

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: P943787

Luminaire Tested: **GALN-SB8B-935-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943787
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-SB8B-935-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31697 lumens
Efficiency: N/A
Efficacy: 108.3 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

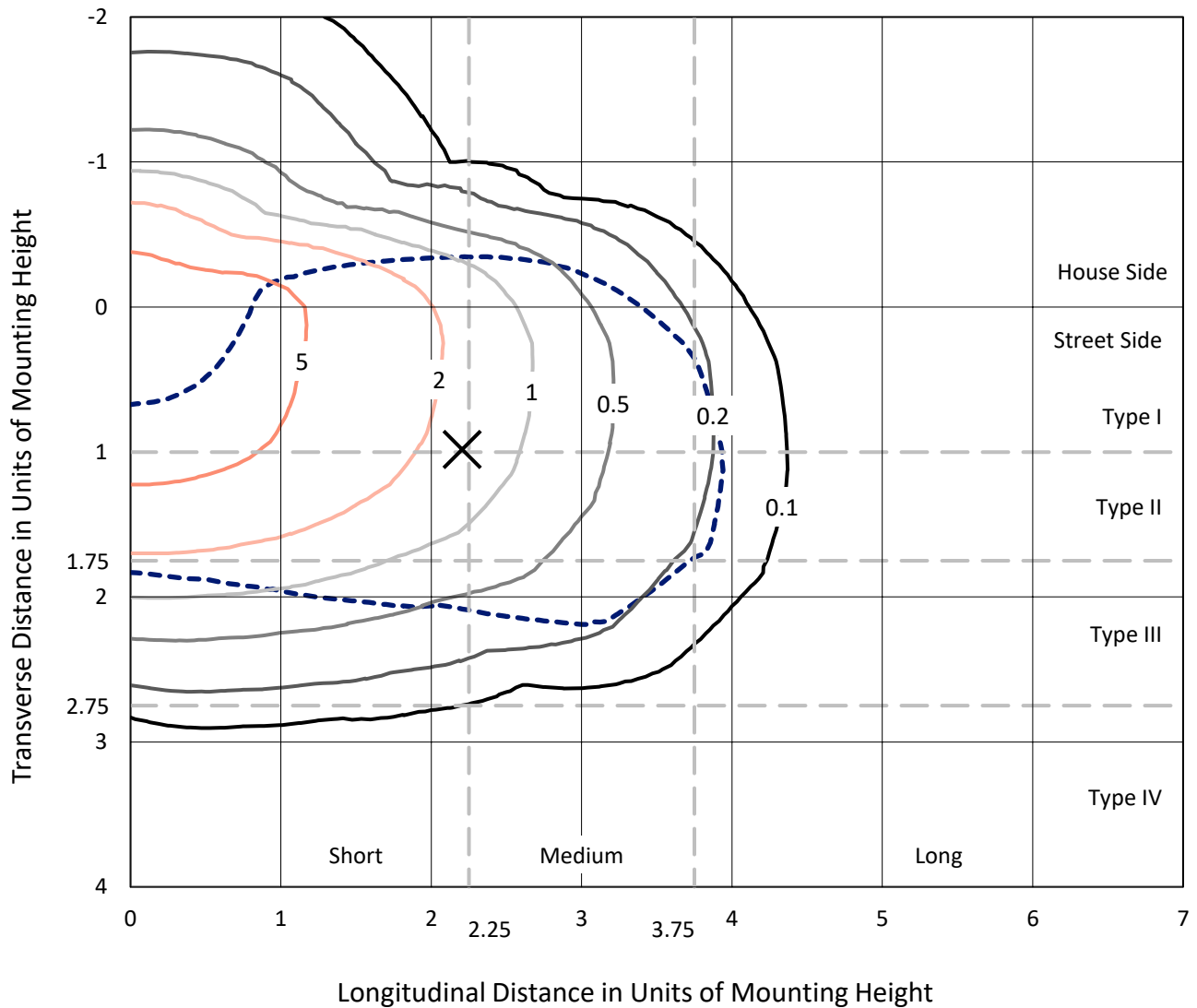
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

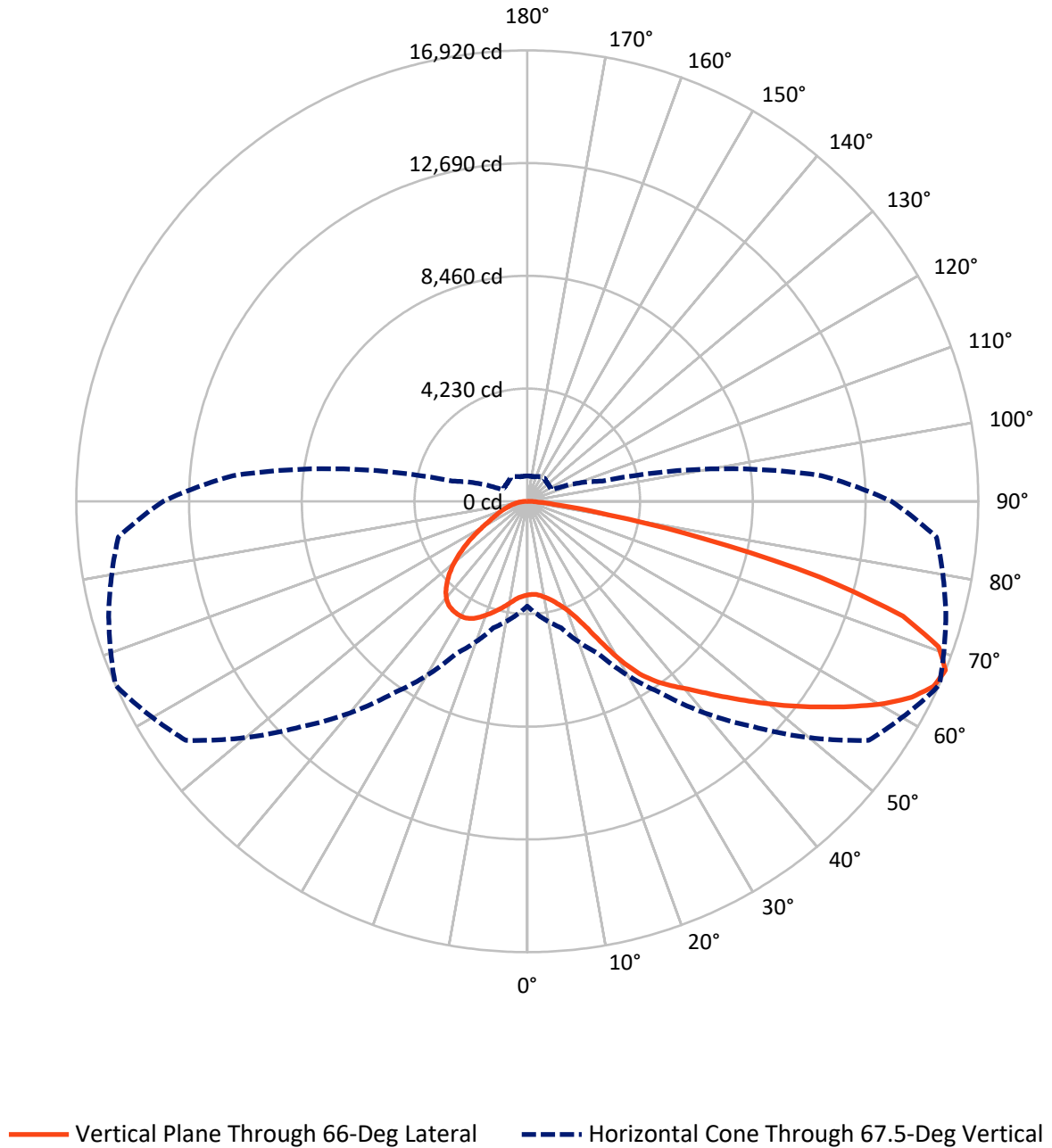
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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	7881.4	0.0	7881.4
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	23815.6	0.0	23815.6
	% Fixture	75.1	0.0	75.1
Total	Lumens	31697.0	0.0	31697.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.6	1.1
10°-20°	1151.6	3.6
20°-30°	2219.6	7.0
30°-40°	3891.8	12.3
40°-50°	5785.9	18.3
50°-60°	7334.2	23.1
60°-70°	7176.3	22.6
70°-80°	3423.2	10.8
80°-90°	365.8	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°	31697.0	100.0
0°-180°	31697.0	100.0

Coefficient of Utilization



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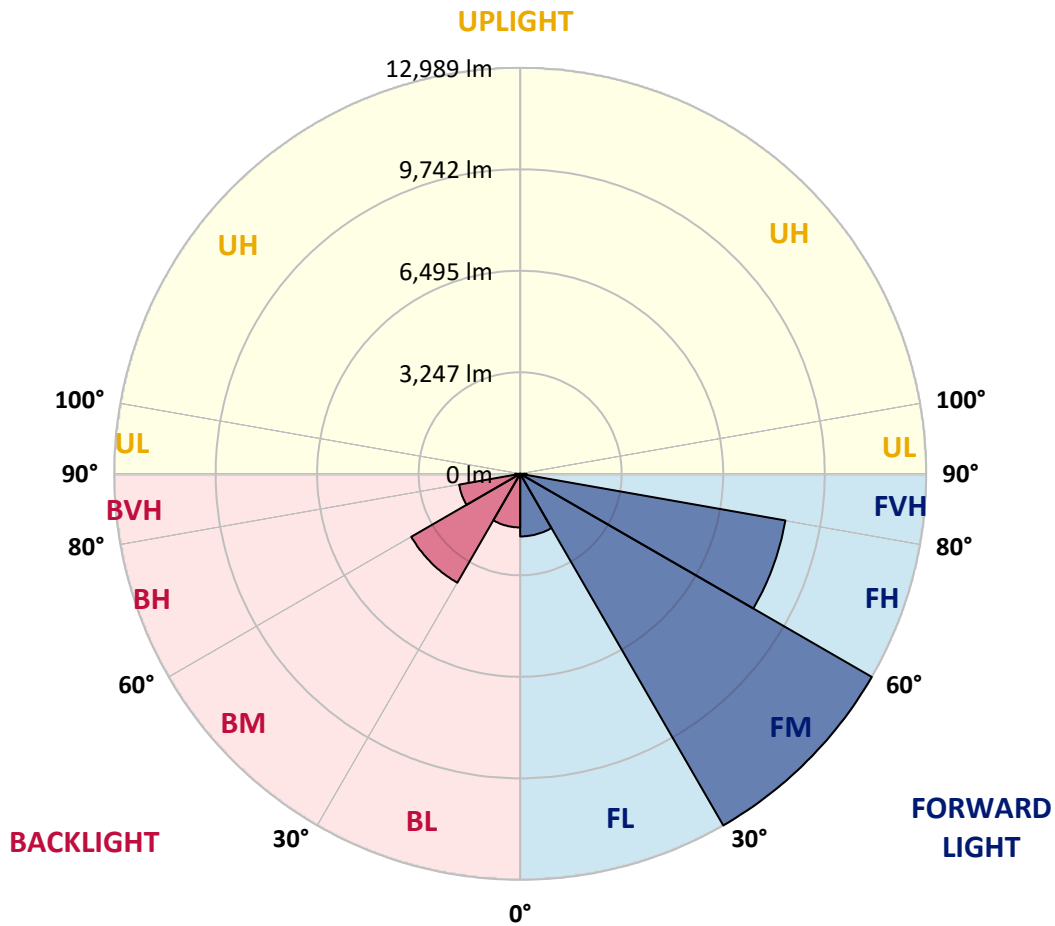
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2002.9	6.3			
FM (30°-60°)	12989.2	41.0			
FH (60°-80°)	8616.1	27.2			G4/12000
FVH (80°-90°)	207.4	0.7			G2/225
BL (0°-30°)	1716.8	5.4	B3/2500		
BM (30°-60°)	4022.7	12.7	B3/5000		
BH (60°-80°)	1983.4	6.3	B3/2500		G3/2500
BVH (80°-90°)	158.4	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°	3515.6	3515.6	3515.6	3515.6	3515.6	3515.6	3515.6	3515.6	3515.6	3515.6
2.5°	3479.0	3499.0	3494.0	3485.6	3484.0	3487.3	3492.3	3497.3	3495.6	3504.0
5°	3469.0	3489.0	3487.3	3487.3	3494.0	3507.3	3515.6	3523.9	3515.6	3525.6
7.5°	3475.6	3490.6	3497.3	3504.0	3520.6	3545.6	3565.6	3583.9	3573.9	3585.6
10°	3560.6	3572.2	3578.9	3578.9	3590.6	3618.9	3638.9	3672.2	3663.8	3682.2
12.5°	3715.5	3727.1	3727.1	3720.5	3728.8	3747.1	3753.8	3790.4	3775.4	3805.4
15°	3905.3	3928.6	3910.3	3898.7	3902.0	3920.3	3918.6	3946.9	3932.0	3956.9
17.5°	4115.2	4145.1	4115.2	4113.5	4106.8	4126.8	4128.5	4153.5	4126.8	4145.1
20°	4363.3	4404.9	4379.9	4388.3	4373.3	4381.6	4389.9	4426.6	4384.9	4398.3
22.5°	4713.0	4763.0	4736.3	4768.0	4758.0	4751.3	4749.7	4814.6	4749.7	4754.7
25°	5222.6	5282.6	5236.0	5279.3	5279.3	5300.9	5325.9	5409.2	5300.9	5269.3
27.5°	5975.4	6035.3	5943.7	5970.4	5962.1	6015.4	5988.7	6195.2	6078.6	6027.0
30°	6881.3	6987.9	6814.7	6808.1	6799.7	6884.7	6923.0	7059.5	6941.3	6889.7
32.5°	7860.6	7972.2	7765.7	7705.7	7674.1	7725.7	7694.1	7804.0	7722.4	7642.4
35°	8896.5	9006.4	8809.9	8693.3	8566.7	8458.5	8345.2	8373.5	8296.9	8175.3
37.5°	9875.7	10077.2	9869.0	9744.1	9511.0	9299.5	8983.1	8851.5	8779.9	8668.3
40°	10873.3	10988.2	10830.0	10723.4	10470.2	10138.8	9632.6	9354.4	9257.8	9149.6
42.5°	11607.7	11717.6	11632.7	11559.4	11361.2	10976.5	10322.0	9974.0	9834.1	9712.5
45°	12190.6	12272.2	12218.9	12245.5	12160.6	11787.6	11036.5	10638.4	10493.6	10345.3
47.5°	12425.4	12512.0	12596.9	12755.1	12900.0	12625.2	11804.2	11357.9	11204.7	11053.1
50°	12398.8	12487.0	12733.5	13069.9	13519.6	13428.0	12613.6	12124.0	11982.4	11809.2
52.5°	12185.6	12285.5	12601.9	13161.5	13877.6	14029.2	13437.9	12915.0	12781.8	12575.3
55°	11626.0	11686.0	12160.6	12953.3	13962.5	14448.8	14245.7	13757.7	13624.5	13336.4
57.5°	10588.5	10675.1	11366.2	12392.1	13749.4	14733.6	14955.1	14643.7	14515.4	14100.8
60°	9234.5	9372.8	10163.8	11449.5	13206.5	14731.9	15599.6	15514.7	15408.1	14853.5
62.5°	7702.4	7862.3	8623.3	10117.2	12257.2	14313.9	16002.6	16244.1	16189.2	15548.0
65°	5915.4	6025.3	6783.1	8393.5	10780.0	13416.3	16049.3	16742.1	16752.1	16075.9
67.5°	3938.6	4255.0	4912.9	6298.5	8801.5	11949.1	15639.6	16823.7	16920.3	16257.4
70°	1921.8	2338.2	2982.7	4093.5	6298.5	9699.2	14568.7	16154.2	16369.0	15727.8
72.5°	797.7	932.6	1284.0	2020.1	3615.5	6544.9	12417.1	14338.9	14736.9	13935.9
75°	537.9	582.9	734.4	1035.9	1647.1	3227.5	8954.7	10691.7	11332.9	10525.2
77.5°	414.7	443.0	534.6	724.4	979.2	1220.7	4793.0	6443.4	6774.8	6271.8
80°	326.4	348.1	399.7	527.9	694.5	652.8	1633.7	2919.4	3110.9	2609.6
82.5°	283.1	291.4	286.4	358.1	461.3	381.4	536.3	1077.5	1189.1	862.7
85°	204.8	228.2	238.1	221.5	244.8	193.2	219.8	381.4	419.7	374.7
87.5°	83.3	123.2	151.5	143.2	89.9	55.0	68.3	111.6	128.2	139.9
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°
3515.6	0°	3515.6	3515.6	3515.6	3515.6	3515.6	3515.6	3515.6	3515.6	3515.6	3515.6
3517.3	2.5°	3518.9	3530.6	3538.9	3548.9	3555.6	3565.6	3585.6	3597.2	3598.9	3607.2
3543.9	5°	3550.6	3567.2	3585.6	3612.2	3642.2	3667.2	3705.5	3732.1	3742.1	3750.4
3608.9	7.5°	3618.9	3642.2	3675.5	3722.1	3765.4	3798.7	3845.4	3877.0	3908.6	3920.3
3712.1	10°	3720.5	3753.8	3802.1	3865.3	3912.0	3955.3	4003.6	4030.2	4061.9	4075.2
3835.4	12.5°	3847.0	3882.0	3945.3	4033.5	4076.8	4106.8	4123.5	4116.8	4123.5	4135.1
3983.6	15°	3991.9	4030.2	4101.8	4196.8	4226.7	4200.1	4163.4	4130.1	4125.1	4128.5
4163.4	17.5°	4163.4	4191.8	4275.0	4355.0	4333.3	4223.4	4143.5	4090.2	4063.5	4055.2
4393.3	20°	4403.3	4403.3	4471.5	4521.5	4376.6	4190.1	4065.2	3978.6	3923.6	3900.3
4706.4	22.5°	4694.7	4668.1	4711.4	4676.4	4368.3	4096.8	3923.6	3773.8	3690.5	3657.2
5144.4	25°	5064.4	5032.8	5021.1	4804.6	4308.3	3948.6	3667.2	3485.6	3412.4	3394.0
5775.5	27.5°	5622.3	5542.4	5390.8	4874.6	4198.4	3715.5	3367.4	3199.2	3157.6	3159.2
6586.6	30°	6365.1	6205.2	5833.8	4886.2	4018.6	3385.7	3061.0	2941.1	2921.1	2929.4
7267.7	32.5°	7052.9	6901.3	6286.8	4832.9	3742.1	3062.6	2786.2	2706.2	2676.3	2686.3
7787.3	35°	7592.5	7550.8	6706.5	4758.0	3402.4	2759.5	2539.7	2471.4	2413.1	2399.8
8276.9	37.5°	8102.1	8085.4	7021.2	4653.1	3066.0	2544.7	2341.5	2251.6	2166.7	2120.0
8818.2	40°	8661.6	8645.0	7227.7	4491.5	2767.9	2358.2	2163.3	2045.1	1940.2	1855.2
9431.0	42.5°	9291.2	9192.9	7326.0	4260.0	2514.7	2200.0	2018.4	1858.6	1720.3	1642.1
10123.8	45°	9979.0	9757.5	7324.3	3965.3	2301.6	2055.1	1863.6	1637.1	1508.8	1435.6
10835.0	47.5°	10708.4	10297.0	7234.4	3638.9	2095.0	1895.2	1623.7	1450.5	1365.6	1320.6
11607.7	50°	11461.1	10801.7	7081.2	3264.1	1883.5	1713.7	1473.9	1355.6	1290.7	1249.0
12373.8	52.5°	12168.9	11259.6	6896.3	2839.5	1668.7	1537.1	1407.2	1315.6	1247.4	1200.7
13116.5	55°	12826.8	11654.3	6634.9	2404.8	1493.8	1418.9	1375.6	1299.0	1220.7	1165.8
13870.9	57.5°	13411.3	11910.8	6183.6	1996.8	1368.9	1337.3	1342.3	1270.7	1180.8	1134.1
14613.7	60°	13897.6	12099.0	5515.7	1618.7	1267.4	1257.4	1290.7	1217.4	1112.5	1059.2
15241.6	62.5°	14189.0	12095.7	4696.4	1325.6	1180.8	1184.1	1222.4	1150.8	1044.2	994.2
15569.6	65°	14164.1	11799.2	3797.1	1134.1	1097.5	1100.8	1150.8	1077.5	987.6	957.6
15404.8	67.5°	13662.8	11076.4	2912.7	1009.2	1005.9	1020.9	1079.2	1027.5	952.6	949.3
14422.2	70°	12305.5	9575.9	2098.4	909.3	911.0	932.6	1009.2	995.9	934.3	940.9
12125.6	72.5°	9867.4	7301.0	1408.9	804.4	806.0	841.0	942.6	970.9	916.0	1004.2
8603.4	75°	6571.6	4553.1	906.0	692.8	694.5	739.4	884.3	922.6	866.0	1000.9
4476.5	77.5°	3157.6	2046.8	656.2	582.9	582.9	624.5	764.4	826.0	737.8	777.7
1438.9	80°	1090.8	769.4	516.3	469.6	459.6	488.0	644.5	716.1	636.2	586.2
469.6	82.5°	429.7	399.7	414.7	364.7	331.4	349.7	501.3	591.2	468.0	423.0
264.8	85°	246.5	259.8	293.1	241.5	191.5	214.8	368.0	424.7	353.1	311.4
86.6	87.5°	66.6	91.6	134.9	124.9	86.6	91.6	174.9	234.8	203.2	156.5
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>
3515.6
3605.5
3748.8
3922.0
4081.8
4138.5
4140.1
4066.9
3895.3
3652.2
3397.4
3164.2
2957.7
2699.6
2409.8
2121.7
1863.6
1647.1
1432.2
1310.7
1234.0
1180.8
1144.1
1104.1
1035.9
979.2
955.9
954.3
939.3
1017.5
1009.2
712.8
549.6
421.3
318.1
161.5
0.0

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