

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: P950503

Luminaire Tested: **GALN-SB4D-940-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950503
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-940-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30056 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

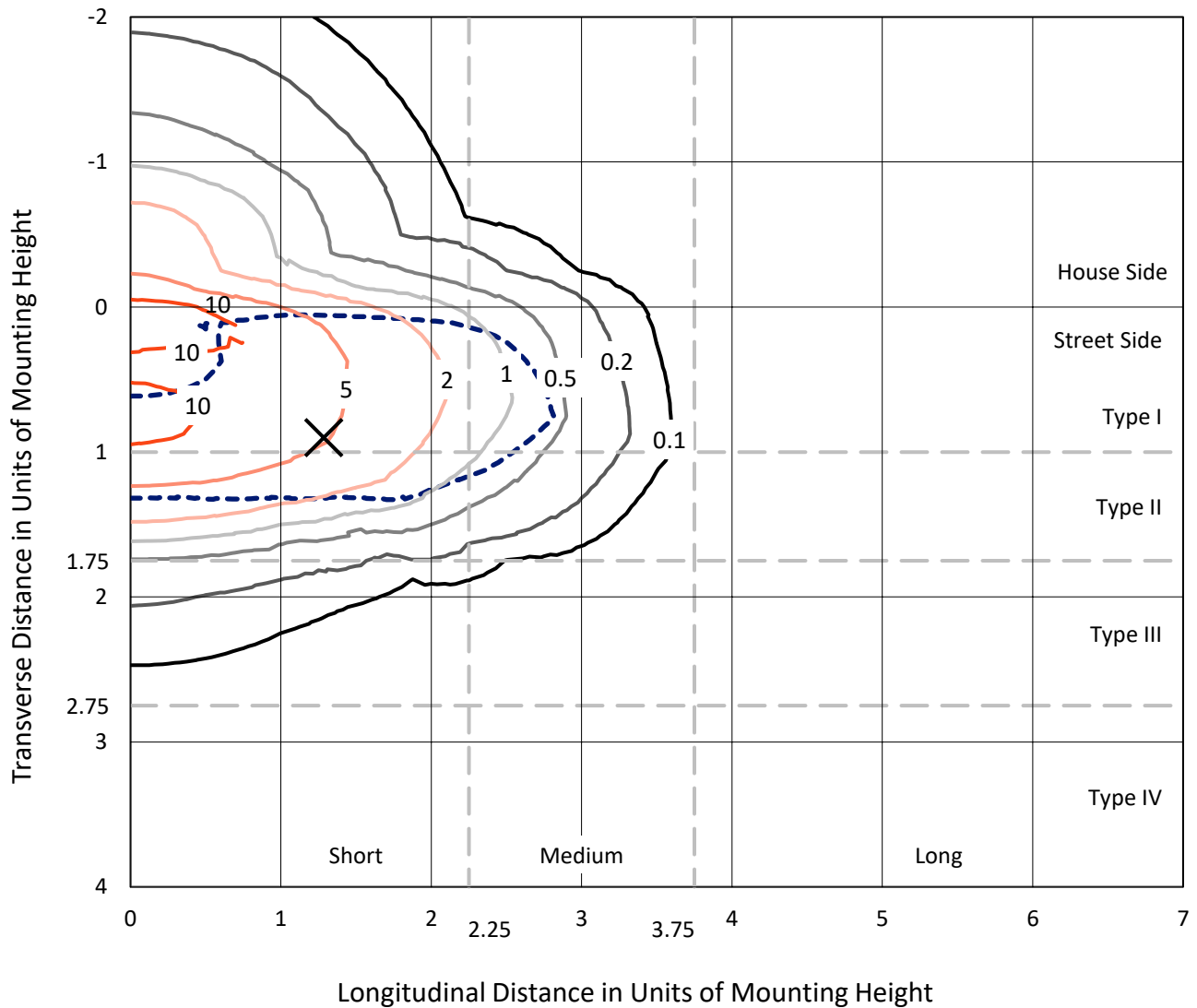
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

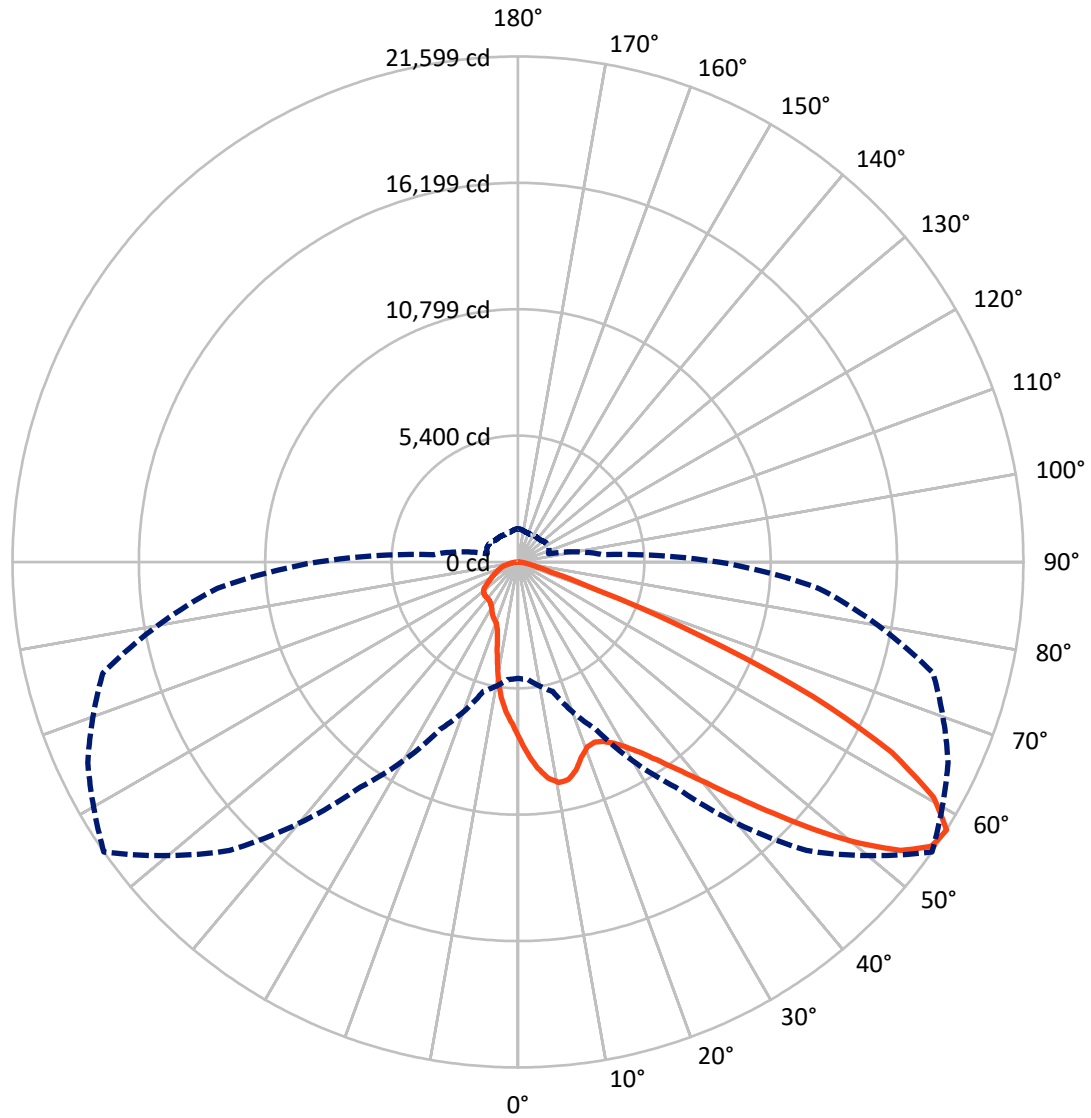
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 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	5438.5	0.0	5438.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	24617.5	0.0	24617.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	30056.0	0.0	30056.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	698.8	2.3
10°-20°	1763.9	5.9
20°-30°	2814.7	9.4
30°-40°	4456.3	14.8
40°-50°	6820.9	22.7
50°-60°	7305.8	24.3
60°-70°	4596.1	15.3
70°-80°	1359.2	4.5
80°-90°	240.3	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°	30056.0	100.0
0°-180°	30056.0	100.0

Coefficient of Utilization



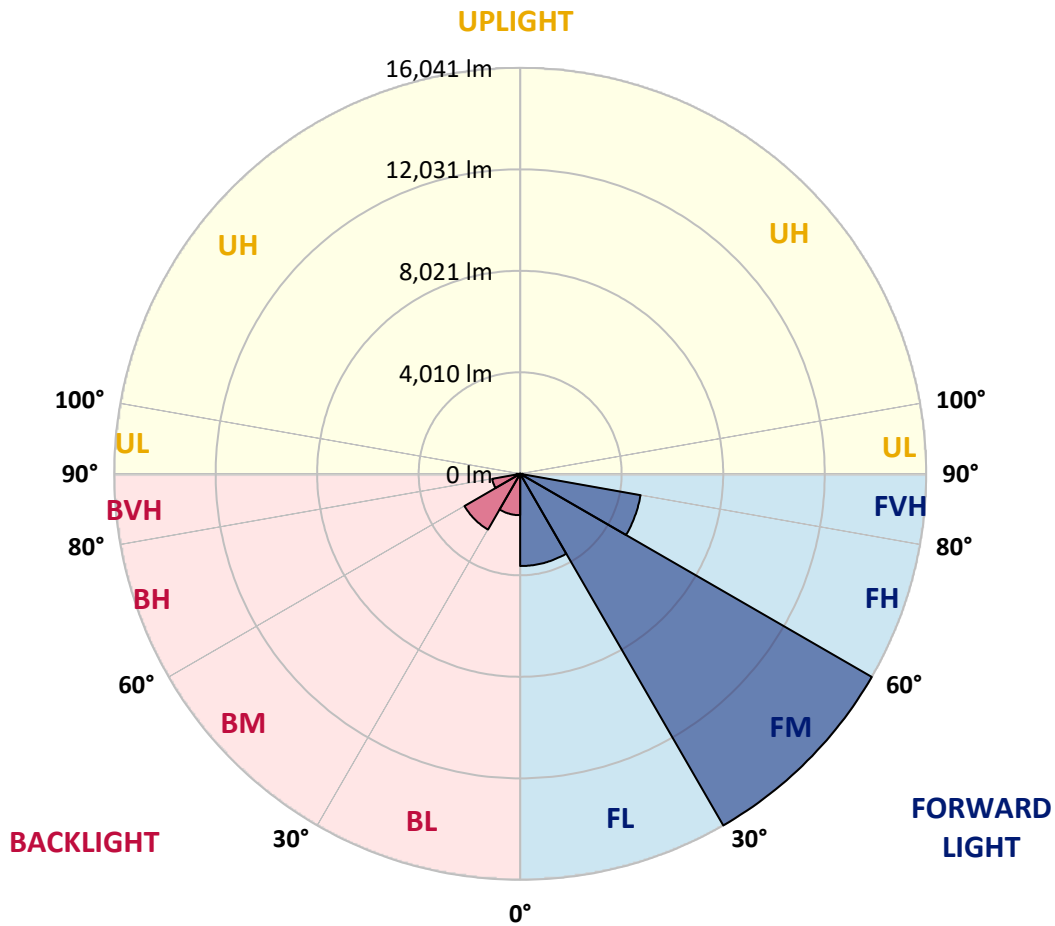
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3642.8	12.1			
FM (30°-60°)	16041.1	53.4			
FH (60°-80°)	4832.1	16.1			G2/5000
FVH (80°-90°)	101.5	0.3			G2/225
BL (0°-30°)	1634.6	5.4	B3/2500		
BM (30°-60°)	2541.9	8.5	B3/5000		
BH (60°-80°)	1123.2	3.7	B3/2500		G3/2500
BVH (80°-90°)	138.8	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°	7531.1	7531.1	7531.1	7531.1	7531.1	7531.1	7531.1	7531.1	7531.1	7531.1
2.5°	8640.4	8634.2	8668.4	8551.9	8472.6	8365.4	8224.0	8043.8	7849.6	7644.5
5°	9418.9	9364.5	9400.2	9313.2	9226.2	9064.6	8854.9	8561.2	8202.3	7793.6
7.5°	9296.1	9258.8	9350.5	9428.2	9493.5	9473.3	9319.4	9011.8	8548.8	7955.2
10°	8306.4	8264.4	8393.4	8662.2	9056.8	9400.2	9586.7	9395.6	8903.0	8132.4
12.5°	7433.2	7413.0	7498.4	7716.0	8154.1	8812.9	9552.5	9731.2	9271.3	8342.1
15°	7060.3	7035.4	7089.8	7200.1	7479.8	8093.5	9241.7	9961.1	9633.3	8584.5
17.5°	6977.9	6950.0	6973.3	7030.7	7211.0	7678.7	8772.5	10074.6	10010.9	8854.9
20°	7130.2	7106.9	7110.0	7106.9	7232.7	7604.1	8446.2	10031.1	10340.2	9103.5
22.5°	7498.4	7459.6	7461.1	7378.8	7447.2	7734.6	8360.8	9914.5	10633.9	9321.0
25°	8098.2	8028.3	8042.2	7832.5	7813.8	8026.7	8494.4	9824.4	10926.0	9495.0
27.5°	8918.6	8839.3	8797.4	8485.1	8335.9	8441.6	8766.3	9855.5	11202.6	9645.7
30°	9944.0	9847.7	9762.3	9319.4	9049.1	9010.2	9188.9	10060.6	11528.9	9804.2
32.5°	11201.0	11089.2	10933.8	10346.5	9965.8	9762.3	9735.8	10425.7	11911.1	10006.2
35°	12697.3	12551.2	12330.6	11570.8	11089.2	10672.8	10456.8	10952.4	12434.7	10310.7
37.5°	14238.6	14073.9	13871.9	12967.7	12375.7	11761.9	11336.2	11667.2	13132.4	10724.0
40°	15660.3	15475.4	15287.4	14482.6	13847.1	13107.5	12413.0	12571.4	13985.4	11218.1
42.5°	16499.3	16362.6	16291.1	15856.1	15365.1	14614.6	13752.3	13643.5	14944.0	11786.8
45°	16462.1	16406.1	16626.7	16807.0	16690.5	16274.0	15321.6	14829.1	15905.8	12279.3
47.5°	15582.6	15619.9	16112.5	17125.5	17571.4	17789.0	17108.4	15992.8	16741.7	12647.6
50°	13189.8	13220.9	14361.4	16546.0	17798.3	19024.2	18881.2	17128.6	17389.6	12872.9
52.5°	11295.8	11316.0	11805.4	14827.5	17049.4	19645.7	20478.5	18199.2	17863.5	12935.0
55°	8508.4	8578.3	9126.8	11633.0	15101.0	19153.2	21451.2	19302.3	18163.4	12941.2
57.5°	4970.5	5046.6	5724.0	7896.2	11737.1	17436.3	21598.8	20281.2	18367.0	12891.5
60°	2434.7	2467.4	2762.6	4150.1	7237.4	14128.3	20411.7	20755.1	18480.4	12865.1
62.5°	1640.8	1636.1	1648.5	2047.9	3565.9	9077.0	17938.1	19925.4	18419.8	12764.1
65°	1410.8	1393.7	1347.1	1437.2	1847.4	4151.6	13859.5	17448.7	17958.3	12510.8
67.5°	1219.7	1221.3	1222.8	1194.8	1319.1	1915.8	8469.5	13744.5	16302.0	11311.3
70°	1009.9	1023.9	1030.1	1030.1	1075.2	1257.0	3615.6	9420.4	12858.9	8868.8
72.5°	919.8	890.3	893.4	877.9	877.9	957.1	1455.9	5340.3	8101.3	4989.1
75°	750.5	769.1	772.2	761.3	725.6	730.3	863.9	2240.5	3466.4	2069.6
77.5°	647.9	647.9	654.1	646.4	618.4	546.9	576.4	868.5	1179.3	848.4
80°	520.5	519.0	545.4	560.9	517.4	404.0	368.2	480.1	523.6	372.9
82.5°	253.3	268.8	374.5	427.3	393.1	292.1	225.3	298.3	279.7	164.7
85°	147.6	139.8	167.8	237.7	225.3	161.6	108.8	155.4	146.1	83.9
87.5°	46.6	43.5	34.2	80.8	65.3	45.1	29.5	45.1	40.4	18.6
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°
7531.1	0°	7531.1	7531.1	7531.1	7531.1	7531.1	7531.1	7531.1	7531.1	7531.1	7531.1
7555.9	2.5°	7445.6	7262.3	7080.5	6914.2	6813.2	6748.0	6682.7	6609.7	6581.7	6539.8
7576.1	5°	7371.0	7016.8	6701.4	6429.4	6182.4	5988.2	5792.4	5633.9	5562.4	5610.6
7639.8	7.5°	7327.5	6814.8	6328.5	5829.7	5349.6	4965.8	4631.7	4397.1	4291.5	4317.9
7702.0	10°	7288.7	6586.4	5845.2	5057.5	4367.6	3892.2	3550.3	3371.7	3304.8	3318.8
7785.9	12.5°	7252.9	6330.0	5262.6	4226.2	3492.8	3179.0	3081.1	3082.7	3095.1	3104.4
7919.5	15°	7246.7	6020.8	4611.5	3499.1	3020.5	3000.3	3106.0	3172.8	3208.5	3219.4
8031.4	17.5°	7237.4	5651.0	3948.1	3003.4	2905.5	3042.3	3140.1	3183.6	3211.6	3213.2
8140.1	20°	7200.1	5181.8	3335.9	2767.2	2880.7	2998.8	3059.3	3093.5	3116.8	3124.6
8222.5	22.5°	7085.1	4659.7	2858.9	2661.6	2781.2	2876.0	2947.5	2986.3	3000.3	3009.6
8238.0	25°	6878.5	4075.5	2529.5	2560.6	2642.9	2762.6	2820.1	2827.8	2823.2	2837.2
8199.2	27.5°	6608.1	3449.3	2324.4	2423.9	2529.5	2632.1	2663.1	2658.5	2649.2	2664.7
8132.4	30°	6281.8	2886.9	2193.9	2270.0	2414.5	2507.8	2535.7	2524.9	2506.2	2523.3
8098.2	32.5°	5936.9	2427.0	2086.7	2162.8	2319.8	2411.4	2439.4	2428.5	2414.5	2428.5
8137.0	35°	5615.3	2105.3	1987.3	2091.4	2245.2	2335.3	2371.0	2372.6	2372.6	2389.7
8239.6	37.5°	5320.1	1917.3	1904.9	2046.3	2193.9	2274.7	2326.0	2329.1	2262.3	2266.9
8413.6	40°	5046.6	1838.1	1867.6	2016.8	2144.2	2221.9	2225.0	2051.0	1928.2	1925.1
8612.5	42.5°	4822.9	1822.6	1878.5	2013.7	2108.4	2111.6	1892.5	1757.3	1723.1	1724.7
8795.8	45°	4613.1	1817.9	1903.4	2013.7	2055.6	1824.1	1676.5	1640.8	1643.9	1656.3
8878.2	47.5°	4378.5	1799.3	1908.0	1985.7	1903.4	1622.1	1578.6	1563.1	1556.9	1560.0
8859.5	50°	4122.1	1732.4	1849.0	1929.8	1642.3	1535.1	1480.7	1476.1	1483.8	1488.5
8755.4	52.5°	3851.8	1623.7	1748.0	1828.8	1522.7	1459.0	1398.4	1409.3	1443.4	1454.3
8646.7	55°	3674.6	1496.3	1614.4	1626.8	1438.8	1387.5	1336.2	1361.1	1424.8	1445.0
8581.4	57.5°	3628.0	1361.1	1462.1	1448.1	1331.6	1325.4	1294.3	1316.0	1396.8	1426.3
8578.3	60°	3614.0	1239.9	1312.9	1302.0	1227.5	1257.0	1249.2	1260.1	1288.1	1297.4
8547.2	62.5°	3505.3	1143.6	1179.3	1163.8	1134.2	1185.5	1204.2	1180.9	1202.6	1213.5
8334.4	65°	3228.7	1065.9	1048.8	1037.9	1050.3	1097.0	1134.2	1087.6	1107.8	1138.9
7514.0	67.5°	2771.9	960.2	913.6	926.0	964.9	989.7	1037.9	985.1	1002.2	1055.0
6051.9	70°	2242.1	826.6	784.6	820.4	857.7	908.9	916.7	881.0	921.4	980.4
3693.3	72.5°	1586.4	691.4	661.9	734.9	747.4	814.2	797.1	780.0	835.9	856.1
1825.7	75°	1100.1	557.8	540.7	596.6	641.7	699.2	686.8	707.0	825.0	834.4
912.1	77.5°	696.1	433.5	422.6	458.4	520.5	584.2	604.4	834.4	1409.3	1465.2
473.9	80°	404.0	323.2	310.8	338.7	393.1	452.1	582.7	1023.9	929.1	918.3
212.9	82.5°	225.3	222.2	206.6	214.4	262.6	326.3	823.5	720.9	585.8	604.4
85.5	85°	105.7	130.5	111.9	107.2	147.6	382.2	550.0	411.7	273.5	267.2
18.6	87.5°	28.0	24.9	24.9	28.0	62.2	329.4	219.1	175.6	104.1	101.0
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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