

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: P943557

Luminaire Tested: **GALN-SB8A-830-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943557
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-SB8A-830-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 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: 32615 lumens
Efficiency: N/A
Efficacy: 143.6 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

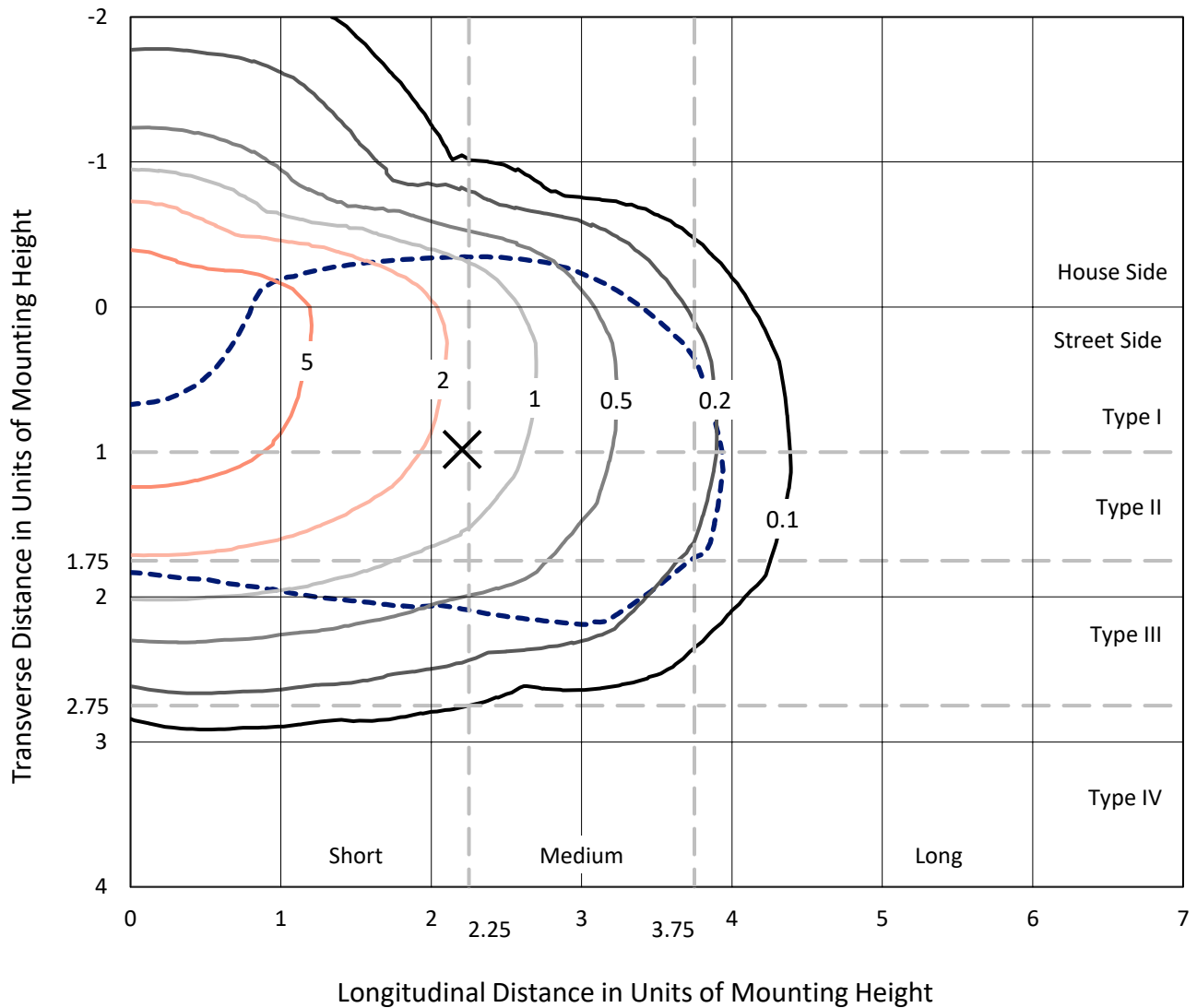
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

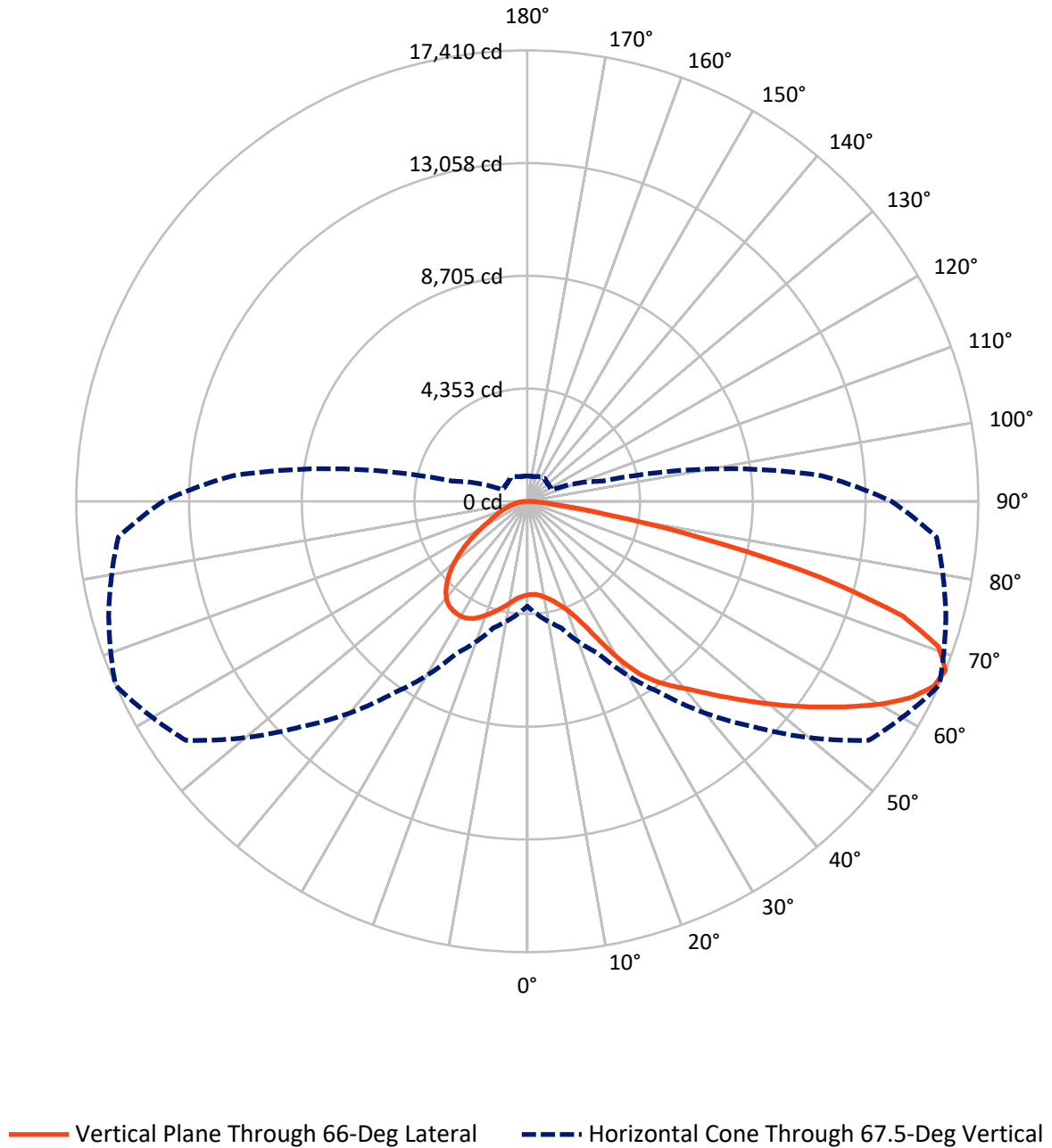
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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	8109.6	0.0	8109.6
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	24505.4	0.0	24505.4
	% Fixture	75.1	0.0	75.1
Total	Lumens	32615.0	0.0	32615.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	358.7	1.1
10°-20°	1184.9	3.6
20°-30°	2283.9	7.0
30°-40°	4004.6	12.3
40°-50°	5953.5	18.3
50°-60°	7546.6	23.1
60°-70°	7384.1	22.6
70°-80°	3522.3	10.8
80°-90°	376.4	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°	32615.0	100.0
0°-180°	32615.0	100.0

Coefficient of Utilization



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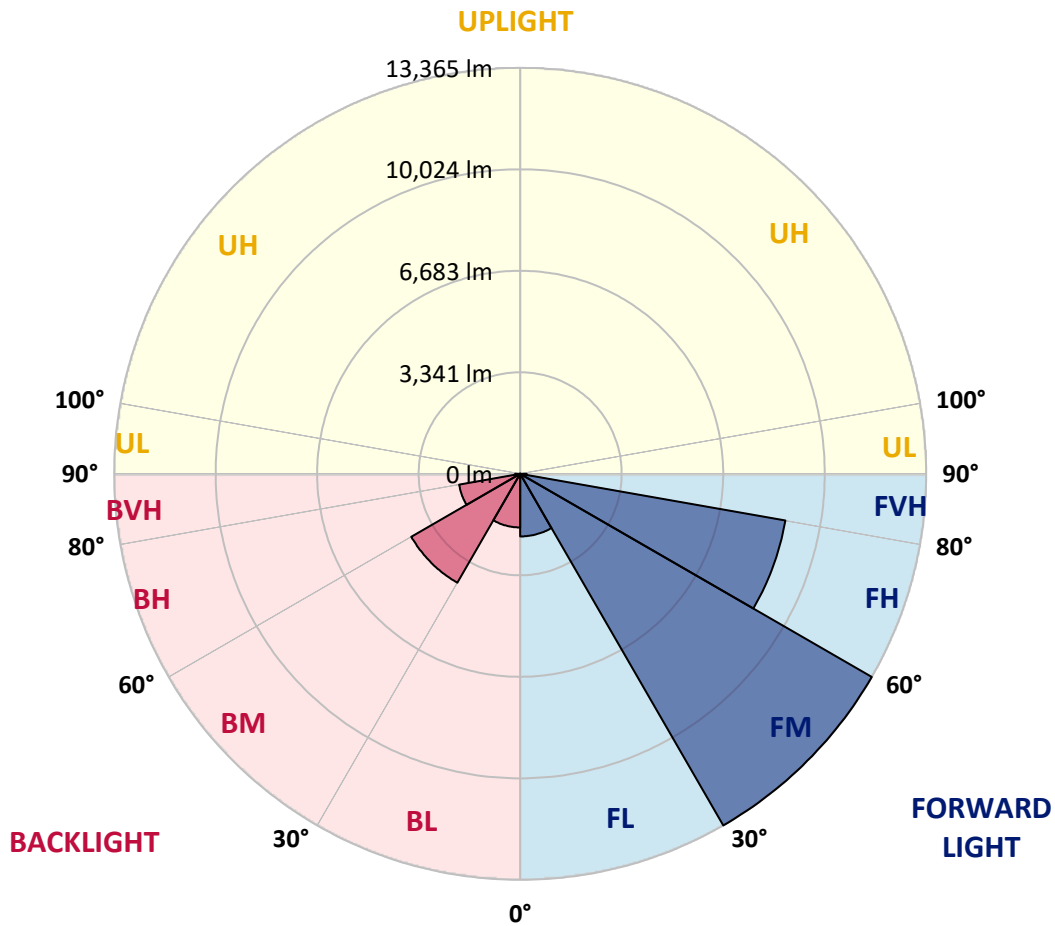
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2060.9	6.3			
FM (30°-60°)	13365.4	41.0			
FH (60°-80°)	8865.7	27.2			G4/12000
FVH (80°-90°)	213.4	0.7			G2/225
BL (0°-30°)	1766.6	5.4	B3/2500		
BM (30°-60°)	4139.2	12.7	B3/5000		
BH (60°-80°)	2040.8	6.3	B3/2500		G3/2500
BVH (80°-90°)	163.0	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	3617.4	3617.4	3617.4	3617.4	3617.4	3617.4	3617.4	3617.4	3617.4	3617.4
2.5°	3579.7	3600.3	3595.2	3586.6	3584.9	3588.3	3593.4	3598.6	3596.9	3605.4
5°	3569.5	3590.0	3588.3	3588.3	3595.2	3608.9	3617.4	3626.0	3617.4	3627.7
7.5°	3576.3	3591.7	3598.6	3605.4	3622.6	3648.3	3668.8	3687.7	3677.4	3689.4
10°	3663.7	3675.7	3682.6	3682.6	3694.5	3723.7	3744.2	3778.5	3769.9	3788.8
12.5°	3823.1	3835.1	3835.1	3828.2	3836.8	3855.6	3862.5	3900.2	3884.8	3915.6
15°	4018.4	4042.4	4023.6	4011.6	4015.0	4033.8	4032.1	4061.3	4045.8	4071.5
17.5°	4234.3	4265.2	4234.3	4232.6	4225.8	4246.3	4248.0	4273.7	4246.3	4265.2
20°	4489.7	4532.5	4506.8	4515.4	4499.9	4508.5	4517.1	4554.8	4511.9	4525.6
22.5°	4849.5	4900.9	4873.5	4906.1	4895.8	4888.9	4887.2	4954.1	4887.2	4892.4
25°	5373.9	5435.6	5387.6	5432.1	5432.1	5454.4	5480.1	5565.8	5454.4	5421.9
27.5°	6148.4	6210.1	6115.9	6143.3	6134.7	6189.6	6162.1	6374.6	6254.7	6201.6
30°	7080.6	7190.3	7012.1	7005.2	6996.7	7084.1	7123.5	7264.0	7142.3	7089.2
32.5°	8088.2	8203.1	7990.6	7928.9	7896.3	7949.4	7916.9	8030.0	7946.0	7863.8
35°	9154.1	9267.2	9065.0	8945.1	8814.8	8703.4	8586.9	8616.0	8537.2	8412.1
37.5°	10161.7	10369.1	10154.9	10026.3	9786.4	9568.8	9243.2	9107.8	9034.2	8919.3
40°	11188.2	11306.4	11143.6	11033.9	10773.5	10432.5	9911.5	9625.4	9526.0	9414.6
42.5°	11943.9	12057.0	11969.6	11894.2	11690.3	11294.4	10621.0	10262.8	10118.9	9993.8
45°	12543.6	12627.6	12572.8	12600.2	12512.8	12128.9	11356.1	10946.6	10797.5	10645.0
47.5°	12785.3	12874.4	12961.8	13124.6	13273.6	12990.9	12146.1	11686.8	11529.2	11373.2
50°	12757.8	12848.7	13102.3	13448.4	13911.1	13816.9	12978.9	12475.1	12329.4	12151.2
52.5°	12538.5	12641.3	12966.9	13542.7	14279.5	14435.5	13827.1	13289.1	13152.0	12939.5
55°	11962.7	12024.4	12512.8	13328.5	14366.9	14867.3	14658.2	14156.1	14019.1	13722.6
57.5°	10895.1	10984.3	11695.4	12751.0	14147.6	15160.3	15388.2	15067.8	14935.8	14509.2
60°	9502.0	9644.2	10458.2	11781.1	13588.9	15158.6	16051.4	15964.0	15854.3	15283.7
62.5°	7925.5	8090.0	8873.1	10410.2	12612.2	14728.5	16466.1	16714.6	16658.0	15998.3
65°	6086.7	6199.8	6979.5	8636.6	11092.2	13804.9	16514.1	17226.9	17237.2	16541.5
67.5°	4052.7	4378.3	5055.2	6480.9	9056.4	12295.2	16092.5	17310.9	17410.3	16728.3
70°	1977.5	2405.9	3069.1	4212.1	6480.9	9980.1	14990.7	16622.0	16843.1	16183.3
72.5°	820.8	959.6	1321.2	2078.6	3720.3	6734.5	12776.7	14754.2	15163.8	14339.5
75°	553.5	599.8	755.7	1065.9	1694.8	3321.0	9214.1	11001.4	11661.1	10830.0
77.5°	426.7	455.8	550.1	745.4	1007.6	1256.1	4931.8	6630.0	6971.0	6453.5
80°	335.9	358.1	411.3	543.2	714.6	671.7	1681.1	3004.0	3201.0	2685.2
82.5°	291.3	299.9	294.7	368.4	474.7	392.4	551.8	1108.7	1223.5	887.7
85°	210.8	234.8	245.0	227.9	251.9	198.8	226.2	392.4	431.8	385.6
87.5°	85.7	126.8	155.9	147.4	92.5	56.5	70.3	114.8	131.9	143.9
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°
3617.4	0°	3617.4	3617.4	3617.4	3617.4	3617.4	3617.4	3617.4	3617.4	3617.4	3617.4
3619.1	2.5°	3620.9	3632.9	3641.4	3651.7	3658.6	3668.8	3689.4	3701.4	3703.1	3711.7
3646.6	5°	3653.4	3670.6	3689.4	3716.8	3747.7	3773.4	3812.8	3840.2	3850.5	3859.1
3713.4	7.5°	3723.7	3747.7	3781.9	3829.9	3874.5	3908.7	3956.7	3989.3	4021.8	4033.8
3819.6	10°	3828.2	3862.5	3912.2	3977.3	4025.3	4069.8	4119.5	4146.9	4179.5	4193.2
3946.4	12.5°	3958.4	3994.4	4059.5	4150.4	4194.9	4225.8	4242.9	4236.0	4242.9	4254.9
4099.0	15°	4107.5	4146.9	4220.6	4318.3	4349.1	4321.7	4284.0	4249.8	4244.6	4248.0
4284.0	17.5°	4284.0	4313.2	4398.8	4481.1	4458.8	4345.7	4263.5	4208.6	4181.2	4172.6
4520.5	20°	4530.8	4530.8	4601.0	4652.5	4503.4	4311.4	4182.9	4093.8	4037.3	4013.3
4842.7	22.5°	4830.7	4803.3	4847.8	4811.8	4494.8	4215.5	4037.3	3883.0	3797.4	3763.1
5293.3	25°	5211.1	5178.5	5166.5	4943.8	4433.1	4063.0	3773.4	3586.6	3511.2	3492.3
5942.8	27.5°	5785.2	5702.9	5547.0	5015.7	4320.0	3823.1	3464.9	3291.8	3249.0	3250.7
6777.3	30°	6549.4	6384.9	6002.8	5027.7	4134.9	3483.8	3149.6	3026.2	3005.7	3014.2
7478.2	32.5°	7257.1	7101.2	6468.9	4972.9	3850.5	3151.3	2866.9	2784.6	2753.8	2764.1
8012.8	35°	7812.4	7769.5	6900.7	4895.8	3500.9	2839.5	2613.3	2543.0	2483.0	2469.3
8516.7	37.5°	8336.7	8319.6	7224.6	4787.8	3154.8	2618.4	2409.3	2316.8	2229.4	2181.4
9073.6	40°	8912.5	8895.4	7437.1	4621.6	2848.0	2426.5	2226.0	2104.3	1996.4	1909.0
9704.2	42.5°	9560.2	9459.1	7538.2	4383.4	2587.6	2263.7	2076.9	1912.4	1770.2	1689.6
10417.0	45°	10268.0	10040.1	7536.5	4080.1	2368.2	2114.6	1917.5	1684.5	1552.5	1477.1
11148.8	47.5°	11018.5	10595.3	7443.9	3744.2	2155.7	1950.1	1670.8	1492.6	1405.2	1358.9
11943.9	50°	11793.1	11114.5	7286.3	3358.7	1938.1	1763.3	1516.5	1394.9	1328.0	1285.2
12732.1	52.5°	12521.4	11585.7	7096.1	2921.7	1717.0	1581.7	1448.0	1353.8	1283.5	1235.5
13496.4	55°	13198.2	11991.9	6827.0	2474.5	1537.1	1460.0	1415.4	1336.6	1256.1	1199.5
14272.7	57.5°	13799.7	12255.8	6362.6	2054.6	1408.6	1376.0	1381.2	1307.5	1215.0	1167.0
15036.9	60°	14300.1	12449.4	5675.5	1665.6	1304.1	1293.8	1328.0	1252.7	1144.7	1089.9
15683.0	62.5°	14600.0	12446.0	4832.4	1364.0	1215.0	1218.4	1257.8	1184.1	1074.4	1023.0
16020.6	65°	14574.3	12140.9	3907.0	1167.0	1129.3	1132.7	1184.1	1108.7	1016.2	985.3
15850.9	67.5°	14058.5	11397.2	2997.1	1038.4	1035.0	1050.4	1110.4	1057.3	980.2	976.8
14839.9	70°	12661.9	9853.3	2159.2	935.6	937.3	959.6	1038.4	1024.7	961.3	968.2
12476.8	72.5°	10153.1	7512.5	1449.7	827.7	829.4	865.4	969.9	999.0	942.5	1033.3
8852.5	75°	6761.9	4685.0	932.2	712.9	714.6	760.8	909.9	949.3	891.1	1029.9
4606.2	77.5°	3249.0	2106.0	675.2	599.8	599.8	642.6	786.5	850.0	759.1	800.3
1480.6	80°	1122.4	791.7	531.2	483.2	473.0	502.1	663.2	736.9	654.6	603.2
483.2	82.5°	442.1	411.3	426.7	375.3	341.0	359.9	515.8	608.3	481.5	435.3
272.5	85°	253.6	267.3	301.6	248.5	197.1	221.1	378.7	437.0	363.3	320.4
89.1	87.5°	68.5	94.2	138.8	128.5	89.1	94.2	179.9	241.6	209.1	161.1
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>
3617.4
3710.0
3857.3
4035.6
4200.1
4258.3
4260.0
4184.6
4008.1
3758.0
3495.8
3255.9
3043.4
2777.8
2479.6
2183.1
1917.5
1694.8
1473.7
1348.6
1269.8
1215.0
1177.3
1136.1
1065.9
1007.6
983.6
981.9
966.5
1047.0
1038.4
733.4
565.5
433.5
327.3
166.2
0.0

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