

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: P954682

Luminaire Tested: **GALN-SB7D-840-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954682
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-SB7D-840-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 70401 lumens
Efficiency: N/A
Efficacy: 137.3 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

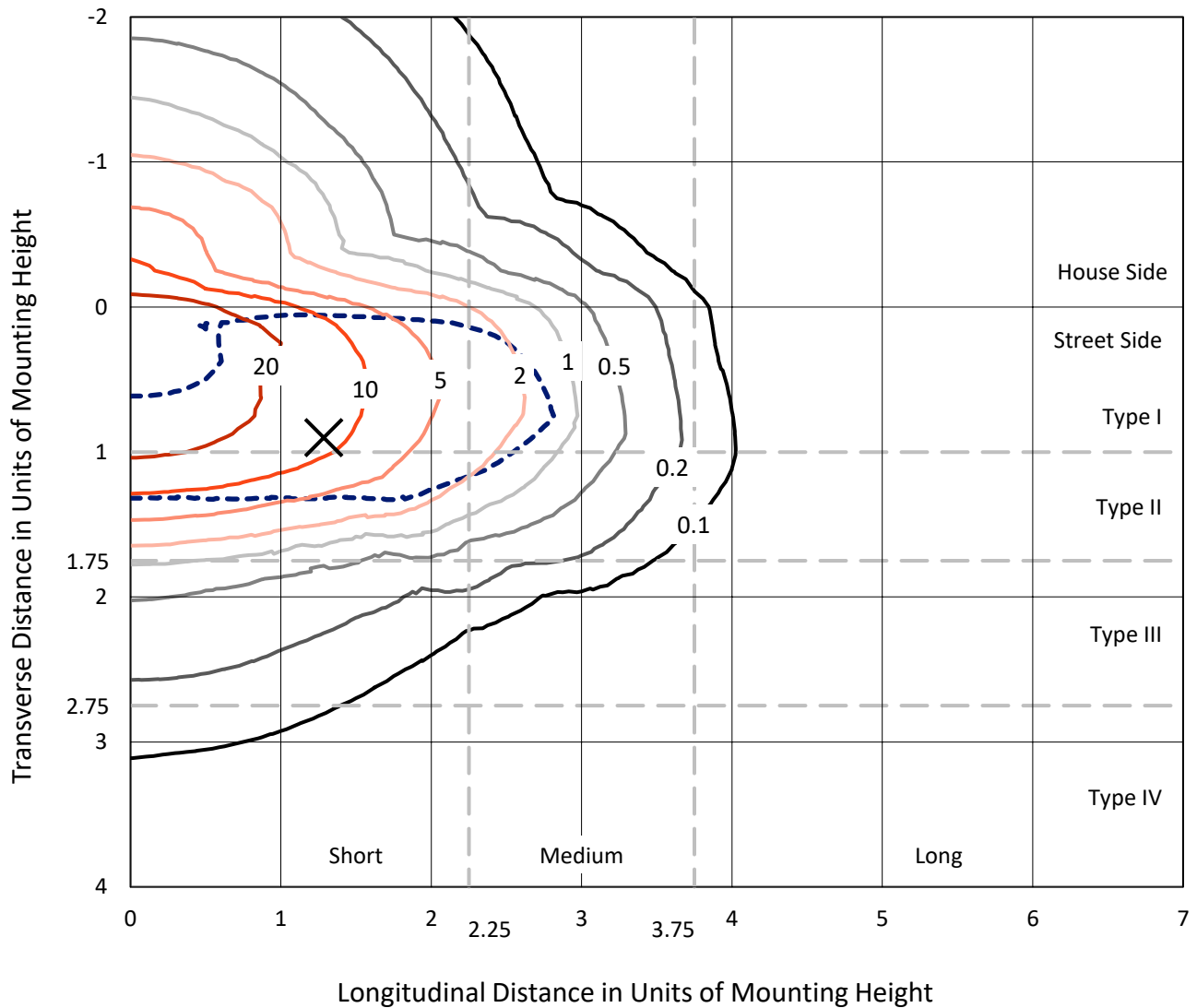
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

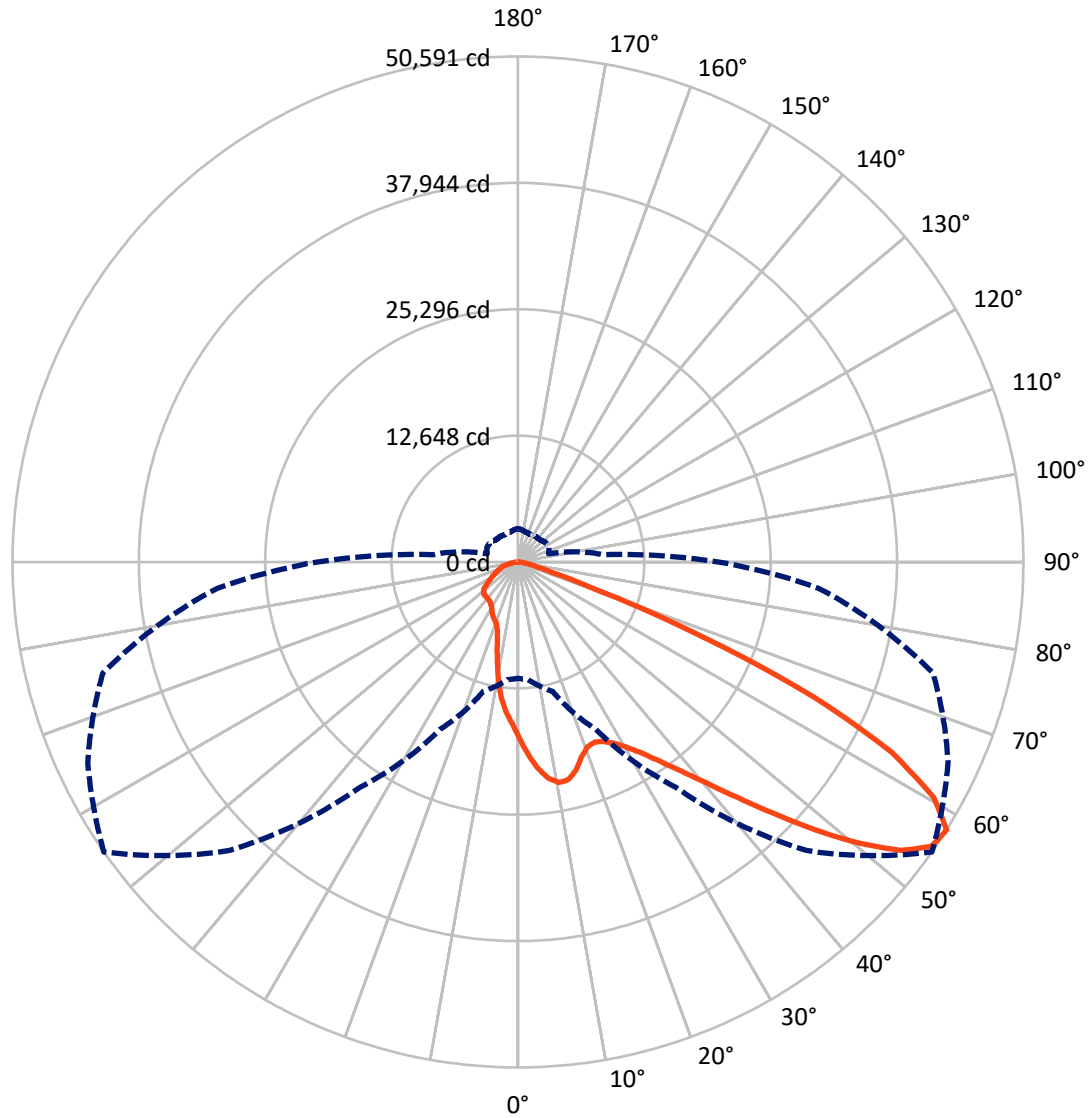
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 34.1 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	12738.7	0.0	12738.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	57662.3	0.0	57662.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	70401.0	0.0	70401.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1636.9	2.3
10°-20°	4131.6	5.9
20°-30°	6592.9	9.4
30°-40°	10438.2	14.8
40°-50°	15976.7	22.7
50°-60°	17112.6	24.3
60°-70°	10765.6	15.3
70°-80°	3183.6	4.5
80°-90°	562.9	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°	70401.0	100.0
0°-180°	70401.0	100.0

Coefficient of Utilization



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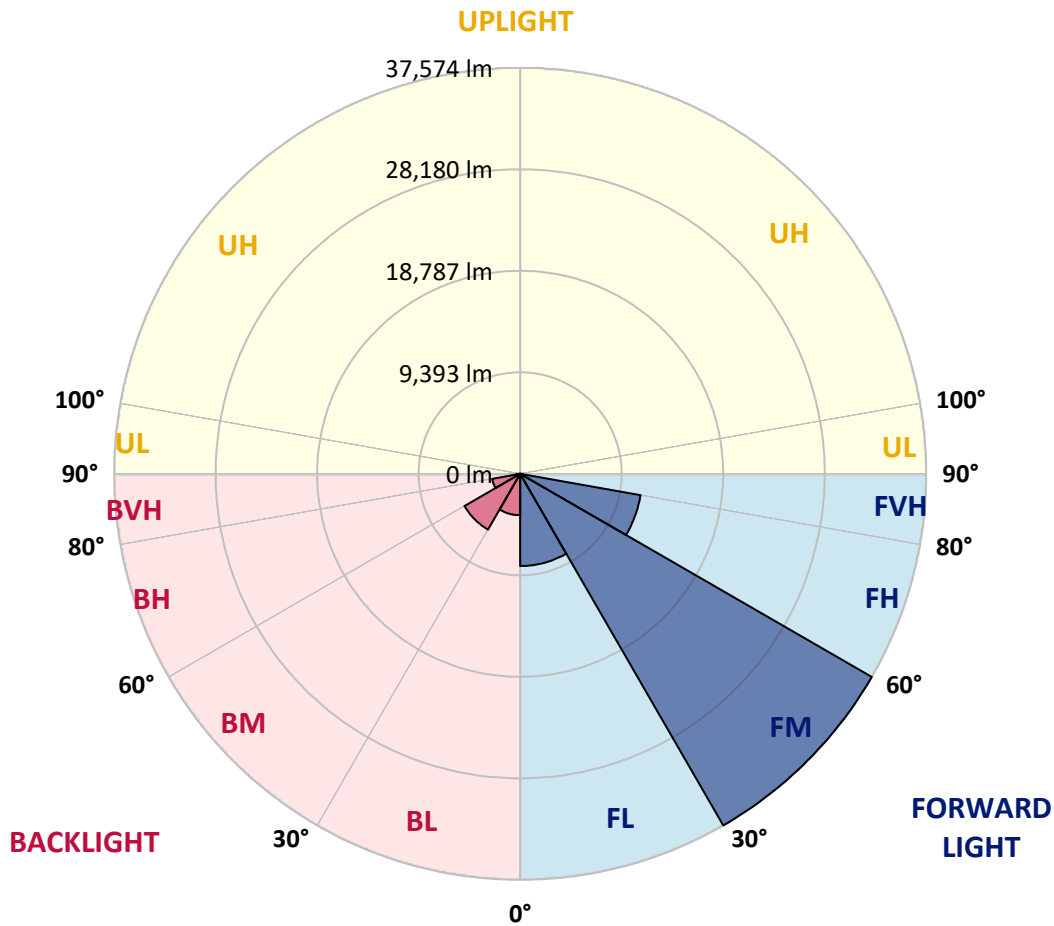
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8532.6	12.1			
FM (30°-60°)	37573.5	53.4			
FH (60°-80°)	11318.3	16.1			G4/12000
FVH (80°-90°)	237.8	0.3			G3/500
BL (0°-30°)	3828.8	5.4	B4/5000		
BM (30°-60°)	5954.0	8.5	B4/8500		
BH (60°-80°)	2630.8	3.7	B4/5000		G4/5000
BVH (80°-90°)	325.1	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°	17640.2	17640.2	17640.2	17640.2	17640.2	17640.2	17640.2	17640.2	17640.2	17640.2
2.5°	20238.7	20224.2	20304.3	20031.3	19845.7	19594.6	19263.4	18841.2	18386.3	17905.9
5°	22062.1	21934.7	22018.4	21814.6	21610.8	21232.3	20741.0	20053.1	19212.4	18255.3
7.5°	21774.6	21687.2	21902.0	22083.9	22236.8	22189.5	21829.2	21108.6	20024.0	18633.8
10°	19456.3	19358.0	19660.1	20289.7	21214.1	22018.4	22455.1	22007.5	20853.8	19048.7
12.5°	17410.9	17363.6	17563.8	18073.3	19099.6	20642.7	22375.1	22793.6	21716.3	19540.0
15°	16537.5	16479.2	16606.6	16865.0	17520.1	18957.7	21647.2	23332.2	22564.3	20107.7
17.5°	16344.6	16279.1	16333.7	16468.3	16890.5	17985.9	20548.1	23597.9	23448.7	20741.0
20°	16701.2	16646.6	16653.9	16646.6	16941.4	17811.3	19783.8	23496.0	24220.3	21323.3
22.5°	17563.8	17472.8	17476.4	17283.5	17443.7	18117.0	19583.6	23223.1	24908.1	21832.8
25°	18968.6	18804.8	18837.6	18346.3	18302.6	18801.2	19896.6	23012.0	25592.3	22240.4
27.5°	20890.2	20704.6	20606.3	19874.8	19525.4	19772.9	20533.5	23084.8	26240.1	22593.4
30°	23292.2	23066.6	22866.4	21829.2	21195.9	21104.9	21523.5	23565.2	27004.4	22964.7
32.5°	26236.5	25974.4	25610.5	24234.8	23343.2	22866.4	22804.5	24420.4	27899.7	23437.8
35°	29741.2	29399.1	28882.3	27102.7	25974.4	24999.1	24493.2	25654.2	29126.2	24151.1
37.5°	33351.5	32965.7	32492.6	30374.5	28987.9	27550.3	26553.1	27328.3	30760.3	25119.2
40°	36681.6	36248.5	35808.1	33922.9	32434.4	30702.0	29075.2	29446.4	32758.3	26276.5
42.5°	38646.9	38326.6	38159.2	37140.1	35990.1	34232.3	32212.4	31957.6	35003.8	27608.5
45°	38559.5	38428.5	38945.3	39367.5	39094.5	38119.1	35888.2	34734.5	37256.6	28762.2
47.5°	36499.6	36587.0	37740.6	40113.5	41158.1	41667.6	40073.5	37460.4	39214.6	29624.8
50°	30894.9	30967.7	33639.0	38756.0	41689.4	44560.9	44226.1	40120.8	40732.2	30152.5
52.5°	26458.5	26505.8	27652.2	34730.9	39935.2	46016.7	47967.4	42628.4	41842.3	30298.1
55°	19929.4	20093.2	21377.9	27248.2	35371.4	44863.0	50245.7	45212.4	42544.7	30312.6
57.5°	11642.5	11820.8	13407.6	18495.5	27492.1	40841.4	50591.4	47505.2	43021.4	30196.2
60°	5703.0	5779.4	6470.9	9720.9	16952.4	33093.1	47810.9	48615.2	43287.1	30134.3
62.5°	3843.2	3832.3	3861.4	4796.7	8352.4	21261.4	42017.0	46671.8	43145.2	29897.7
65°	3304.6	3264.5	3155.4	3366.5	4327.3	9724.5	32463.5	40870.5	42064.3	29304.5
67.5°	2856.9	2860.6	2864.2	2798.7	3089.9	4487.4	19838.4	32194.2	38184.7	26494.9
70°	2365.6	2398.4	2412.9	2412.9	2518.5	2944.3	8468.9	22065.7	30119.7	20773.7
72.5°	2154.5	2085.4	2092.7	2056.3	2056.3	2241.9	3410.1	12508.6	18975.9	11686.1
75°	1757.8	1801.5	1808.8	1783.3	1699.6	1710.5	2023.5	5248.0	8119.5	4847.7
77.5°	1517.6	1517.6	1532.2	1514.0	1448.5	1281.1	1350.2	2034.4	2762.3	1987.1
80°	1219.2	1215.6	1277.4	1313.8	1211.9	946.2	862.5	1124.6	1226.5	873.5
82.5°	593.2	629.6	877.1	1000.8	920.8	684.2	527.7	698.8	655.1	385.8
85°	345.7	327.5	393.1	556.8	527.7	378.5	254.8	363.9	342.1	196.5
87.5°	109.2	101.9	80.1	189.2	152.9	105.5	69.1	105.5	94.6	43.7
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°
17640.2	0°	17640.2	17640.2	17640.2	17640.2	17640.2	17640.2	17640.2	17640.2	17640.2	17640.2
17698.4	2.5°	17440.0	17010.6	16584.8	16195.4	15958.8	15805.9	15653.1	15482.0	15416.5	15318.3
17745.7	5°	17265.3	16435.6	15696.8	15059.9	14481.2	14026.3	13567.7	13196.5	13029.1	13141.9
17895.0	7.5°	17163.4	15962.4	14823.3	13655.1	12530.5	11631.5	10849.1	10299.5	10052.0	10113.9
18040.5	10°	17072.5	15427.4	13691.4	11846.3	10230.4	9116.7	8316.0	7897.5	7741.0	7773.8
18237.1	12.5°	16988.8	14826.9	12326.7	9899.2	8181.4	7446.2	7216.9	7220.6	7249.7	7271.5
18550.1	15°	16974.2	14102.7	10801.8	8195.9	7075.0	7027.7	7275.2	7431.7	7515.4	7540.9
18812.1	17.5°	16952.4	13236.5	9247.7	7035.0	6805.7	7126.0	7355.2	7457.1	7522.7	7526.3
19066.9	20°	16865.0	12137.4	7813.8	6481.8	6747.5	7024.1	7166.0	7246.1	7300.7	7318.8
19259.7	22.5°	16595.7	10914.6	6696.5	6234.3	6514.5	6736.5	6904.0	6994.9	7027.7	7049.5
19296.1	25°	16111.7	9546.2	5925.0	5997.7	6190.6	6470.9	6605.5	6623.7	6612.8	6645.6
19205.2	27.5°	15478.4	8079.5	5444.6	5677.5	5925.0	6165.2	6237.9	6227.0	6205.2	6241.6
19048.7	30°	14714.1	6762.0	5138.8	5317.2	5655.6	5874.0	5939.5	5914.0	5870.4	5910.4
18968.6	32.5°	13906.2	5684.8	4887.7	5066.1	5433.6	5648.4	5713.9	5688.4	5655.6	5688.4
19059.6	35°	13152.8	4931.4	4654.8	4898.6	5258.9	5470.0	5553.7	5557.4	5557.4	5597.4
19299.8	37.5°	12461.3	4491.0	4461.9	4793.1	5138.8	5328.1	5448.2	5455.5	5299.0	5309.9
19707.4	40°	11820.8	4305.4	4374.6	4724.0	5022.4	5204.4	5211.6	4804.0	4516.5	4509.2
20173.2	42.5°	11296.7	4269.0	4400.0	4716.7	4938.7	4946.0	4432.8	4116.2	4036.1	4039.7
20602.7	45°	10805.4	4258.1	4458.3	4716.7	4814.9	4272.7	3926.9	3843.2	3850.5	3879.6
20795.6	47.5°	10255.8	4214.4	4469.2	4651.2	4458.3	3799.5	3697.6	3661.2	3646.7	3654.0
20751.9	50°	9655.3	4057.9	4330.9	4520.1	3846.9	3595.7	3468.4	3457.4	3475.6	3486.6
20508.1	52.5°	9022.1	3803.2	4094.3	4283.6	3566.6	3417.4	3275.5	3300.9	3381.0	3406.5
20253.3	55°	8607.2	3504.7	3781.3	3810.5	3370.1	3250.0	3129.9	3188.1	3337.3	3384.6
20100.4	57.5°	8498.0	3188.1	3424.7	3391.9	3119.0	3104.4	3031.6	3082.6	3271.8	3341.0
20093.2	60°	8465.3	2904.2	3075.3	3049.8	2875.1	2944.3	2926.1	2951.6	3017.1	3038.9
20020.4	62.5°	8210.5	2678.6	2762.3	2725.9	2656.8	2776.9	2820.5	2765.9	2816.9	2842.4
19521.8	65°	7562.7	2496.6	2456.6	2431.1	2460.2	2569.4	2656.8	2547.6	2594.9	2667.7
17600.2	67.5°	6492.7	2249.2	2140.0	2169.1	2260.1	2318.3	2431.1	2307.4	2347.4	2471.2
14175.5	70°	5251.7	1936.2	1837.9	1921.6	2009.0	2129.1	2147.3	2063.5	2158.2	2296.5
8650.9	72.5°	3715.8	1619.5	1550.4	1721.4	1750.6	1907.0	1867.0	1827.0	1958.0	2005.3
4276.3	75°	2576.7	1306.5	1266.5	1397.5	1503.1	1637.7	1608.6	1655.9	1932.5	1954.4
2136.3	77.5°	1630.5	1015.4	989.9	1073.6	1219.2	1368.4	1415.7	1954.4	3300.9	3432.0
1110.0	80°	946.2	757.0	727.9	793.4	920.8	1059.1	1364.8	2398.4	2176.4	2150.9
498.6	82.5°	527.7	520.4	484.0	502.2	615.1	764.3	1928.9	1688.7	1372.1	1415.7
200.2	85°	247.5	305.7	262.0	251.1	345.7	895.3	1288.4	964.4	640.5	626.0
43.7	87.5°	65.5	58.2	58.2	65.5	145.6	771.6	513.2	411.3	243.8	236.6
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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