

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: P953922

Luminaire Tested: **GALN-SB7B-827-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953922
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7B-827-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34755 lumens
Efficiency: N/A
Efficacy: 135.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

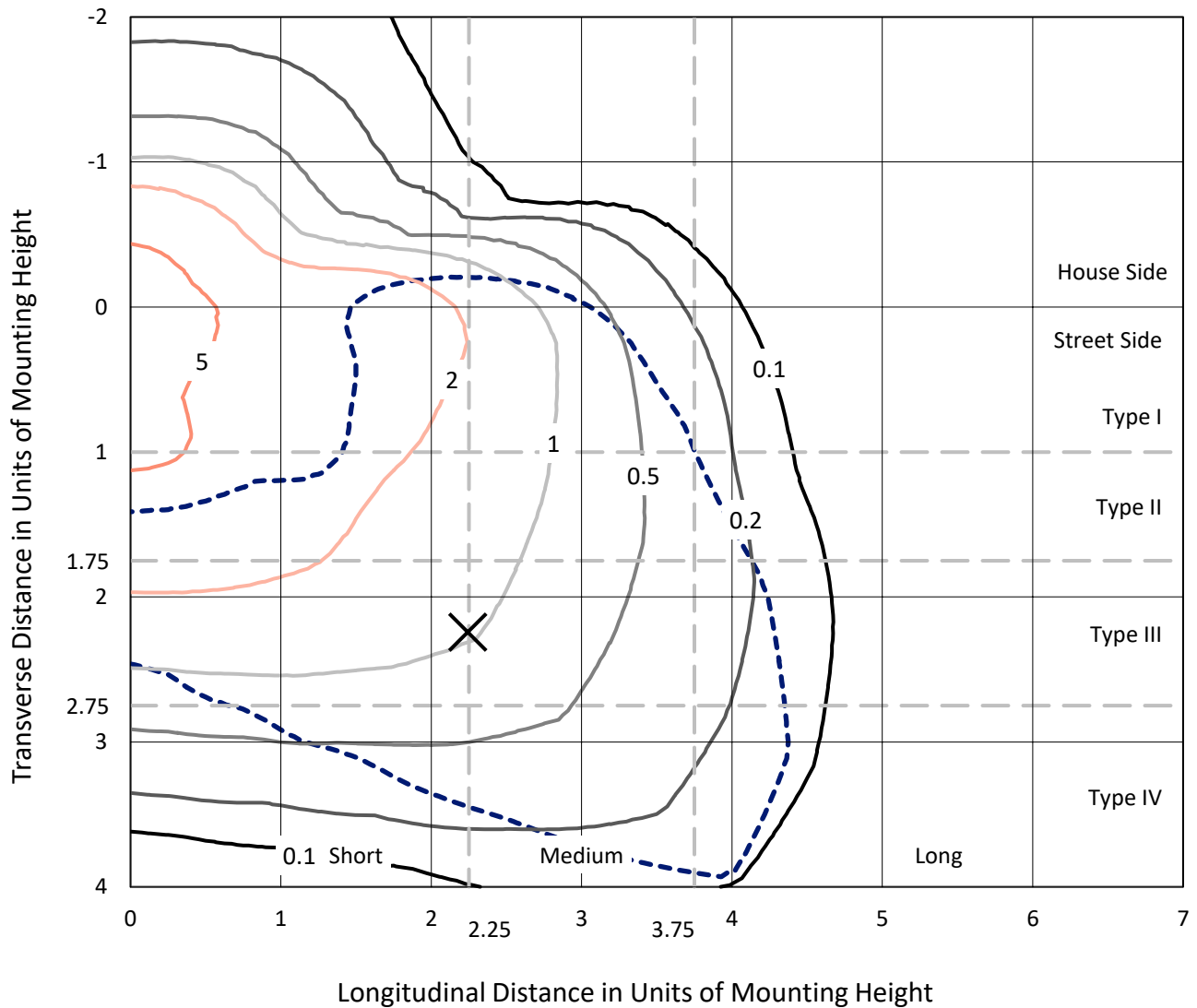
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

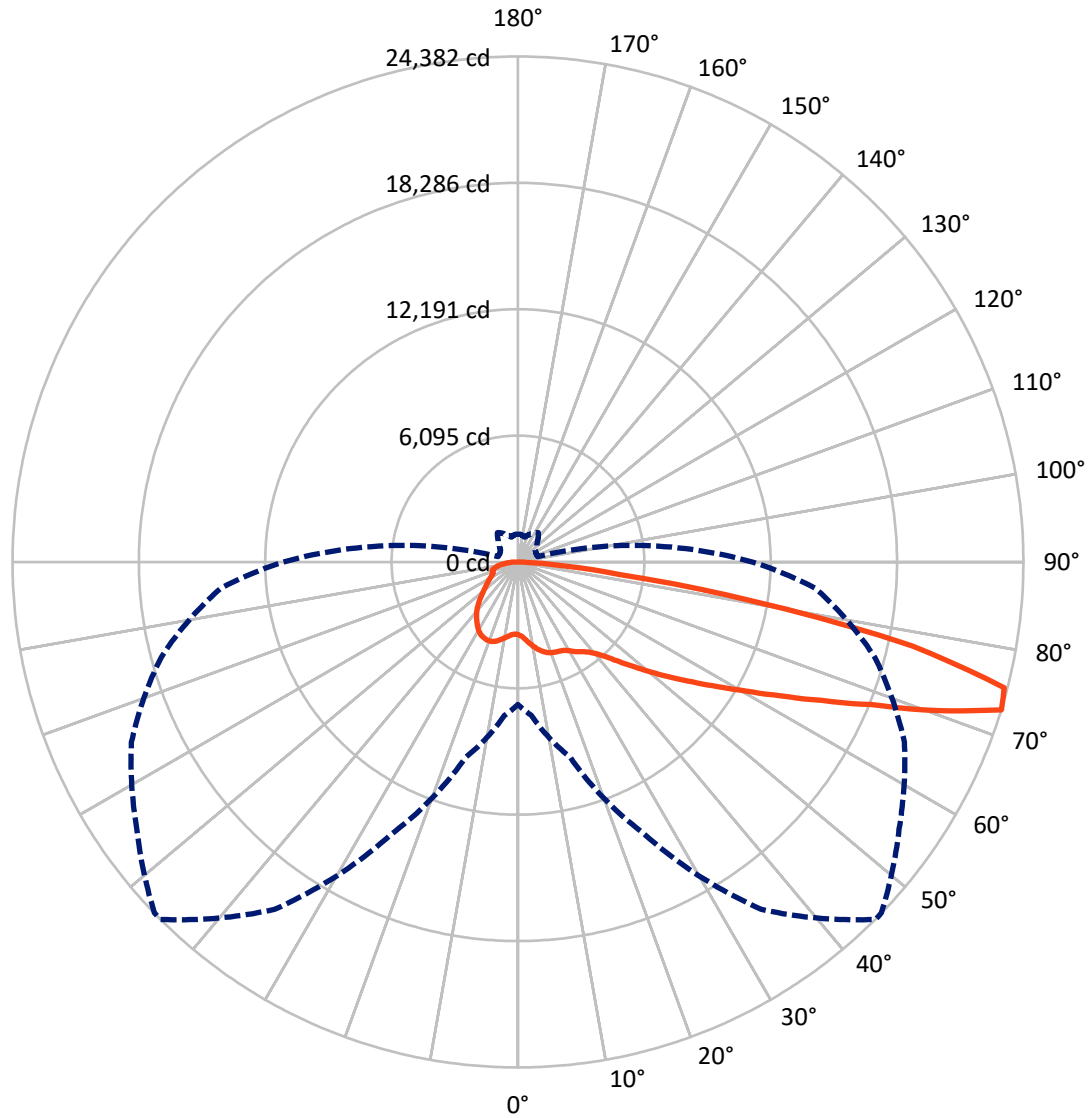
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7856.9	0.0	7856.9
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	26898.1	0.0	26898.1
	% Fixture	77.4	0.0	77.4
Total	Lumens	34755.0	0.0	34755.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.9	1.0
10°-20°	1189.8	3.4
20°-30°	2069.7	6.0
30°-40°	2967.0	8.5
40°-50°	4177.8	12.0
50°-60°	6399.1	18.4
60°-70°	9270.1	26.7
70°-80°	7402.7	21.3
80°-90°	922.0	2.7
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°	34755.0	100.0
0°-180°	34755.0	100.0

Coefficient of Utilization



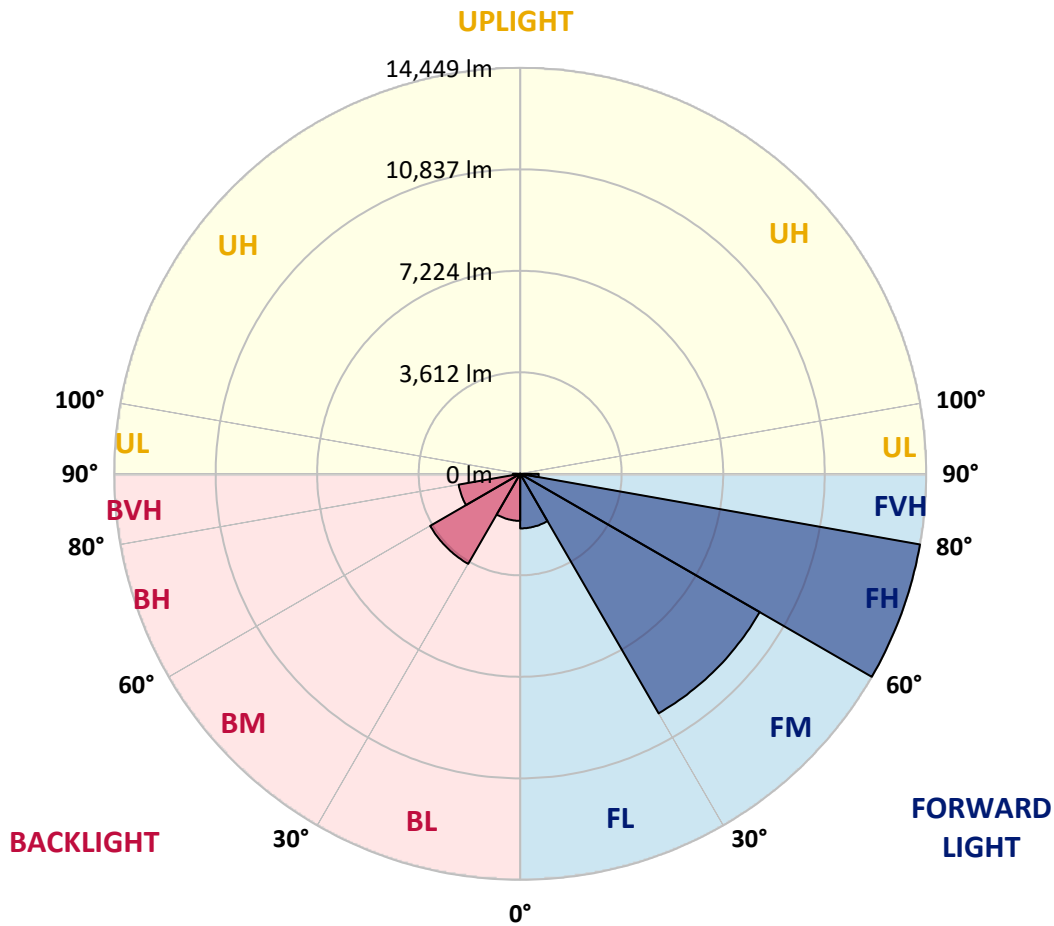
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1943.6	5.6			
FM (30°-60°)	9844.4	28.3			
FH (60°-80°)	14448.7	41.6			G5
FVH (80°-90°)	661.4	1.9			G4/750
BL (0°-30°)	1672.8	4.8	B3/2500		
BM (30°-60°)	3699.5	10.6	B3/5000		
BH (60°-80°)	2224.1	6.4	B3/2500		G3/2500
BVH (80°-90°)	260.5	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	3506.1	3506.1	3506.1	3506.1	3506.1	3506.1	3506.1	3506.1	3506.1	3506.1
2.5°	3643.4	3667.2	3645.2	3625.1	3616.0	3592.2	3590.3	3575.7	3566.5	3540.9
5°	3897.9	3929.0	3892.4	3852.1	3815.5	3756.9	3749.6	3707.5	3659.9	3605.0
7.5°	4185.4	4212.8	4170.7	4110.3	4046.2	3949.2	3947.3	3870.4	3795.4	3702.0
10°	4436.2	4472.8	4416.0	4333.7	4253.1	4143.2	4130.4	4042.5	3947.3	3826.5
12.5°	4657.7	4683.3	4628.4	4527.7	4434.4	4324.5	4308.0	4211.0	4104.8	3967.5
15°	4833.5	4866.4	4793.2	4685.2	4586.3	4478.3	4463.6	4375.8	4269.6	4124.9
17.5°	4948.8	4976.3	4901.2	4780.4	4685.2	4595.5	4584.5	4511.2	4417.9	4271.4
20°	4992.8	5022.1	4943.3	4820.7	4732.8	4663.2	4657.7	4604.6	4540.5	4406.9
22.5°	5036.7	5064.2	4961.6	4833.5	4756.6	4712.6	4710.8	4676.0	4650.4	4540.5
25°	5214.3	5221.6	5084.3	4899.4	4789.5	4751.1	4749.3	4747.4	4758.4	4672.4
27.5°	5368.1	5366.3	5249.1	5075.2	4904.9	4824.3	4822.5	4840.8	4875.6	4804.2
30°	5593.3	5573.1	5434.0	5252.7	5097.1	4972.6	4961.6	4945.2	4972.6	4915.9
32.5°	6071.1	6007.1	5781.9	5459.6	5256.4	5161.2	5146.6	5044.0	5055.0	5020.2
35°	6755.9	6671.7	6371.4	5851.4	5454.1	5318.7	5311.3	5181.3	5159.4	5128.2
37.5°	7570.6	7466.3	7116.6	6419.0	5794.7	5501.7	5490.8	5373.6	5283.9	5250.9
40°	8389.0	8257.2	7967.9	7111.1	6296.3	5807.5	5772.7	5595.1	5492.6	5437.7
42.5°	9183.6	9073.8	8826.6	7887.4	6915.2	6254.2	6177.3	5873.4	5796.5	5745.2
45°	9886.7	9787.8	9606.5	8716.7	7640.2	6862.1	6787.0	6290.8	6267.0	6267.0
47.5°	10457.9	10435.9	10243.7	9562.6	8495.2	7554.1	7424.2	6871.2	6935.3	7034.2
50°	11091.4	11031.0	10825.9	10395.6	9500.3	8346.9	8240.7	7583.4	7823.3	8094.2
52.5°	11673.6	11706.5	11477.7	11263.5	10635.5	9231.2	9044.5	8423.8	8941.9	9390.5
55°	12272.3	12274.1	12210.0	12180.7	11825.5	10208.9	10003.8	9434.4	10258.3	10814.9
57.5°	12834.4	12838.0	12933.2	13191.4	13206.0	11336.7	11104.2	10675.8	11721.2	12288.8
60°	13336.0	13361.6	13621.6	14225.8	14419.9	12629.3	12409.6	12142.3	13233.5	13804.7
62.5°	13504.4	13597.8	14176.4	15035.0	15619.1	14214.8	13998.8	13839.5	14822.7	15353.6
65°	13218.8	13433.0	14551.7	15703.3	16853.1	16098.8	15884.6	15710.6	16474.1	16973.9
67.5°	12517.6	12794.1	14529.7	16404.5	18350.7	18365.4	18165.8	17757.5	18244.6	18436.8
70°	10670.3	11084.0	13250.0	16666.3	20069.9	21465.0	21272.8	20221.9	20011.3	19081.3
72.5°	6874.9	7431.5	9756.7	14511.4	20452.6	24381.6	24370.6	22446.4	20569.7	17828.9
75°	2508.3	2848.8	4533.2	9108.5	17168.0	24233.3	24304.7	22065.6	18777.3	13771.8
77.5°	913.6	999.7	1479.3	3500.6	10558.6	19443.8	19592.1	17640.4	13365.3	6911.5
80°	479.7	527.3	758.0	1358.5	4524.1	11547.3	11779.8	10483.5	6281.7	2081.7
82.5°	265.5	287.4	424.8	737.8	2037.8	4937.8	5077.0	4141.4	2209.9	882.5
85°	142.8	152.0	199.6	402.8	996.0	1711.9	1750.3	1237.7	880.6	518.1
87.5°	42.1	51.3	65.9	128.2	390.0	384.5	393.6	245.3	347.9	261.8
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°
3506.1	0°	3506.1	3506.1	3506.1	3506.1	3506.1	3506.1	3506.1	3506.1	3506.1	3506.1
3533.6	2.5°	3522.6	3517.1	3496.9	3487.8	3476.8	3475.0	3484.1	3486.0	3487.8	3489.6
3573.8	5°	3555.5	3537.2	3518.9	3507.9	3511.6	3513.4	3531.7	3544.6	3553.7	3561.0
3648.9	7.5°	3619.6	3605.0	3573.8	3572.0	3577.5	3594.0	3617.8	3647.1	3663.6	3676.4
3745.9	10°	3714.8	3687.4	3650.7	3656.2	3667.2	3691.0	3740.5	3764.3	3791.7	3815.5
3865.0	12.5°	3811.9	3788.1	3745.9	3749.6	3767.9	3810.0	3857.6	3886.9	3905.2	3923.5
3993.1	15°	3938.2	3896.1	3850.3	3850.3	3883.3	3929.0	3951.0	3974.8	3985.8	4005.9
4130.4	17.5°	4068.2	4013.3	3952.8	3949.2	3989.5	4011.4	4024.2	4027.9	4031.6	4053.5
4264.1	20°	4198.2	4137.8	4051.7	4044.4	4053.5	4049.9	4048.0	4044.4	4049.9	4077.3
4401.4	22.5°	4326.3	4256.8	4137.8	4104.8	4079.2	4044.4	4042.5	4040.7	4044.4	4071.8
4549.7	25°	4476.5	4392.2	4233.0	4134.1	4048.0	4000.4	4005.9	4007.8	4011.4	4033.4
4703.5	27.5°	4639.4	4546.0	4320.8	4124.9	3969.3	3936.4	3927.2	3932.7	3945.5	3980.3
4857.3	30°	4802.4	4692.5	4401.4	4088.3	3870.4	3824.7	3795.4	3808.2	3848.5	3883.3
4990.9	32.5°	4950.7	4840.8	4465.5	4007.8	3744.1	3672.7	3634.3	3650.7	3691.0	3703.8
5139.2	35°	5124.6	5000.1	4492.9	3879.6	3606.8	3496.9	3445.7	3421.9	3442.0	3429.2
5313.2	37.5°	5318.7	5188.7	4489.3	3711.2	3445.7	3319.4	3248.0	3158.2	3116.1	3072.2
5569.5	40°	5606.1	5419.4	4445.3	3507.9	3246.1	3130.8	3002.6	2850.7	2755.4	2669.4
5983.3	42.5°	5997.9	5739.8	4364.8	3284.6	3020.9	2912.9	2739.0	2561.4	2411.2	2268.4
6611.2	45°	6582.0	6159.0	4264.1	3046.6	2777.4	2671.2	2482.7	2283.1	2112.8	1929.7
7502.9	47.5°	7424.2	6722.9	4168.9	2775.6	2521.1	2424.1	2253.8	2068.9	1867.5	1689.9
8791.8	50°	8581.3	7532.2	4081.0	2511.9	2268.4	2195.2	2059.7	1871.1	1667.9	1525.1
10302.3	52.5°	10053.3	8632.5	4044.4	2257.5	2032.3	2004.8	1896.8	1721.0	1528.8	1407.9
12063.6	55°	11743.2	9948.9	4044.4	2013.9	1825.4	1834.5	1759.5	1596.5	1429.9	1321.9
13879.8	57.5°	13467.8	11281.8	3971.1	1788.8	1649.6	1688.1	1640.5	1497.6	1347.5	1235.8
15789.4	60°	15057.0	12398.6	3674.5	1583.7	1494.0	1554.4	1523.3	1400.6	1217.5	1124.2
17385.9	62.5°	16278.2	13028.4	3103.3	1420.7	1365.8	1435.4	1418.9	1272.4	1193.7	1155.3
18696.8	65°	16889.7	12925.9	2372.8	1276.1	1257.8	1365.8	1331.0	1325.5	1263.3	1219.4
19123.4	67.5°	16514.4	12043.4	1721.0	1169.9	1195.6	1301.7	1435.4	1457.4	1342.0	1256.0
17922.3	70°	14868.4	10446.9	1281.6	1069.2	1116.8	1303.6	1636.8	1525.1	1316.4	1215.7
14374.1	72.5°	11311.1	7790.3	994.2	963.0	1014.3	1312.7	1726.5	1494.0	1243.2	1343.9
8954.8	75°	6468.4	4276.9	798.3	833.0	886.1	1226.7	1680.7	1413.4	1186.4	1234.0
3548.2	77.5°	2466.2	1644.1	659.1	704.9	712.2	1071.1	1607.5	1407.9	1129.6	1102.2
1063.7	80°	855.0	642.6	545.6	560.2	551.1	952.0	1541.6	1224.8	924.6	827.6
439.4	82.5°	349.7	320.4	432.1	413.8	391.8	739.7	1245.0	1001.5	756.1	668.3
212.4	85°	152.0	203.2	285.6	250.8	227.0	512.6	997.8	847.7	639.0	551.1
69.6	87.5°	31.1	76.9	120.8	113.5	117.2	342.4	708.5	602.4	452.2	338.7
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>
3506.1
3496.9
3564.7
3680.0
3810.0
3930.9
4013.3
4060.9
4088.3
4090.1
4062.7
4015.1
3921.7
3749.6
3469.5
3099.7
2674.9
2255.6
1907.8
1669.7
1516.0
1398.8
1310.9
1217.5
1109.5
1142.5
1204.7
1241.3
1199.2
1332.9
1234.0
1005.1
800.1
660.9
549.3
265.5
0.0

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