

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: P941887

Luminaire Tested: **GALN-SB5C-850-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941887
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-SB5C-850-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36210 lumens
Efficiency: N/A
Efficacy: 145.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

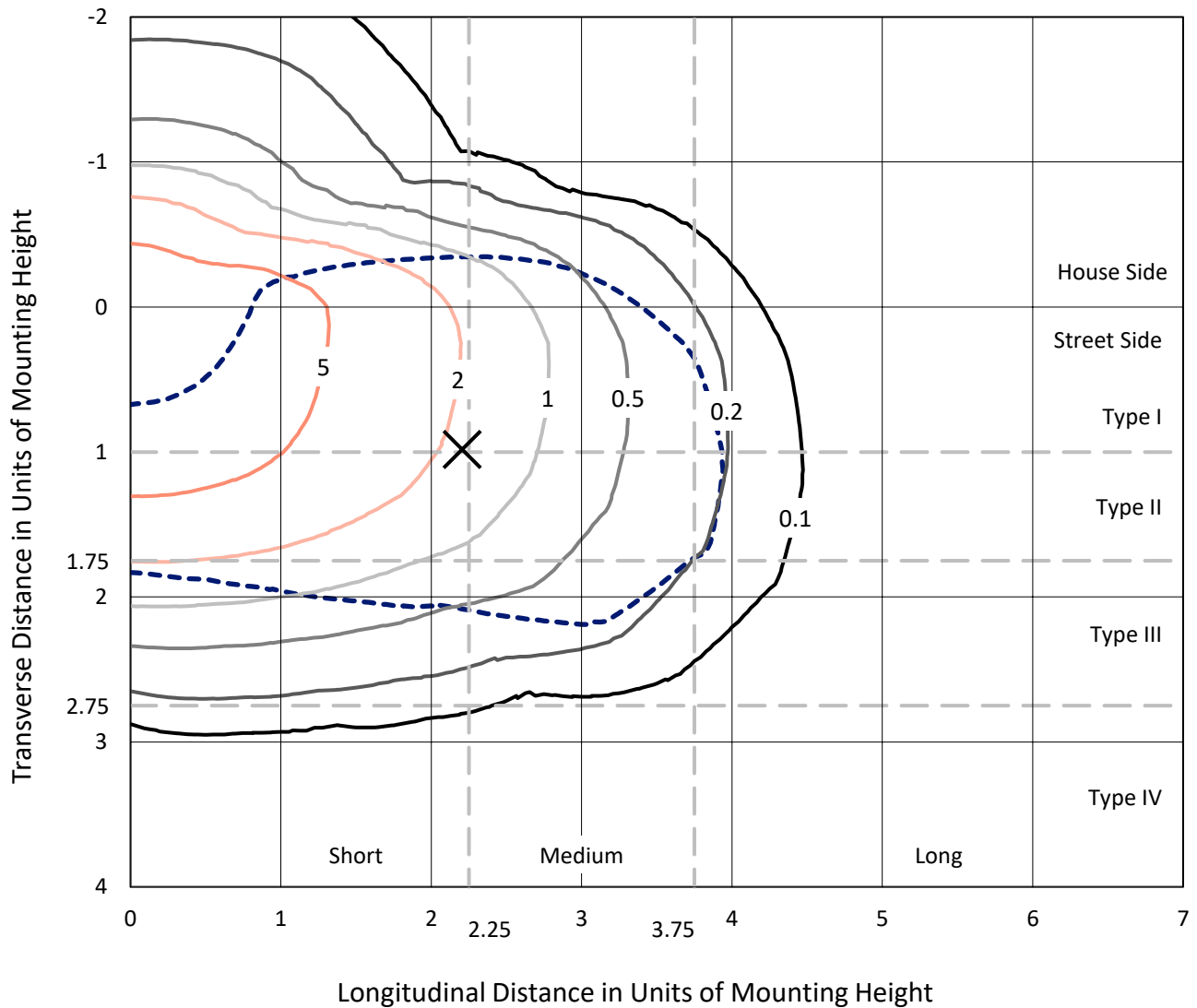
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P941887
 CATALOG NUMBER: GALN-SB5C-850-U-T3

Iso-Footcandle Lines of Horizontal Illumination

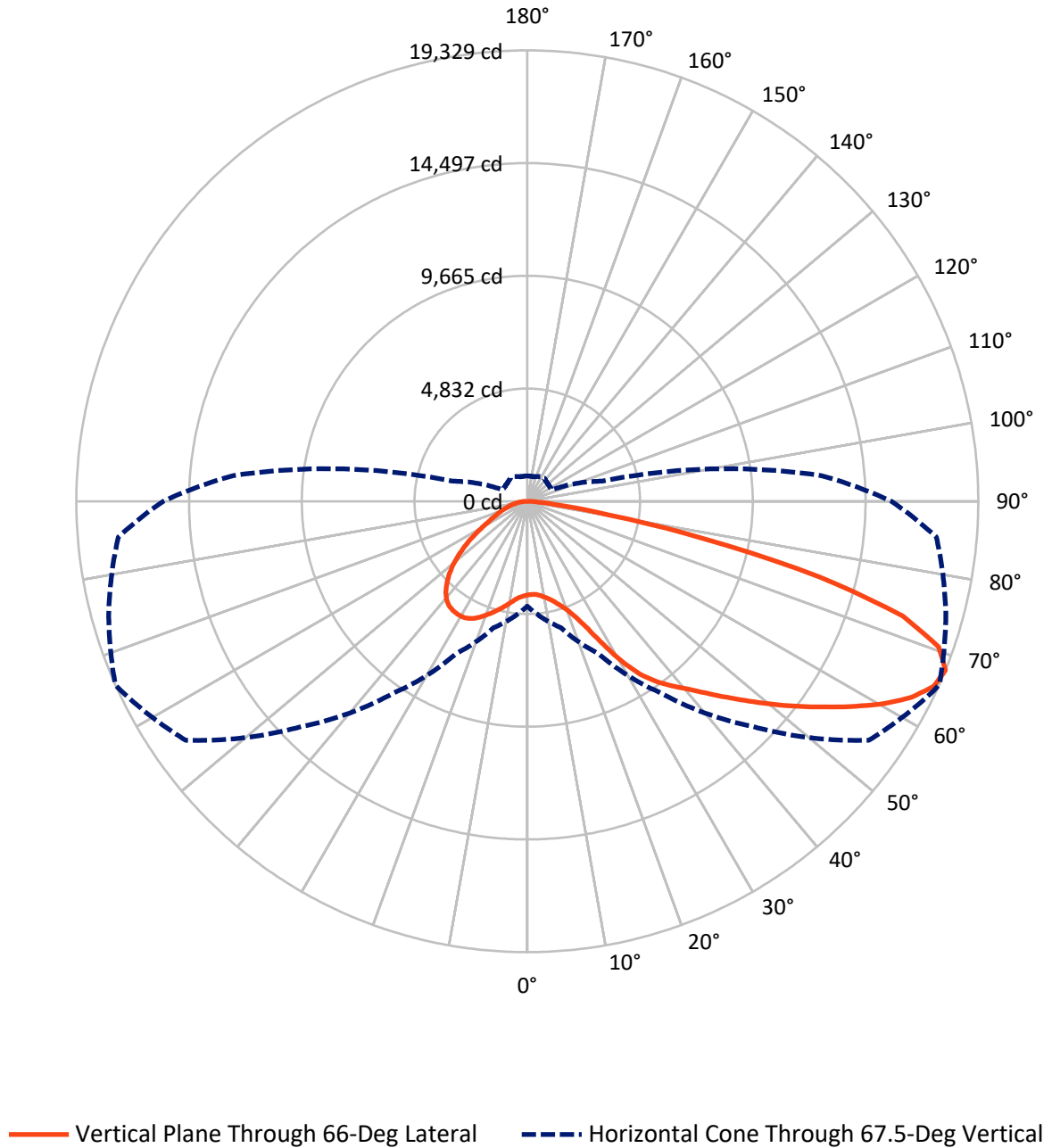
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type III - Short - N/A

REPORT NUMBER: P941887
CATALOG NUMBER: GALN-SB5C-850-U-T3

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9003.5	0.0	9003.5
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	27206.5	0.0	27206.5
	% Fixture	75.1	0.0	75.1
Total	Lumens	36210.0	0.0	36210.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	398.2	1.1
10°-20°	1315.6	3.6
20°-30°	2535.7	7.0
30°-40°	4446.0	12.3
40°-50°	6609.7	18.3
50°-60°	8378.4	23.1
60°-70°	8198.1	22.6
70°-80°	3910.6	10.8
80°-90°	417.9	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°	36210.0	100.0
0°-180°	36210.0	100.0

Coefficient of Utilization



REPORT NUMBER: P941887

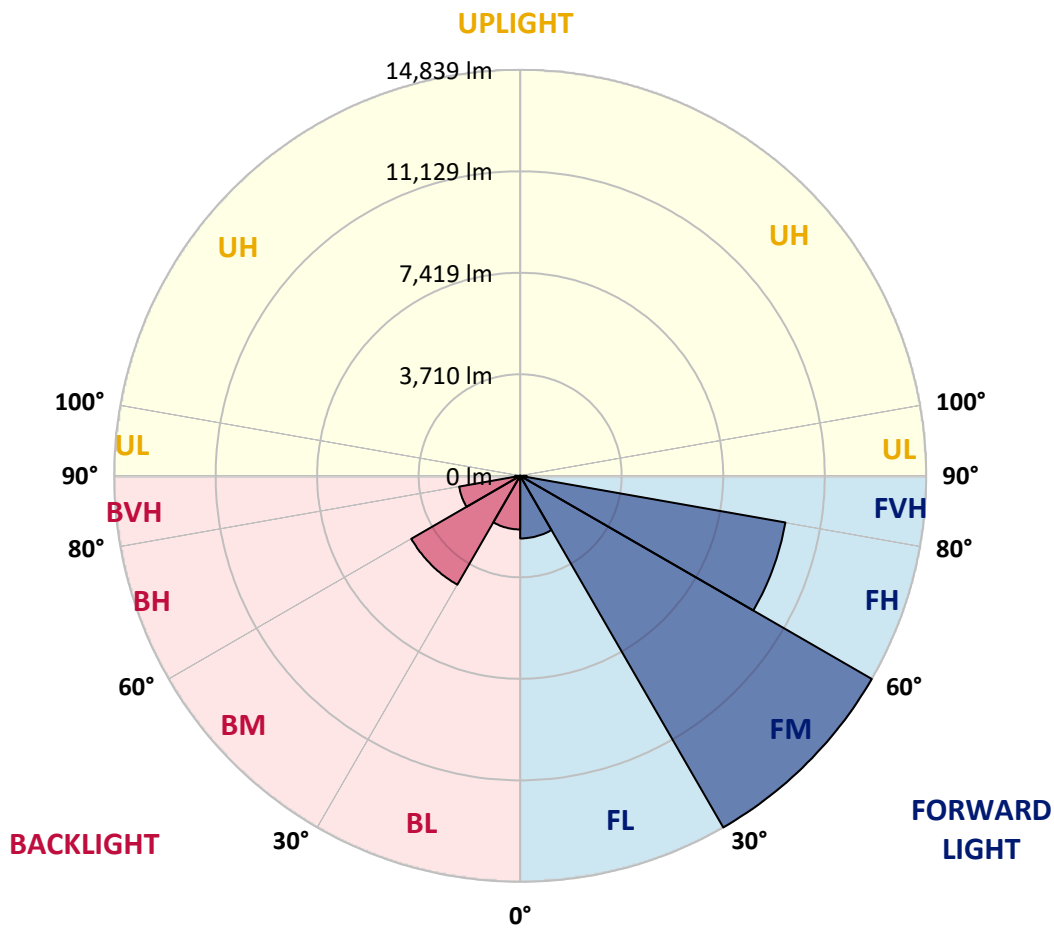
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2288.1	6.3			
FM (30°-60°)	14838.5	41.0			
FH (60°-80°)	9842.9	27.2			G4/12000
FVH (80°-90°)	237.0	0.7			G3/500
BL (0°-30°)	1961.3	5.4	B3/2500		
BM (30°-60°)	4595.5	12.7	B3/5000		
BH (60°-80°)	2265.7	6.3	B3/2500		G3/2500
BVH (80°-90°)	181.0	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



REPORT NUMBER: P941887

CATALOG NUMBER: GALN-SB5C-850-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	4016.2	4016.2	4016.2	4016.2	4016.2	4016.2	4016.2	4016.2	4016.2	4016.2
2.5°	3974.3	3997.1	3991.4	3981.9	3980.0	3983.8	3989.5	3995.2	3993.3	4002.9
5°	3962.9	3985.7	3983.8	3983.8	3991.4	4006.7	4016.2	4025.7	4016.2	4027.6
7.5°	3970.5	3987.6	3995.2	4002.9	4021.9	4050.4	4073.2	4094.2	4082.8	4096.1
10°	4067.5	4080.9	4088.5	4088.5	4101.8	4134.1	4157.0	4195.0	4185.5	4206.4
12.5°	4244.5	4257.8	4257.8	4250.2	4259.7	4280.6	4288.2	4330.1	4313.0	4347.2
15°	4461.4	4488.0	4467.1	4453.7	4457.5	4478.5	4476.6	4508.9	4491.8	4520.3
17.5°	4701.1	4735.3	4701.1	4699.2	4691.6	4714.4	4716.3	4744.8	4714.4	4735.3
20°	4984.5	5032.1	5003.6	5013.1	4996.0	5005.5	5015.0	5056.8	5009.3	5024.5
22.5°	5384.1	5441.1	5410.7	5446.8	5435.4	5427.8	5425.9	5500.1	5425.9	5431.6
25°	5966.2	6034.7	5981.4	6030.9	6030.9	6055.6	6084.2	6179.3	6055.6	6019.5
27.5°	6826.2	6894.6	6790.0	6820.4	6810.9	6871.8	6841.4	7077.3	6944.1	6885.1
30°	7861.1	7982.9	7785.0	7777.4	7767.9	7864.9	7908.7	8064.7	7929.6	7870.6
32.5°	8979.8	9107.2	8871.3	8802.8	8766.7	8825.7	8789.5	8915.1	8821.9	8730.6
35°	10163.1	10288.7	10064.2	9931.0	9786.4	9662.8	9533.4	9565.7	9478.2	9339.3
37.5°	11281.8	11512.0	11274.2	11131.5	10865.2	10623.5	10262.1	10111.8	10030.0	9902.5
40°	12421.4	12552.7	12371.9	12250.2	11961.0	11582.4	11004.0	10686.3	10576.0	10452.3
42.5°	13260.4	13386.0	13288.9	13205.2	12978.8	12539.3	11791.7	11394.0	11234.2	11095.4
45°	13926.3	14019.5	13958.6	13989.0	13892.0	13465.9	12607.8	12153.1	11987.6	11818.3
47.5°	14194.5	14293.4	14390.5	14571.2	14736.7	14422.8	13484.9	12975.0	12800.0	12626.9
50°	14164.1	14264.9	14546.5	14930.8	15444.5	15339.8	14409.5	13850.2	13688.5	13490.6
52.5°	13920.6	14034.7	14396.2	15035.4	15853.5	16026.6	15351.2	14753.9	14601.7	14365.7
55°	13281.3	13349.8	13892.0	14797.6	15950.5	16506.0	16273.9	15716.5	15564.3	15235.2
57.5°	12096.1	12195.0	12984.5	14156.5	15707.0	16831.4	17084.4	16728.6	16582.1	16108.4
60°	10549.3	10707.2	11610.9	13079.7	15086.8	16829.5	17820.7	17723.6	17601.9	16968.4
62.5°	8799.0	8981.7	9851.1	11557.7	14002.4	16351.9	18281.1	18556.9	18494.2	17761.7
65°	6757.7	6883.2	7748.9	9588.6	12314.9	15326.5	18334.3	19125.8	19137.2	18364.8
67.5°	4499.4	4860.9	5612.4	7195.2	10054.7	13650.4	17866.3	19219.0	19329.4	18572.2
70°	2195.5	2671.1	3407.4	4676.3	7195.2	11080.1	16643.0	18454.2	18699.6	17967.2
72.5°	911.3	1065.4	1466.8	2307.7	4130.3	7476.8	14185.0	16380.5	16835.2	15920.1
75°	614.5	665.9	839.0	1183.4	1881.6	3687.0	10229.7	12214.0	12946.5	12023.8
77.5°	473.7	506.1	610.7	827.6	1118.7	1394.5	5475.4	7360.8	7739.4	7164.8
80°	372.9	397.6	456.6	603.1	793.3	745.8	1866.3	3335.1	3553.9	2981.2
82.5°	323.4	332.9	327.2	409.0	527.0	435.7	612.6	1230.9	1358.4	985.5
85°	234.0	260.6	272.1	253.0	279.7	220.7	251.1	435.7	479.4	428.1
87.5°	95.1	140.8	173.1	163.6	102.7	62.8	78.0	127.5	146.5	159.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P941887
 CATALOG NUMBER: GALN-SB5C-850-U-T3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4016.2	0°	4016.2	4016.2	4016.2	4016.2	4016.2	4016.2	4016.2	4016.2	4016.2	4016.2
4018.1	2.5°	4020.0	4033.3	4042.8	4054.2	4061.8	4073.2	4096.1	4109.4	4111.3	4120.8
4048.5	5°	4056.1	4075.1	4096.1	4126.5	4160.8	4189.3	4233.1	4263.5	4274.9	4284.4
4122.7	7.5°	4134.1	4160.8	4198.8	4252.1	4301.5	4339.6	4392.9	4429.0	4465.2	4478.5
4240.7	10°	4250.2	4288.2	4343.4	4415.7	4469.0	4518.4	4573.6	4604.0	4640.2	4655.4
4381.4	12.5°	4394.8	4434.7	4507.0	4607.8	4657.3	4691.6	4710.6	4703.0	4710.6	4723.9
4550.8	15°	4560.3	4604.0	4685.8	4794.3	4828.5	4798.1	4756.2	4718.2	4712.5	4716.3
4756.2	17.5°	4756.2	4788.6	4883.7	4975.0	4950.3	4824.7	4733.4	4672.5	4642.1	4632.6
5018.8	20°	5030.2	5030.2	5108.2	5165.3	4999.8	4786.7	4644.0	4545.1	4482.3	4455.6
5376.5	22.5°	5363.1	5332.7	5382.2	5342.2	4990.2	4680.1	4482.3	4311.1	4215.9	4177.9
5876.8	25°	5785.5	5749.3	5736.0	5488.7	4921.8	4510.8	4189.3	3981.9	3898.2	3877.3
6597.9	27.5°	6422.8	6331.5	6158.4	5568.6	4796.2	4244.5	3846.8	3654.7	3607.1	3609.0
7524.4	30°	7271.3	7088.7	6664.4	5581.9	4590.7	3867.8	3496.8	3359.8	3337.0	3346.5
8302.5	32.5°	8057.1	7883.9	7181.9	5521.0	4274.9	3498.7	3182.9	3091.6	3057.3	3068.7
8896.1	35°	8673.5	8625.9	7661.3	5435.4	3886.8	3152.4	2901.3	2823.3	2756.7	2741.5
9455.4	37.5°	9255.6	9236.6	8020.9	5315.6	3502.5	2907.0	2674.9	2572.2	2475.1	2421.9
10073.7	40°	9894.9	9875.9	8256.8	5131.0	3161.9	2693.9	2471.3	2336.3	2216.4	2119.4
10773.8	42.5°	10614.0	10501.8	8369.1	4866.6	2872.8	2513.2	2305.8	2123.2	1965.3	1875.9
11565.3	45°	11399.8	11146.7	8367.2	4529.8	2629.2	2347.7	2128.9	1870.2	1723.7	1640.0
12377.6	47.5°	12233.0	11763.1	8264.4	4157.0	2393.3	2165.0	1854.9	1657.1	1560.0	1508.7
13260.4	50°	13093.0	12339.6	8089.4	3728.9	2151.7	1957.7	1683.7	1548.6	1474.4	1426.9
14135.5	52.5°	13901.5	12862.8	7878.2	3243.8	1906.3	1756.0	1607.6	1503.0	1425.0	1371.7
14984.1	55°	14653.0	13313.7	7579.5	2747.2	1706.5	1620.9	1571.5	1483.9	1394.5	1331.7
15845.9	57.5°	15320.8	13606.6	7064.0	2281.1	1563.9	1527.7	1533.4	1451.6	1348.9	1295.6
16694.4	60°	15876.3	13821.6	6301.1	1849.2	1447.8	1436.4	1474.4	1390.7	1270.9	1210.0
17411.6	62.5°	16209.3	13817.8	5365.0	1514.4	1348.9	1352.7	1396.4	1314.6	1192.9	1135.8
17786.4	65°	16180.7	13479.2	4337.7	1295.6	1253.7	1257.5	1314.6	1230.9	1128.2	1093.9
17598.1	67.5°	15608.1	12653.5	3327.5	1152.9	1149.1	1166.2	1232.8	1173.8	1088.2	1084.4
16475.6	70°	14057.5	10939.3	2397.1	1038.8	1040.7	1065.4	1152.9	1137.7	1067.3	1074.9
13852.1	72.5°	11272.3	8340.5	1609.5	918.9	920.8	960.8	1076.8	1109.2	1046.4	1147.2
9828.3	75°	7507.2	5201.4	1035.0	791.4	793.3	844.7	1010.2	1054.0	989.3	1143.4
5113.9	77.5°	3607.1	2338.2	749.6	665.9	665.9	713.4	873.2	943.6	842.8	888.5
1643.8	80°	1246.1	879.0	589.8	536.5	525.1	557.4	736.3	818.1	726.8	669.7
536.5	82.5°	490.8	456.6	473.7	416.6	378.6	399.5	572.7	675.4	534.6	483.2
302.5	85°	281.6	296.8	334.8	275.9	218.8	245.4	420.5	485.1	403.3	355.8
98.9	87.5°	76.1	104.6	154.1	142.7	98.9	104.6	199.8	268.3	232.1	178.8
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°
4016.2
4118.9
4282.5
4480.4
4663.0
4727.7
4729.6
4645.9
4449.9
4172.2
3881.1
3614.7
3378.8
3083.9
2752.9
2423.8
2128.9
1881.6
1636.1
1497.3
1409.7
1348.9
1307.0
1261.4
1183.4
1118.7
1092.0
1090.1
1073.0
1162.4
1152.9
814.3
627.8
481.3
363.4
184.5
0.0

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