

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: P944237

Luminaire Tested: **GALN-SB9A-830-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944237
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9A-830-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36738 lumens
Efficiency: N/A
Efficacy: 143.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

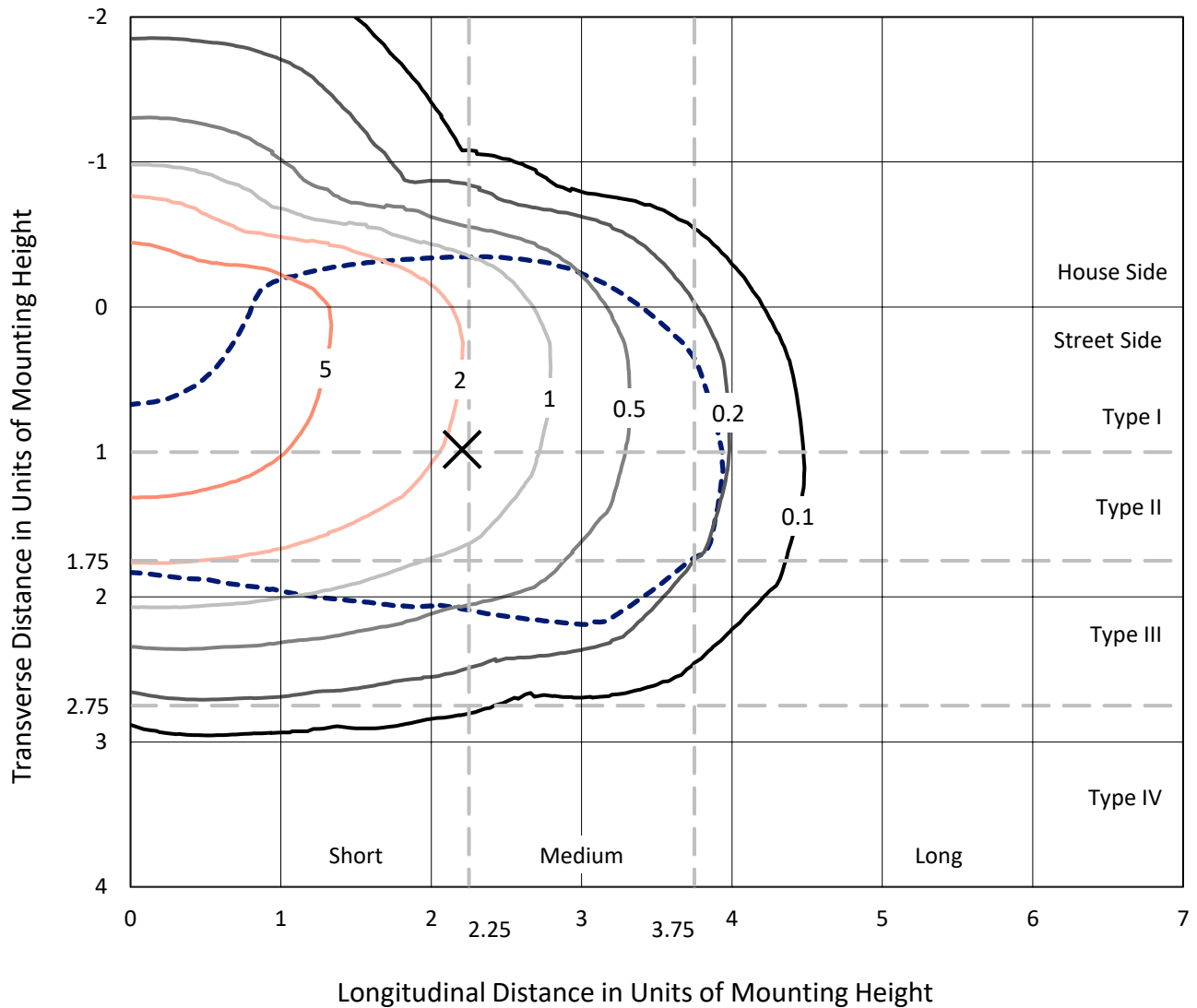
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

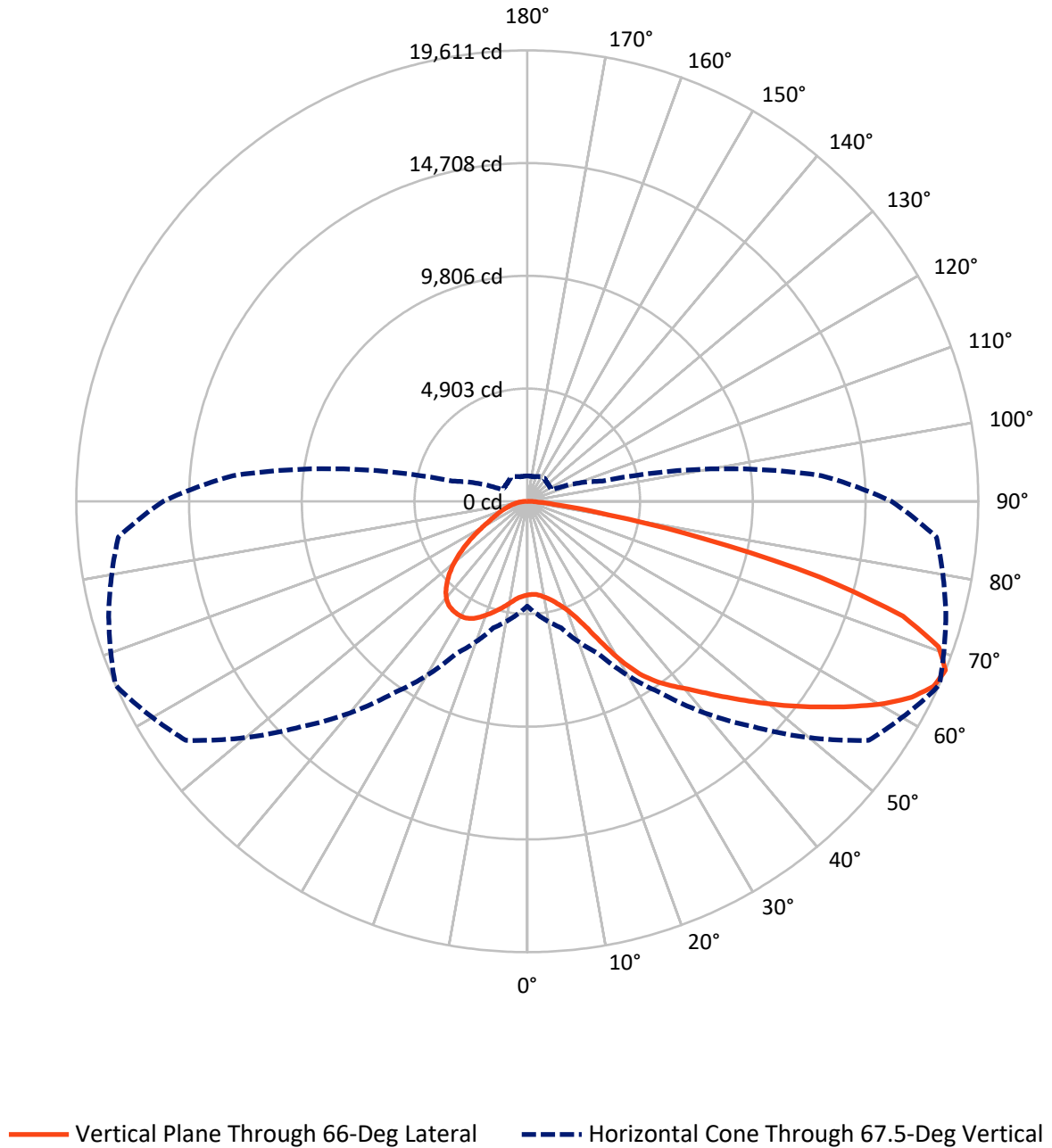
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9134.8	0.0	9134.8
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	27603.2	0.0	27603.2
	% Fixture	75.1	0.0	75.1
Total	Lumens	36738.0	0.0	36738.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	404.0	1.1
10°-20°	1334.7	3.6
20°-30°	2572.6	7.0
30°-40°	4510.8	12.3
40°-50°	6706.0	18.3
50°-60°	8500.6	23.1
60°-70°	8317.6	22.6
70°-80°	3967.6	10.8
80°-90°	424.0	1.2
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°	36738.0	100.0
0°-180°	36738.0	100.0

Coefficient of Utilization



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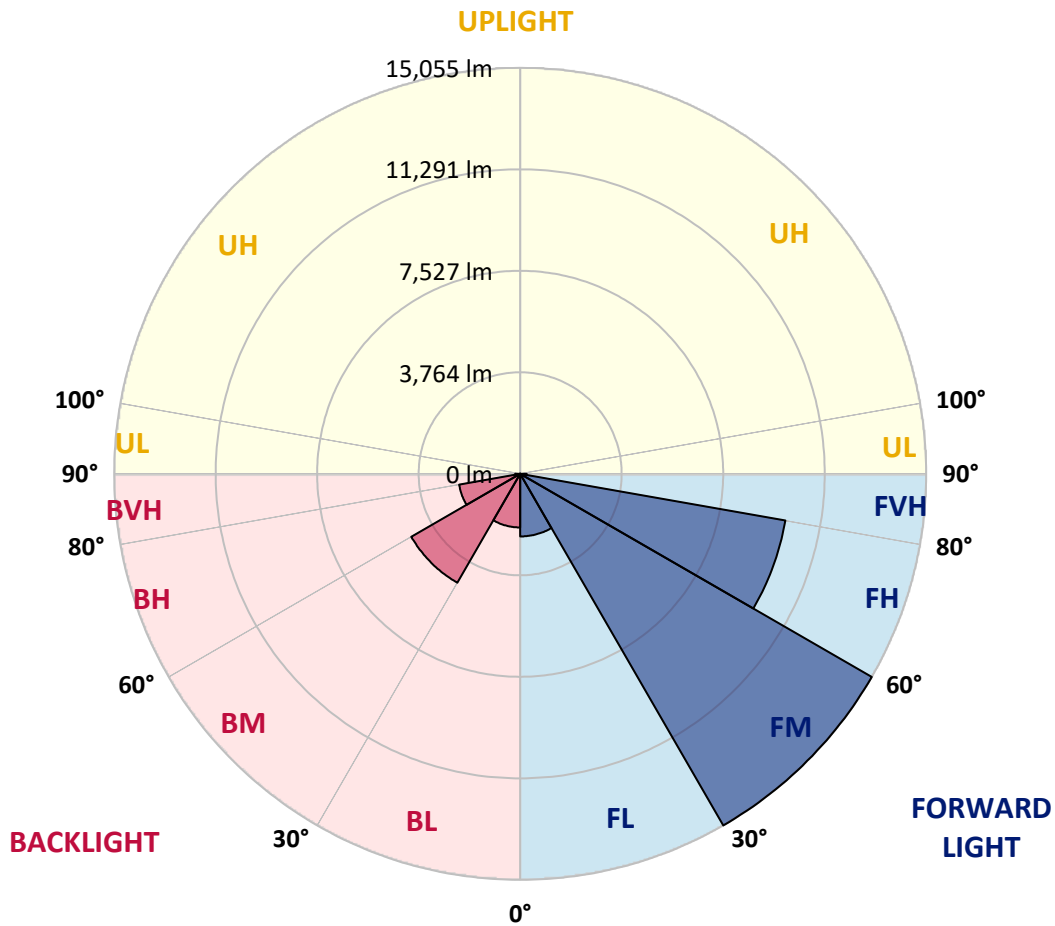
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2321.5	6.3			
FM (30°-60°)	15054.9	41.0			
FH (60°-80°)	9986.4	27.2			G4/12000
FVH (80°-90°)	240.4	0.7			G3/500
BL (0°-30°)	1989.9	5.4	B3/2500		
BM (30°-60°)	4662.5	12.7	B3/5000		
BH (60°-80°)	2298.8	6.3	B3/2500		G3/2500
BVH (80°-90°)	183.6	0.5			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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	4074.7	4074.7	4074.7	4074.7	4074.7	4074.7	4074.7	4074.7	4074.7	4074.7
2.5°	4032.3	4055.4	4049.6	4040.0	4038.1	4041.9	4047.7	4053.5	4051.6	4061.2
5°	4020.7	4043.8	4041.9	4041.9	4049.6	4065.1	4074.7	4084.4	4074.7	4086.3
7.5°	4028.4	4045.8	4053.5	4061.2	4080.5	4109.5	4132.6	4153.9	4142.3	4155.8
10°	4126.8	4140.4	4148.1	4148.1	4161.6	4194.4	4217.6	4256.2	4246.5	4267.8
12.5°	4306.4	4319.9	4319.9	4312.1	4321.8	4343.0	4350.8	4393.2	4375.8	4410.6
15°	4526.4	4553.4	4532.2	4518.7	4522.5	4543.8	4541.8	4574.7	4557.3	4586.2
17.5°	4769.6	4804.4	4769.6	4767.7	4760.0	4783.1	4785.1	4814.0	4783.1	4804.4
20°	5057.2	5105.5	5076.5	5086.2	5068.8	5078.5	5088.1	5130.6	5082.3	5097.8
22.5°	5462.6	5520.5	5489.6	5526.3	5514.7	5507.0	5505.0	5580.3	5505.0	5510.8
25°	6053.2	6122.7	6068.7	6118.9	6118.9	6143.9	6172.9	6269.4	6143.9	6107.3
27.5°	6925.7	6995.2	6889.0	6919.9	6910.2	6972.0	6941.1	7180.5	7045.4	6985.5
30°	7975.7	8099.3	7898.5	7890.8	7881.2	7979.6	8024.0	8182.3	8045.2	7985.4
32.5°	9110.7	9240.0	9000.7	8931.2	8894.5	8954.4	8917.7	9045.1	8950.5	8857.9
35°	10311.3	10438.7	10211.0	10075.8	9929.1	9803.7	9672.4	9705.2	9616.4	9475.5
37.5°	11446.3	11679.9	11438.6	11293.8	11023.6	10778.4	10411.7	10259.2	10176.2	10046.9
40°	12602.5	12735.7	12552.3	12428.8	12135.4	11751.3	11164.5	10842.1	10730.2	10604.7
42.5°	13453.7	13581.1	13482.7	13397.8	13168.1	12722.2	11963.6	11560.2	11398.0	11257.1
45°	14129.3	14223.9	14162.1	14193.0	14094.6	13662.2	12791.7	12330.4	12162.4	11990.6
47.5°	14401.5	14501.9	14600.3	14783.7	14951.6	14633.1	13681.5	13164.2	12986.6	12811.0
50°	14370.6	14472.9	14758.6	15148.5	15669.7	15563.5	14619.6	14052.1	13888.1	13687.3
52.5°	14123.5	14239.4	14606.1	15254.7	16084.7	16260.3	15575.1	14969.0	14814.6	14575.2
55°	13475.0	13544.5	14094.6	15013.4	16183.1	16746.7	16511.2	15945.7	15791.3	15457.3
57.5°	12272.4	12372.8	13173.9	14362.9	15936.0	17076.8	17333.5	16972.6	16823.9	16343.3
60°	10703.2	10863.4	11780.2	13270.4	15306.8	17074.9	18080.5	17982.1	17858.6	17215.8
62.5°	8927.3	9112.6	9994.8	11726.2	14206.5	16590.4	18547.6	18827.5	18763.8	18020.7
65°	6856.2	6983.6	7861.9	9728.4	12494.4	15550.0	18601.7	19404.7	19416.3	18632.6
67.5°	4565.0	4931.8	5694.2	7300.2	10201.3	13849.4	18126.9	19499.3	19611.2	18843.0
70°	2227.5	2710.1	3457.1	4744.5	7300.2	11241.7	16885.7	18723.3	18972.3	18229.2
72.5°	924.6	1080.9	1488.2	2341.4	4190.5	7585.8	14391.8	16619.3	17080.7	16152.2
75°	623.5	675.6	851.2	1200.6	1909.0	3740.8	10378.9	12392.1	13135.3	12199.1
77.5°	480.6	513.4	619.6	839.7	1135.0	1414.9	5555.2	7468.1	7852.2	7269.3
80°	378.3	403.4	463.3	611.9	804.9	756.7	1893.6	3383.7	3605.7	3024.7
82.5°	328.1	337.8	332.0	415.0	534.7	442.0	621.5	1248.9	1378.2	999.9
85°	237.4	264.4	276.0	256.7	283.7	223.9	254.8	442.0	486.4	434.3
87.5°	96.5	142.8	175.7	166.0	104.2	63.7	79.1	129.3	148.6	162.1
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°
4074.7	0°	4074.7	4074.7	4074.7	4074.7	4074.7	4074.7	4074.7	4074.7	4074.7	4074.7
4076.7	2.5°	4078.6	4092.1	4101.8	4113.3	4121.1	4132.6	4155.8	4169.3	4171.2	4180.9
4107.5	5°	4115.3	4134.6	4155.8	4186.7	4221.4	4250.4	4294.8	4325.7	4337.2	4346.9
4182.8	7.5°	4194.4	4221.4	4260.0	4314.1	4364.3	4402.9	4456.9	4493.6	4530.3	4543.8
4302.5	10°	4312.1	4350.8	4406.7	4480.1	4534.1	4584.3	4640.3	4671.2	4707.8	4723.3
4445.3	12.5°	4458.8	4499.4	4572.7	4675.0	4725.2	4760.0	4779.3	4771.5	4779.3	4792.8
4617.1	15°	4626.8	4671.2	4754.2	4864.2	4898.9	4868.1	4825.6	4787.0	4781.2	4785.1
4825.6	17.5°	4825.6	4858.4	4954.9	5047.6	5022.5	4895.1	4802.4	4740.7	4709.8	4700.1
5092.0	20°	5103.5	5103.5	5182.7	5240.6	5072.7	4856.5	4711.7	4611.3	4547.6	4520.6
5454.8	22.5°	5441.3	5410.5	5460.6	5420.1	5063.0	4748.4	4547.6	4373.9	4277.4	4238.8
5962.5	25°	5869.8	5833.2	5819.7	5568.7	4993.5	4576.6	4250.4	4040.0	3955.1	3933.8
6694.1	27.5°	6516.5	6423.8	6248.2	5649.8	4866.1	4306.4	3902.9	3708.0	3659.7	3661.7
7634.1	30°	7377.4	7192.1	6761.6	5663.3	4657.7	3924.2	3547.8	3408.8	3385.6	3395.3
8423.6	32.5°	8174.6	7998.9	7286.6	5601.5	4337.2	3549.7	3229.3	3136.6	3101.9	3113.5
9025.8	35°	8799.9	8751.7	7773.1	5514.7	3943.5	3198.4	2943.6	2864.5	2796.9	2781.5
9593.3	37.5°	9390.6	9371.3	8137.9	5393.1	3553.6	2949.4	2713.9	2609.7	2511.2	2457.2
10220.6	40°	10039.2	10019.9	8377.2	5205.8	3208.1	2733.2	2507.4	2370.3	2248.7	2150.3
10930.9	42.5°	10768.8	10654.9	8491.1	4937.5	2914.7	2549.8	2339.4	2154.1	1993.9	1903.2
11733.9	45°	11566.0	11309.3	8489.2	4595.9	2667.6	2381.9	2159.9	1897.4	1748.8	1663.9
12558.1	47.5°	12411.4	11934.7	8384.9	4217.6	2428.2	2196.6	1882.0	1681.2	1582.8	1530.7
13453.7	50°	13283.9	12519.5	8207.4	3783.3	2183.1	1986.2	1708.3	1571.2	1495.9	1447.7
14341.7	52.5°	14104.2	13050.3	7993.1	3291.1	1934.1	1781.6	1631.1	1524.9	1445.7	1391.7
15202.5	55°	14866.7	13507.8	7690.1	2787.3	1731.4	1644.6	1594.4	1505.6	1414.9	1351.2
16076.9	57.5°	15544.2	13805.1	7167.0	2314.4	1586.7	1550.0	1555.8	1472.8	1368.5	1314.5
16937.8	60°	16107.8	14023.2	6392.9	1876.2	1468.9	1457.3	1495.9	1411.0	1289.4	1227.6
17665.5	62.5°	16445.6	14019.3	5443.3	1536.5	1368.5	1372.4	1416.8	1333.8	1210.3	1152.4
18045.8	65°	16416.7	13675.7	4400.9	1314.5	1272.0	1275.9	1333.8	1248.9	1144.6	1109.9
17854.7	67.5°	15835.7	12838.0	3376.0	1169.7	1165.9	1183.2	1250.8	1191.0	1104.1	1100.2
16715.8	70°	14262.5	11098.9	2432.1	1053.9	1055.8	1080.9	1169.7	1154.3	1082.9	1090.6
14054.1	72.5°	11436.7	8462.2	1633.0	932.3	934.2	974.8	1092.5	1125.3	1061.6	1163.9
9971.6	75°	7616.7	5277.3	1050.0	803.0	804.9	857.0	1025.0	1069.4	1003.7	1160.1
5188.5	77.5°	3659.7	2372.3	760.5	675.6	675.6	723.8	886.0	957.4	855.1	901.4
1667.7	80°	1264.3	891.8	598.4	544.3	532.7	565.6	747.0	830.0	737.4	679.4
544.3	82.5°	498.0	463.3	480.6	422.7	384.1	405.3	581.0	685.2	542.4	490.3
306.9	85°	285.7	301.1	339.7	279.9	222.0	249.0	426.6	492.2	409.2	361.0
100.4	87.5°	77.2	106.2	156.3	144.8	100.4	106.2	202.7	272.2	235.5	181.4
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°
4074.7
4179.0
4345.0
4545.7
4731.0
4796.6
4798.6
4713.6
4514.8
4233.0
3937.7
3667.4
3428.1
3128.9
2793.1
2459.1
2159.9
1909.0
1660.0
1519.1
1430.3
1368.5
1326.1
1279.7
1200.6
1135.0
1108.0
1106.0
1088.7
1179.4
1169.7
826.1
637.0
488.3
368.7
187.2
0.0

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