

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: P954619

Luminaire Tested: **GALN-SB7D-827-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954619
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-827-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 64001 lumens
Efficiency: N/A
Efficacy: 124.8 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

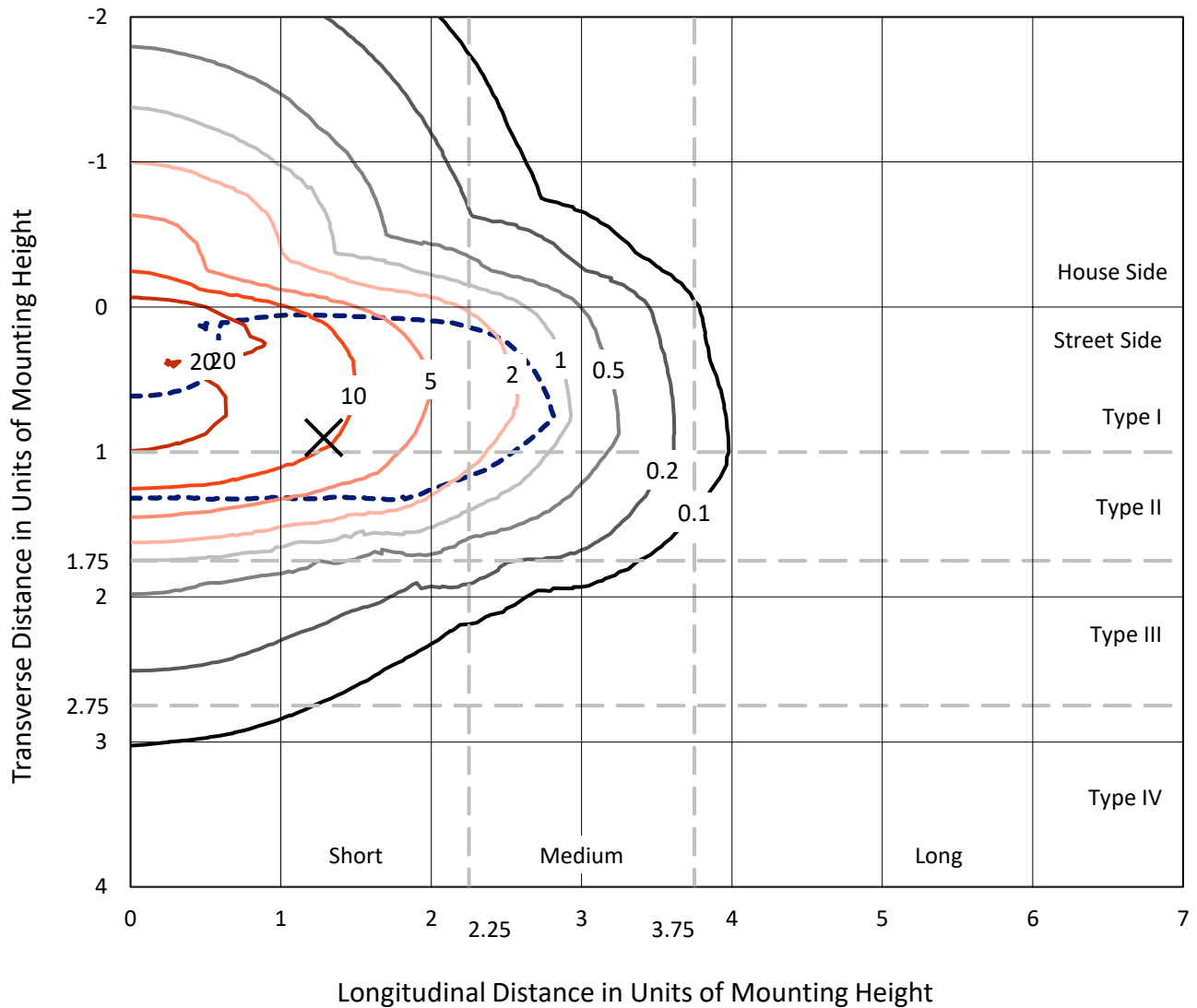
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

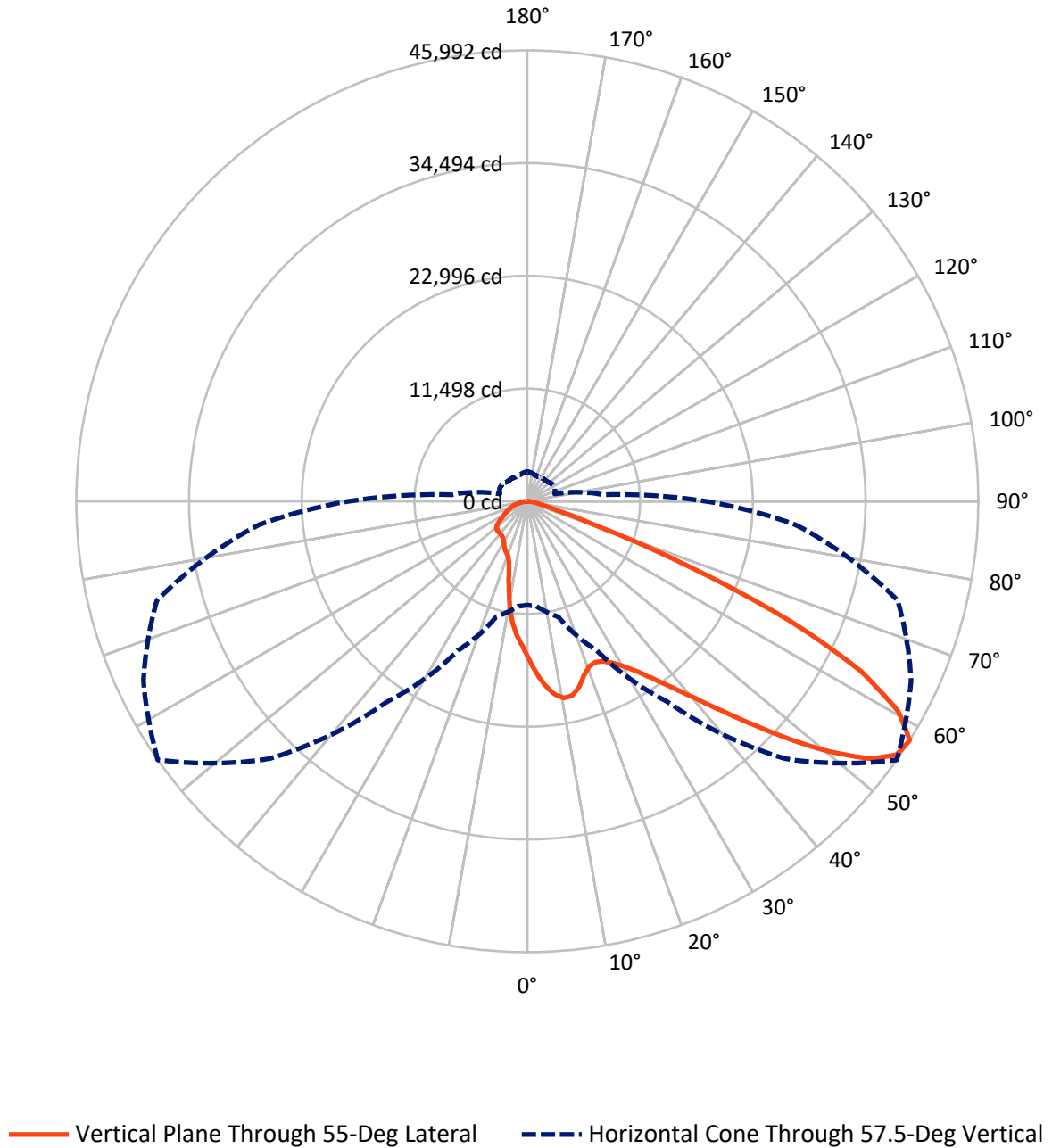
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 31 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11580.7	0.0	11580.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	52420.3	0.0	52420.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	64001.0	0.0	64001.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1488.1	2.3
10°-20°	3756.0	5.9
20°-30°	5993.6	9.4
30°-40°	9489.3	14.8
40°-50°	14524.3	22.7
50°-60°	15556.9	24.3
60°-70°	9786.9	15.3
70°-80°	2894.2	4.5
80°-90°	511.7	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°	64001.0	100.0
0°-180°	64001.0	100.0

Coefficient of Utilization



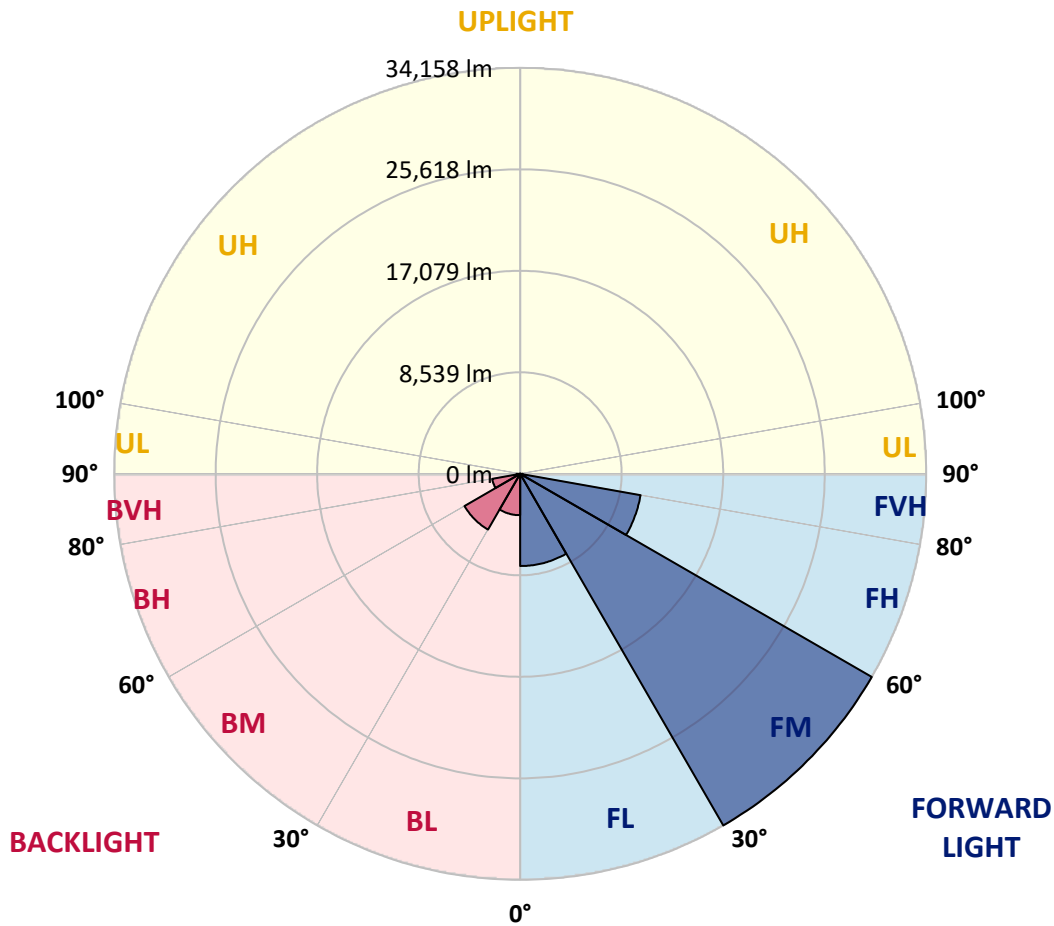
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7756.9	12.1			
FM (30°-60°)	34157.8	53.4			
FH (60°-80°)	10289.4	16.1			G4/12000
FVH (80°-90°)	216.2	0.3			G2/225
BL (0°-30°)	3480.8	5.4	B4/5000		
BM (30°-60°)	5412.7	8.5	B4/8500		
BH (60°-80°)	2391.7	3.7	B3/2500		G3/2500
BVH (80°-90°)	295.5	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-G4

Type II Short



REPORT NUMBER: P954619

CATALOG NUMBER: GALN-SB7D-827-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	16036.6	16036.6	16036.6	16036.6	16036.6	16036.6	16036.6	16036.6	16036.6	16036.6
2.5°	18398.9	18385.6	18458.4	18210.3	18041.6	17813.3	17512.2	17128.4	16714.8	16278.1
5°	20056.5	19940.7	20016.8	19831.5	19646.2	19302.1	18855.5	18230.1	17465.9	16595.7
7.5°	19795.1	19715.7	19910.9	20076.3	20215.3	20172.3	19844.7	19189.6	18203.7	16939.8
10°	17687.5	17598.2	17872.8	18445.2	19285.6	20016.8	20413.8	20006.8	18958.0	17317.0
12.5°	15828.1	15785.1	15967.1	16430.3	17363.3	18766.1	20341.0	20721.5	19742.2	17763.6
15°	15034.1	14981.1	15096.9	15331.9	15927.4	17234.3	19679.3	21211.2	20513.1	18279.8
17.5°	14858.7	14799.2	14848.8	14971.2	15355.0	16350.9	18680.1	21452.7	21317.0	18855.5
20°	15183.0	15133.3	15140.0	15133.3	15401.3	16192.1	17985.3	21360.0	22018.4	19384.8
22.5°	15967.1	15884.4	15887.7	15712.3	15857.9	16470.0	17803.3	21111.9	22643.8	19848.0
25°	17244.2	17095.3	17125.1	16678.4	16638.7	17092.0	18087.9	20920.0	23265.8	20218.6
27.5°	18991.1	18822.4	18733.0	18068.0	17750.4	17975.4	18666.9	20986.2	23854.7	20539.5
30°	21174.8	20969.6	20787.7	19844.7	19269.0	19186.3	19566.8	21422.9	24549.5	20877.0
32.5°	23851.4	23613.2	23282.3	22031.7	21221.1	20787.7	20731.4	22200.4	25363.4	21307.1
35°	27037.5	26726.5	26256.7	24638.8	23613.2	22726.5	22266.6	23322.0	26478.4	21955.6
37.5°	30319.6	29968.9	29538.8	27613.2	26352.7	25045.8	24139.2	24844.0	27963.9	22835.7
40°	33346.9	32953.2	32552.9	30839.1	29485.9	27911.0	26432.1	26769.5	29780.3	23887.8
42.5°	35133.6	34842.4	34690.2	33763.8	32718.3	31120.3	29284.0	29052.4	31821.7	25098.7
45°	35054.2	34935.0	35404.9	35788.7	35540.5	34653.8	32625.7	31576.9	33869.7	26147.5
47.5°	33181.5	33260.9	34309.7	36466.9	37416.5	37879.7	36430.5	34055.0	35649.7	26931.6
50°	28086.3	28152.5	30581.0	35232.8	37899.5	40510.0	40205.6	36473.5	37029.4	27411.4
52.5°	24053.2	24096.2	25138.4	31573.6	36304.8	41833.4	43606.8	38753.1	38038.5	27543.7
55°	18117.7	18266.5	19434.5	24771.2	32155.9	40784.6	45677.9	41102.2	38677.0	27557.0
57.5°	10584.1	10746.2	12188.7	16814.1	24992.8	37128.6	45992.2	43186.6	39110.4	27451.1
60°	5184.5	5254.0	5882.6	8837.2	15411.3	30084.7	43464.5	44195.7	39352.0	27394.8
62.5°	3493.8	3483.9	3510.4	4360.7	7593.1	19328.6	38197.3	42428.9	39222.9	27179.8
65°	3004.2	2967.8	2868.5	3060.4	3933.9	8840.5	29512.3	37155.1	38240.3	26640.5
67.5°	2597.2	2600.5	2603.8	2544.3	2809.0	4079.5	18034.9	29267.5	34713.4	24086.3
70°	2150.6	2180.3	2193.6	2193.6	2289.5	2676.6	7699.0	20059.8	27381.6	18885.2
72.5°	1958.7	1895.8	1902.4	1869.3	1869.3	2038.1	3100.1	11371.5	17250.8	10623.8
75°	1598.0	1637.7	1644.4	1621.2	1545.1	1555.0	1839.6	4770.9	7381.4	4407.0
77.5°	1379.7	1379.7	1392.9	1376.4	1316.8	1164.6	1227.5	1849.5	2511.2	1806.5
80°	1108.4	1105.1	1161.3	1194.4	1101.7	860.2	784.1	1022.3	1115.0	794.1
82.5°	539.3	572.4	797.4	909.9	837.1	622.0	479.7	635.2	595.5	350.7
85°	314.3	297.8	357.3	506.2	479.7	344.1	231.6	330.9	311.0	178.7
87.5°	99.3	92.6	72.8	172.0	139.0	95.9	62.9	95.9	86.0	39.7
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°
16036.6	0°	16036.6	16036.6	16036.6	16036.6	16036.6	16036.6	16036.6	16036.6	16036.6	16036.6
16089.5	2.5°	15854.6	15464.2	15077.1	14723.1	14508.0	14369.1	14230.1	14074.6	14015.0	13925.7
16132.5	5°	15695.8	14941.4	14269.8	13690.8	13164.7	12751.2	12334.3	11996.8	11844.6	11947.2
16268.2	7.5°	15603.2	14511.3	13475.8	12413.7	11391.4	10574.1	9862.8	9363.2	9138.2	9194.5
16400.5	10°	15520.4	14025.0	12446.8	10769.4	9300.4	8287.9	7560.1	7179.6	7037.3	7067.1
16579.2	12.5°	15444.3	13479.1	11206.1	8999.3	7437.6	6769.3	6560.9	6564.2	6590.6	6610.5
16863.7	15°	15431.1	12820.7	9819.8	7450.9	6431.8	6388.8	6613.8	6756.1	6832.2	6855.3
17101.9	17.5°	15411.3	12033.2	8407.0	6395.4	6187.0	6478.2	6686.6	6779.2	6838.8	6842.1
17333.5	20°	15331.9	11034.0	7103.5	5892.5	6134.1	6385.5	6514.5	6587.3	6637.0	6653.5
17508.9	22.5°	15087.0	9922.4	6087.7	5667.6	5922.3	6124.1	6276.3	6359.0	6388.8	6408.7
17542.0	25°	14647.0	8678.3	5386.3	5452.5	5627.9	5882.6	6005.0	6021.6	6011.6	6041.4
17459.3	27.5°	14071.3	7345.0	4949.6	5161.3	5386.3	5604.7	5670.9	5660.9	5641.1	5674.2
17317.0	30°	13376.5	6147.3	4671.7	4833.8	5141.5	5340.0	5399.6	5376.4	5336.7	5373.1
17244.2	32.5°	12642.0	5168.0	4443.4	4605.5	4939.7	5134.9	5194.4	5171.3	5141.5	5171.3
17326.9	35°	11957.1	4483.1	4231.6	4453.3	4780.9	4972.8	5048.9	5052.2	5052.2	5088.6
17545.3	37.5°	11328.5	4082.8	4056.3	4357.4	4671.7	4843.7	4952.9	4959.5	4817.3	4827.2
17915.8	40°	10746.2	3914.0	3976.9	4294.5	4565.8	4731.2	4737.9	4367.3	4105.9	4099.3
18339.3	42.5°	10269.8	3880.9	4000.0	4287.9	4489.7	4496.3	4029.8	3742.0	3669.2	3672.5
18729.7	45°	9823.1	3871.0	4053.0	4287.9	4377.2	3884.2	3569.9	3493.8	3500.5	3526.9
18905.1	47.5°	9323.5	3831.3	4062.9	4228.3	4053.0	3454.1	3361.5	3328.4	3315.2	3321.8
18865.4	50°	8777.6	3689.0	3937.2	4109.2	3497.1	3268.9	3153.1	3143.1	3159.7	3169.6
18643.7	52.5°	8201.9	3457.4	3722.1	3894.2	3242.4	3106.7	2977.7	3000.9	3073.6	3096.8
18412.1	55°	7824.7	3186.1	3437.6	3464.1	3063.7	2954.5	2845.4	2898.3	3033.9	3077.0
18273.2	57.5°	7725.5	2898.3	3113.4	3083.6	2835.4	2822.2	2756.0	2802.3	2974.4	3037.3
18266.5	60°	7695.7	2640.2	2795.7	2772.6	2613.8	2676.6	2660.1	2683.2	2742.8	2762.6
18200.4	62.5°	7464.1	2435.1	2511.2	2478.1	2415.2	2524.4	2564.1	2514.5	2560.8	2584.0
17747.1	65°	6875.2	2269.7	2233.3	2210.1	2236.6	2335.8	2415.2	2316.0	2359.0	2425.2
16000.2	67.5°	5902.5	2044.7	1945.4	1971.9	2054.6	2107.6	2210.1	2097.6	2134.0	2246.5
12886.8	70°	4774.2	1760.2	1670.8	1746.9	1826.3	1935.5	1952.0	1876.0	1962.0	2087.7
7864.4	72.5°	3378.0	1472.3	1409.4	1564.9	1591.4	1733.7	1697.3	1660.9	1780.0	1823.0
3887.6	75°	2342.5	1187.8	1151.4	1270.5	1366.4	1488.9	1462.4	1505.4	1756.8	1776.7
1942.1	77.5°	1482.2	923.1	899.9	976.0	1108.4	1244.0	1287.0	1776.7	3000.9	3120.0
1009.1	80°	860.2	688.2	661.7	721.3	837.1	962.8	1240.7	2180.3	1978.5	1955.4
453.3	82.5°	479.7	473.1	440.0	456.6	559.1	694.8	1753.5	1535.2	1247.3	1287.0
182.0	85°	225.0	277.9	238.2	228.3	314.3	813.9	1171.2	876.8	582.3	569.1
39.7	87.5°	59.6	52.9	52.9	59.6	132.3	701.4	466.5	373.9	221.7	215.1
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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