

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: P950356

Luminaire Tested: **GALN-SB4D-830-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950356
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-SB4D-830-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37270 lumens
Efficiency: N/A
Efficacy: 126.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

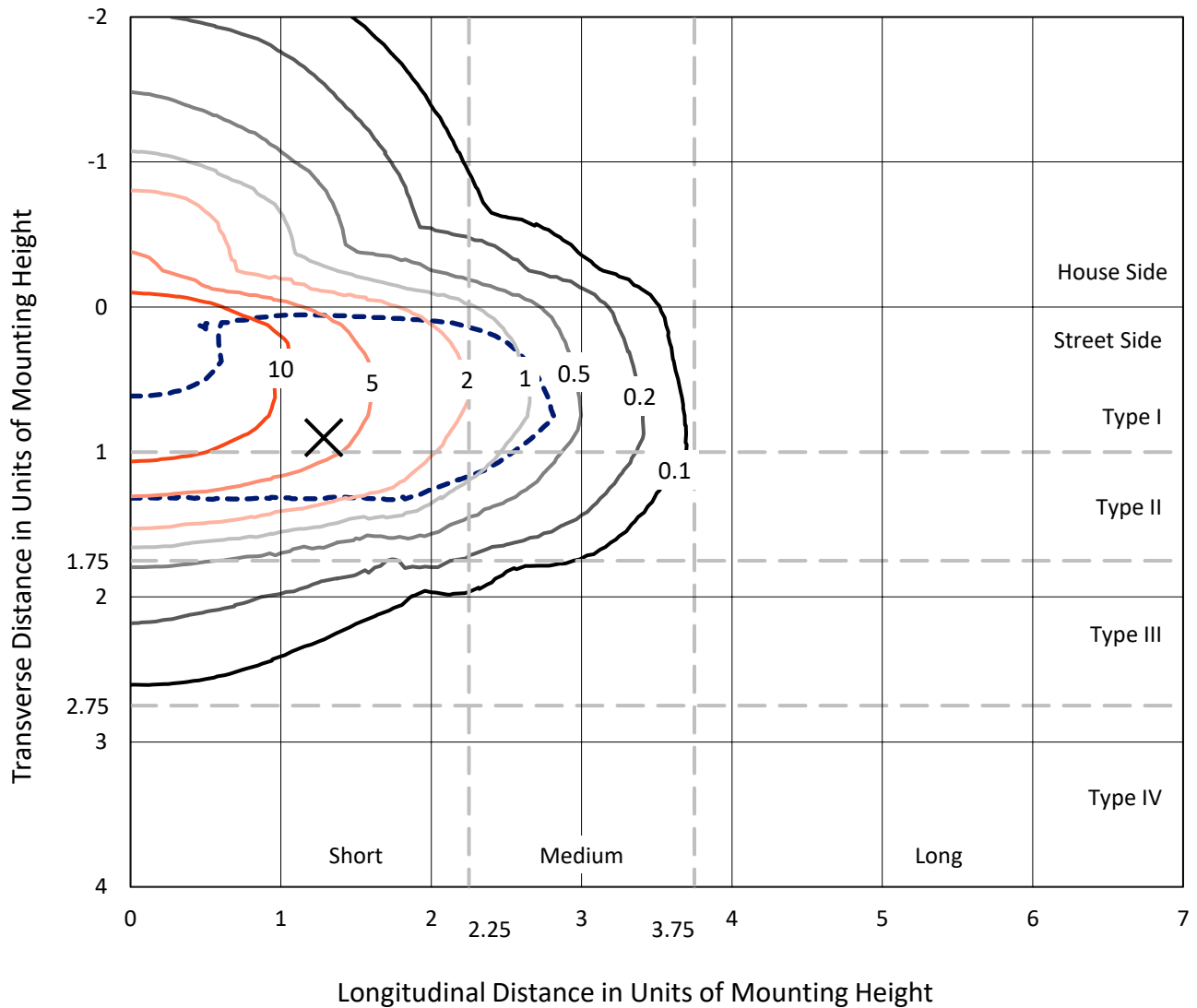
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

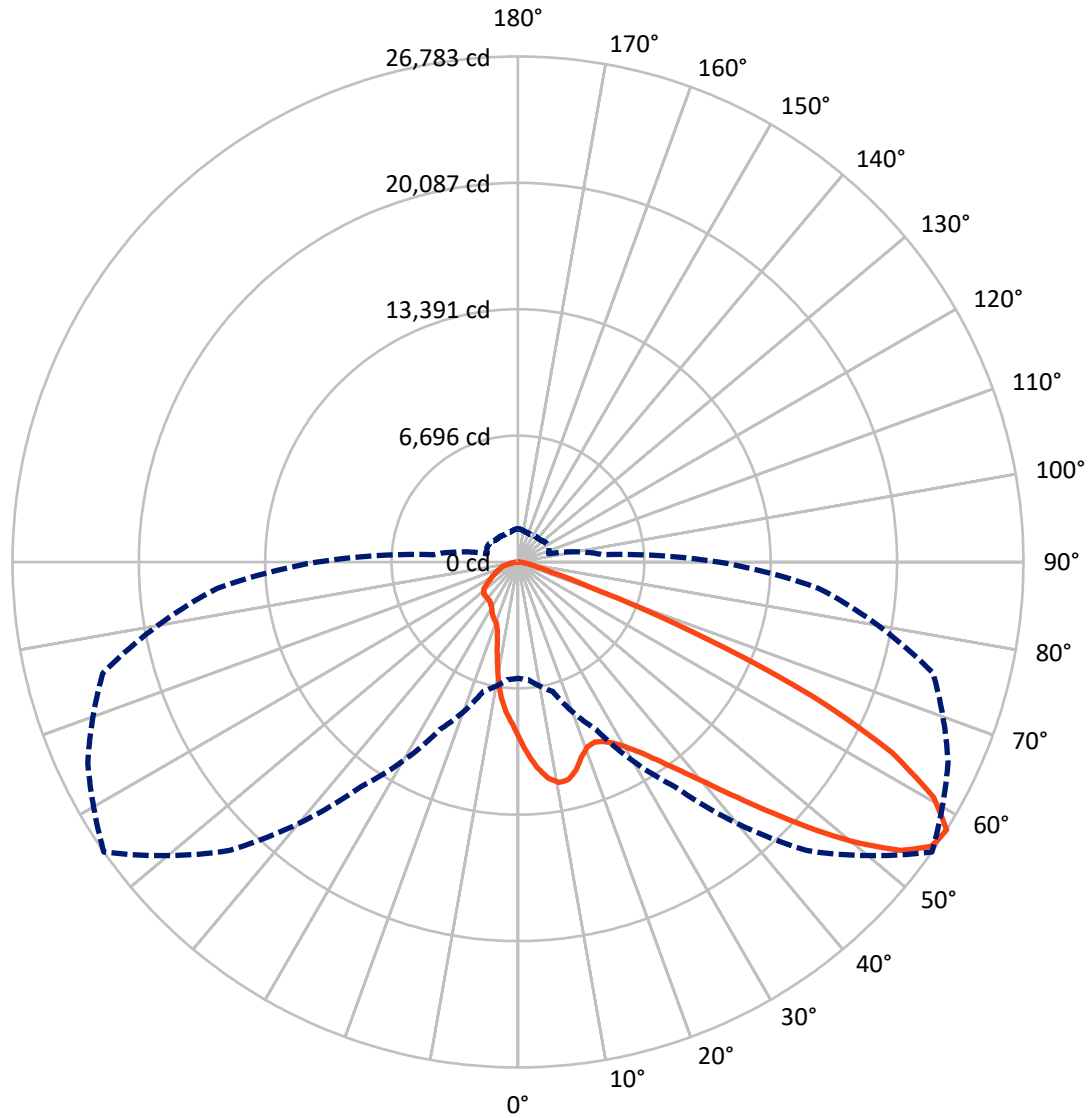
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.1 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	6743.8	0.0	6743.8
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	30526.2	0.0	30526.2
	% Fixture	81.9	0.0	81.9
Total	Lumens	37270.0	0.0	37270.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	866.6	2.3
10°-20°	2187.3	5.9
20°-30°	3490.3	9.4
30°-40°	5525.9	14.8
40°-50°	8458.0	22.7
50°-60°	9059.3	24.3
60°-70°	5699.3	15.3
70°-80°	1685.4	4.5
80°-90°	298.0	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°	37270.0	100.0
0°-180°	37270.0	100.0

Coefficient of Utilization



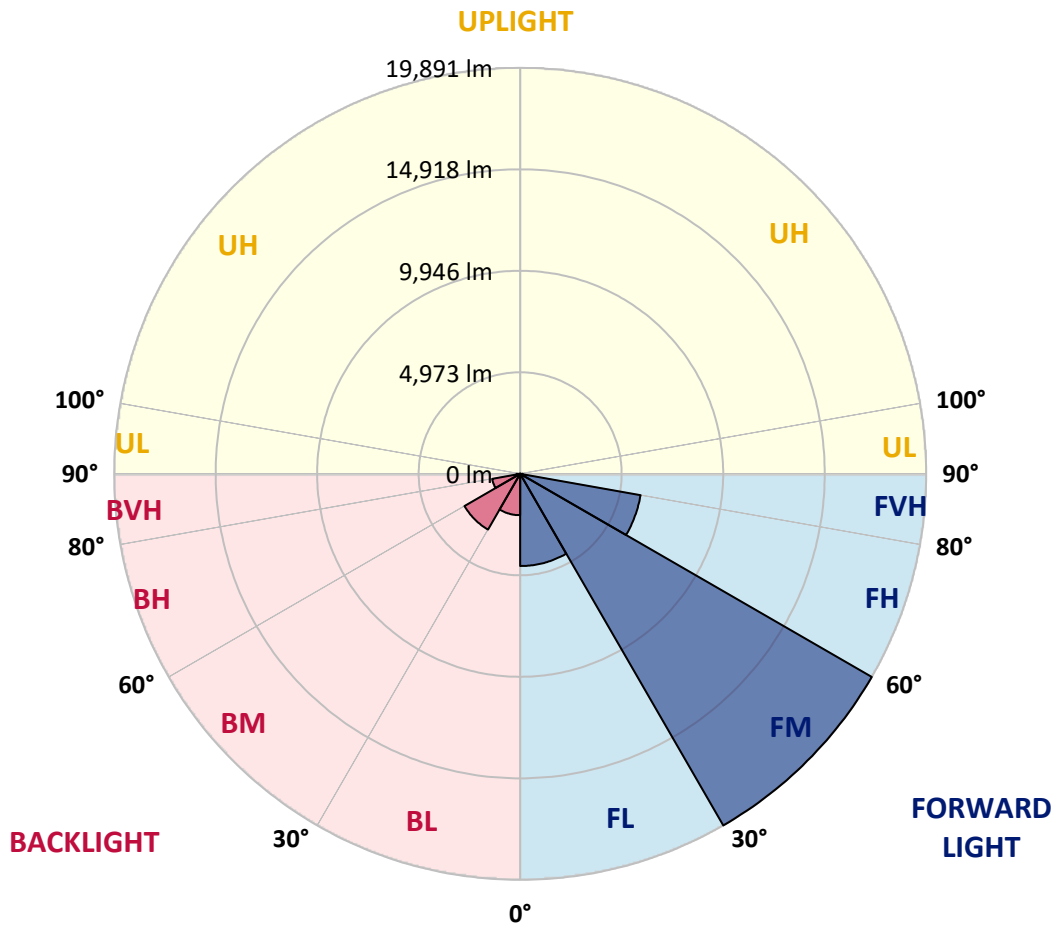
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4517.1	12.1			
FM (30°-60°)	19891.3	53.4			
FH (60°-80°)	5991.9	16.1			G3/7500
FVH (80°-90°)	125.9	0.3			G2/225
BL (0°-30°)	2027.0	5.4	B3/2500		
BM (30°-60°)	3152.0	8.5	B3/5000		
BH (60°-80°)	1392.8	3.7	B3/2500		G3/2500
BVH (80°-90°)	172.1	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°	9338.7	9338.7	9338.7	9338.7	9338.7	9338.7	9338.7	9338.7	9338.7	9338.7
2.5°	10714.3	10706.6	10749.0	10604.5	10506.2	10373.3	10198.0	9974.5	9733.6	9479.3
5°	11679.6	11612.1	11656.5	11548.6	11440.7	11240.3	10980.2	10616.0	10171.0	9664.3
7.5°	11527.4	11481.1	11594.8	11691.1	11772.1	11747.0	11556.3	11174.8	10600.6	9864.6
10°	10300.1	10248.0	10408.0	10741.3	11230.7	11656.5	11887.7	11650.7	11039.9	10084.3
12.5°	9217.3	9192.2	9298.2	9567.9	10111.3	10928.2	11845.3	12066.8	11496.5	10344.4
15°	8754.9	8724.0	8791.5	8928.3	9275.1	10036.1	11459.9	12352.0	11945.5	10644.9
17.5°	8652.8	8618.1	8647.0	8718.3	8941.8	9521.7	10878.1	12492.6	12413.6	10980.2
20°	8841.6	8812.7	8816.5	8812.7	8968.7	9429.2	10473.5	12438.7	12822.1	11288.5
22.5°	9298.2	9250.0	9252.0	9149.8	9234.6	9591.0	10367.5	12294.2	13186.2	11558.2
25°	10041.9	9955.2	9972.5	9712.4	9689.3	9953.3	10533.2	12182.4	13548.5	11774.0
27.5°	11059.2	10960.9	10908.9	10521.6	10336.7	10467.7	10870.4	12221.0	13891.4	11960.9
30°	12330.8	12211.3	12105.4	11556.3	11221.0	11172.9	11394.4	12475.3	14296.0	12157.4
32.5°	13889.5	13750.8	13558.1	12829.8	12357.8	12105.4	12072.6	12928.1	14770.0	12407.9
35°	15744.9	15563.8	15290.2	14348.0	13750.8	13234.4	12966.6	13581.2	15419.3	12785.5
37.5°	17656.2	17451.9	17201.5	16080.1	15346.1	14585.0	14057.1	14467.5	16284.4	13298.0
40°	19419.1	19189.8	18956.7	17958.7	17170.6	16253.5	15392.3	15588.8	17342.1	13910.7
42.5°	20459.5	20289.9	20201.3	19661.8	19053.0	18122.4	17053.1	16918.2	18530.9	14615.8
45°	20413.2	20343.9	20617.5	20841.0	20696.5	20180.1	18999.1	18388.3	19723.5	15226.6
47.5°	19322.7	19369.0	19979.7	21235.9	21788.9	22058.6	21214.8	19831.4	20760.1	15683.2
50°	16355.6	16394.2	17808.4	20517.3	22070.2	23590.4	23413.1	21239.8	21563.5	15962.6
52.5°	14007.0	14032.1	14639.0	18386.4	21141.5	24361.0	25393.7	22567.3	22151.1	16039.7
55°	10550.5	10637.2	11317.4	14425.1	18725.5	23750.3	26599.8	23935.2	22523.0	16047.4
57.5°	6163.5	6257.9	7097.9	9791.4	14554.2	21621.3	26782.9	25149.0	22775.4	15985.7
60°	3019.1	3059.6	3425.6	5146.2	8974.5	17519.4	25310.9	25736.7	22916.0	15953.0
62.5°	2034.6	2028.8	2044.2	2539.4	4421.7	11255.7	22243.6	24707.8	22840.9	15827.7
65°	1749.4	1728.2	1670.4	1782.2	2290.8	5148.1	17186.0	21636.7	22268.6	15513.7
67.5°	1512.4	1514.4	1516.3	1481.6	1635.8	2375.6	10502.4	17043.5	20214.8	14026.3
70°	1252.3	1269.7	1277.4	1277.4	1333.3	1558.7	4483.4	11681.5	15945.3	10997.5
72.5°	1140.6	1104.0	1107.8	1088.6	1088.6	1186.8	1805.3	6622.0	10045.7	6186.6
75°	930.6	953.7	957.6	944.1	899.8	905.5	1071.2	2778.3	4298.4	2566.3
77.5°	803.4	803.4	811.1	801.5	766.8	678.2	714.8	1077.0	1462.4	1052.0
80°	645.4	643.5	676.3	695.5	641.6	500.9	456.6	595.3	649.3	462.4
82.5°	314.0	333.3	464.3	529.8	487.5	362.2	279.4	369.9	346.8	204.2
85°	183.0	173.4	208.1	294.8	279.4	200.4	134.9	192.7	181.1	104.0
87.5°	57.8	53.9	42.4	100.2	80.9	55.9	36.6	55.9	50.1	23.1
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°
9338.7	0°	9338.7	9338.7	9338.7	9338.7	9338.7	9338.7	9338.7	9338.7	9338.7	9338.7
9369.5	2.5°	9232.7	9005.3	8779.9	8573.8	8448.5	8367.6	8286.7	8196.1	8161.4	8109.4
9394.5	5°	9140.2	8700.9	8309.8	7972.6	7666.3	7425.5	7182.7	6986.2	6897.5	6957.3
9473.5	7.5°	9086.3	8450.4	7847.4	7228.9	6633.6	6157.7	5743.5	5452.5	5321.5	5354.3
9550.6	10°	9038.1	8167.2	7248.2	6271.4	5415.9	4826.4	4402.5	4180.9	4098.1	4115.4
9654.6	12.5°	8993.8	7849.3	6525.7	5240.6	4331.2	3942.0	3820.6	3822.5	3838.0	3849.5
9820.3	15°	8986.1	7465.9	5718.4	4338.9	3745.5	3720.4	3851.4	3934.3	3978.6	3992.1
9959.0	17.5°	8974.5	7007.4	4895.7	3724.3	3602.9	3772.5	3893.8	3947.8	3982.5	3984.4
10093.9	20°	8928.3	6425.5	4136.6	3431.4	3572.1	3718.5	3793.6	3836.0	3864.9	3874.6
10196.0	22.5°	8785.7	5778.1	3545.1	3300.4	3448.8	3566.3	3654.9	3703.1	3720.4	3732.0
10215.3	25°	8529.4	5053.7	3136.6	3175.2	3277.3	3425.6	3496.9	3506.6	3500.8	3518.1
10167.1	27.5°	8194.2	4277.2	2882.3	3005.6	3136.6	3263.8	3302.3	3296.6	3285.0	3304.3
10084.3	30°	7789.6	3579.8	2720.5	2814.9	2994.1	3109.7	3144.4	3130.9	3107.7	3128.9
10041.9	32.5°	7361.9	3009.5	2587.5	2681.9	2876.5	2990.2	3024.9	3011.4	2994.1	3011.4
10090.1	35°	6963.0	2610.7	2464.2	2593.3	2784.1	2895.8	2940.1	2942.1	2942.1	2963.2
10217.2	37.5°	6597.0	2377.5	2362.1	2537.4	2720.5	2820.7	2884.3	2888.1	2805.3	2811.0
10433.0	40°	6257.9	2279.3	2315.9	2500.8	2658.8	2755.2	2759.0	2543.2	2391.0	2387.2
10679.6	42.5°	5980.4	2260.0	2329.4	2497.0	2614.5	2618.4	2346.7	2179.1	2136.7	2138.6
10907.0	45°	5720.3	2254.2	2360.2	2497.0	2549.0	2261.9	2078.9	2034.6	2038.4	2053.8
11009.1	47.5°	5429.4	2231.1	2366.0	2462.3	2360.2	2011.5	1957.5	1938.2	1930.5	1934.4
10986.0	50°	5111.5	2148.3	2292.8	2392.9	2036.5	1903.6	1836.1	1830.4	1840.0	1845.8
10856.9	52.5°	4776.3	2013.4	2167.5	2267.7	1888.2	1809.2	1734.0	1747.5	1789.9	1803.4
10722.0	55°	4556.6	1855.4	2001.8	2017.2	1784.1	1720.5	1657.0	1687.8	1766.8	1791.8
10641.1	57.5°	4498.8	1687.8	1813.0	1795.7	1651.2	1643.5	1604.9	1631.9	1732.1	1768.7
10637.2	60°	4481.5	1537.5	1628.1	1614.6	1522.1	1558.7	1549.1	1562.5	1597.2	1608.8
10598.7	62.5°	4346.6	1418.0	1462.4	1443.1	1406.5	1470.1	1493.2	1464.3	1491.3	1504.7
10334.7	65°	4003.7	1321.7	1300.5	1287.0	1302.4	1360.2	1406.5	1348.7	1373.7	1412.3
9317.5	67.5°	3437.2	1190.7	1132.9	1148.3	1196.5	1227.3	1287.0	1221.5	1242.7	1308.2
7504.4	70°	2780.2	1025.0	973.0	1017.3	1063.5	1127.1	1136.7	1092.4	1142.5	1215.7
4579.7	72.5°	1967.1	857.4	820.8	911.3	926.7	1009.6	988.4	967.2	1036.6	1061.6
2263.9	75°	1364.1	691.7	670.5	739.8	795.7	867.0	851.6	876.6	1023.1	1034.6
1131.0	77.5°	863.2	537.5	524.1	568.4	645.4	724.4	749.5	1034.6	1747.5	1816.9
587.6	80°	500.9	400.8	385.3	420.0	487.5	560.7	722.5	1269.7	1152.2	1138.7
264.0	82.5°	279.4	275.5	256.2	265.9	325.6	404.6	1021.1	894.0	726.4	749.5
106.0	85°	131.0	161.8	138.7	132.9	183.0	474.0	682.0	510.6	339.1	331.4
23.1	87.5°	34.7	30.8	30.8	34.7	77.1	408.5	271.7	217.7	129.1	125.2
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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