

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: P946324

Luminaire Tested: **GALN-SB2A-735-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946324
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-SB2A-735-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9123 lumens
Efficiency: N/A
Efficacy: 159.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

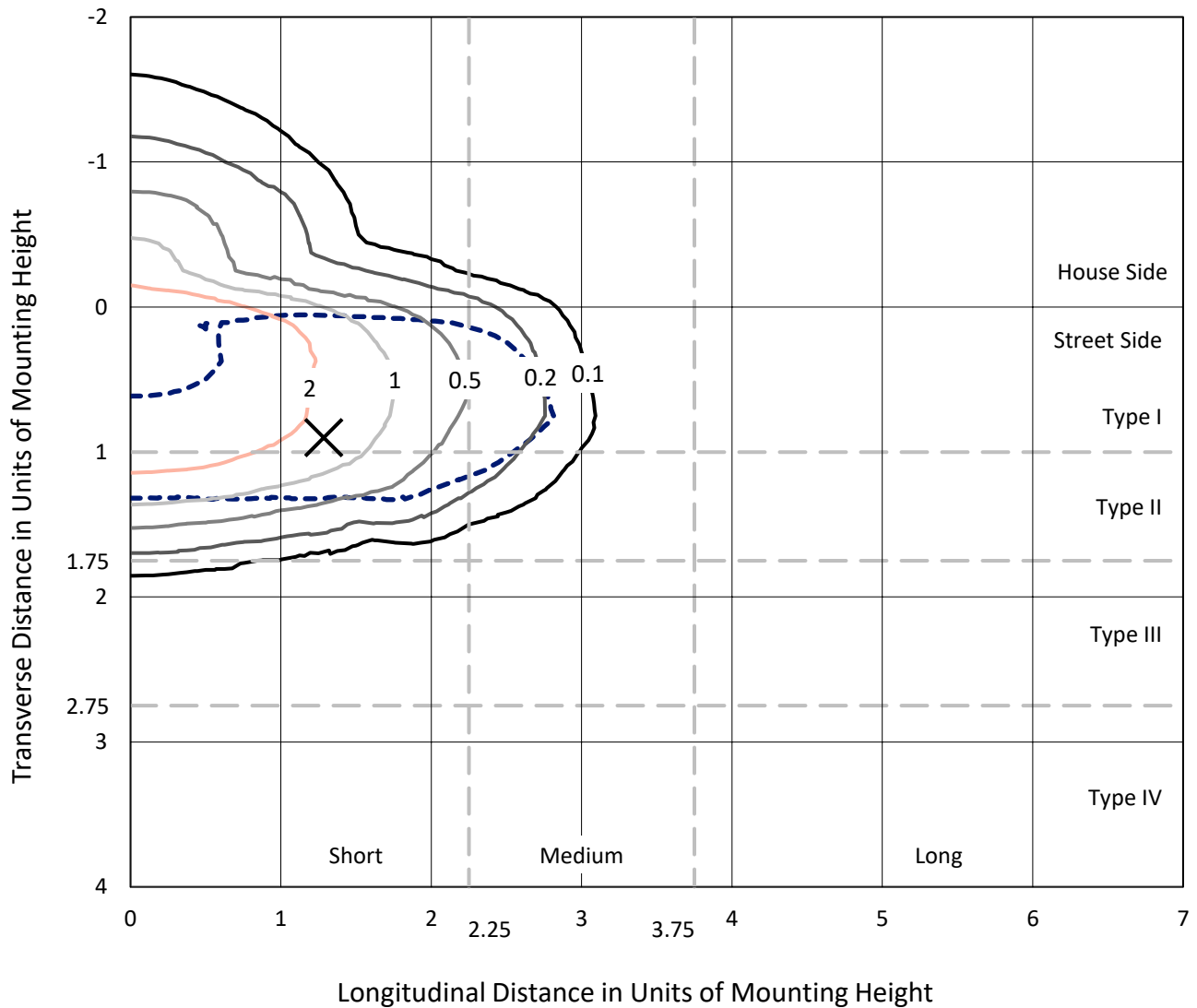
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

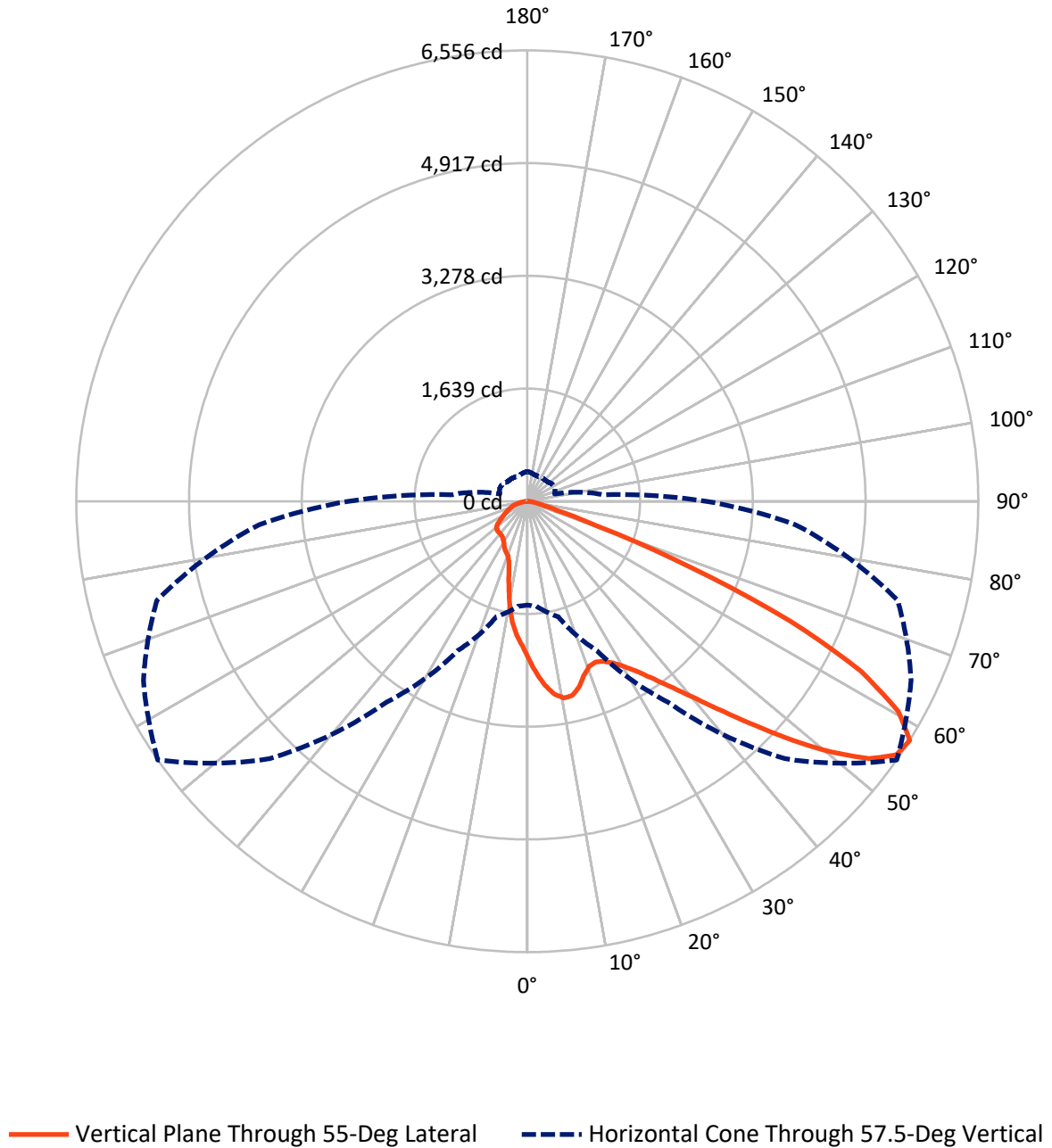
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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	1650.8	0.0	1650.8
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	7472.2	0.0	7472.2
	% Fixture	81.9	0.0	81.9
Total	Lumens	9123.0	0.0	9123.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.1	2.3
10°-20°	535.4	5.9
20°-30°	854.3	9.4
30°-40°	1352.6	14.8
40°-50°	2070.4	22.7
50°-60°	2217.6	24.3
60°-70°	1395.1	15.3
70°-80°	412.6	4.5
80°-90°	72.9	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°	9123.0	100.0
0°-180°	9123.0	100.0

Coefficient of Utilization



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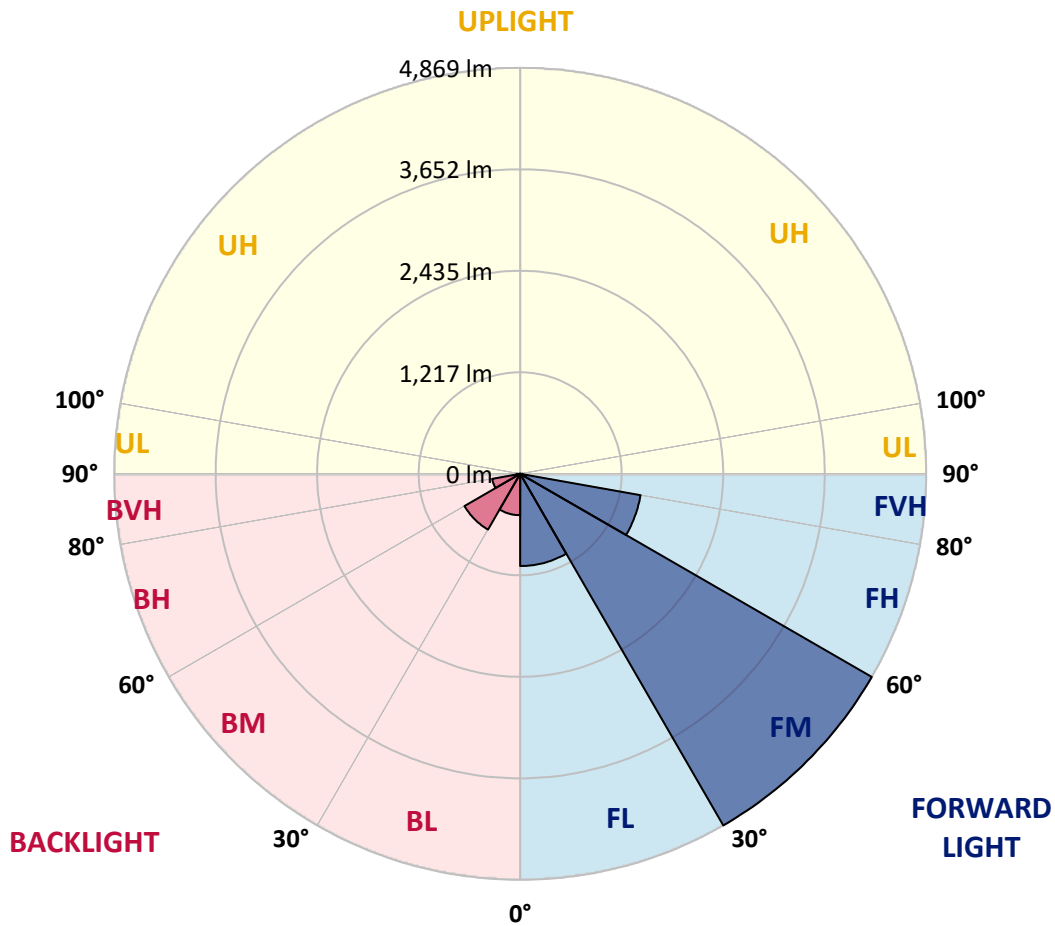
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1105.7	12.1			
FM (30°-60°)	4869.0	53.4			
FH (60°-80°)	1466.7	16.1			G1/1800
FVH (80°-90°)	30.8	0.3			G1/100
BL (0°-30°)	496.2	5.4	B1/500		
BM (30°-60°)	771.5	8.5	B1/1000		
BH (60°-80°)	340.9	3.7	B1/500		G1/500
BVH (80°-90°)	42.1	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2285.9	2285.9	2285.9	2285.9	2285.9	2285.9	2285.9	2285.9	2285.9	2285.9
2.5°	2622.7	2620.8	2631.2	2595.8	2571.7	2539.2	2496.3	2441.6	2382.6	2320.4
5°	2858.9	2842.4	2853.3	2826.9	2800.5	2751.4	2687.7	2598.6	2489.7	2365.6
7.5°	2821.7	2810.4	2838.2	2861.8	2881.6	2875.4	2828.8	2735.4	2594.8	2414.7
10°	2521.3	2508.5	2547.7	2629.3	2749.1	2853.3	2909.9	2851.9	2702.4	2468.4
12.5°	2256.2	2250.1	2276.0	2342.1	2475.0	2675.0	2899.5	2953.7	2814.1	2532.1
15°	2143.0	2135.5	2152.0	2185.5	2270.4	2456.7	2805.2	3023.5	2924.0	2605.7
17.5°	2118.0	2109.5	2116.6	2134.1	2188.8	2330.7	2662.7	3058.0	3038.6	2687.7
20°	2164.3	2157.2	2158.1	2157.2	2195.4	2308.1	2563.7	3044.8	3138.6	2763.2
22.5°	2276.0	2264.2	2264.7	2239.7	2260.5	2347.7	2537.8	3009.4	3227.7	2829.2
25°	2458.1	2436.8	2441.1	2377.4	2371.8	2436.4	2578.3	2982.0	3316.4	2882.1
27.5°	2707.1	2683.0	2670.3	2575.5	2530.2	2562.3	2660.9	2991.5	3400.4	2927.8
30°	3018.3	2989.1	2963.2	2828.8	2746.7	2734.9	2789.1	3053.7	3499.4	2975.9
32.5°	3399.9	3365.9	3318.8	3140.5	3025.0	2963.2	2955.2	3164.6	3615.4	3037.2
35°	3854.1	3809.7	3742.8	3512.1	3365.9	3239.5	3174.0	3324.4	3774.4	3129.7
37.5°	4321.9	4271.9	4210.6	3936.1	3756.4	3570.1	3440.9	3541.4	3986.1	3255.1
40°	4753.4	4697.3	4640.2	4395.9	4203.1	3978.6	3767.7	3815.9	4245.0	3405.1
42.5°	5008.1	4966.6	4944.9	4812.9	4663.8	4436.0	4174.3	4141.3	4536.0	3577.7
45°	4996.8	4979.8	5046.8	5101.5	5066.1	4939.7	4650.6	4501.1	4827.9	3727.2
47.5°	4729.8	4741.2	4890.7	5198.2	5333.5	5399.5	5193.0	4854.4	5081.7	3839.0
50°	4003.6	4013.0	4359.2	5022.2	5402.4	5774.5	5731.1	5199.1	5278.3	3907.3
52.5°	3428.7	3434.8	3583.3	4500.6	5175.1	5963.1	6215.9	5524.1	5422.2	3926.2
55°	2582.6	2603.8	2770.3	3531.0	4583.6	5813.6	6511.1	5858.9	5513.2	3928.1
57.5°	1508.7	1531.8	1737.4	2396.8	3562.6	5292.5	6555.9	6156.0	5575.0	3913.0
60°	739.0	748.9	838.5	1259.7	2196.8	4288.4	6195.6	6299.9	5609.4	3905.0
62.5°	498.0	496.6	500.4	621.6	1082.4	2755.2	5444.8	6048.0	5591.0	3874.3
65°	428.2	423.0	408.9	436.2	560.8	1260.2	4206.8	5296.3	5450.9	3797.5
67.5°	370.2	370.7	371.2	362.7	400.4	581.5	2570.8	4171.9	4948.2	3433.4
70°	306.6	310.8	312.7	312.7	326.4	381.5	1097.5	2859.4	3903.1	2692.0
72.5°	279.2	270.2	271.2	266.5	266.5	290.5	441.9	1620.9	2459.0	1514.4
75°	227.8	233.5	234.4	231.1	220.2	221.7	262.2	680.1	1052.2	628.2
77.5°	196.7	196.7	198.6	196.2	187.7	166.0	175.0	263.6	358.0	257.5
80°	158.0	157.5	165.5	170.3	157.0	122.6	111.8	145.7	158.9	113.2
82.5°	76.9	81.6	113.7	129.7	119.3	88.7	68.4	90.6	84.9	50.0
85°	44.8	42.4	50.9	72.2	68.4	49.0	33.0	47.2	44.3	25.5
87.5°	14.1	13.2	10.4	24.5	19.8	13.7	9.0	13.7	12.3	5.7
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°
2285.9	0°	2285.9	2285.9	2285.9	2285.9	2285.9	2285.9	2285.9	2285.9	2285.9	2285.9
2293.5	2.5°	2260.0	2204.3	2149.2	2098.7	2068.0	2048.2	2028.4	2006.3	1997.8	1985.0
2299.6	5°	2237.4	2129.8	2034.1	1951.6	1876.6	1817.6	1758.2	1710.1	1688.4	1703.0
2318.9	7.5°	2224.1	2068.5	1920.9	1769.5	1623.8	1507.3	1405.9	1334.7	1302.6	1310.6
2337.8	10°	2212.4	1999.2	1774.2	1535.1	1325.7	1181.4	1077.6	1023.4	1003.1	1007.4
2363.3	12.5°	2201.5	1921.4	1597.4	1282.8	1060.2	964.9	935.2	935.7	939.5	942.3
2403.8	15°	2199.6	1827.5	1399.8	1062.1	916.8	910.7	942.8	963.0	973.9	977.2
2437.8	17.5°	2196.8	1715.3	1198.4	911.6	881.9	923.4	953.1	966.3	974.8	975.3
2470.8	20°	2185.5	1572.8	1012.6	839.9	874.4	910.2	928.6	939.0	946.1	948.4
2495.8	22.5°	2150.6	1414.4	867.8	807.9	844.2	873.0	894.7	906.4	910.7	913.5
2500.5	25°	2087.8	1237.1	767.8	777.2	802.2	838.5	856.0	858.3	856.9	861.2
2488.7	27.5°	2005.8	1047.0	705.5	735.7	767.8	798.9	808.4	806.9	804.1	808.8
2468.4	30°	1906.7	876.3	665.9	689.0	732.9	761.2	769.7	766.4	760.7	765.9
2458.1	32.5°	1802.0	736.7	633.4	656.5	704.1	731.9	740.4	737.1	732.9	737.1
2469.9	35°	1704.4	639.0	603.2	634.8	681.5	708.8	719.7	720.2	720.2	725.3
2501.0	37.5°	1614.8	582.0	578.2	621.1	665.9	690.4	706.0	707.0	686.7	688.1
2553.8	40°	1531.8	557.9	566.9	612.2	650.8	674.4	675.4	622.5	585.3	584.3
2614.2	42.5°	1463.9	553.2	570.2	611.2	640.0	640.9	574.4	533.4	523.0	523.5
2669.8	45°	1400.2	551.8	577.7	611.2	623.9	553.7	508.9	498.0	499.0	502.7
2694.8	47.5°	1329.0	546.1	579.1	602.7	577.7	492.4	479.2	474.4	472.6	473.5
2689.2	50°	1251.2	525.9	561.2	585.7	498.5	466.0	449.5	448.0	450.4	451.8
2657.6	52.5°	1169.1	492.8	530.6	555.1	462.2	442.8	424.5	427.8	438.1	441.4
2624.5	55°	1115.4	454.2	490.0	493.8	436.7	421.2	405.6	413.1	432.5	438.6
2604.7	57.5°	1101.2	413.1	443.8	439.5	404.2	402.3	392.9	399.5	424.0	432.9
2603.8	60°	1097.0	376.4	398.5	395.2	372.6	381.5	379.2	382.5	391.0	393.8
2594.4	62.5°	1064.0	347.1	358.0	353.2	344.3	359.8	365.5	358.4	365.0	368.3
2529.8	65°	980.0	323.5	318.3	315.0	318.8	333.0	344.3	330.1	336.3	345.7
2280.7	67.5°	841.4	291.5	277.3	281.1	292.9	300.4	315.0	299.0	304.2	320.2
1836.9	70°	680.5	250.9	238.2	249.0	260.3	275.9	278.3	267.4	279.7	297.6
1121.0	72.5°	481.5	209.9	200.9	223.1	226.8	247.1	241.9	236.8	253.7	259.9
554.1	75°	333.9	169.3	164.1	181.1	194.8	212.2	208.5	214.6	250.4	253.3
276.8	77.5°	211.3	131.6	128.3	139.1	158.0	177.3	183.5	253.3	427.8	444.7
143.8	80°	122.6	98.1	94.3	102.8	119.3	137.2	176.9	310.8	282.0	278.7
64.6	82.5°	68.4	67.4	62.7	65.1	79.7	99.0	250.0	218.8	177.8	183.5
25.9	85°	32.1	39.6	34.0	32.5	44.8	116.0	167.0	125.0	83.0	81.1
5.7	87.5°	8.5	7.5	7.5	8.5	18.9	100.0	66.5	53.3	31.6	30.7
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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