

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: P953964

Luminaire Tested: **GALN-SB7B-835-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953964
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-835-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37072 lumens
Efficiency: N/A
Efficacy: 144.4 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

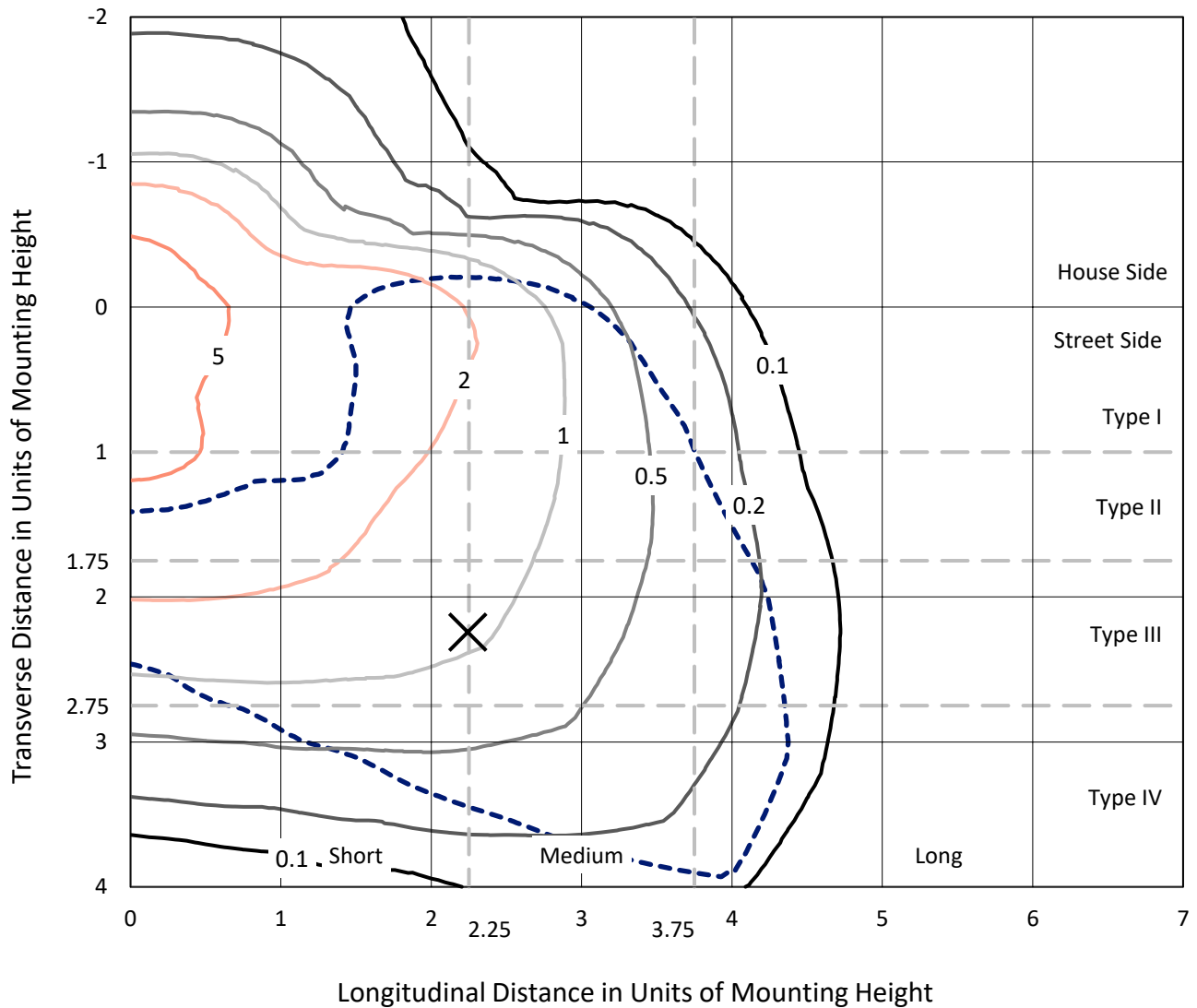
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

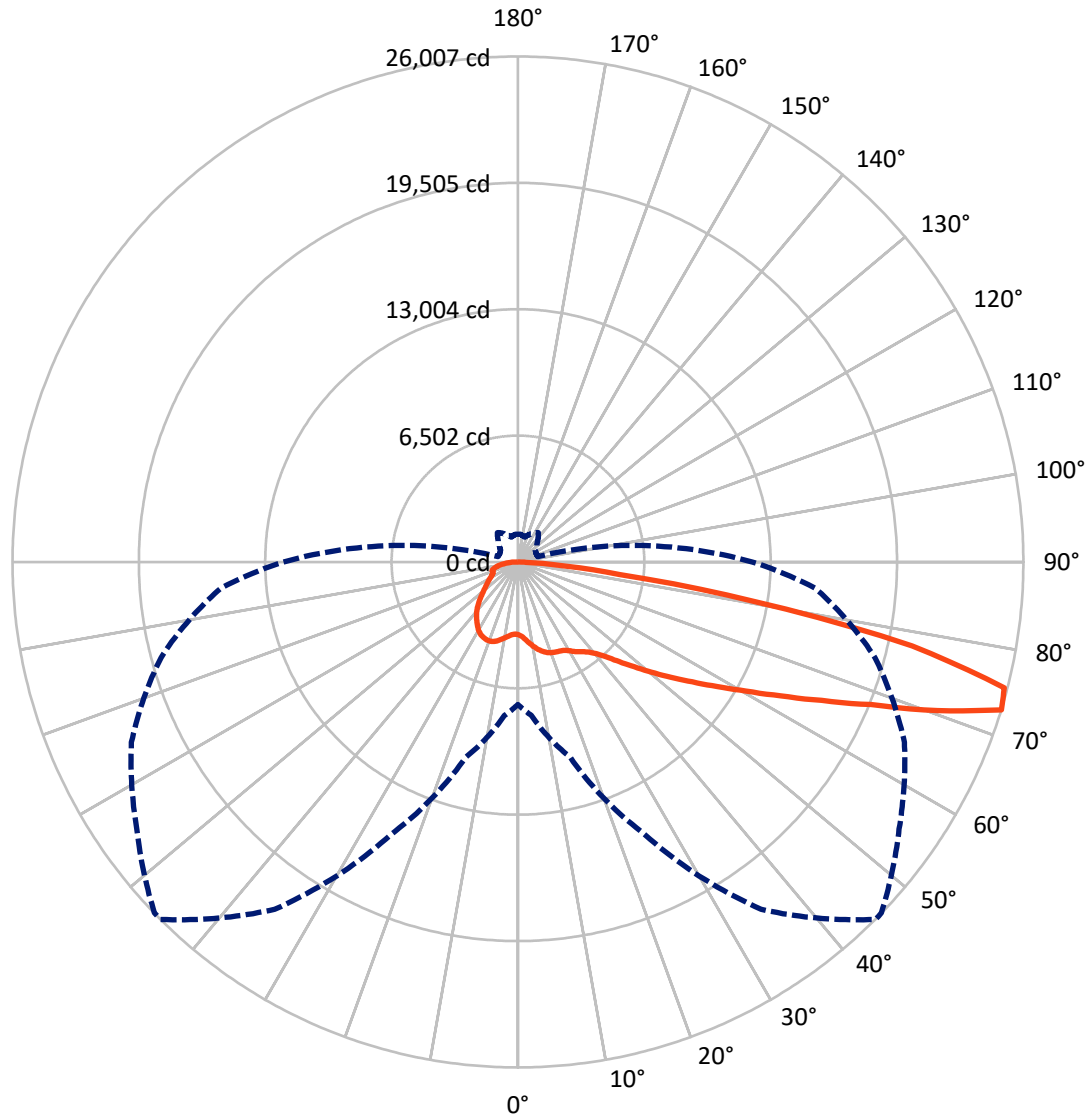
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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	8380.7	0.0	8380.7
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	28691.3	0.0	28691.3
	% Fixture	77.4	0.0	77.4
Total	Lumens	37072.0	0.0	37072.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.6	1.0
10°-20°	1269.1	3.4
20°-30°	2207.7	6.0
30°-40°	3164.8	8.5
40°-50°	4456.3	12.0
50°-60°	6825.7	18.4
60°-70°	9888.1	26.7
70°-80°	7896.2	21.3
80°-90°	983.4	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°	37072.0	100.0
0°-180°	37072.0	100.0

Coefficient of Utilization



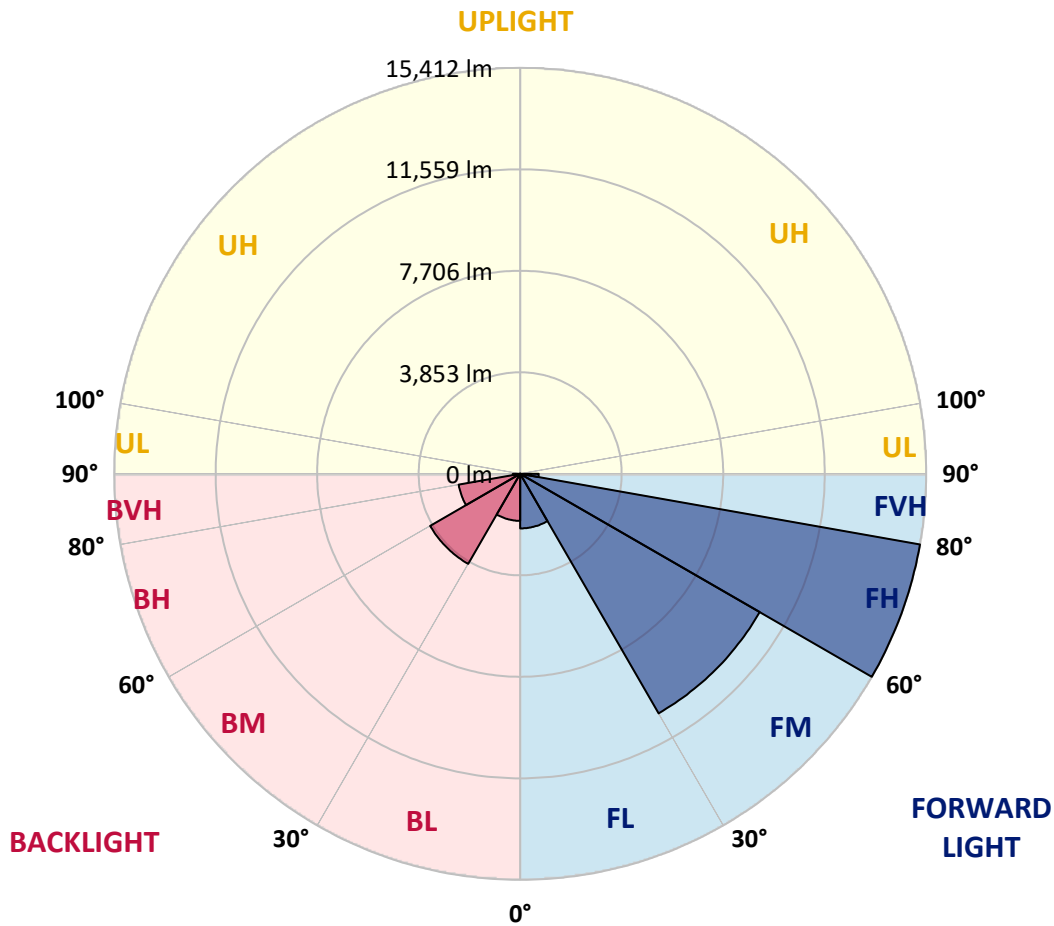
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2073.1	5.6			
FM (30°-60°)	10500.7	28.3			
FH (60°-80°)	15411.9	41.6			G5
FVH (80°-90°)	705.5	1.9			G4/750
BL (0°-30°)	1784.3	4.8	B3/2500		
BM (30°-60°)	3946.1	10.6	B3/5000		
BH (60°-80°)	2372.4	6.4	B3/2500		G3/2500
BVH (80°-90°)	277.9	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°	3739.8	3739.8	3739.8	3739.8	3739.8	3739.8	3739.8	3739.8	3739.8	3739.8
2.5°	3886.3	3911.7	3888.3	3866.8	3857.0	3831.6	3829.7	3814.1	3804.3	3776.9
5°	4157.8	4191.0	4151.9	4108.9	4069.9	4007.4	3999.6	3954.7	3903.9	3845.3
7.5°	4464.4	4493.7	4448.8	4384.3	4316.0	4212.5	4210.5	4128.5	4048.4	3948.8
10°	4731.9	4771.0	4710.4	4622.6	4536.6	4419.5	4405.8	4312.0	4210.5	4081.6
12.5°	4968.2	4995.6	4937.0	4829.6	4730.0	4612.8	4595.2	4491.7	4378.4	4232.0
15°	5155.7	5190.9	5112.7	4997.5	4892.1	4776.8	4761.2	4667.5	4554.2	4399.9
17.5°	5278.7	5308.0	5228.0	5099.1	4997.5	4901.8	4890.1	4812.0	4712.4	4556.2
20°	5325.6	5356.9	5272.9	5142.0	5048.3	4974.1	4968.2	4911.6	4843.2	4700.7
22.5°	5372.5	5401.8	5292.4	5155.7	5073.7	5026.8	5024.9	4987.8	4960.4	4843.2
25°	5561.9	5569.7	5423.3	5226.0	5108.8	5067.8	5065.9	5063.9	5075.6	4983.9
27.5°	5726.0	5724.0	5599.0	5413.5	5231.9	5145.9	5144.0	5163.5	5200.6	5124.5
30°	5966.2	5944.7	5796.3	5602.9	5436.9	5304.1	5292.4	5274.8	5304.1	5243.6
32.5°	6475.9	6407.5	6167.3	5823.6	5606.8	5505.3	5489.7	5380.3	5392.0	5354.9
35°	7206.3	7116.4	6796.2	6241.5	5817.8	5673.2	5665.4	5526.8	5503.3	5470.1
37.5°	8075.3	7964.0	7591.0	6846.9	6181.0	5868.5	5856.8	5731.8	5636.1	5601.0
40°	8948.3	8807.7	8499.1	7585.1	6716.1	6194.7	6157.6	5968.1	5858.8	5800.2
42.5°	9795.9	9678.7	9415.0	8413.2	7376.2	6671.2	6589.2	6265.0	6182.9	6128.3
45°	10545.8	10440.3	10247.0	9297.9	8149.5	7319.5	7239.5	6710.2	6684.8	6684.8
47.5°	11155.1	11131.6	10926.6	10200.1	9061.6	8057.8	7919.1	7329.3	7397.7	7503.1
50°	11830.8	11766.3	11547.6	11088.7	10133.7	8903.4	8790.1	8089.0	8344.8	8633.9
52.5°	12451.8	12487.0	12242.9	12014.4	11344.5	9846.6	9647.4	8985.4	9538.1	10016.5
55°	13090.4	13092.4	13024.0	12992.8	12613.9	10889.5	10670.8	10063.4	10942.2	11535.9
57.5°	13690.0	13693.9	13795.4	14070.8	14086.4	12092.5	11844.5	11387.5	12502.6	13108.0
60°	14225.1	14252.4	14529.7	15174.2	15381.2	13471.2	13236.9	12951.8	14115.7	14725.0
62.5°	14404.7	14504.3	15121.5	16037.4	16660.4	15162.5	14932.0	14762.1	15810.8	16377.2
65°	14100.1	14328.6	15521.8	16750.2	17976.6	17172.0	16943.5	16758.0	17572.4	18105.5
67.5°	13352.1	13647.0	15498.4	17498.2	19574.1	19589.7	19376.9	18941.4	19460.9	19665.9
70°	11381.6	11823.0	14133.3	17777.4	21407.9	22896.0	22691.0	21570.0	21345.4	20353.3
72.5°	7333.2	7926.9	10407.1	15478.8	21816.1	26007.0	25995.3	23942.8	21941.1	19017.5
75°	2675.5	3038.7	4835.4	9715.8	18312.5	25848.9	25925.0	23536.6	20029.2	14689.9
77.5°	974.5	1066.3	1578.0	3734.0	11262.5	20740.0	20898.2	18816.4	14256.3	7372.3
80°	511.7	562.4	808.5	1449.1	4825.7	12317.1	12565.1	11182.4	6700.5	2220.5
82.5°	283.2	306.6	453.1	787.0	2173.6	5267.0	5415.4	4417.5	2357.2	941.3
85°	152.3	162.1	212.9	429.6	1062.4	1826.0	1867.0	1320.2	939.4	552.7
87.5°	44.9	54.7	70.3	136.7	416.0	410.1	419.9	261.7	371.1	279.3
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°
3739.8	0°	3739.8	3739.8	3739.8	3739.8	3739.8	3739.8	3739.8	3739.8	3739.8	3739.8
3769.1	2.5°	3757.4	3751.6	3730.1	3720.3	3708.6	3706.6	3716.4	3718.4	3720.3	3722.3
3812.1	5°	3792.6	3773.0	3753.5	3741.8	3745.7	3747.7	3767.2	3780.9	3790.6	3798.4
3892.2	7.5°	3860.9	3845.3	3812.1	3810.1	3816.0	3833.6	3859.0	3890.2	3907.8	3921.5
3995.7	10°	3962.5	3933.2	3894.1	3900.0	3911.7	3937.1	3989.8	4015.2	4044.5	4069.9
4122.6	12.5°	4066.0	4040.6	3995.7	3999.6	4019.1	4064.0	4114.8	4146.1	4165.6	4185.1
4259.3	15°	4200.7	4155.8	4107.0	4107.0	4142.1	4191.0	4214.4	4239.8	4251.5	4273.0
4405.8	17.5°	4339.4	4280.8	4216.4	4212.5	4255.4	4278.8	4292.5	4296.4	4300.3	4323.8
4548.4	20°	4478.0	4413.6	4321.8	4314.0	4323.8	4319.9	4317.9	4314.0	4319.9	4349.2
4694.8	22.5°	4614.8	4540.5	4413.6	4378.4	4351.1	4314.0	4312.0	4310.1	4314.0	4343.3
4853.0	25°	4774.9	4685.1	4515.2	4409.7	4317.9	4267.1	4273.0	4274.9	4278.8	4302.3
5017.1	27.5°	4948.7	4849.1	4608.9	4399.9	4233.9	4198.8	4189.0	4194.9	4208.5	4245.6
5181.1	30°	5122.5	5005.3	4694.8	4360.9	4128.5	4079.7	4048.4	4062.1	4105.0	4142.1
5323.7	32.5°	5280.7	5163.5	4763.2	4274.9	3993.7	3917.6	3876.5	3894.1	3937.1	3950.8
5481.8	35°	5466.2	5333.4	4792.5	4138.2	3847.3	3730.1	3675.4	3650.0	3671.5	3657.8
5667.4	37.5°	5673.2	5534.6	4788.6	3958.6	3675.4	3540.6	3464.5	3368.8	3323.9	3277.0
5940.8	40°	5979.8	5780.6	4741.7	3741.8	3462.5	3339.5	3202.8	3040.7	2939.1	2847.4
6382.1	42.5°	6397.8	6122.4	4655.8	3503.5	3222.3	3107.1	2921.6	2732.1	2572.0	2419.7
7052.0	45°	7020.8	6569.6	4548.4	3249.7	2962.6	2849.3	2648.2	2435.3	2253.7	2058.4
8003.1	47.5°	7919.1	7171.1	4446.8	2960.6	2689.2	2585.7	2404.0	2206.8	1992.0	1802.5
9377.9	50°	9153.3	8034.3	4353.1	2679.4	2419.7	2341.6	2197.0	1995.9	1779.1	1626.8
10989.1	52.5°	10723.5	9208.0	4314.0	2408.0	2167.7	2138.4	2023.2	1835.7	1630.7	1501.8
12867.8	55°	12526.0	10612.2	4314.0	2148.2	1947.1	1956.8	1876.8	1702.9	1525.2	1410.0
14805.1	57.5°	14365.7	12033.9	4235.9	1908.0	1759.6	1800.6	1749.8	1597.5	1437.3	1318.2
16842.0	60°	16060.8	13225.2	3919.5	1689.3	1593.6	1658.0	1624.8	1494.0	1298.7	1199.1
18544.9	62.5°	17363.4	13897.0	3310.2	1515.5	1456.9	1531.1	1513.5	1357.3	1273.3	1232.3
19943.2	65°	18015.7	13787.6	2531.0	1361.2	1341.7	1456.9	1419.8	1413.9	1347.5	1300.6
20398.3	67.5°	17615.3	12846.3	1835.7	1247.9	1275.3	1388.5	1531.1	1554.5	1431.5	1339.7
19117.1	70°	15859.7	11143.4	1367.0	1140.5	1191.3	1390.5	1745.9	1626.8	1404.2	1296.7
15332.4	72.5°	12065.1	8309.7	1060.4	1027.2	1081.9	1400.2	1841.6	1593.6	1326.0	1433.4
9551.7	75°	6899.7	4562.0	851.5	888.6	945.2	1308.5	1792.8	1507.7	1265.5	1316.3
3784.8	77.5°	2630.6	1753.7	703.1	751.9	759.7	1142.5	1714.7	1501.8	1205.0	1175.7
1134.6	80°	912.0	685.5	582.0	597.6	587.8	1015.5	1644.4	1306.5	986.2	882.7
468.7	82.5°	373.0	341.8	460.9	441.4	417.9	789.0	1328.0	1068.2	806.6	712.8
226.5	85°	162.1	216.8	304.7	267.6	242.2	546.8	1064.3	904.2	681.6	587.8
74.2	87.5°	33.2	82.0	128.9	121.1	125.0	365.2	755.8	642.5	482.4	361.3
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°
3739.8
3730.1
3802.3
3925.4
4064.0
4192.9
4280.8
4331.6
4360.9
4362.8
4333.5
4282.8
4183.2
3999.6
3700.8
3306.3
2853.2
2406.0
2034.9
1781.1
1617.0
1492.0
1398.3
1298.7
1183.5
1218.6
1285.0
1324.1
1279.2
1421.7
1316.3
1072.2
853.4
705.0
585.9
283.2
0.0

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