

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: P957643

Luminaire Tested: **GALN-SB9D-940-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957643
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB9D-940-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 68308 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

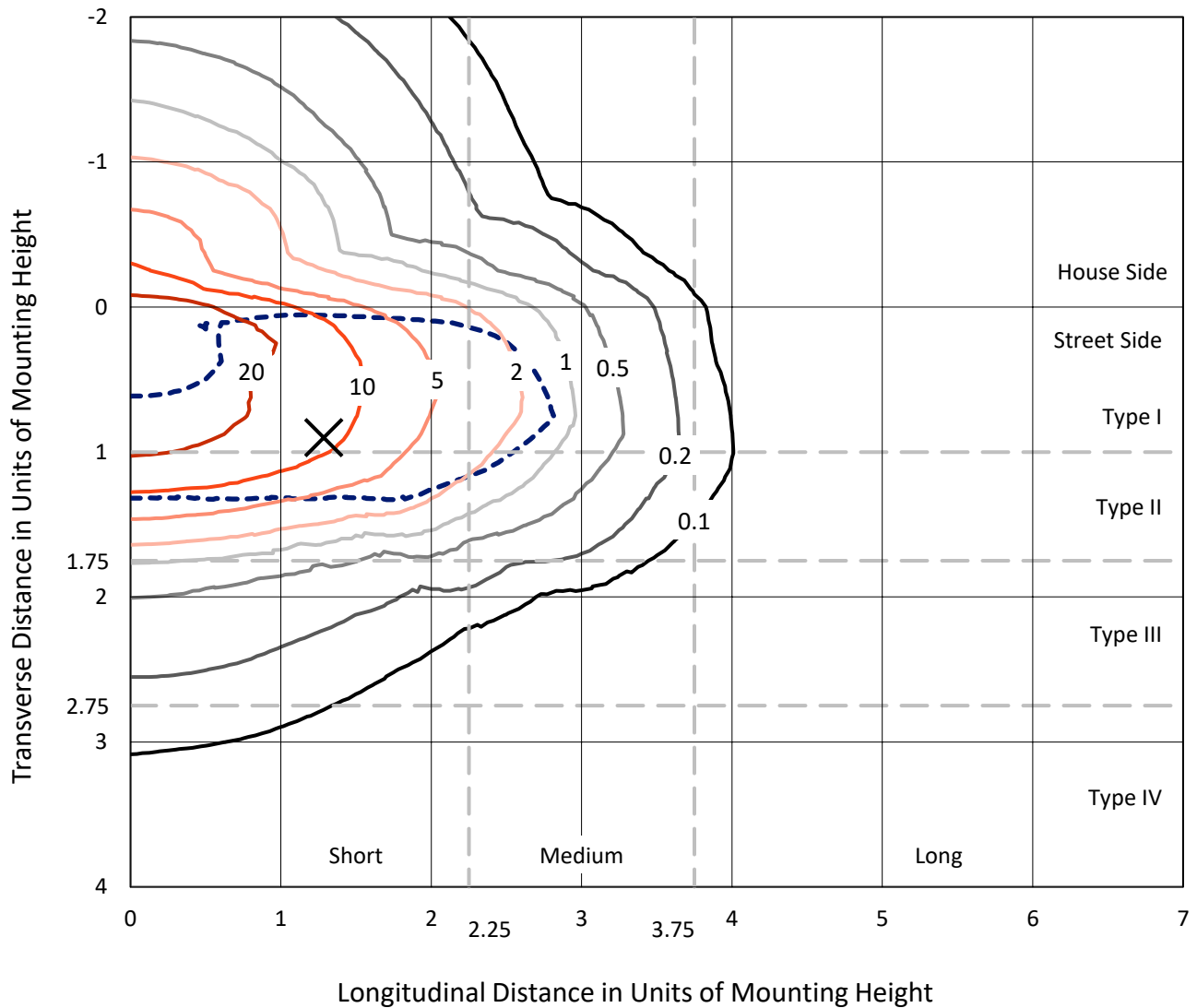
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

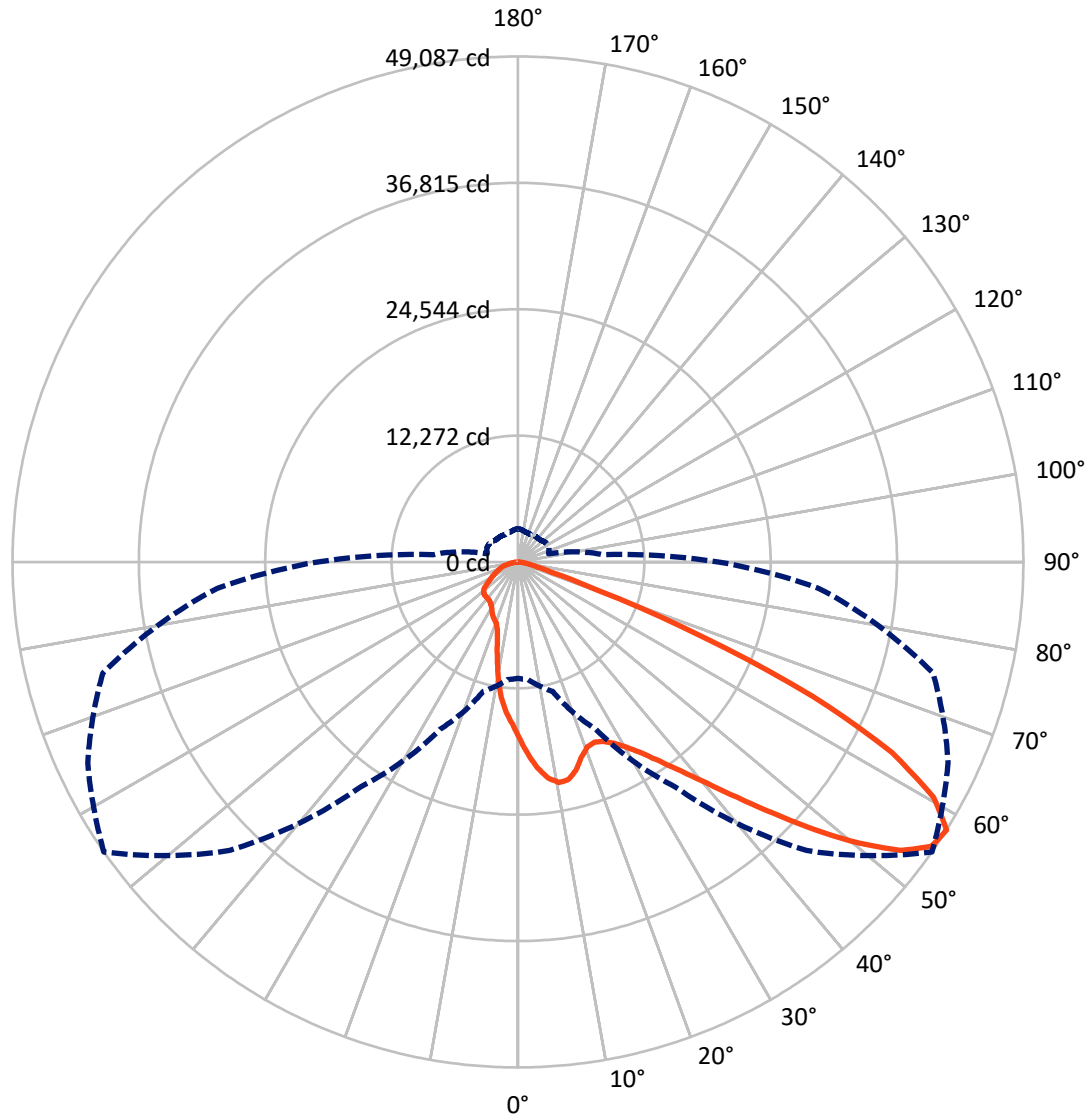
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 33.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12360.0	0.0	12360.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	55948.0	0.0	55948.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	68308.0	0.0	68308.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1588.2	2.3
10°-20°	4008.8	5.9
20°-30°	6396.9	9.4
30°-40°	10127.9	14.8
40°-50°	15501.7	22.7
50°-60°	16603.8	24.3
60°-70°	10445.5	15.3
70°-80°	3088.9	4.5
80°-90°	546.2	0.8
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°	68308.0	100.0
0°-180°	68308.0	100.0



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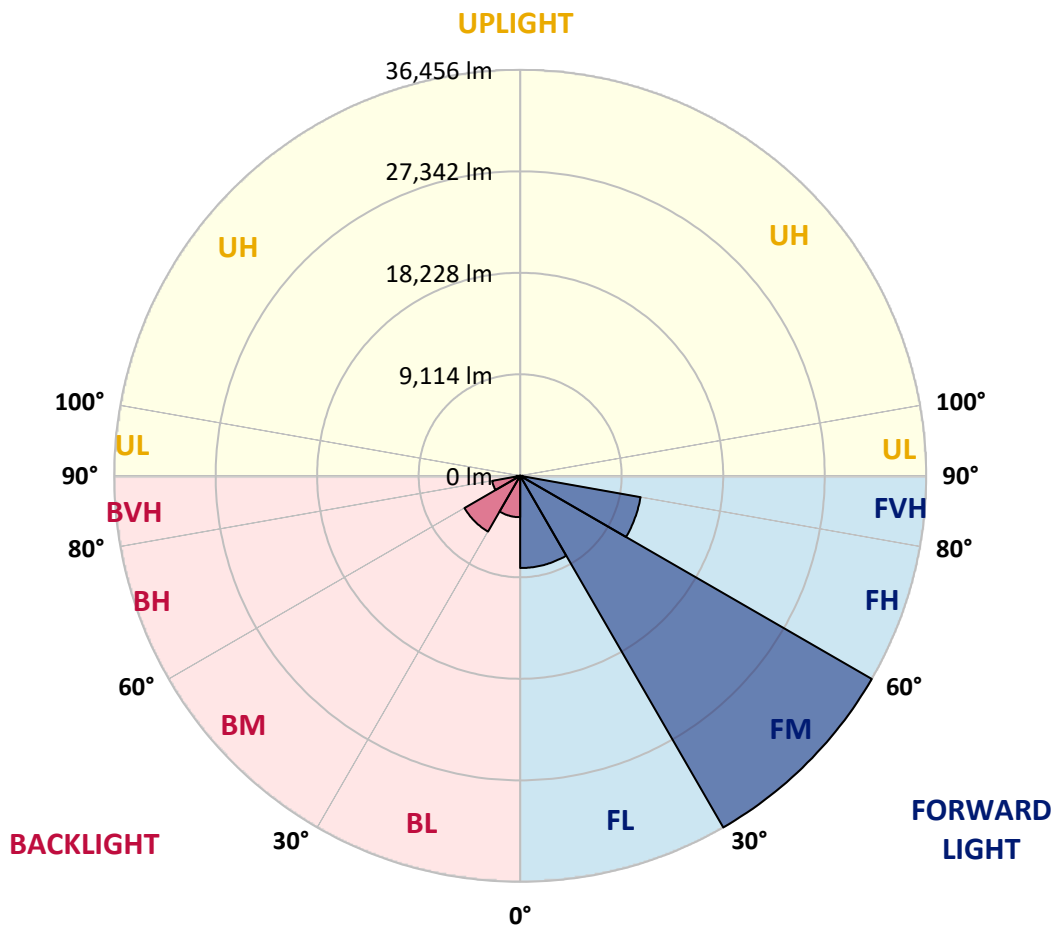
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8278.9	12.1			
FM (30°-60°)	36456.5	53.4			
FH (60°-80°)	10981.9	16.1			G4/12000
FVH (80°-90°)	230.8	0.3			G3/500
BL (0°-30°)	3715.0	5.4	B4/5000		
BM (30°-60°)	5777.0	8.5	B4/8500		
BH (60°-80°)	2552.6	3.7	B4/5000		G4/5000
BVH (80°-90°)	315.4	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-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	17115.8	17115.8	17115.8	17115.8	17115.8	17115.8	17115.8	17115.8	17115.8	17115.8
2.5°	19637.1	19622.9	19700.6	19435.8	19255.7	19012.0	18690.7	18281.1	17839.7	17373.5
5°	21406.2	21282.6	21363.8	21166.1	20968.3	20601.1	20124.4	19457.0	18641.2	17712.5
7.5°	21127.2	21042.5	21250.8	21427.4	21575.7	21529.8	21180.2	20481.0	19428.7	18079.8
10°	18877.8	18782.5	19075.6	19686.5	20583.4	21363.8	21787.6	21353.2	20233.8	18482.3
12.5°	16893.3	16847.4	17041.6	17536.0	18531.8	20029.0	21709.9	22116.0	21070.7	18959.1
15°	16045.8	15989.3	16112.9	16363.6	16999.2	18394.1	21003.6	22638.6	21893.5	19509.9
17.5°	15858.7	15795.1	15848.1	15978.7	16388.3	17451.2	19937.2	22896.4	22751.6	20124.4
20°	16204.7	16151.7	16158.8	16151.7	16437.8	17281.7	19195.6	22797.5	23500.2	20689.4
22.5°	17041.6	16953.3	16956.9	16769.7	16925.1	17578.4	19001.4	22532.6	24167.6	21183.7
25°	18404.7	18245.8	18277.5	17800.8	17758.4	18242.2	19305.1	22327.8	24831.5	21579.2
27.5°	20269.1	20089.0	19993.7	19283.9	18944.9	19185.1	19923.1	22398.5	25460.0	21921.7
30°	22599.7	22380.8	22186.6	21180.2	20565.8	20477.5	20883.6	22864.6	26201.6	22281.9
32.5°	25456.5	25202.2	24849.1	23514.3	22649.2	22186.6	22126.6	23694.4	27070.2	22741.0
35°	28857.0	28525.1	28023.7	26296.9	25202.2	24255.9	23765.0	24891.5	28260.3	23433.1
37.5°	32360.0	31985.7	31526.6	29471.5	28126.1	26731.2	25763.7	26515.8	29845.8	24372.4
40°	35591.1	35170.8	34743.6	32914.4	31470.1	29789.3	28210.8	28571.0	31784.4	25495.3
42.5°	37497.9	37187.2	37024.7	36036.0	34920.1	33214.5	31254.7	31007.5	33963.2	26787.7
45°	37413.2	37286.0	37787.5	38197.1	37932.2	36985.9	34821.2	33701.9	36149.0	27907.1
47.5°	35414.5	35499.2	36618.6	38921.0	39934.4	40428.8	38882.1	36346.7	38048.8	28744.0
50°	29976.4	30047.1	32639.0	37603.8	40450.0	43236.1	42911.2	38928.0	39521.3	29256.1
52.5°	25671.9	25717.8	26830.1	33698.3	38748.0	44648.6	46541.3	41361.0	40598.3	29397.3
55°	19336.9	19495.8	20742.3	26438.2	34319.8	43529.2	48751.9	43868.2	41279.8	29411.4
57.5°	11296.3	11469.4	13009.0	17945.6	26674.7	39627.2	49087.3	46092.9	41742.4	29298.4
60°	5533.4	5607.6	6278.5	9431.9	16448.4	32109.3	46389.5	47169.9	42000.2	29238.4
62.5°	3729.0	3718.4	3746.6	4654.1	8104.1	20629.3	40767.8	45284.2	41862.5	29008.9
65°	3206.3	3167.5	3061.6	3266.4	4198.6	9435.4	31498.4	39655.5	40813.7	28433.3
67.5°	2772.0	2775.5	2779.1	2715.5	2998.0	4354.0	19248.6	31237.1	37049.4	25707.2
70°	2295.3	2327.1	2341.2	2341.2	2443.6	2856.7	8217.1	21409.7	29224.3	20156.1
72.5°	2090.5	2023.4	2030.4	1995.1	1995.1	2175.2	3308.7	12136.8	18411.7	11338.7
75°	1705.6	1747.9	1755.0	1730.3	1649.1	1659.7	1963.4	5092.0	7878.1	4703.6
77.5°	1472.5	1472.5	1486.6	1469.0	1405.4	1243.0	1310.1	1973.9	2680.2	1928.0
80°	1183.0	1179.4	1239.5	1274.8	1175.9	918.1	836.9	1091.1	1190.0	847.5
82.5°	575.6	610.9	851.0	971.1	893.4	663.9	512.0	678.0	635.6	374.3
85°	335.5	317.8	381.4	540.3	512.0	367.2	247.2	353.1	331.9	190.7
87.5°	105.9	98.9	77.7	183.6	148.3	102.4	67.1	102.4	91.8	42.4
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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
17115.8	0°	17115.8	17115.8	17115.8	17115.8	17115.8	17115.8	17115.8	17115.8	17115.8	17115.8
17172.3	2.5°	16921.6	16504.9	16091.7	15713.9	15484.3	15336.0	15187.7	15021.8	14958.2	14862.9
17218.2	5°	16752.1	15946.9	15230.1	14612.1	14050.7	13609.3	13164.3	12804.2	12641.7	12751.2
17363.0	7.5°	16653.2	15487.9	14382.6	13249.1	12158.0	11285.7	10526.5	9993.3	9753.2	9813.2
17504.2	10°	16564.9	14968.8	13284.4	11494.1	9926.2	8845.7	8068.8	7662.7	7510.9	7542.7
17694.9	12.5°	16483.7	14386.1	11960.2	9604.9	7938.2	7224.9	7002.4	7005.9	7034.2	7055.4
17998.6	15°	16469.6	13683.4	10480.6	7952.3	6864.7	6818.8	7058.9	7210.7	7291.9	7316.7
18252.8	17.5°	16448.4	12843.0	8972.8	6825.8	6603.4	6914.1	7136.6	7235.4	7299.0	7302.5
18500.0	20°	16363.6	11776.6	7581.5	6289.1	6546.9	6815.2	6952.9	7030.6	7083.6	7101.3
18687.2	22.5°	16102.3	10590.1	6497.4	6049.0	6320.9	6536.3	6698.7	6787.0	6818.8	6840.0
18722.5	25°	15632.7	9262.4	5748.8	5819.4	6006.6	6278.5	6409.1	6426.8	6416.2	6448.0
18634.2	27.5°	15018.2	7839.3	5282.7	5508.7	5748.8	5981.9	6052.5	6041.9	6020.7	6056.0
18482.3	30°	14276.7	6561.0	4986.1	5159.1	5487.5	5699.4	5762.9	5738.2	5695.8	5734.7
18404.7	32.5°	13492.7	5515.7	4742.4	4915.4	5272.1	5480.4	5544.0	5519.3	5487.5	5519.3
18492.9	35°	12761.8	4784.8	4516.4	4753.0	5102.6	5307.4	5388.6	5392.2	5392.2	5431.0
18726.0	37.5°	12090.9	4357.5	4329.3	4650.6	4986.1	5169.7	5286.2	5293.3	5141.4	5152.0
19121.5	40°	11469.4	4177.4	4244.5	4583.5	4873.1	5049.6	5056.7	4661.2	4382.2	4375.2
19573.5	42.5°	10960.9	4142.1	4269.2	4576.4	4791.8	4798.9	4301.0	3993.8	3916.1	3919.6
19990.2	45°	10484.2	4131.5	4325.7	4576.4	4671.8	4145.6	3810.2	3729.0	3736.0	3764.3
20177.3	47.5°	9950.9	4089.1	4336.3	4512.9	4325.7	3686.6	3587.7	3552.4	3538.3	3545.3
20135.0	50°	9368.3	3937.3	4202.1	4385.8	3732.5	3488.8	3365.2	3354.6	3372.3	3382.9
19898.4	52.5°	8753.9	3690.1	3972.6	4156.2	3460.6	3315.8	3178.1	3202.8	3280.5	3305.2
19651.2	55°	8351.3	3400.6	3668.9	3697.2	3269.9	3153.4	3036.8	3093.3	3238.1	3284.0
19502.9	57.5°	8245.4	3093.3	3322.9	3291.1	3026.2	3012.1	2941.5	2990.9	3174.6	3241.6
19495.8	60°	8213.6	2817.9	2983.9	2959.2	2789.7	2856.7	2839.1	2863.8	2927.4	2948.6
19425.2	62.5°	7966.4	2599.0	2680.2	2644.9	2577.8	2694.3	2736.7	2683.7	2733.2	2757.9
18941.4	65°	7337.9	2422.4	2383.6	2358.8	2387.1	2493.0	2577.8	2471.8	2517.8	2588.4
17076.9	67.5°	6299.7	2182.3	2076.4	2104.6	2192.9	2249.4	2358.8	2238.8	2277.6	2397.7
13754.1	70°	5095.5	1878.6	1783.3	1864.5	1949.2	2065.8	2083.4	2002.2	2094.0	2228.2
8393.7	72.5°	3605.4	1571.4	1504.3	1670.3	1698.5	1850.4	1811.5	1772.7	1899.8	1945.7
4149.2	75°	2500.1	1267.7	1228.9	1356.0	1458.4	1589.0	1560.8	1606.7	1875.1	1896.3
2072.8	77.5°	1582.0	985.2	960.5	1041.7	1183.0	1327.7	1373.6	1896.3	3202.8	3329.9
1077.0	80°	918.1	734.5	706.2	769.8	893.4	1027.6	1324.2	2327.1	2111.7	2086.9
483.8	82.5°	512.0	505.0	469.7	487.3	596.8	741.6	1871.5	1638.5	1331.3	1373.6
194.2	85°	240.1	296.6	254.2	243.7	335.5	868.7	1250.0	935.8	621.5	607.4
42.4	87.5°	63.6	56.5	56.5	63.6	141.2	748.6	497.9	399.0	236.6	229.5
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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