

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: P950062

Luminaire Tested: **GALN-SB4C-850-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950062
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-SB4C-850-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29198 lumens
Efficiency: N/A
Efficacy: 145.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

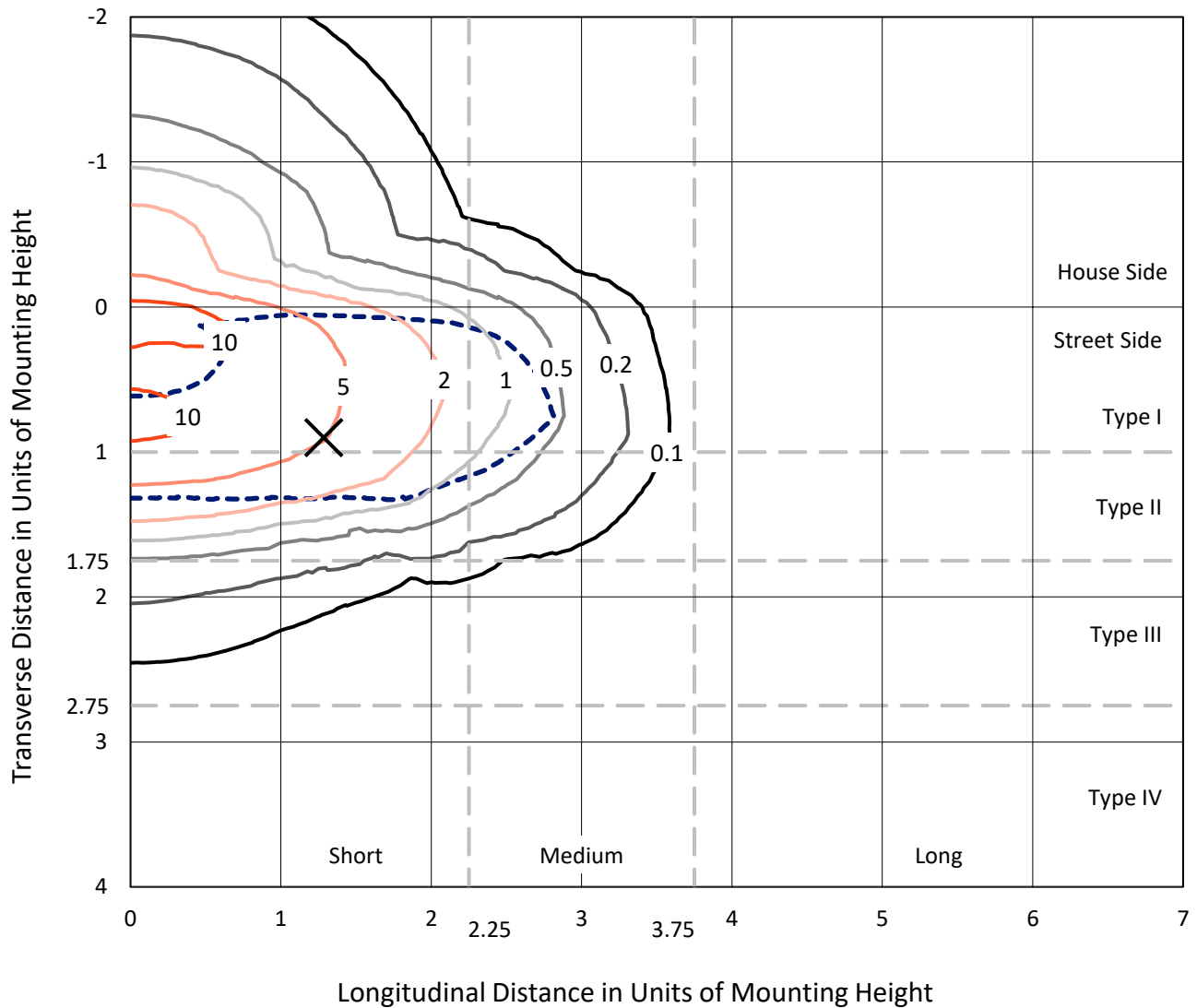
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

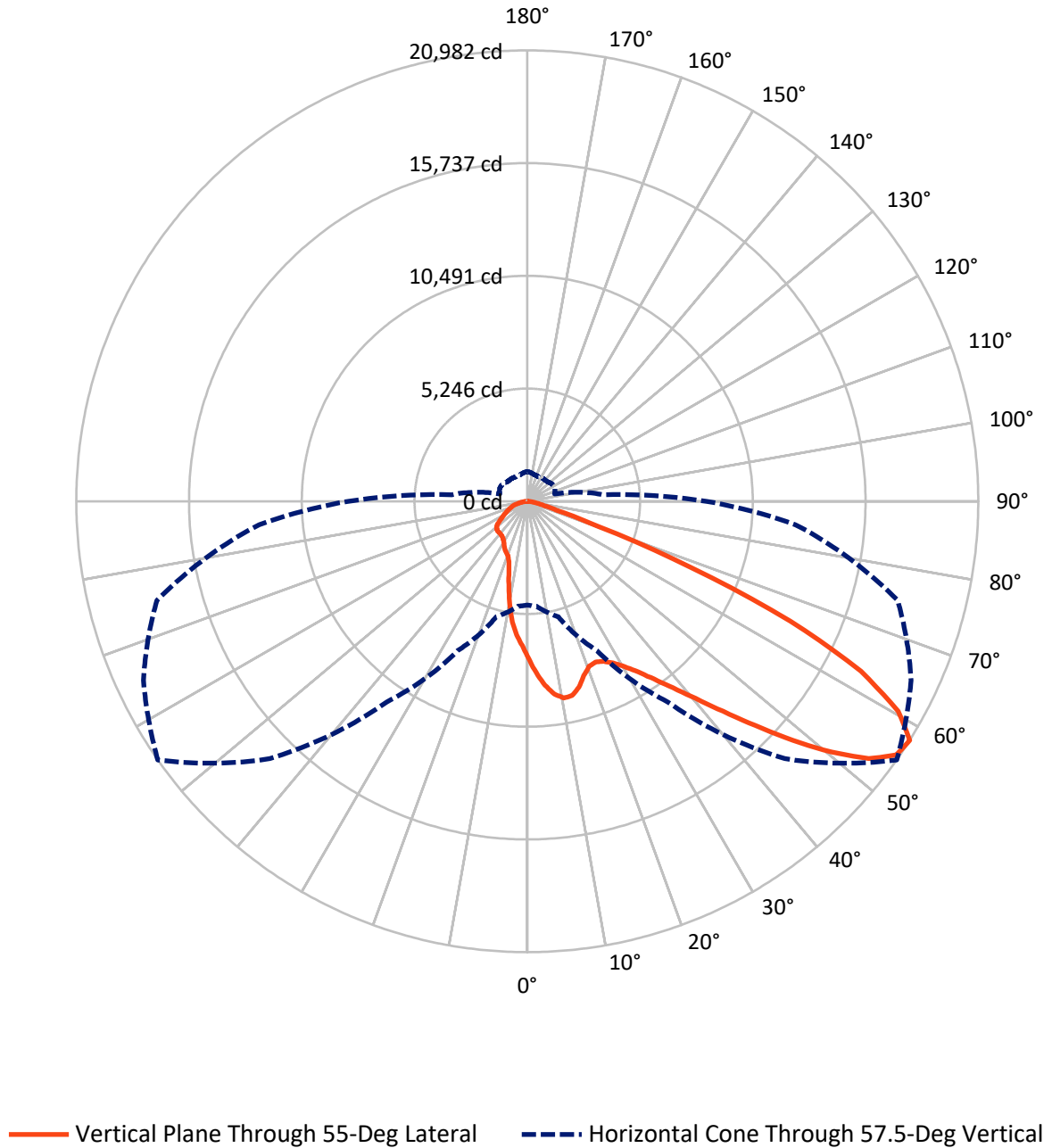
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 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	5283.2	0.0	5283.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	23914.8	0.0	23914.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	29198.0	0.0	29198.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	678.9	2.3
10°-20°	1713.5	5.9
20°-30°	2734.3	9.4
30°-40°	4329.1	14.8
40°-50°	6626.2	22.7
50°-60°	7097.2	24.3
60°-70°	4464.9	15.3
70°-80°	1320.4	4.5
80°-90°	233.5	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°	29198.0	100.0
0°-180°	29198.0	100.0

Coefficient of Utilization



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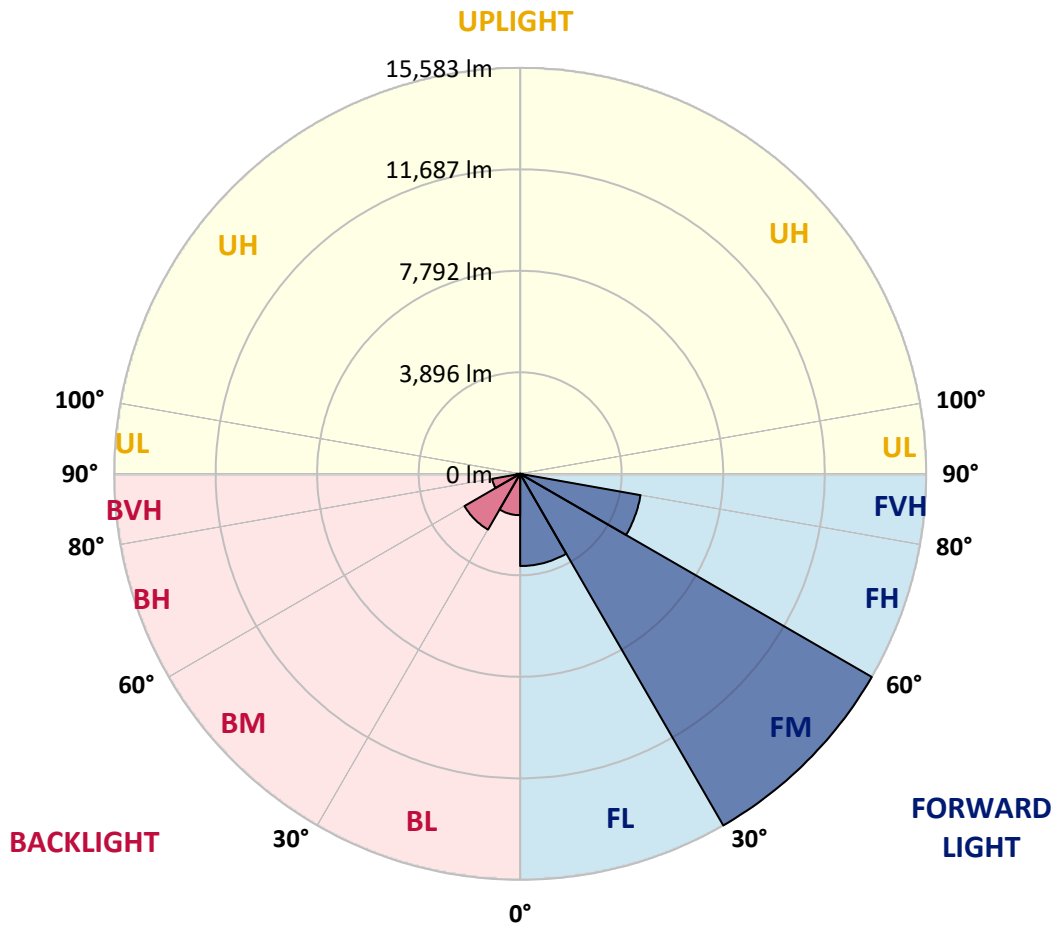
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3538.8	12.1			
FM (30°-60°)	15583.2	53.4			
FH (60°-80°)	4694.1	16.1			G2/5000
FVH (80°-90°)	98.6	0.3			G1/100
BL (0°-30°)	1588.0	5.4	B3/2500		
BM (30°-60°)	2469.3	8.5	B2/2500		
BH (60°-80°)	1091.1	3.7	B3/2500		G3/2500
BVH (80°-90°)	134.8	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7316.1	7316.1	7316.1	7316.1	7316.1	7316.1	7316.1	7316.1	7316.1	7316.1
2.5°	8393.8	8387.7	8421.0	8307.7	8230.8	8126.6	7989.3	7814.2	7625.5	7426.3
5°	9150.0	9097.2	9131.9	9047.4	8962.8	8805.9	8602.1	8316.8	7968.1	7571.2
7.5°	9030.8	8994.5	9083.6	9159.1	9222.4	9202.8	9053.4	8754.5	8304.7	7728.1
10°	8069.3	8028.5	8153.8	8414.9	8798.3	9131.9	9313.0	9127.4	8648.9	7900.2
12.5°	7221.0	7201.4	7284.4	7495.7	7921.3	8561.3	9279.8	9453.4	9006.6	8104.0
15°	6858.7	6834.6	6887.4	6994.6	7266.3	7862.5	8977.9	9676.8	9358.3	8339.4
17.5°	6778.7	6751.6	6774.2	6830.0	7005.1	7459.5	8522.1	9787.0	9725.1	8602.1
20°	6926.6	6904.0	6907.0	6904.0	7026.3	7387.0	8205.1	9744.7	10045.1	8843.6
22.5°	7284.4	7246.6	7248.1	7168.1	7234.6	7513.8	8122.1	9631.5	10330.3	9054.9
25°	7867.0	7799.1	7812.7	7608.9	7590.8	7797.6	8251.9	9543.9	10614.1	9224.0
27.5°	8664.0	8587.0	8546.2	8242.8	8097.9	8200.6	8516.0	9574.1	10882.8	9370.4
30°	9660.2	9566.6	9483.6	9053.4	8790.8	8753.0	8926.6	9773.4	11199.8	9524.3
32.5°	10881.3	10772.6	10621.7	10051.1	9681.3	9483.6	9457.9	10128.1	11571.1	9720.5
35°	12334.8	12192.9	11978.6	11240.5	10772.6	10368.1	10158.3	10639.8	12079.7	10016.4
37.5°	13832.2	13672.2	13475.9	12597.5	12022.4	11426.2	11012.6	11334.1	12757.5	10417.9
40°	15213.3	15033.6	14851.0	14069.1	13451.8	12733.3	12058.6	12212.6	13586.1	10897.9
42.5°	16028.3	15895.5	15826.1	15403.4	14926.5	14197.4	13359.7	13254.1	14517.4	11450.3
45°	15992.1	15937.8	16152.1	16327.2	16214.0	15809.5	14884.2	14405.7	15451.7	11928.8
47.5°	15137.8	15174.0	15652.5	16636.6	17069.8	17281.1	16620.0	15536.3	16263.8	12286.5
50°	12813.3	12843.5	13951.4	16073.6	17290.2	18481.1	18342.3	16639.6	16893.2	12505.4
52.5°	10973.4	10993.0	11468.4	14404.2	16562.7	19084.9	19893.9	17679.6	17353.6	12565.8
55°	8265.5	8333.4	8866.2	11300.9	14669.9	18606.4	20838.8	18751.3	17644.9	12571.8
57.5°	4828.6	4902.5	5560.6	7670.8	11402.0	16938.5	20982.2	19702.2	17842.6	12523.5
60°	2365.2	2396.9	2683.7	4031.6	7030.8	13725.0	19829.0	20162.6	17952.8	12497.8
62.5°	1593.9	1589.4	1601.5	1989.4	3464.1	8817.9	17426.0	19356.6	17894.0	12399.7
65°	1370.5	1353.9	1308.7	1396.2	1794.7	4033.1	13463.9	16950.6	17445.7	12153.7
67.5°	1184.9	1186.4	1187.9	1160.7	1281.5	1861.1	8227.7	13352.2	15836.6	10988.4
70°	981.1	994.7	1000.7	1000.7	1044.5	1221.1	3512.4	9151.5	12491.8	8615.7
72.5°	893.6	864.9	867.9	852.8	852.8	929.8	1414.3	5187.8	7870.0	4846.7
75°	729.0	747.2	750.2	739.6	704.9	709.4	839.2	2176.6	3367.5	2010.5
77.5°	629.4	629.4	635.5	627.9	600.7	531.3	560.0	843.8	1145.6	824.1
80°	505.6	504.1	529.8	544.9	502.6	392.4	357.7	466.4	508.7	362.3
82.5°	246.0	261.1	363.8	415.1	381.9	283.8	218.9	289.8	271.7	160.0
85°	143.4	135.8	163.0	230.9	218.9	157.0	105.7	150.9	141.9	81.5
87.5°	45.3	42.3	33.2	78.5	63.4	43.8	28.7	43.8	39.2	18.1
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°
7316.1	0°	7316.1	7316.1	7316.1	7316.1	7316.1	7316.1	7316.1	7316.1	7316.1	7316.1
7340.2	2.5°	7233.1	7054.9	6878.3	6716.8	6618.7	6555.3	6491.9	6421.0	6393.8	6353.1
7359.8	5°	7160.6	6816.5	6510.1	6245.9	6005.9	5817.2	5627.1	5473.1	5403.7	5450.5
7421.7	7.5°	7118.3	6620.2	6147.8	5663.3	5196.9	4824.0	4499.5	4271.6	4169.0	4194.6
7482.1	10°	7080.6	6398.4	5678.4	4913.1	4242.9	3781.1	3449.0	3275.4	3210.5	3224.1
7563.6	12.5°	7045.9	6149.3	5112.3	4105.6	3393.1	3088.2	2993.1	2994.7	3006.7	3015.8
7693.4	15°	7039.9	5848.9	4479.9	3399.2	2934.3	2914.7	3017.3	3082.2	3116.9	3127.5
7802.1	17.5°	7030.8	5489.7	3835.4	2917.7	2822.6	2955.4	3050.5	3092.8	3119.9	3121.4
7907.8	20°	6994.6	5033.9	3240.7	2688.2	2798.4	2913.1	2972.0	3005.2	3027.9	3035.4
7987.8	22.5°	6882.9	4526.7	2777.3	2585.6	2701.8	2793.9	2863.3	2901.1	2914.7	2923.7
8002.8	25°	6682.1	3959.2	2457.3	2487.5	2567.5	2683.7	2739.6	2747.1	2742.6	2756.2
7965.1	27.5°	6419.5	3350.9	2258.1	2354.7	2457.3	2556.9	2587.1	2582.6	2573.5	2588.6
7900.2	30°	6102.5	2804.5	2131.3	2205.2	2345.6	2436.2	2463.3	2452.8	2434.7	2451.3
7867.0	32.5°	5767.4	2357.7	2027.1	2101.1	2253.5	2342.6	2369.8	2359.2	2345.6	2359.2
7904.7	35°	5455.0	2045.2	1930.5	2031.7	2181.1	2268.6	2303.3	2304.9	2304.9	2321.5
8004.4	37.5°	5168.2	1862.6	1850.5	1987.9	2131.3	2209.8	2259.6	2262.6	2197.7	2202.2
8173.4	40°	4902.5	1785.6	1814.3	1959.2	2083.0	2158.4	2161.5	1992.4	1873.2	1870.1
8366.6	42.5°	4685.2	1770.5	1824.9	1956.2	2048.3	2051.3	1838.5	1707.1	1673.9	1675.4
8544.7	45°	4481.4	1766.0	1849.0	1956.2	1996.9	1772.0	1628.6	1593.9	1596.9	1609.0
8624.7	47.5°	4253.5	1747.9	1853.5	1929.0	1849.0	1575.8	1533.6	1518.5	1512.4	1515.4
8606.6	50°	4004.4	1683.0	1796.2	1874.7	1595.4	1491.3	1438.5	1433.9	1441.5	1446.0
8505.5	52.5°	3741.8	1577.3	1698.1	1776.6	1479.2	1417.3	1358.5	1369.0	1402.2	1412.8
8399.8	55°	3569.7	1453.6	1568.3	1580.3	1397.7	1347.9	1298.1	1322.2	1384.1	1403.7
8336.4	57.5°	3524.5	1322.2	1420.3	1406.8	1293.6	1287.5	1257.3	1278.5	1357.0	1385.6
8333.4	60°	3510.9	1204.5	1275.4	1264.9	1192.4	1221.1	1213.6	1224.1	1251.3	1260.4
8303.2	62.5°	3405.2	1110.9	1145.6	1130.5	1101.9	1151.7	1169.8	1147.1	1168.3	1178.8
8096.4	65°	3136.5	1035.4	1018.8	1008.3	1020.4	1065.6	1101.9	1056.6	1076.2	1106.4
7299.5	67.5°	2692.8	932.8	887.5	899.6	937.3	961.5	1008.3	957.0	973.6	1024.9
5879.1	70°	2178.1	803.0	762.2	797.0	833.2	883.0	890.5	855.8	895.1	952.4
3587.8	72.5°	1541.1	671.7	643.0	713.9	726.0	790.9	774.3	757.7	812.1	831.7
1773.5	75°	1068.7	541.9	525.3	579.6	623.4	679.2	667.2	686.8	801.5	810.5
886.0	77.5°	676.2	421.1	410.6	445.3	505.6	567.5	587.2	810.5	1369.0	1423.4
460.4	80°	392.4	314.0	301.9	329.0	381.9	439.2	566.0	994.7	902.6	892.1
206.8	82.5°	218.9	215.8	200.8	208.3	255.1	317.0	800.0	700.4	569.0	587.2
83.0	85°	102.6	126.8	108.7	104.1	143.4	371.3	534.3	400.0	265.7	259.6
18.1	87.5°	27.2	24.2	24.2	27.2	60.4	320.0	212.8	170.6	101.1	98.1
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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