

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: P957058

Luminaire Tested: **GALN-SB9C-740-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957058
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9C-740-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 71731 lumens
Efficiency: N/A
Efficacy: 159.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

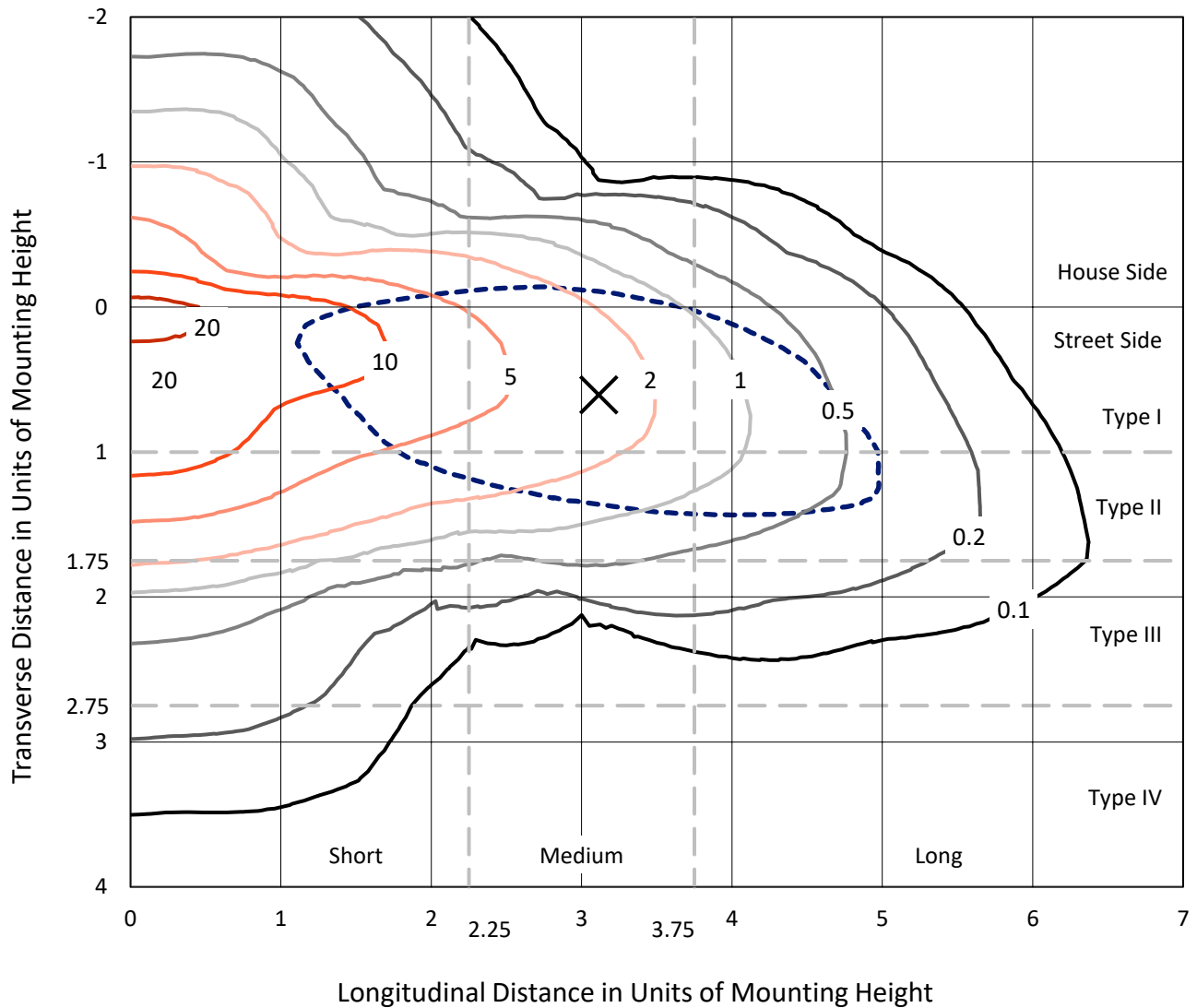
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

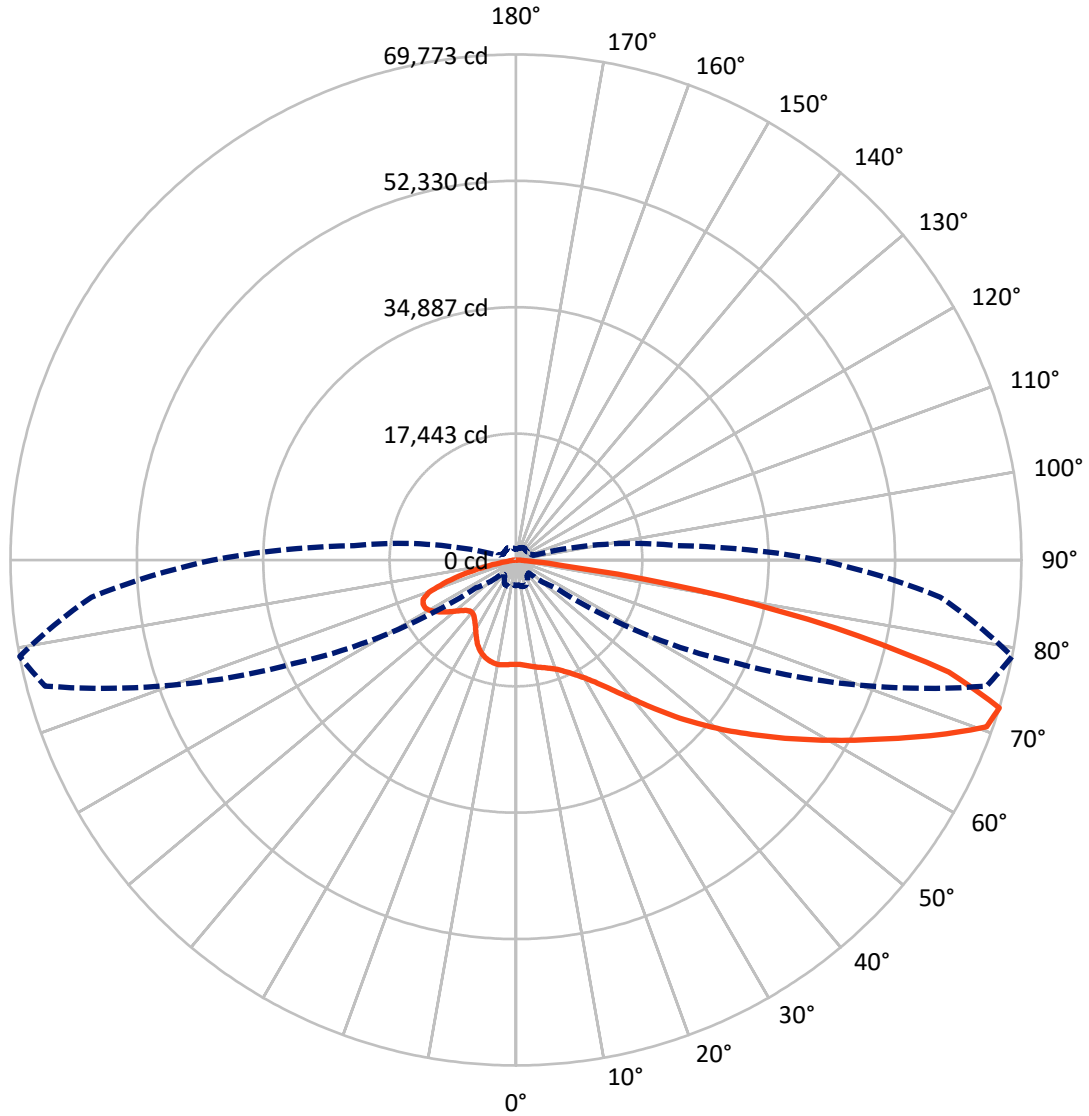
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15784.8	0.0	15784.8
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	55946.2	0.0	55946.2
	% Fixture	78.0	0.0	78.0
Total	Lumens	71731.0	0.0	71731.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1307.0	1.8
10°-20°	3417.3	4.8
20°-30°	5514.1	7.7
30°-40°	8275.8	11.5
40°-50°	11739.7	16.4
50°-60°	14825.7	20.7
60°-70°	15057.5	21.0
70°-80°	10262.4	14.3
80°-90°	1331.5	1.9
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°	71731.0	100.0
0°-180°	71731.0	100.0

Coefficient of Utilization



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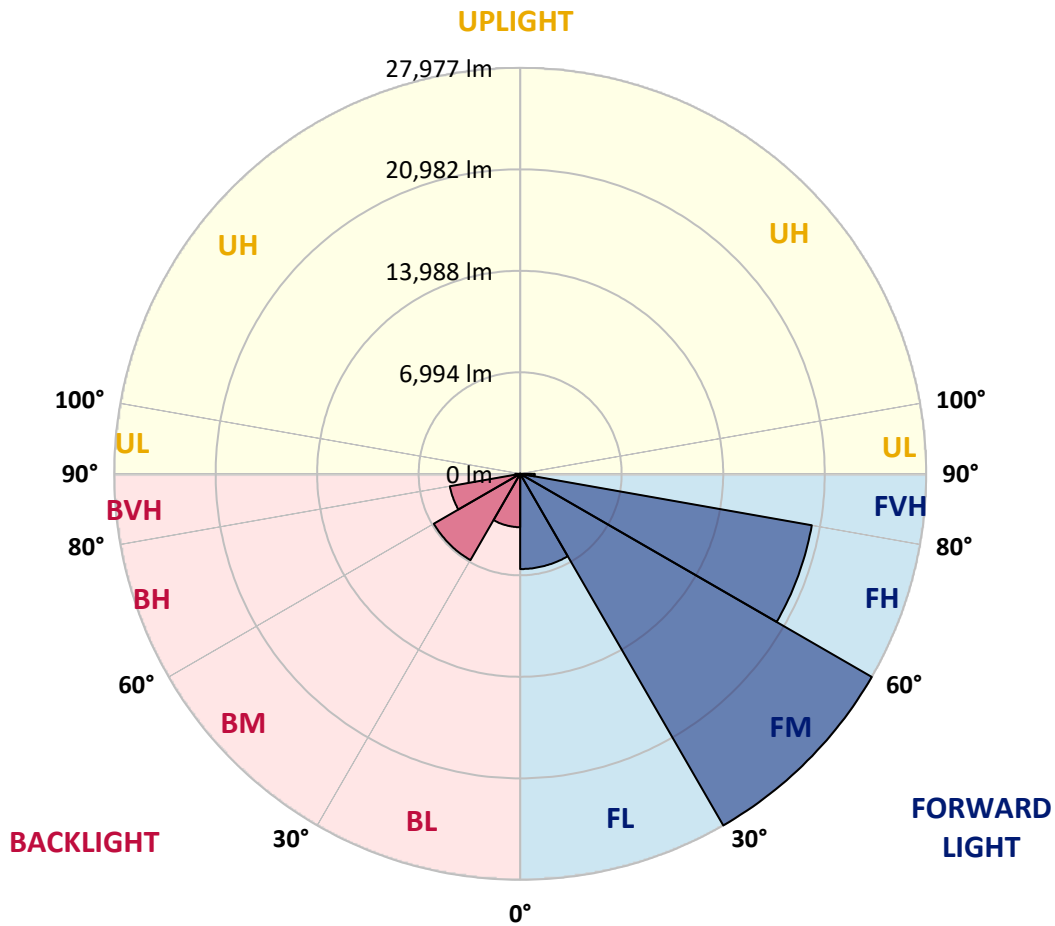
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6561.6	9.1			
FM (30°-60°)	27976.6	39.0			
FH (60°-80°)	20405.0	28.4			G5
FVH (80°-90°)	1003.0	1.4			G5
BL (0°-30°)	3676.7	5.1	B4/5000		
BM (30°-60°)	6864.7	9.6	B4/8500		
BH (60°-80°)	4914.9	6.9	B4/5000		G4/5000
BVH (80°-90°)	328.5	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	14399.3	14399.3	14399.3	14399.3	14399.3	14399.3	14399.3	14399.3	14399.3	14399.3
2.5°	14406.9	14338.6	14380.3	14365.2	14384.1	14406.9	14414.5	14425.9	14463.8	14460.0
5°	14376.6	14308.3	14365.2	14346.2	14395.5	14448.6	14494.2	14535.9	14596.6	14623.2
7.5°	14312.0	14266.5	14323.4	14380.3	14471.4	14551.1	14615.6	14710.4	14797.7	14812.9
10°	13936.4	13902.3	14035.1	14183.0	14433.5	14649.7	14790.1	14900.2	14995.0	15010.2
12.5°	13545.6	13503.9	13651.8	13852.9	14258.9	14649.7	14945.7	15089.9	15173.4	15222.7
15°	13481.1	13447.0	13530.4	13705.0	14042.7	14547.3	15051.9	15317.5	15389.6	15446.5
17.5°	13792.2	13727.7	13761.9	13822.6	14019.9	14452.4	15135.4	15575.5	15685.6	15746.3
20°	14513.1	14422.1	14369.0	14247.5	14213.4	14467.6	15127.8	15886.7	16030.9	16106.7
22.5°	15473.1	15412.4	15298.6	14991.2	14657.3	14653.5	15272.0	16285.1	16554.5	16626.6
25°	16634.2	16543.1	16398.9	15981.5	15340.3	15021.6	15514.8	16793.5	17245.0	17264.0
27.5°	17969.7	17833.1	17635.8	17085.7	16220.6	15598.3	15886.7	17377.8	18038.0	18030.4
30°	19377.4	19240.8	19032.1	18364.3	17275.4	16376.1	16402.7	18007.7	18979.0	18937.3
32.5°	20405.7	20303.2	20261.5	19745.5	18489.6	17294.4	16994.6	18705.8	20140.1	20102.1
35°	21194.9	21062.1	21111.4	20849.6	19813.8	18322.6	17719.3	19536.8	21551.5	21547.8
37.5°	21976.5	21858.9	21900.6	21726.1	21039.3	19627.8	18603.4	20553.6	23300.7	23384.2
40°	22689.8	22564.6	22731.6	22568.4	21991.7	21016.6	19608.9	21703.3	25326.9	25486.2
42.5°	23118.6	23019.9	23296.9	23300.7	22818.8	22189.0	20713.0	22970.6	27671.7	28028.4
45°	23266.6	23232.4	23649.8	23737.1	23551.1	22868.2	21707.1	24351.7	30198.7	30836.2
47.5°	23107.2	23042.7	23619.4	23941.9	24089.9	23186.9	22530.5	25846.7	32778.8	33712.2
50°	22302.8	22177.6	23035.1	23714.3	24241.7	23395.6	23361.4	27573.1	35711.8	36732.5
52.5°	20857.2	20762.3	21737.5	22917.5	23907.8	23498.0	24294.8	29458.8	38496.8	39817.2
55°	19009.4	18884.2	19957.9	21498.4	23076.8	23463.9	25228.2	31568.5	41782.7	43122.1
57.5°	16080.2	15829.8	17188.1	19009.4	21722.3	23422.1	26199.5	33666.7	45121.7	46726.6
60°	11807.8	11436.0	13101.7	15260.6	19073.9	23016.1	27402.3	36019.2	49128.4	50574.0
62.5°	6875.2	6659.0	7747.9	9762.7	14376.6	20625.7	28077.7	38754.8	53066.9	54584.6
65°	5338.6	5277.9	5372.7	5528.3	8002.1	15442.7	25994.7	41422.2	58075.3	59137.7
67.5°	4883.2	4837.7	4879.5	4587.3	4059.9	8601.6	20565.0	42097.6	63440.5	64085.5
70°	4340.7	4287.5	4424.1	4173.7	3194.8	3911.9	13287.6	39646.5	67709.0	68919.4
72.5°	3536.3	3475.6	3794.3	3680.5	2690.1	2511.8	6674.1	33822.3	67261.3	69773.1
75°	2716.7	2682.6	3062.0	3156.8	2193.1	1976.8	3202.4	25140.9	59190.9	61721.7
77.5°	2109.6	2083.1	2276.6	2621.9	1768.1	1532.9	1969.2	15947.4	44605.6	45049.6
80°	1582.2	1506.3	1684.7	2029.9	1377.3	1119.3	1335.6	9299.8	28195.3	25558.3
82.5°	990.3	952.4	1100.3	1354.6	971.3	770.2	868.9	5137.5	11299.4	6655.2
85°	565.3	550.2	599.5	774.0	527.4	443.9	497.1	2269.0	2064.1	1419.1
87.5°	227.7	220.1	273.2	345.3	193.5	163.2	174.5	546.4	455.3	421.2
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°
14399.3	0°	14399.3	14399.3	14399.3	14399.3	14399.3	14399.3	14399.3	14399.3	14399.3	14399.3
14456.2	2.5°	14441.1	14441.1	14387.9	14304.5	14209.6	14148.9	14050.2	14023.7	13921.2	13890.9
14585.2	5°	14615.6	14585.2	14422.1	14186.8	13864.3	13568.4	13242.1	13037.2	12748.8	12646.4
14839.5	7.5°	14835.7	14752.2	14471.4	13955.4	13280.0	12616.0	11925.4	11401.8	10901.0	10722.7
15048.1	10°	15036.8	14919.1	14441.1	13538.0	12369.4	11219.7	10119.4	9349.1	8764.8	8525.8
15279.6	12.5°	15237.9	15021.6	14240.0	12843.7	11075.5	9516.1	8343.6	7744.1	7383.7	7095.3
15469.3	15°	15427.6	15124.0	13928.8	11914.1	9656.5	8074.2	7209.1	6731.1	6442.7	6253.0
15746.3	17.5°	15647.6	15211.3	13462.1	10734.0	8305.7	7076.3	6370.6	6082.2	6025.3	6002.6
16125.7	20°	15955.0	15291.0	12847.5	9413.6	7311.6	6279.5	5915.3	5888.7	5884.9	5873.6
16581.0	22.5°	16285.1	15385.8	12035.5	8214.6	6465.5	5782.5	5718.0	5664.9	5630.7	5626.9
17131.2	25°	16675.9	15416.2	11018.6	7231.9	5744.5	5547.2	5471.4	5391.7	5368.9	5368.9
17757.3	27.5°	17055.3	15313.7	9834.8	6378.2	5338.6	5331.0	5232.3	5205.8	5202.0	5213.3
18470.6	30°	17434.7	15120.2	8658.6	5589.0	5103.3	5103.3	5069.2	5088.1	5103.3	5141.3
19449.5	32.5°	17947.0	14915.3	7675.8	5004.7	4898.4	4860.5	4894.6	4932.6	4947.7	4997.1
20735.8	35°	18698.2	14771.2	6894.2	4685.9	4685.9	4636.6	4655.6	4648.0	4613.9	4591.1
22291.4	37.5°	19692.3	14763.6	6249.2	4538.0	4507.6	4500.0	4503.8	4454.5	4321.7	4162.3
24173.4	40°	20887.5	14968.5	5752.1	4435.5	4412.8	4458.3	4435.5	4302.7	3938.5	3661.5
26487.9	42.5°	22492.5	15552.8	5433.4	4310.3	4378.6	4435.5	4344.5	3885.3	3638.7	3452.8
29124.9	45°	24382.1	16501.4	5270.3	4177.5	4314.1	4382.4	3942.3	3741.2	3543.9	3320.0
32001.0	47.5°	26522.1	17696.6	5232.3	4052.3	4169.9	4211.7	3771.5	3680.5	3456.6	3213.8
34892.3	50°	28851.8	19111.8	5334.8	3904.3	3961.2	3817.1	3714.6	3631.1	3399.7	3160.6
37855.6	52.5°	31261.1	20671.3	5539.7	3703.2	3752.5	3593.2	3691.8	3619.7	3365.5	3043.0
40917.6	55°	33628.8	22242.1	5737.0	3468.0	3540.1	3392.1	3627.3	3574.2	3210.0	2845.7
44184.5	57.5°	36034.3	23805.4	5930.5	3259.3	3335.2	3198.6	3524.9	3452.8	3035.4	2663.6
47751.1	60°	38534.8	25323.1	6021.5	3058.2	3111.3	3020.3	3369.3	3244.1	2838.1	2477.7
51257.0	62.5°	40875.8	26586.6	5873.6	2857.1	2891.2	2853.3	3164.4	2997.5	2640.8	2269.0
54910.9	65°	43224.5	27337.8	5418.2	2659.8	2667.4	2648.4	2876.1	2731.9	2409.4	2086.9
58109.5	67.5°	45353.1	27759.0	4693.5	2447.3	2428.3	2420.8	2606.7	2443.5	2185.5	1904.7
60541.6	70°	45804.6	26689.0	3585.6	2196.9	2196.9	2177.9	2310.7	2143.8	1938.9	1711.2
58800.1	72.5°	41835.8	22450.8	2546.0	1912.3	1942.7	1904.7	2014.8	1874.4	1688.5	1536.7
50676.5	75°	33735.0	16463.4	1851.6	1620.2	1673.3	1608.8	1711.2	1612.6	1453.2	1449.4
34922.6	77.5°	23179.3	10180.1	1343.2	1335.6	1373.5	1290.1	1407.7	1354.6	1210.4	1145.9
15199.9	80°	9891.7	4059.9	978.9	1032.0	1032.0	956.2	1092.8	1107.9	982.7	952.4
2933.0	82.5°	1969.2	1153.5	686.8	709.5	667.8	645.0	774.0	857.5	1183.8	1316.6
884.1	85°	591.9	425.0	413.6	387.0	341.5	345.3	455.3	861.3	1062.4	607.1
292.2	87.5°	163.2	106.2	110.0	87.3	72.1	94.9	155.6	652.6	356.7	151.8
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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<u>180°</u>
14399.3
13940.2
12722.2
10745.4
8578.9
7190.2
6287.1
6017.7
5911.5
5668.7
5391.7
5243.7
5167.8
5038.8
4644.2
4166.1
3653.9
3445.2
3304.8
3194.8
3134.1
3020.3
2826.7
2656.0
2466.3
2265.2
2064.1
1882.0
1703.6
1491.2
1305.2
1073.8
952.4
1320.4
523.6
129.0
0.0

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