

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: P955690

Luminaire Tested: **GALN-SB8C-827-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955690
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-SB8C-827-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 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: 53556 lumens
Efficiency: N/A
Efficacy: 134.0 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

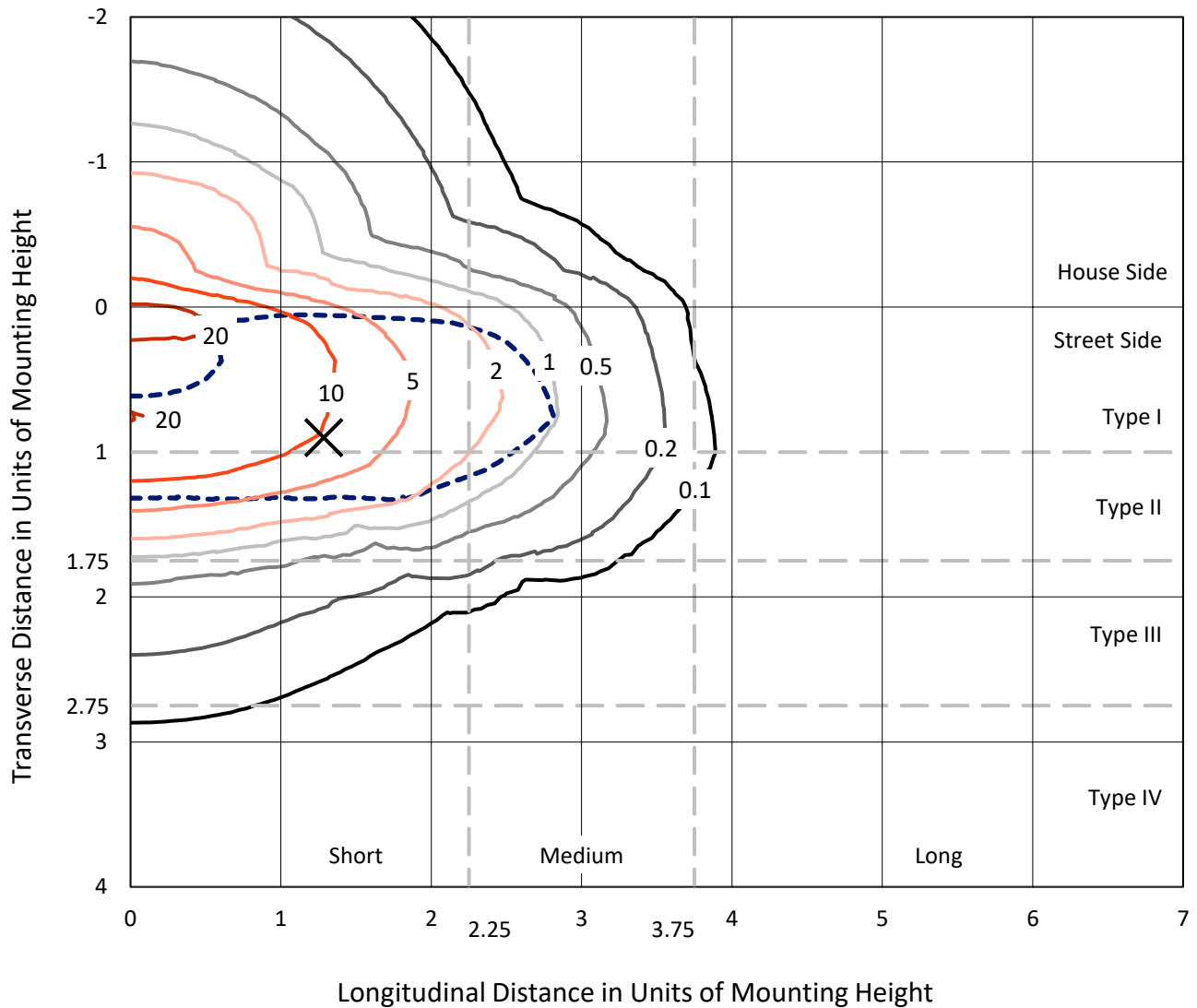
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

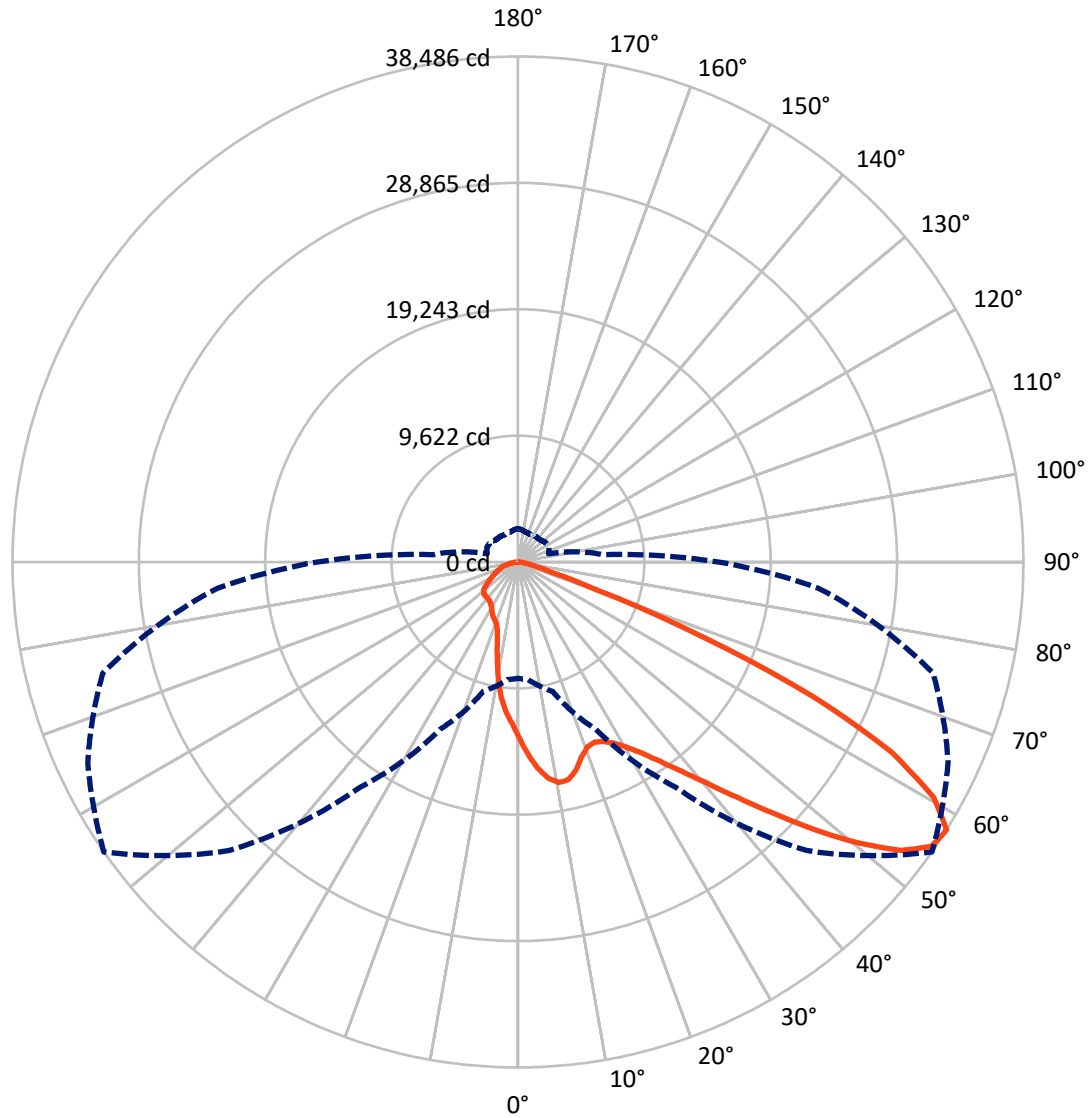
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.9 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	9690.7	0.0	9690.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	43865.3	0.0	43865.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	53556.0	0.0	53556.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1245.2	2.3
10°-20°	3143.0	5.9
20°-30°	5015.4	9.4
30°-40°	7940.6	14.8
40°-50°	12153.9	22.7
50°-60°	13018.0	24.3
60°-70°	8189.7	15.3
70°-80°	2421.8	4.5
80°-90°	428.2	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°	53556.0	100.0
0°-180°	53556.0	100.0

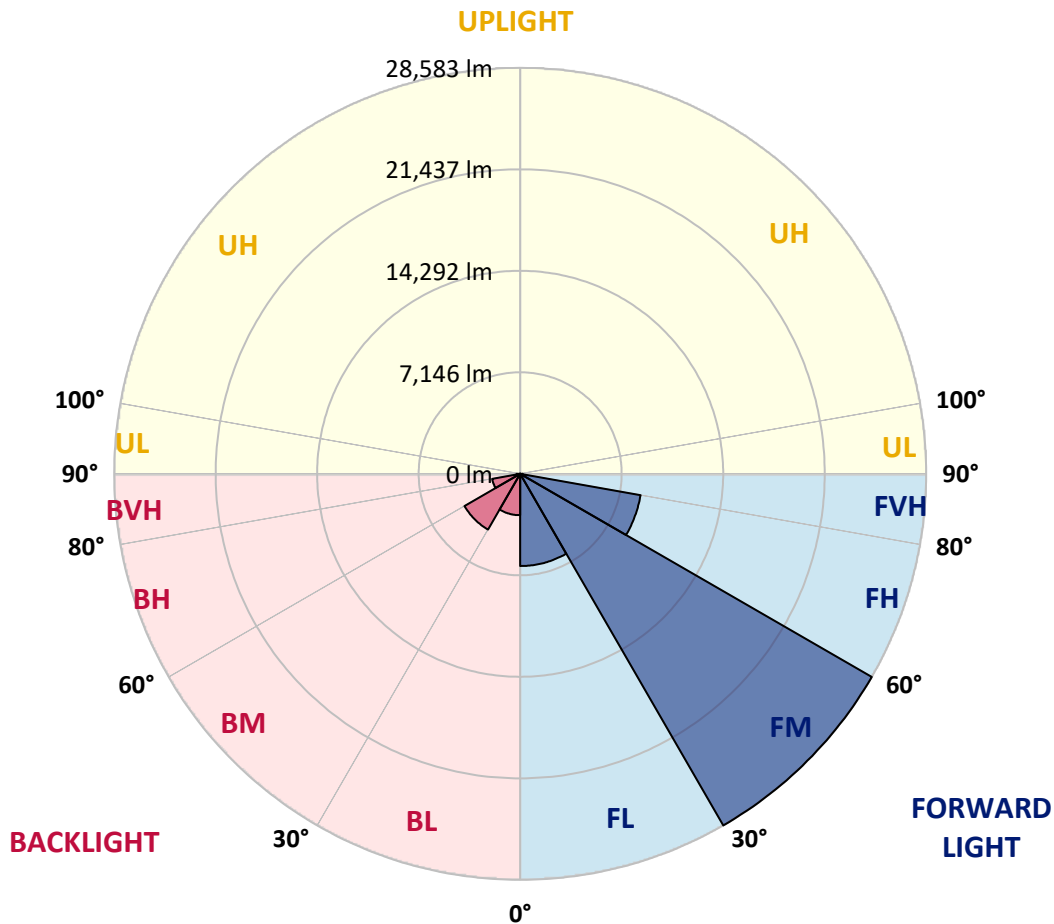


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6491.0	12.1			
FM (30°-60°)	28583.2	53.4			
FH (60°-80°)	8610.2	16.1			G4/12000
FVH (80°-90°)	180.9	0.3			G2/225
BL (0°-30°)	2912.7	5.4	B4/5000		
BM (30°-60°)	4529.3	8.5	B3/5000		
BH (60°-80°)	2001.4	3.7	B3/2500		G3/2500
BVH (80°-90°)	247.3	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°	13419.4	13419.4	13419.4	13419.4	13419.4	13419.4	13419.4	13419.4	13419.4	13419.4
2.5°	15396.2	15385.1	15446.0	15238.4	15097.2	14906.1	14654.2	14333.0	13987.0	13621.5
5°	16783.2	16686.3	16750.0	16595.0	16439.9	16152.0	15778.2	15255.0	14615.4	13887.3
7.5°	16564.5	16498.1	16661.4	16799.9	16916.1	16880.1	16606.1	16057.9	15232.8	14175.2
10°	14800.9	14726.2	14956.0	15434.9	16138.2	16750.0	17082.3	16741.7	15864.1	14490.8
12.5°	13245.0	13209.0	13361.3	13748.9	14529.6	15703.5	17021.3	17339.7	16520.2	14864.6
15°	12580.5	12536.2	12633.1	12829.7	13328.0	14421.6	16467.6	17749.5	17165.3	15296.5
17.5°	12433.8	12383.9	12425.5	12527.9	12849.1	13682.4	15631.5	17951.6	17838.1	15778.2
20°	12705.1	12663.6	12669.1	12663.6	12887.8	13549.5	15050.1	17874.1	18425.0	16221.2
22.5°	13361.3	13292.0	13294.8	13148.1	13269.9	13782.1	14897.8	17666.4	18948.3	16608.8
25°	14429.9	14305.3	14330.3	13956.5	13923.3	14302.6	15135.9	17505.8	19468.8	16918.9
27.5°	15891.8	15750.6	15675.8	15119.3	14853.5	15041.8	15620.4	17561.2	19961.6	17187.5
30°	17719.0	17547.4	17395.1	16606.1	16124.3	16055.1	16373.5	17926.7	20543.0	17469.9
32.5°	19958.8	19759.5	19482.6	18436.1	17757.8	17395.1	17348.0	18577.3	21224.1	17829.8
35°	22625.0	22364.7	21971.6	20617.8	19759.5	19017.5	18632.7	19515.8	22157.1	18372.4
37.5°	25371.4	25078.0	24718.0	23106.7	22051.9	20958.3	20199.7	20789.4	23400.2	19108.9
40°	27904.7	27575.2	27240.2	25806.1	24673.7	23355.9	22118.3	22400.7	24920.2	19989.3
42.5°	29399.7	29156.1	29028.8	28253.5	27378.7	26041.4	24504.9	24311.1	26628.4	21002.6
45°	29333.3	29233.6	29626.8	29947.9	29740.3	28998.3	27301.1	26423.5	28342.1	21880.2
47.5°	27766.3	27832.7	28710.4	30515.5	31310.1	31697.7	30485.0	28497.2	29831.6	22536.4
50°	23502.6	23558.0	25590.2	29482.8	31714.3	33898.7	33644.0	30521.0	30986.2	22937.8
52.5°	20127.7	20163.7	21035.8	26420.7	30379.8	35006.2	36490.1	32428.6	31830.6	23048.6
55°	15160.8	15285.4	16262.7	20728.5	26908.0	34128.5	38223.3	34394.3	32364.9	23059.7
57.5°	8856.7	8992.4	10199.5	14070.0	20914.0	31069.2	38486.3	36138.5	32727.6	22971.1
60°	4338.4	4396.5	4922.6	7394.9	12896.1	25174.9	36371.1	36982.9	32929.7	22924.0
62.5°	2923.6	2915.3	2937.5	3649.0	6353.9	16174.2	31963.5	35504.5	32821.7	22744.0
65°	2513.9	2483.4	2400.4	2561.0	3291.9	7397.7	24695.9	31091.4	31999.5	22292.8
67.5°	2173.3	2176.1	2178.9	2129.1	2350.5	3413.7	15091.6	24491.0	29048.1	20155.4
70°	1799.6	1824.5	1835.6	1835.6	1915.9	2239.8	6442.5	16786.0	22912.9	15803.2
72.5°	1639.0	1586.4	1591.9	1564.3	1564.3	1705.5	2594.2	9515.7	14435.5	8890.0
75°	1337.2	1370.5	1376.0	1356.6	1292.9	1301.2	1539.3	3992.3	6176.7	3687.8
77.5°	1154.5	1154.5	1165.6	1151.7	1101.9	974.5	1027.1	1547.6	2101.4	1511.7
80°	927.5	924.7	971.8	999.5	921.9	719.8	656.2	855.5	933.0	664.5
82.5°	451.3	479.0	667.2	761.4	700.5	520.5	401.4	531.6	498.3	293.5
85°	263.0	249.2	299.0	423.6	401.4	287.9	193.8	276.9	260.2	149.5
87.5°	83.1	77.5	60.9	144.0	116.3	80.3	52.6	80.3	72.0	33.2
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°
13419.4	0°	13419.4	13419.4	13419.4	13419.4	13419.4	13419.4	13419.4	13419.4	13419.4	13419.4
13463.7	2.5°	13267.1	12940.4	12616.5	12320.3	12140.3	12024.0	11907.7	11777.6	11727.8	11653.0
13499.7	5°	13134.2	12503.0	11941.0	11456.5	11016.3	10670.2	10321.3	10038.9	9911.6	9997.4
13613.2	7.5°	13056.7	12143.1	11276.5	10387.8	9532.3	8848.4	8253.2	7835.1	7646.9	7693.9
13723.9	10°	12987.5	11736.1	10415.5	9011.8	7782.5	6935.3	6326.2	6007.9	5888.8	5913.7
13873.4	12.5°	12923.8	11279.3	9377.2	7530.6	6223.8	5664.6	5490.1	5492.9	5515.0	5531.7
14111.5	15°	12912.7	10728.3	8217.2	6234.9	5382.2	5346.2	5534.4	5653.5	5717.2	5736.5
14310.9	17.5°	12896.1	10069.4	7035.0	5351.7	5177.3	5420.9	5595.3	5672.9	5722.7	5725.5
14504.7	20°	12829.7	9233.3	5944.2	4930.9	5133.0	5343.4	5451.4	5512.3	5553.8	5567.7
14651.4	22.5°	12624.8	8303.0	5094.2	4742.6	4955.8	5124.7	5252.0	5321.2	5346.2	5362.8
14679.1	25°	12256.6	7262.0	4507.3	4562.6	4709.4	4922.6	5025.0	5038.8	5030.5	5055.5
14609.9	27.5°	11774.8	6146.3	4141.8	4319.0	4507.3	4690.0	4745.4	4737.1	4720.5	4748.1
14490.8	30°	11193.4	5144.1	3909.3	4044.9	4302.4	4468.5	4518.4	4499.0	4465.7	4496.2
14429.9	32.5°	10578.8	4324.6	3718.2	3853.9	4133.5	4296.9	4346.7	4327.3	4302.4	4327.3
14499.1	35°	10005.7	3751.5	3541.0	3726.5	4000.6	4161.2	4224.9	4227.6	4227.6	4258.1
14681.9	37.5°	9479.7	3416.5	3394.3	3646.2	3909.3	4053.2	4144.6	4150.1	4031.1	4039.4
14992.0	40°	8992.4	3275.3	3327.9	3593.6	3820.7	3959.1	3964.6	3654.5	3435.8	3430.3
15346.3	42.5°	8593.7	3247.6	3347.2	3588.1	3757.0	3762.5	3372.2	3131.3	3070.4	3073.1
15673.0	45°	8220.0	3239.3	3391.5	3588.1	3662.9	3250.3	2987.3	2923.6	2929.2	2951.3
15819.8	47.5°	7801.9	3206.0	3399.8	3538.3	3391.5	2890.4	2812.9	2785.2	2774.1	2779.7
15786.5	50°	7345.1	3087.0	3294.6	3438.6	2926.4	2735.4	2638.5	2630.2	2644.0	2652.3
15601.1	52.5°	6863.4	2893.2	3114.7	3258.6	2713.2	2599.7	2491.7	2511.1	2572.0	2591.4
15407.2	55°	6547.7	2666.2	2876.6	2898.7	2563.7	2472.4	2381.0	2425.3	2538.8	2574.8
15291.0	57.5°	6464.7	2425.3	2605.3	2580.3	2372.7	2361.6	2306.2	2345.0	2489.0	2541.6
15285.4	60°	6439.8	2209.3	2339.5	2320.1	2187.2	2239.8	2226.0	2245.3	2295.2	2311.8
15230.1	62.5°	6246.0	2037.7	2101.4	2073.7	2021.1	2112.4	2145.7	2104.1	2142.9	2162.3
14850.8	65°	5753.1	1899.3	1868.8	1849.4	1871.6	1954.6	2021.1	1938.0	1974.0	2029.4
13388.9	67.5°	4939.2	1711.0	1627.9	1650.1	1719.3	1763.6	1849.4	1755.3	1785.7	1879.9
10783.7	70°	3995.1	1472.9	1398.1	1461.8	1528.3	1619.6	1633.5	1569.8	1641.8	1747.0
6581.0	72.5°	2826.7	1232.0	1179.4	1309.5	1331.7	1450.7	1420.3	1389.8	1489.5	1525.5
3253.1	75°	1960.2	993.9	963.5	1063.1	1143.4	1245.9	1223.7	1259.7	1470.1	1486.7
1625.2	77.5°	1240.3	772.4	753.1	816.7	927.5	1041.0	1077.0	1486.7	2511.1	2610.8
844.4	80°	719.8	575.9	553.7	603.6	700.5	805.7	1038.2	1824.5	1655.6	1636.2
379.3	82.5°	401.4	395.9	368.2	382.1	467.9	581.4	1467.4	1284.6	1043.8	1077.0
152.3	85°	188.3	232.6	199.3	191.0	263.0	681.1	980.1	733.7	487.3	476.2
33.2	87.5°	49.8	44.3	44.3	49.8	110.7	586.9	390.4	312.9	185.5	180.0
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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