

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: P952498

Luminaire Tested: **GALN-SB6B-830-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952498
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-SB6B-830-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31205 lumens
Efficiency: N/A
Efficacy: 141.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

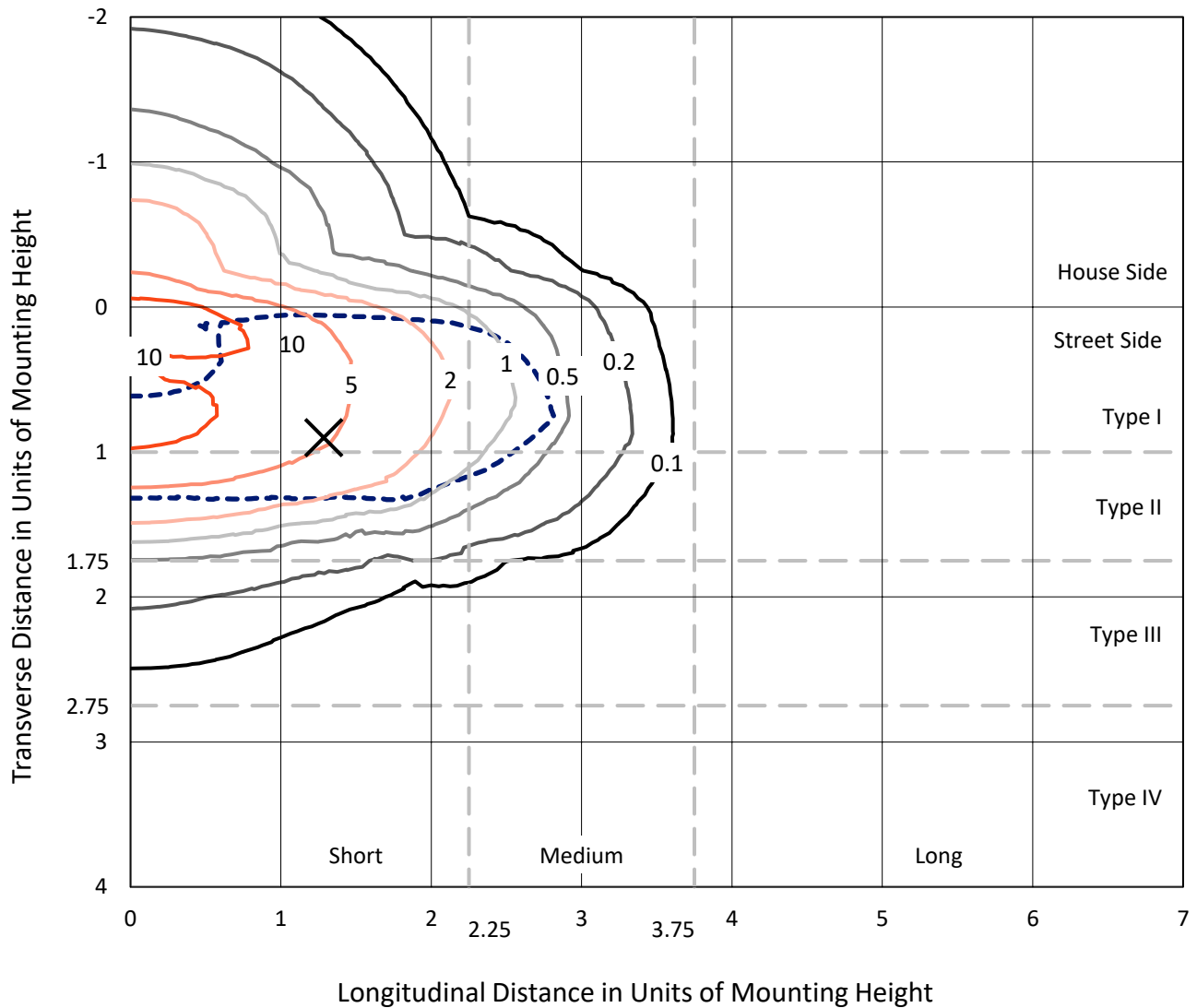
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P952498
 CATALOG NUMBER: GALN-SB6B-830-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

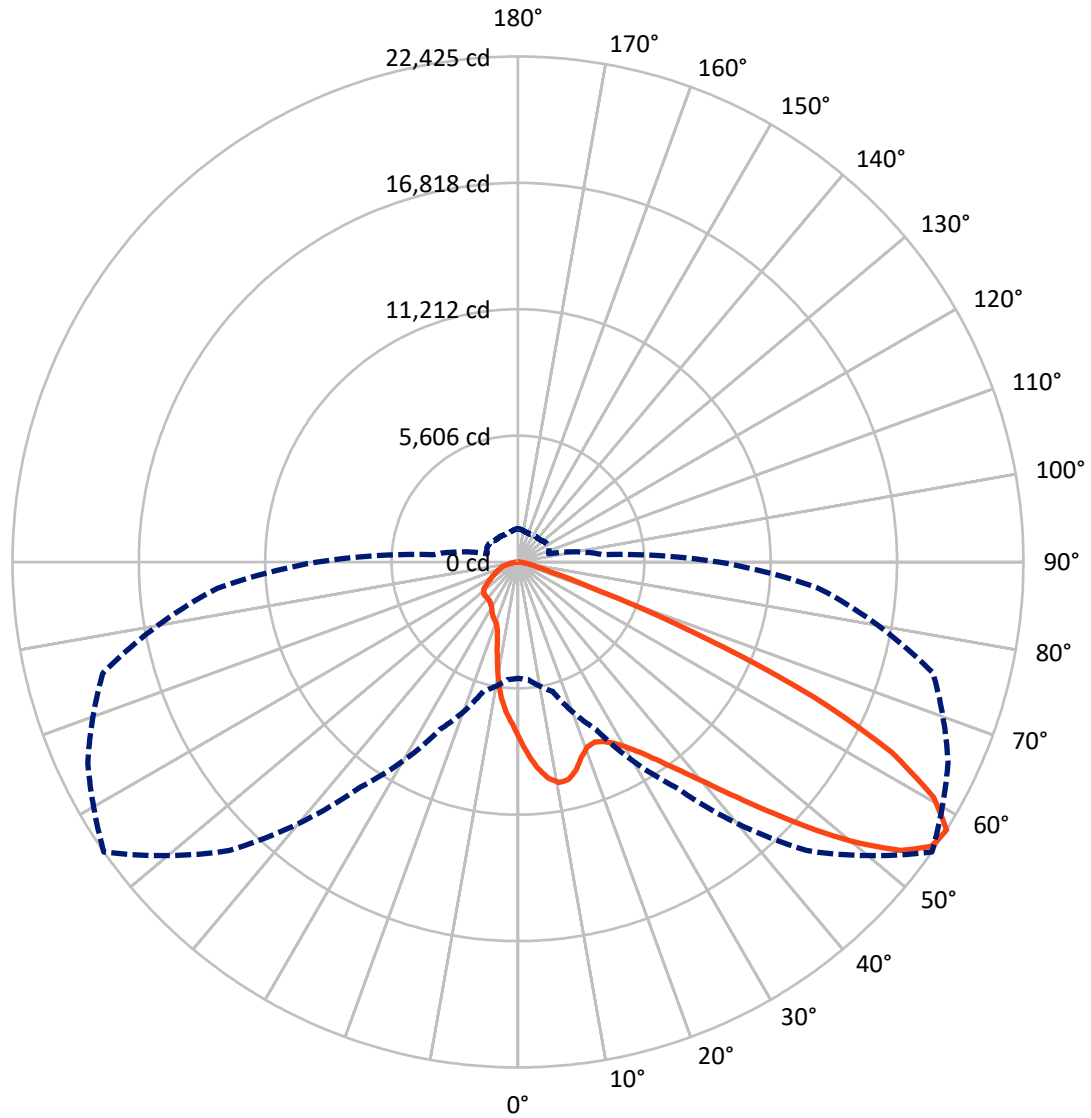
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 fc
 Type II - Short - N/A

REPORT NUMBER: P952498
CATALOG NUMBER: GALN-SB6B-830-U-AFL

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	5646.4	0.0	5646.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	25558.6	0.0	25558.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	31205.0	0.0	31205.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	725.5	2.3
10°-20°	1831.3	5.9
20°-30°	2922.3	9.4
30°-40°	4626.7	14.8
40°-50°	7081.6	22.7
50°-60°	7585.1	24.3
60°-70°	4771.8	15.3
70°-80°	1411.1	4.5
80°-90°	249.5	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°	31205.0	100.0
0°-180°	31205.0	100.0

Coefficient of Utilization



REPORT NUMBER: P952498

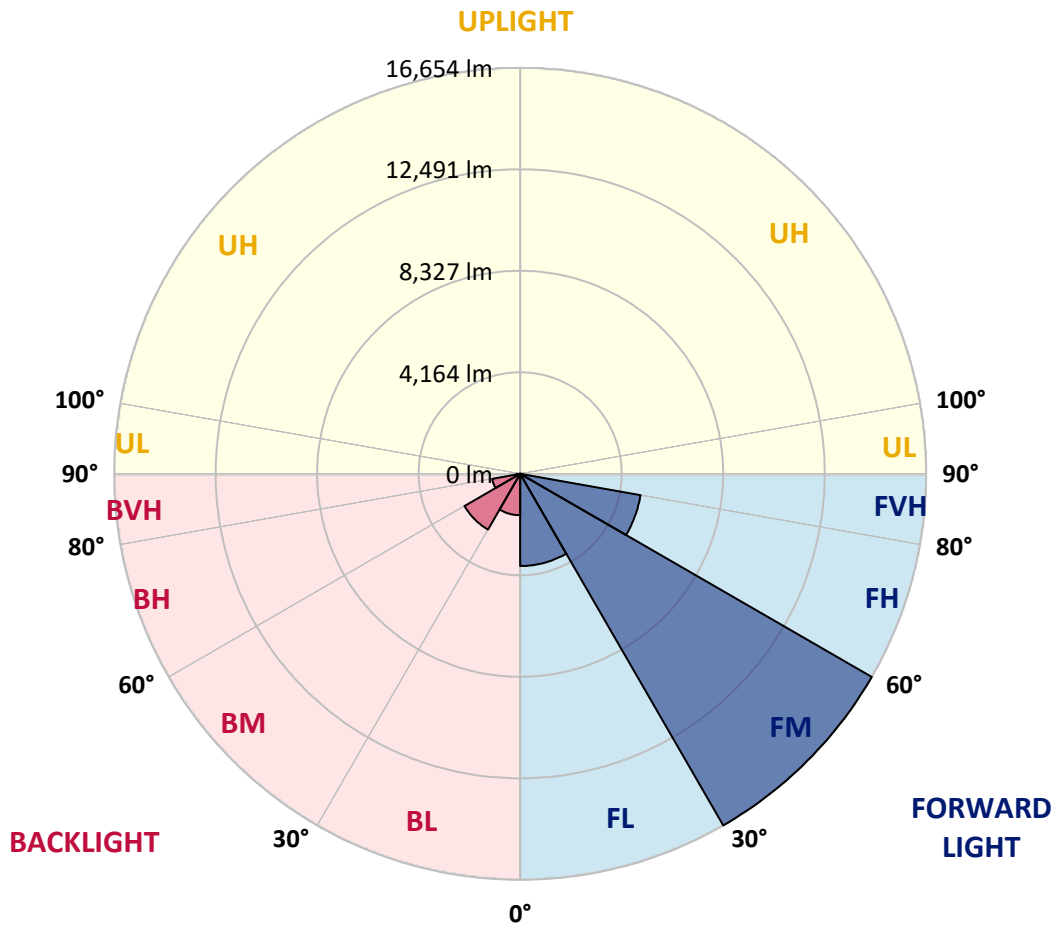
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3782.0	12.1			
FM (30°-60°)	16654.3	53.4			
FH (60°-80°)	5016.8	16.1			G3/7500
FVH (80°-90°)	105.4	0.3			G2/225
BL (0°-30°)	1697.1	5.4	B3/2500		
BM (30°-60°)	2639.1	8.5	B3/5000		
BH (60°-80°)	1166.1	3.7	B3/2500		G3/2500
BVH (80°-90°)	144.1	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



REPORT NUMBER: P952498

CATALOG NUMBER: GALN-SB6B-830-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7819.0	7819.0	7819.0	7819.0	7819.0	7819.0	7819.0	7819.0	7819.0	7819.0
2.5°	8970.8	8964.3	8999.8	8878.8	8796.5	8685.2	8538.4	8351.3	8149.7	7936.7
5°	9778.9	9722.5	9759.6	9669.2	9578.9	9411.1	9193.4	8888.5	8515.8	8091.6
7.5°	9651.5	9612.8	9708.0	9788.6	9856.4	9835.4	9675.7	9356.3	8875.6	8259.4
10°	8623.9	8580.4	8714.3	8993.3	9403.1	9759.6	9953.2	9754.7	9243.4	8443.3
12.5°	7717.3	7696.4	7785.1	8010.9	8465.8	9149.8	9917.7	10103.2	9625.7	8661.0
15°	7330.2	7304.4	7360.8	7475.4	7765.7	8402.9	9595.0	10341.9	10001.6	8912.7
17.5°	7244.7	7215.6	7239.8	7299.5	7486.7	7972.2	9107.9	10459.7	10393.6	9193.4
20°	7402.8	7378.6	7381.8	7378.6	7509.2	7894.8	8769.1	10414.5	10735.5	9451.5
22.5°	7785.1	7744.8	7746.4	7660.9	7731.8	8030.3	8680.4	10293.5	11040.4	9677.3
25°	8407.8	8335.2	8349.7	8131.9	8112.6	8333.6	8819.1	10200.0	11343.7	9858.0
27.5°	9259.5	9177.2	9133.7	8809.4	8654.6	8764.3	9101.4	10232.2	11630.8	10014.5
30°	10324.2	10224.2	10135.5	9675.7	9395.0	9354.7	9540.2	10445.2	11969.6	10179.0
32.5°	11629.2	11513.1	11351.8	10742.0	10346.8	10135.5	10108.0	10824.3	12366.4	10388.7
35°	13182.7	13031.1	12802.0	12013.2	11513.1	11080.8	10856.5	11371.1	12910.1	10704.9
37.5°	14782.9	14612.0	14402.2	13463.4	12848.8	12211.6	11769.6	12113.2	13634.4	11134.0
40°	16259.0	16067.0	15871.8	15036.2	14376.4	13608.6	12887.5	13052.0	14520.0	11647.0
42.5°	17130.1	16988.1	16913.9	16462.2	15952.5	15173.3	14278.0	14165.1	15515.3	12237.4
45°	17091.4	17033.3	17262.4	17449.5	17328.5	16896.2	15907.3	15395.9	16513.9	12748.8
47.5°	16178.3	16217.0	16728.4	17780.2	18243.2	18469.0	17762.4	16604.2	17381.7	13131.1
50°	13694.1	13726.3	14910.4	17178.5	18478.7	19751.5	19603.1	17783.4	18054.4	13365.0
52.5°	11727.6	11748.6	12256.7	15394.3	17701.1	20396.7	21261.4	18894.9	18546.4	13429.5
55°	8833.6	8906.2	9475.7	12077.7	15678.2	19885.4	22271.2	20040.2	18857.8	13436.0
57.5°	5160.5	5239.5	5942.9	8198.1	12185.8	18102.8	22424.5	21056.5	19069.1	13384.3
60°	2527.8	2561.7	2868.2	4308.7	7514.1	14668.4	21192.0	21548.5	19186.9	13356.9
62.5°	1703.5	1698.7	1711.6	2126.1	3702.2	9424.0	18623.9	20687.1	19123.9	13252.1
65°	1464.7	1447.0	1398.6	1492.2	1918.0	4310.3	14389.3	18115.7	18644.8	12989.1
67.5°	1266.3	1267.9	1269.6	1240.5	1369.6	1989.0	8793.3	14270.0	16925.2	11743.8
70°	1048.6	1063.1	1069.5	1069.5	1116.3	1305.0	3753.8	9780.6	13350.5	9207.9
72.5°	955.0	924.3	927.6	911.4	911.4	993.7	1511.5	5544.4	8411.0	5179.8
75°	779.2	798.5	801.7	790.4	753.3	758.2	896.9	2326.2	3598.9	2148.7
77.5°	672.7	672.7	679.1	671.1	642.0	567.8	598.5	901.8	1224.4	880.8
80°	540.4	538.8	566.2	582.3	537.2	419.4	382.3	498.5	543.6	387.2
82.5°	262.9	279.1	388.8	443.6	408.1	303.3	233.9	309.7	290.4	171.0
85°	153.2	145.2	174.2	246.8	233.9	167.8	112.9	161.3	151.6	87.1
87.5°	48.4	45.2	35.5	83.9	67.8	46.8	30.6	46.8	41.9	19.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P952498
 CATALOG NUMBER: GALN-SB6B-830-U-AFL

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
7819.0	0°	7819.0	7819.0	7819.0	7819.0	7819.0	7819.0	7819.0	7819.0	7819.0	7819.0
7844.8	2.5°	7730.2	7539.9	7351.1	7178.5	7073.7	7005.9	6938.2	6862.4	6833.3	6789.8
7865.7	5°	7652.8	7285.0	6957.5	6675.2	6418.7	6217.1	6013.8	5849.3	5775.1	5825.1
7931.9	7.5°	7607.6	7075.3	6570.4	6052.6	5554.1	5155.6	4808.8	4565.2	4455.5	4483.0
7996.4	10°	7567.3	6838.2	6068.7	5250.8	4534.6	4041.0	3686.1	3500.5	3431.2	3445.7
8083.5	12.5°	7530.2	6572.0	5463.8	4387.8	3626.4	3300.5	3198.9	3200.5	3213.4	3223.1
8222.2	15°	7523.8	6251.0	4787.8	3632.8	3136.0	3115.0	3224.7	3294.1	3331.2	3342.5
8338.4	17.5°	7514.1	5867.0	4099.0	3118.2	3016.6	3158.6	3260.2	3305.4	3334.4	3336.0
8451.3	20°	7475.4	5379.9	3463.4	2873.0	2990.8	3113.4	3176.3	3211.8	3236.0	3244.1
8536.8	22.5°	7356.0	4837.9	2968.2	2763.3	2887.5	2985.9	3060.2	3100.5	3115.0	3124.7
8552.9	25°	7141.4	4231.3	2626.2	2658.5	2744.0	2868.2	2927.9	2935.9	2931.1	2945.6
8512.6	27.5°	6860.7	3581.2	2413.3	2516.5	2626.2	2732.7	2764.9	2760.1	2750.4	2766.6
8443.3	30°	6522.0	2997.2	2277.8	2356.8	2506.8	2603.6	2632.7	2621.4	2602.0	2619.8
8407.8	32.5°	6163.9	2519.7	2166.5	2245.5	2408.4	2503.6	2532.7	2521.4	2506.8	2521.4
8448.1	35°	5829.9	2185.8	2063.2	2171.3	2331.0	2424.6	2461.7	2463.3	2463.3	2481.0
8554.6	37.5°	5523.4	1990.6	1977.7	2124.5	2277.8	2361.7	2414.9	2418.1	2348.8	2353.6
8735.2	40°	5239.5	1908.4	1939.0	2093.9	2226.2	2306.8	2310.0	2129.4	2001.9	1998.7
8941.7	42.5°	5007.2	1892.2	1950.3	2090.6	2189.1	2192.3	1964.8	1824.5	1789.0	1790.6
9132.1	45°	4789.5	1887.4	1976.1	2090.6	2134.2	1893.8	1740.6	1703.5	1706.7	1719.6
9217.6	47.5°	4545.9	1868.0	1981.0	2061.6	1976.1	1684.1	1639.0	1622.8	1616.4	1619.6
9198.2	50°	4279.7	1798.7	1919.7	2003.5	1705.1	1593.8	1537.3	1532.5	1540.6	1545.4
9090.1	52.5°	3999.0	1685.7	1814.8	1898.7	1580.9	1514.8	1451.8	1463.1	1498.6	1509.9
8977.2	55°	3815.1	1553.5	1676.1	1689.0	1493.8	1440.5	1387.3	1413.1	1479.3	1500.2
8909.5	57.5°	3766.7	1413.1	1518.0	1503.5	1382.5	1376.0	1343.8	1366.3	1450.2	1480.9
8906.2	60°	3752.2	1287.3	1363.1	1351.8	1274.4	1305.0	1297.0	1308.3	1337.3	1347.0
8874.0	62.5°	3639.3	1187.3	1224.4	1208.3	1177.6	1230.8	1250.2	1226.0	1248.6	1259.9
8653.0	65°	3352.1	1106.6	1088.9	1077.6	1090.5	1138.9	1177.6	1129.2	1150.2	1182.4
7801.2	67.5°	2877.9	996.9	948.5	961.4	1001.8	1027.6	1077.6	1022.7	1040.5	1095.3
6283.2	70°	2327.8	858.2	814.6	851.7	890.5	943.7	951.8	914.7	956.6	1017.9
3834.5	72.5°	1647.0	717.9	687.2	763.0	775.9	845.3	827.5	809.8	867.9	888.8
1895.5	75°	1142.1	579.1	561.4	619.5	666.2	725.9	713.0	734.0	856.6	866.3
946.9	77.5°	722.7	450.1	438.8	475.9	540.4	606.5	627.5	866.3	1463.1	1521.2
492.0	80°	419.4	335.5	322.6	351.7	408.1	469.4	604.9	1063.1	964.7	953.4
221.0	82.5°	233.9	230.7	214.5	222.6	272.6	338.8	855.0	748.5	608.2	627.5
88.7	85°	109.7	135.5	116.1	111.3	153.2	396.8	571.1	427.5	283.9	277.5
19.4	87.5°	29.0	25.8	25.8	29.0	64.5	342.0	227.5	182.3	108.1	104.9
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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