3
7469.1	42.5°	7291.9	6355.2	2825.5	1758.6	1725.4	1843.0	1707.4	1552.5	1385.1	1367.1
8242.5	45°	7816.4	6641.6	2605.5	1671.5	1703.3	1800.2	1638.3	1387.8	1268.8	1342.2
9018.8	47.5°	8340.8	6904.5	2472.6	1606.4	1692.2	1751.7	1577.4	1296.5	1212.1	1318.6
9850.3	50°	8924.7	7139.7	2413.1	1559.4	1679.8	1732.4	1486.1	1273.0	1152.6	1223.2
10711.0	52.5°	9504.4	7322.4	2368.8	1512.4	1661.8	1717.1	1441.8	1245.3	1080.6	1084.8
11577.2	55°	10082.8	7441.4	2320.4	1450.1	1621.7	1683.9	1437.6	1214.9	1026.7	1007.3
12493.2	57.5°	10699.9	7509.2	2260.9	1380.9	1552.5	1599.5	1433.5	1191.3	1010.1	978.3
13429.9	60°	11328.1	7608.8	2183.4	1296.5	1459.8	1498.5	1423.8	1183.0	1000.4	946.4
14312.7	62.5°	11891.3	7643.4	2090.7	1216.2	1340.8	1398.9	1403.0	1176.1	974.1	881.4
15046.0	65°	12260.7	7494.0	1928.8	1124.9	1212.1	1296.5	1362.9	1152.6	927.1	834.4
15408.6	67.5°	12245.5	7067.8	1675.6	1007.3	1087.6	1183.0	1304.8	1112.5	870.3	776.2
15134.6	70°	11675.4	6226.5	1354.6	870.3	950.6	1061.3	1230.1	1053.0	802.5	712.6
13457.6	72.5°	10013.6	4873.3	983.8	709.8	791.5	935.4	1133.2	981.0	733.3	655.9
9945.8	75°	7153.6	3084.2	666.9	545.2	615.7	792.8	1012.8	896.6	669.7	658.6
4981.2	77.5°	3654.3	1473.6	441.4	398.5	428.9	625.4	851.0	801.1	679.4	543.8
1416.9	80°	1188.6	543.8	278.1	271.2	285.0	416.5	658.6	657.2	514.7	369.4
343.2	82.5°	379.1	233.8	181.3	174.3	167.4	261.5	459.4	520.3	347.3	233.8
123.1	85°	150.8	139.8	106.5	98.2	70.6	123.1	240.8	345.9	258.7	168.8
31.8	87.5°	55.3	55.3	29.1	20.8	15.2	41.5	65.0	103.8	148.1	87.2
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>
3769.1
4061.1
4200.8
4173.1
3962.8
3621.1
3276.5
3019.2
2868.3
2808.9
2774.3
2739.7
2627.6
2371.6
2060.3
1771.1
1541.4
1385.1
1380.9
1368.4
1275.7
1113.9
1021.1
982.4
950.6
881.4
834.4
780.4
720.9
651.7
621.3
484.3
326.5
232.5
173.0
85.8
0.0

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