

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: P956152

Luminaire Tested: **GALN-SB8D-927-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956152
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-SB8D-927-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50939 lumens
Efficiency: N/A
Efficacy: 87.1 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

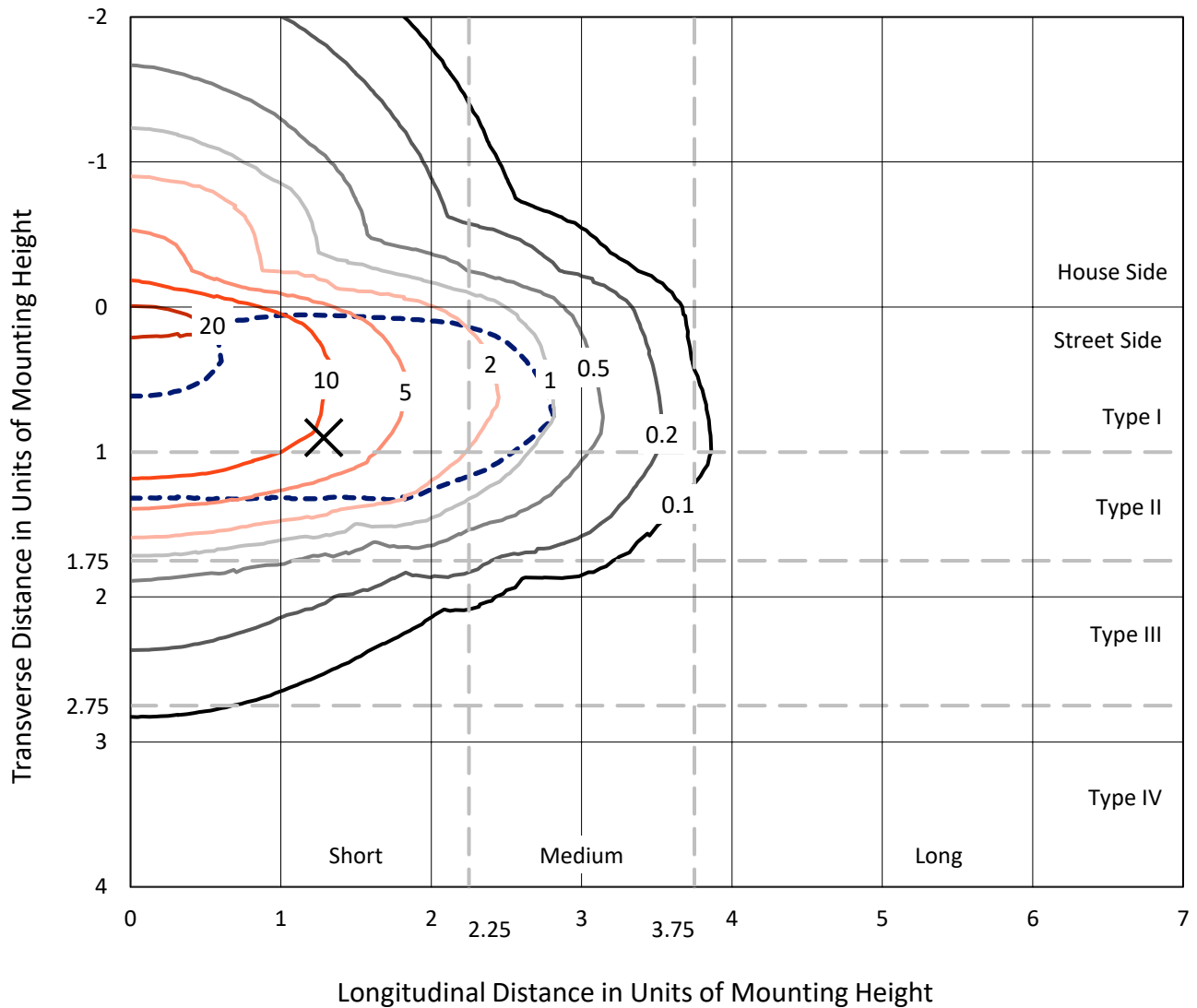
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

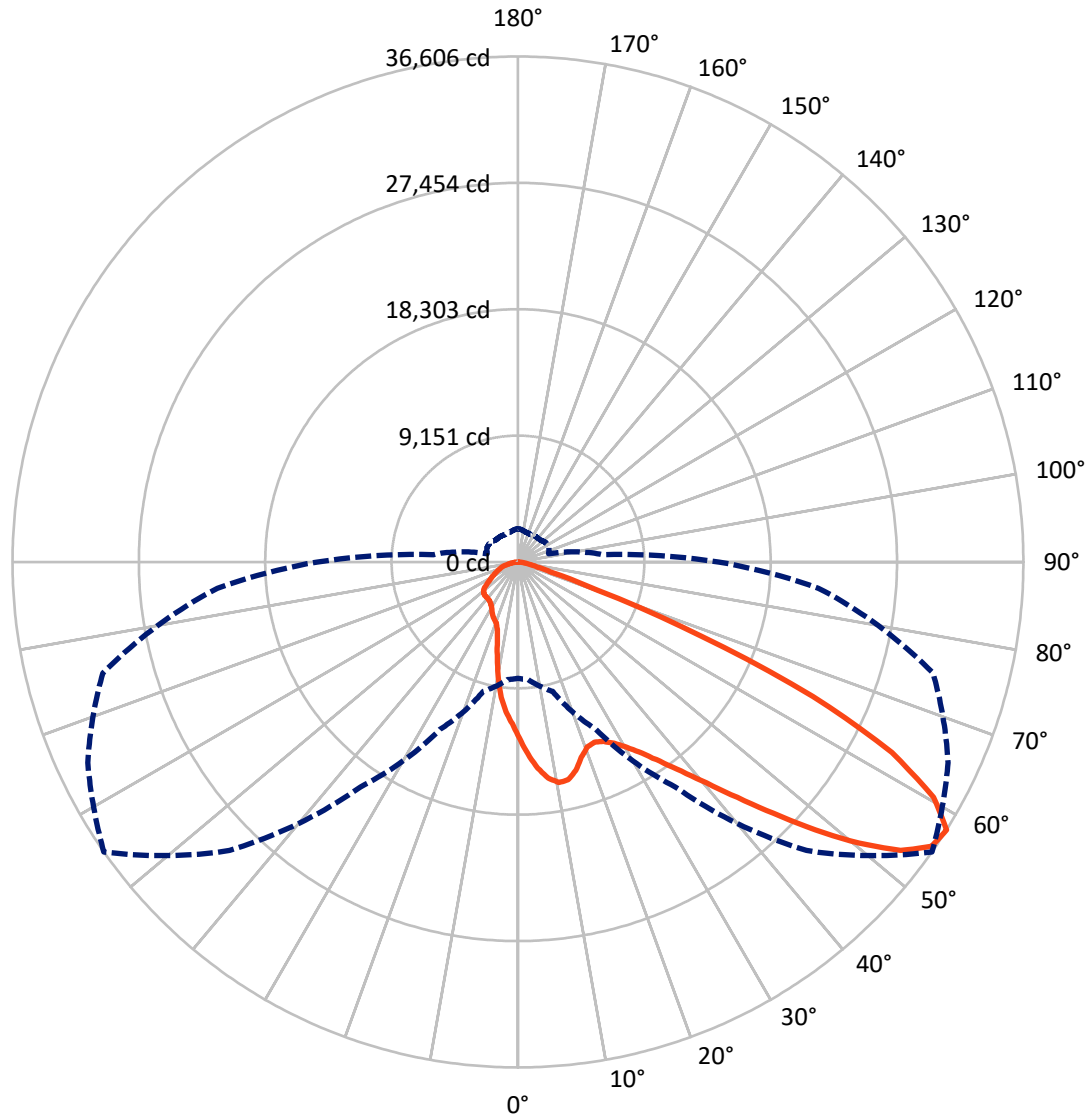
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.7 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	9217.2	0.0	9217.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	41721.8	0.0	41721.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	50939.0	0.0	50939.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1184.4	2.3
10°-20°	2989.5	5.9
20°-30°	4770.3	9.4
30°-40°	7552.6	14.8
40°-50°	11560.0	22.7
50°-60°	12381.9	24.3
60°-70°	7789.5	15.3
70°-80°	2303.5	4.5
80°-90°	407.3	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°	50939.0	100.0
0°-180°	50939.0	100.0

Coefficient of Utilization



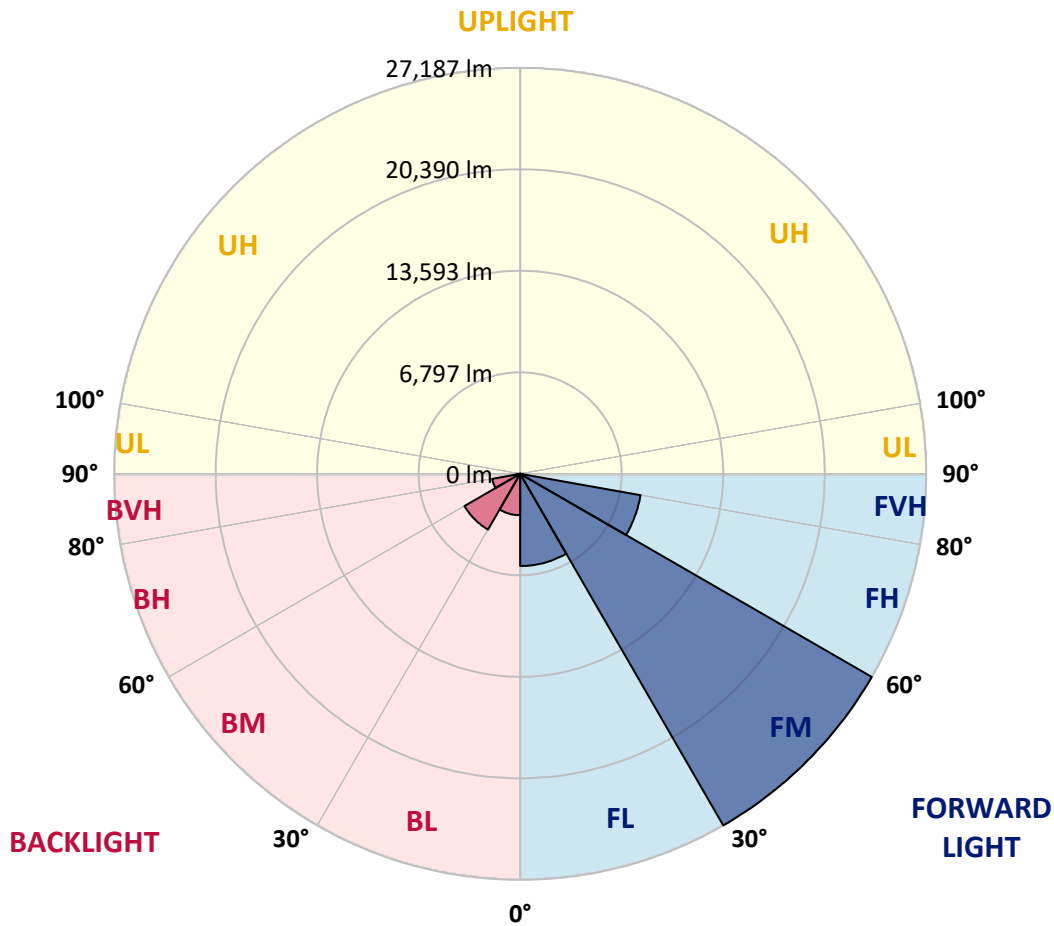
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6173.8	12.1			
FM (30°-60°)	27186.5	53.4			
FH (60°-80°)	8189.4	16.1			G4/12000
FVH (80°-90°)	172.1	0.3			G2/225
BL (0°-30°)	2770.4	5.4	B4/5000		
BM (30°-60°)	4308.0	8.5	B3/5000		
BH (60°-80°)	1903.6	3.7	B3/2500		G3/2500
BVH (80°-90°)	235.2	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°	12763.7	12763.7	12763.7	12763.7	12763.7	12763.7	12763.7	12763.7	12763.7	12763.7
2.5°	14643.8	14633.3	14691.2	14493.7	14359.4	14177.7	13938.1	13632.7	13303.5	12955.9
5°	15963.1	15871.0	15931.5	15784.1	15636.6	15362.7	15007.2	14509.5	13901.3	13208.7
7.5°	15755.1	15691.9	15847.3	15978.9	16089.5	16055.3	15794.6	15273.2	14488.5	13482.6
10°	14077.7	14006.6	14225.1	14680.7	15349.6	15931.5	16247.5	15923.6	15088.9	13782.8
12.5°	12597.8	12563.5	12708.4	13077.0	13819.6	14936.1	16189.6	16492.4	15713.0	14138.2
15°	11965.8	11923.6	12015.8	12202.8	12676.8	13716.9	15662.9	16882.2	16326.5	14549.0
17.5°	11826.2	11778.8	11818.3	11915.7	12221.2	13013.8	14867.7	17074.4	16966.4	15007.2
20°	12084.3	12044.8	12050.0	12044.8	12258.1	12887.4	14314.7	17000.7	17524.7	15428.6
22.5°	12708.4	12642.5	12645.2	12505.6	12621.5	13108.6	14169.8	16803.2	18022.4	15797.2
25°	13724.8	13606.3	13630.0	13274.5	13242.9	13603.7	14396.3	16650.4	18517.4	16092.2
27.5°	15115.2	14980.9	14909.8	14380.5	14127.7	14306.8	14857.1	16703.1	18986.2	16347.6
30°	16853.2	16689.9	16545.1	15794.6	15336.4	15270.6	15573.4	17050.7	19539.2	16616.2
32.5°	18983.5	18793.9	18530.6	17535.2	16890.1	16545.1	16500.3	17669.5	20187.0	16958.5
35°	21519.4	21271.9	20898.0	19610.3	18793.9	18088.2	17722.2	18562.2	21074.4	17474.7
37.5°	24131.7	23852.5	23510.2	21977.6	20974.3	19934.2	19212.6	19773.5	22256.7	18175.1
40°	26541.1	26227.8	25909.2	24545.1	23468.1	22214.6	21037.5	21306.1	23702.4	19012.5
42.5°	27963.1	27731.4	27610.3	26872.9	26040.8	24768.9	23307.4	23123.1	25327.2	19976.3
45°	27899.9	27805.1	28179.1	28484.5	28287.0	27581.3	25967.1	25132.3	26957.2	20811.1
47.5°	26409.5	26472.7	27307.4	29024.4	29780.1	30148.8	28995.4	27104.7	28373.9	21435.2
50°	22354.2	22406.8	24339.7	28042.1	30164.6	32242.3	32000.0	29029.6	29472.0	21817.0
52.5°	19144.2	19178.4	20007.9	25129.7	28895.3	33295.6	34707.0	30844.0	30275.2	21922.3
55°	14420.0	14538.5	15468.1	19715.6	25593.2	32460.8	36355.5	32713.6	30783.4	21932.8
57.5°	8424.0	8553.0	9701.1	13382.5	19892.0	29551.0	36605.7	34372.6	31128.4	21848.6
60°	4126.4	4181.7	4682.0	7033.6	12266.0	23944.7	34593.8	35175.8	31320.6	21803.8
62.5°	2780.8	2772.9	2793.9	3470.7	6043.4	15383.8	30401.6	33769.6	31217.9	21632.7
65°	2391.0	2362.1	2283.1	2435.8	3131.0	7036.2	23489.1	29572.1	30435.8	21203.4
67.5°	2067.1	2069.8	2072.4	2025.0	2235.7	3246.9	14354.2	23294.3	27628.7	19170.5
70°	1711.7	1735.4	1745.9	1745.9	1822.3	2130.3	6127.7	15965.8	21793.3	15030.9
72.5°	1558.9	1508.9	1514.2	1487.8	1487.8	1622.1	2467.4	9050.7	13730.1	8455.6
75°	1271.9	1303.5	1308.8	1290.3	1229.8	1237.7	1464.1	3797.2	5874.9	3507.6
77.5°	1098.1	1098.1	1108.6	1095.5	1048.1	926.9	977.0	1472.0	1998.7	1437.8
80°	882.2	879.5	924.3	950.6	876.9	684.7	624.1	813.7	887.4	632.0
82.5°	429.2	455.6	634.6	724.2	666.2	495.1	381.8	505.6	474.0	279.1
85°	250.2	237.0	284.4	402.9	381.8	273.9	184.3	263.3	247.5	142.2
87.5°	79.0	73.7	57.9	136.9	110.6	76.4	50.0	76.4	68.5	31.6
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°
12763.7	0°	12763.7	12763.7	12763.7	12763.7	12763.7	12763.7	12763.7	12763.7	12763.7	12763.7
12805.8	2.5°	12618.8	12308.1	12000.0	11718.2	11547.1	11436.5	11325.9	11202.1	11154.7	11083.6
12840.0	5°	12492.4	11892.0	11357.5	10896.6	10477.9	10148.8	9817.0	9548.4	9427.3	9508.9
12948.0	7.5°	12418.7	11549.7	10725.5	9880.2	9066.5	8416.1	7849.9	7452.3	7273.2	7318.0
13053.3	10°	12352.9	11162.6	9906.5	8571.4	7402.2	6596.4	6017.1	5714.3	5601.1	5624.8
13195.5	12.5°	12292.3	10728.1	8919.0	7162.6	5919.7	5387.8	5221.9	5224.5	5245.6	5261.4
13422.0	15°	12281.8	10204.1	7815.7	5930.2	5119.2	5084.9	5264.0	5377.2	5437.8	5456.2
13611.6	17.5°	12266.0	9577.4	6691.2	5090.2	4924.3	5156.0	5321.9	5395.7	5443.1	5445.7
13795.9	20°	12202.8	8782.1	5653.7	4689.9	4882.2	5082.3	5185.0	5242.9	5282.4	5295.6
13935.5	22.5°	12007.9	7897.3	4845.3	4510.9	4713.6	4874.3	4995.4	5061.2	5084.9	5100.7
13961.8	25°	11657.7	6907.2	4287.0	4339.7	4479.3	4682.0	4779.5	4792.6	4784.7	4808.4
13896.0	27.5°	11199.5	5846.0	3939.4	4108.0	4287.0	4460.8	4513.5	4505.6	4489.8	4516.1
13782.8	30°	10646.5	4892.7	3718.2	3847.3	4092.2	4250.2	4297.6	4279.1	4247.5	4276.5
13724.8	32.5°	10061.9	4113.2	3536.5	3665.6	3931.5	4086.9	4134.3	4115.9	4092.2	4115.9
13790.7	35°	9516.8	3568.1	3368.0	3544.4	3805.1	3957.9	4018.4	4021.1	4021.1	4050.0
13964.4	37.5°	9016.5	3249.5	3228.4	3468.1	3718.2	3855.2	3942.1	3947.3	3834.1	3842.0
14259.4	40°	8553.0	3115.2	3165.2	3418.0	3634.0	3765.6	3770.9	3476.0	3267.9	3262.7
14596.4	42.5°	8173.8	3088.9	3183.7	3412.8	3573.4	3578.7	3207.4	2978.3	2920.3	2923.0
14907.2	45°	7818.3	3081.0	3225.8	3412.8	3483.9	3091.5	2841.3	2780.8	2786.0	2807.1
15046.7	47.5°	7420.7	3049.4	3233.7	3365.4	3225.8	2749.2	2675.4	2649.1	2638.6	2643.8
15015.1	50°	6986.2	2936.1	3133.6	3270.6	2783.4	2601.7	2509.5	2501.6	2514.8	2522.7
14838.7	52.5°	6528.0	2751.8	2962.5	3099.4	2580.6	2472.7	2370.0	2388.4	2446.3	2464.8
14654.4	55°	6227.8	2535.9	2736.0	2757.1	2438.4	2351.5	2264.6	2306.8	2414.7	2449.0
14543.8	57.5°	6148.8	2306.8	2477.9	2454.2	2256.7	2246.2	2193.5	2230.4	2367.3	2417.4
14538.5	60°	6125.1	2101.4	2225.1	2206.7	2080.3	2130.3	2117.2	2135.6	2183.0	2198.8
14485.8	62.5°	5940.8	1938.1	1998.7	1972.4	1922.3	2009.2	2040.8	2001.3	2038.2	2056.6
14125.1	65°	5472.0	1806.5	1777.5	1759.1	1780.1	1859.1	1922.3	1843.3	1877.6	1930.2
12734.7	67.5°	4697.8	1627.4	1548.4	1569.5	1635.3	1677.4	1759.1	1669.5	1698.5	1788.0
10256.7	70°	3799.9	1400.9	1329.8	1390.4	1453.6	1540.5	1553.7	1493.1	1561.6	1661.6
6259.4	72.5°	2688.6	1171.8	1121.8	1245.6	1266.6	1379.9	1350.9	1321.9	1416.7	1451.0
3094.1	75°	1864.4	945.4	916.4	1011.2	1087.6	1185.0	1163.9	1198.2	1398.3	1414.1
1545.8	77.5°	1179.7	734.7	716.3	776.8	882.2	990.1	1024.4	1414.1	2388.4	2483.2
803.2	80°	684.7	547.7	526.7	574.1	666.2	766.3	987.5	1735.4	1574.7	1556.3
360.8	82.5°	381.8	376.6	350.2	363.4	445.0	553.0	1395.7	1221.9	992.8	1024.4
144.8	85°	179.1	221.2	189.6	181.7	250.2	647.8	932.2	697.8	463.5	452.9
31.6	87.5°	47.4	42.1	42.1	47.4	105.3	558.3	371.3	297.6	176.4	171.2
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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