

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: P951406

Luminaire Tested: **GALN-SB5C-827-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951406  
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-SB5C-827-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

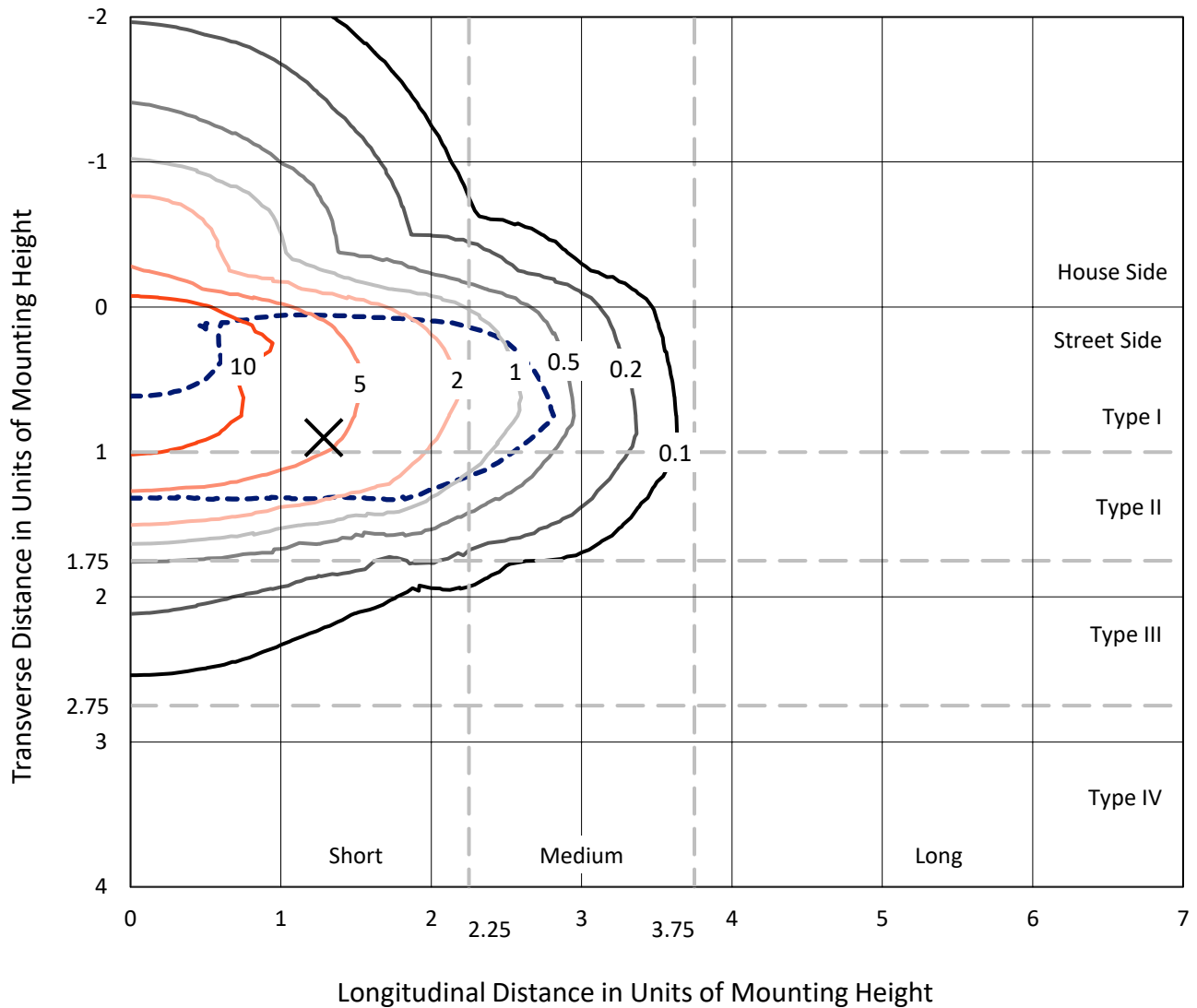
Lumens per Lamp: N/A  
Luminaire Lumens: 33456 lumens  
Efficiency: N/A  
Efficacy: 134.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 249.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

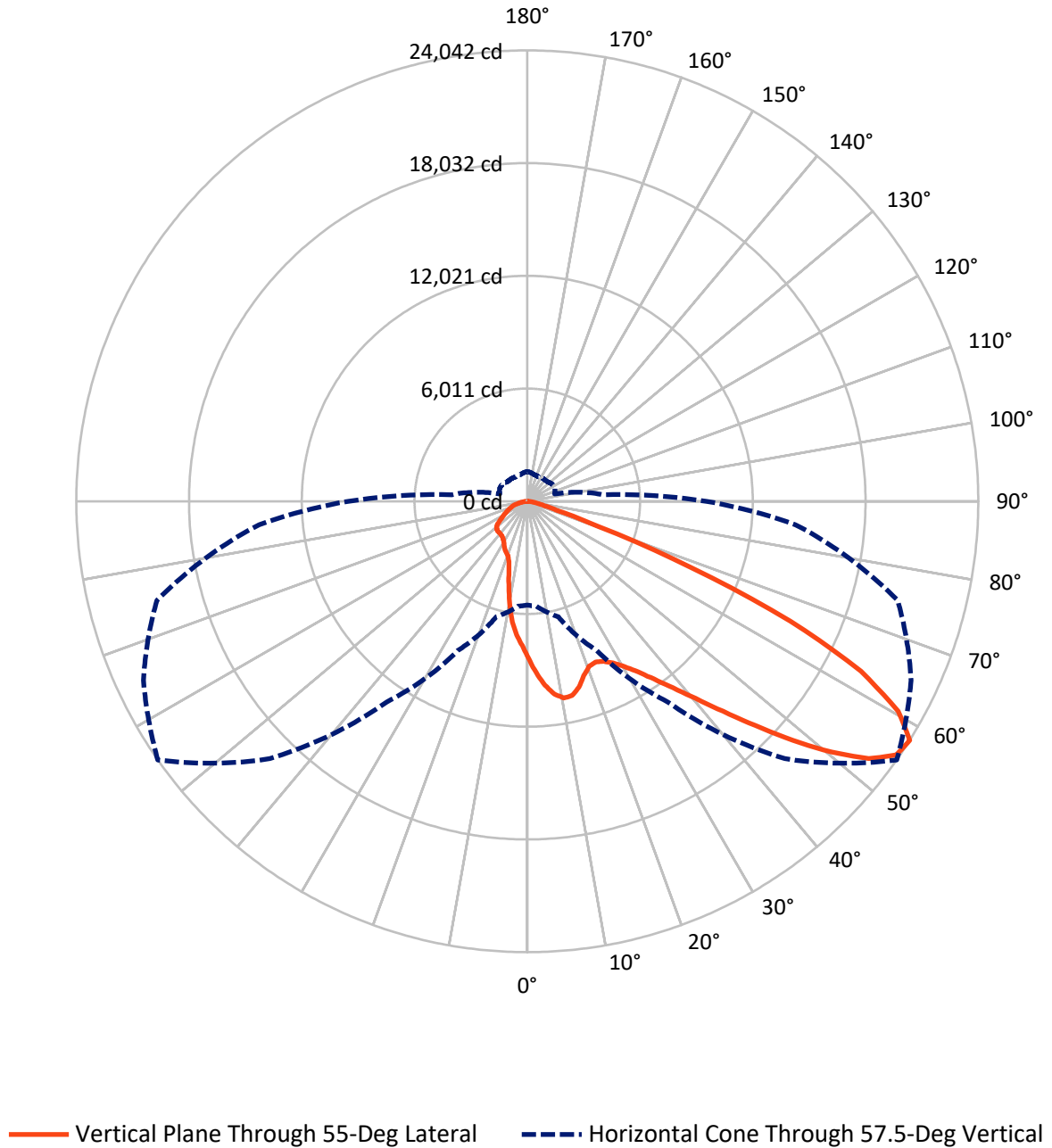
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6053.7	0.0	6053.7
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	27402.3	0.0	27402.3
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	33456.0	0.0	33456.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	777.9	2.3
10°-20°	1963.4	5.9
20°-30°	3133.1	9.4
30°-40°	4960.4	14.8
40°-50°	7592.5	22.7
50°-60°	8132.2	24.3
60°-70°	5116.0	15.3
70°-80°	1512.9	4.5
80°-90°	267.5	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°	33456.0	100.0
0°-180°	33456.0	100.0



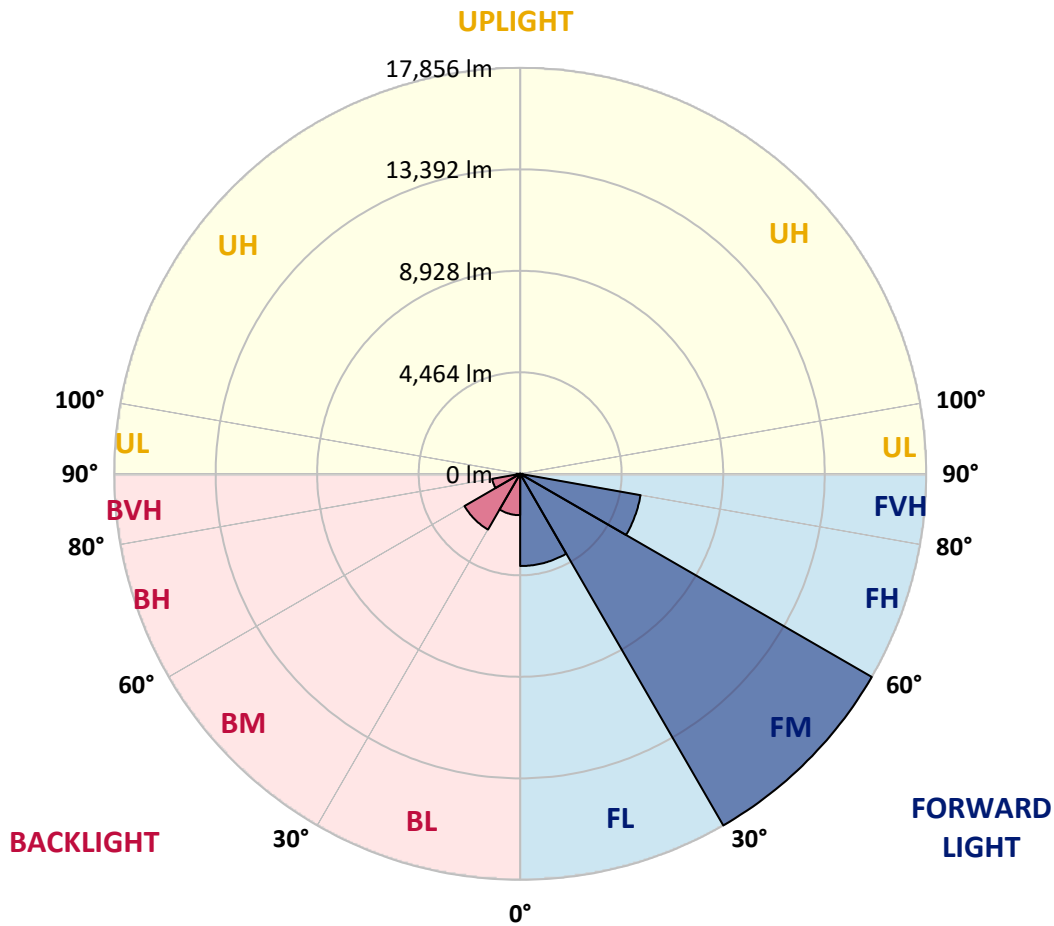
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4054.9	12.1			
FM (30°-60°)	17855.7	53.4			
FH (60°-80°)	5378.7	16.1			G3/7500
FVH (80°-90°)	113.0	0.3			G2/225
BL (0°-30°)	1819.5	5.4	B3/2500		
BM (30°-60°)	2829.4	8.5	B3/5000		
BH (60°-80°)	1250.2	3.7	B3/2500		G3/2500
BVH (80°-90°)	154.5	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°	8383.0	8383.0	8383.0	8383.0	8383.0	8383.0	8383.0	8383.0	8383.0	8383.0
2.5°	9617.9	9610.9	9649.0	9519.3	9431.1	9311.7	9154.4	8953.7	8737.5	8509.2
5°	10484.4	10423.8	10463.6	10366.7	10269.9	10090.0	9856.5	9529.7	9130.1	8675.3
7.5°	10347.7	10306.2	10408.3	10494.7	10567.4	10544.9	10373.7	10031.2	9515.8	8855.1
10°	9246.0	9199.3	9342.9	9642.1	10081.4	10463.6	10671.1	10458.4	9910.2	9052.3
12.5°	8274.0	8251.5	8346.7	8588.8	9076.5	9809.8	10633.1	10832.0	10320.1	9285.8
15°	7858.9	7831.3	7891.8	8014.6	8325.9	9009.1	10287.2	11088.0	10723.0	9555.6
17.5°	7767.3	7736.1	7762.1	7826.1	8026.7	8547.3	9764.9	11214.2	11143.3	9856.5
20°	7936.8	7910.8	7914.3	7910.8	8050.9	8464.3	9401.7	11165.8	11510.0	10133.3
22.5°	8346.7	8303.4	8305.2	8213.5	8289.6	8609.6	9306.6	11036.1	11836.8	10375.4
25°	9014.3	8936.4	8952.0	8718.5	8697.8	8934.7	9455.3	10935.8	12162.0	10569.1
27.5°	9927.4	9839.2	9792.5	9444.9	9278.9	9396.5	9758.0	10970.4	12469.8	10736.9
30°	11068.9	10961.7	10866.6	10373.7	10072.7	10029.5	10228.4	11198.6	12833.0	10913.3
32.5°	12468.1	12343.6	12170.6	11516.9	11093.1	10866.6	10837.2	11605.1	13258.5	11138.1
35°	14133.6	13971.1	13725.5	12879.7	12343.6	11880.1	11639.7	12191.4	13841.4	11477.1
37.5°	15849.3	15666.0	15441.2	14434.6	13775.6	13092.5	12618.6	12987.0	14617.9	11937.2
40°	17431.8	17226.0	17016.8	16120.9	15413.5	14590.2	13817.1	13993.6	15567.4	12487.1
42.5°	18365.8	18213.6	18134.0	17649.8	17103.2	16267.9	15308.0	15186.9	16634.5	13120.1
45°	18324.3	18262.0	18507.6	18708.2	18578.5	18115.0	17054.8	16506.5	17705.1	13668.4
47.5°	17345.4	17386.9	17935.1	19062.8	19559.2	19801.3	19043.8	17802.0	18635.6	14078.3
50°	14681.9	14716.5	15986.0	18417.7	19811.7	21176.3	21017.1	19066.2	19356.8	14329.1
52.5°	12573.6	12596.1	13140.9	16504.8	18978.0	21868.1	22795.1	20257.9	19884.3	14398.3
55°	9470.9	9548.7	10159.2	12948.9	16809.2	21319.8	23877.8	21485.8	20218.1	14405.2
57.5°	5532.7	5617.5	6371.6	8789.4	13064.8	19408.7	24042.1	22575.4	20444.7	14349.8
60°	2710.2	2746.5	3075.1	4619.6	8056.1	15726.5	22720.7	23102.9	20570.9	14320.4
62.5°	1826.4	1821.2	1835.0	2279.5	3969.3	10103.9	19967.3	22179.4	20503.5	14208.0
65°	1570.4	1551.4	1499.5	1599.8	2056.4	4621.3	15427.3	19422.5	19989.8	13926.1
67.5°	1357.7	1359.4	1361.1	1330.0	1468.4	2132.5	9427.6	15299.3	18146.1	12590.9
70°	1124.2	1139.8	1146.7	1146.7	1196.8	1399.2	4024.6	10486.1	14313.5	9872.1
72.5°	1023.9	991.0	994.5	977.2	977.2	1065.4	1620.6	5944.4	9017.7	5553.5
75°	835.4	856.1	859.6	847.5	807.7	812.9	961.6	2494.0	3858.6	2303.7
77.5°	721.2	721.2	728.1	719.5	688.3	608.8	641.7	966.8	1312.7	944.3
80°	579.4	577.7	607.1	624.4	575.9	449.7	409.9	534.4	582.8	415.1
82.5°	281.9	299.2	416.8	475.6	437.6	325.1	250.8	332.1	311.3	183.3
85°	164.3	155.7	186.8	264.6	250.8	179.9	121.1	173.0	162.6	93.4
87.5°	51.9	48.4	38.0	89.9	72.6	50.2	32.9	50.2	45.0	20.8
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°
8383.0	0°	8383.0	8383.0	8383.0	8383.0	8383.0	8383.0	8383.0	8383.0	8383.0	8383.0
8410.7	2.5°	8287.9	8083.8	7881.4	7696.4	7583.9	7511.3	7438.7	7357.4	7326.3	7279.6
8433.1	5°	8204.8	7810.5	7459.4	7156.8	6881.8	6665.6	6447.7	6271.2	6191.7	6245.3
8504.1	7.5°	8156.4	7585.7	7044.3	6489.2	5954.7	5527.5	5155.7	4894.5	4776.9	4806.3
8573.2	10°	8113.2	7331.4	6506.5	5629.6	4861.7	4332.4	3952.0	3753.1	3678.7	3694.3
8666.6	12.5°	8073.4	7046.1	5857.9	4704.3	3888.0	3538.6	3429.6	3431.4	3445.2	3455.6
8815.4	15°	8066.5	6701.9	5133.2	3894.9	3362.2	3339.7	3457.3	3531.7	3571.5	3583.6
8939.9	17.5°	8056.1	6290.3	4394.7	3343.2	3234.2	3386.4	3495.4	3543.8	3574.9	3576.6
9061.0	20°	8014.6	5768.0	3713.3	3080.3	3206.5	3338.0	3405.4	3443.5	3469.4	3478.1
9152.6	22.5°	7886.6	5186.8	3182.3	2962.7	3095.8	3201.3	3280.9	3324.1	3339.7	3350.1
9169.9	25°	7656.6	4536.5	2815.7	2850.3	2941.9	3075.1	3139.1	3147.7	3142.5	3158.1
9126.7	27.5°	7355.7	3839.5	2587.4	2698.1	2815.7	2929.8	2964.4	2959.2	2948.8	2966.1
9052.3	30°	6992.5	3213.4	2442.1	2526.8	2687.7	2791.4	2822.6	2810.5	2789.7	2808.7
9014.3	32.5°	6608.5	2701.5	2322.7	2407.5	2582.2	2684.2	2715.3	2703.2	2687.7	2703.2
9057.5	35°	6250.5	2343.5	2212.1	2327.9	2499.2	2599.5	2639.2	2641.0	2641.0	2660.0
9171.6	37.5°	5921.9	2134.2	2120.4	2277.8	2442.1	2532.0	2589.1	2592.6	2518.2	2523.4
9365.4	40°	5617.5	2046.0	2078.9	2244.9	2386.7	2473.2	2476.7	2283.0	2146.3	2142.9
9586.7	42.5°	5368.4	2028.7	2091.0	2241.5	2347.0	2350.4	2106.6	1956.1	1918.0	1919.8
9790.8	45°	5134.9	2023.5	2118.7	2241.5	2288.2	2030.5	1866.2	1826.4	1829.8	1843.7
9882.5	47.5°	4873.8	2002.8	2123.9	2210.3	2118.7	1805.6	1757.2	1739.9	1733.0	1736.4
9861.7	50°	4588.4	1928.4	2058.1	2148.1	1828.1	1708.8	1648.2	1643.0	1651.7	1656.9
9745.9	52.5°	4287.5	1807.3	1945.7	2035.6	1694.9	1624.0	1556.6	1568.7	1606.7	1618.8
9624.8	55°	4090.3	1665.5	1797.0	1810.8	1601.5	1544.5	1487.4	1515.1	1586.0	1608.5
9552.1	57.5°	4038.4	1515.1	1627.5	1611.9	1482.2	1475.3	1440.7	1464.9	1554.8	1587.7
9548.7	60°	4022.9	1380.2	1461.4	1449.3	1366.3	1399.2	1390.5	1402.6	1433.8	1444.1
9514.1	62.5°	3901.8	1272.9	1312.7	1295.4	1262.6	1319.6	1340.4	1314.4	1338.6	1350.8
9277.1	65°	3593.9	1186.5	1167.4	1155.3	1169.2	1221.0	1262.6	1210.7	1233.1	1267.7
8364.0	67.5°	3085.5	1068.8	1017.0	1030.8	1074.0	1101.7	1155.3	1096.5	1115.5	1174.3
6736.5	70°	2495.7	920.1	873.4	913.2	954.7	1011.8	1020.4	980.6	1025.6	1091.3
4111.1	72.5°	1765.8	769.6	736.8	818.1	831.9	906.3	887.2	868.2	930.5	953.0
2032.2	75°	1224.5	620.9	601.9	664.1	714.3	778.3	764.4	786.9	918.4	928.8
1015.2	77.5°	774.8	482.5	470.4	510.2	579.4	650.3	672.8	928.8	1568.7	1630.9
527.5	80°	449.7	359.7	345.9	377.0	437.6	503.3	648.6	1139.8	1034.3	1022.1
236.9	82.5°	250.8	247.3	230.0	238.7	292.3	363.2	916.6	802.5	652.0	672.8
95.1	85°	117.6	145.3	124.5	119.3	164.3	425.5	612.3	458.3	304.4	297.5
20.8	87.5°	31.1	27.7	27.7	31.1	69.2	366.7	243.9	195.4	115.9	112.4
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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