

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: P951091

Luminaire Tested: **GALN-SB5B-835-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951091
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-SB5B-835-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26833 lumens
Efficiency: N/A
Efficacy: 146.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

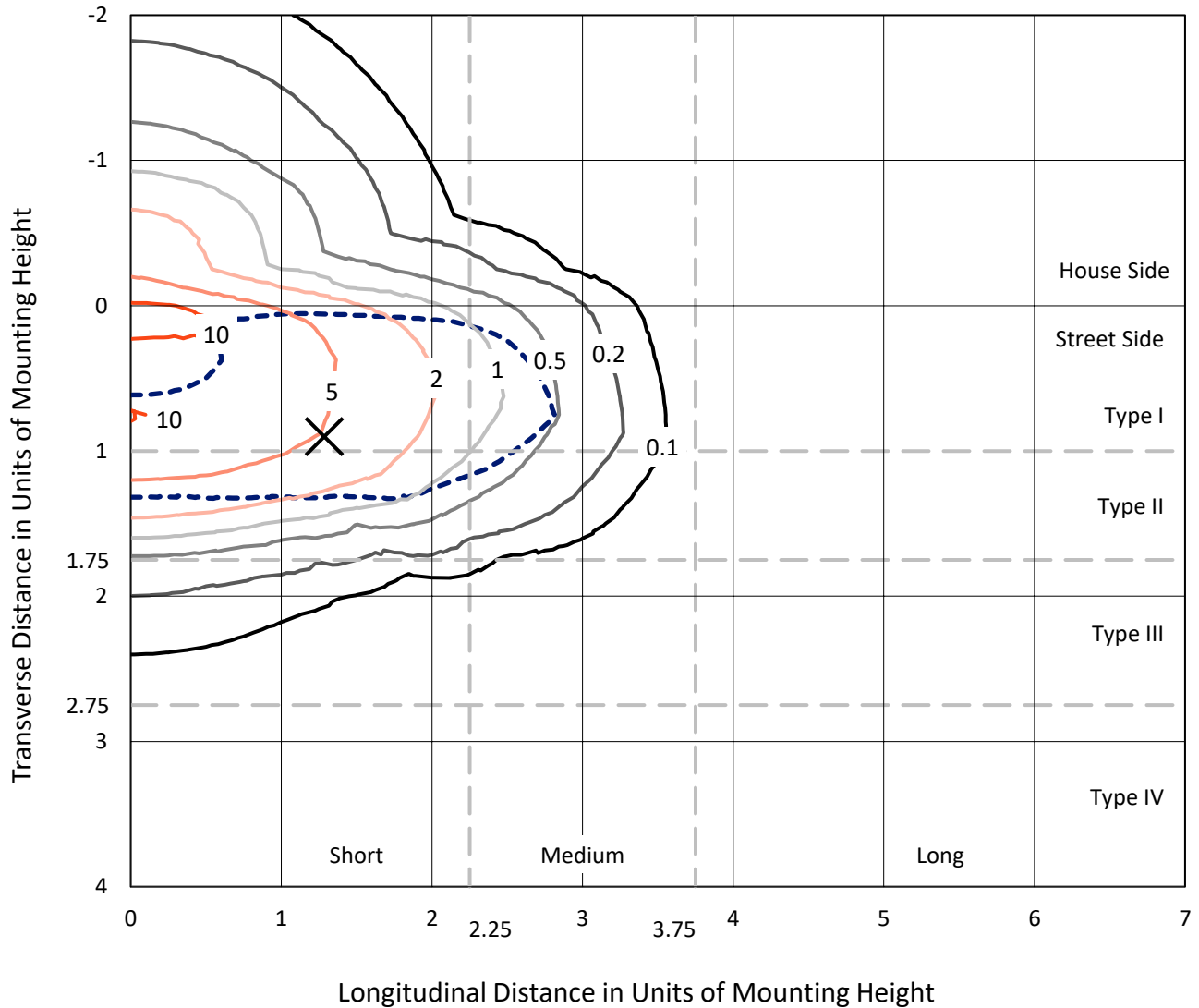
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

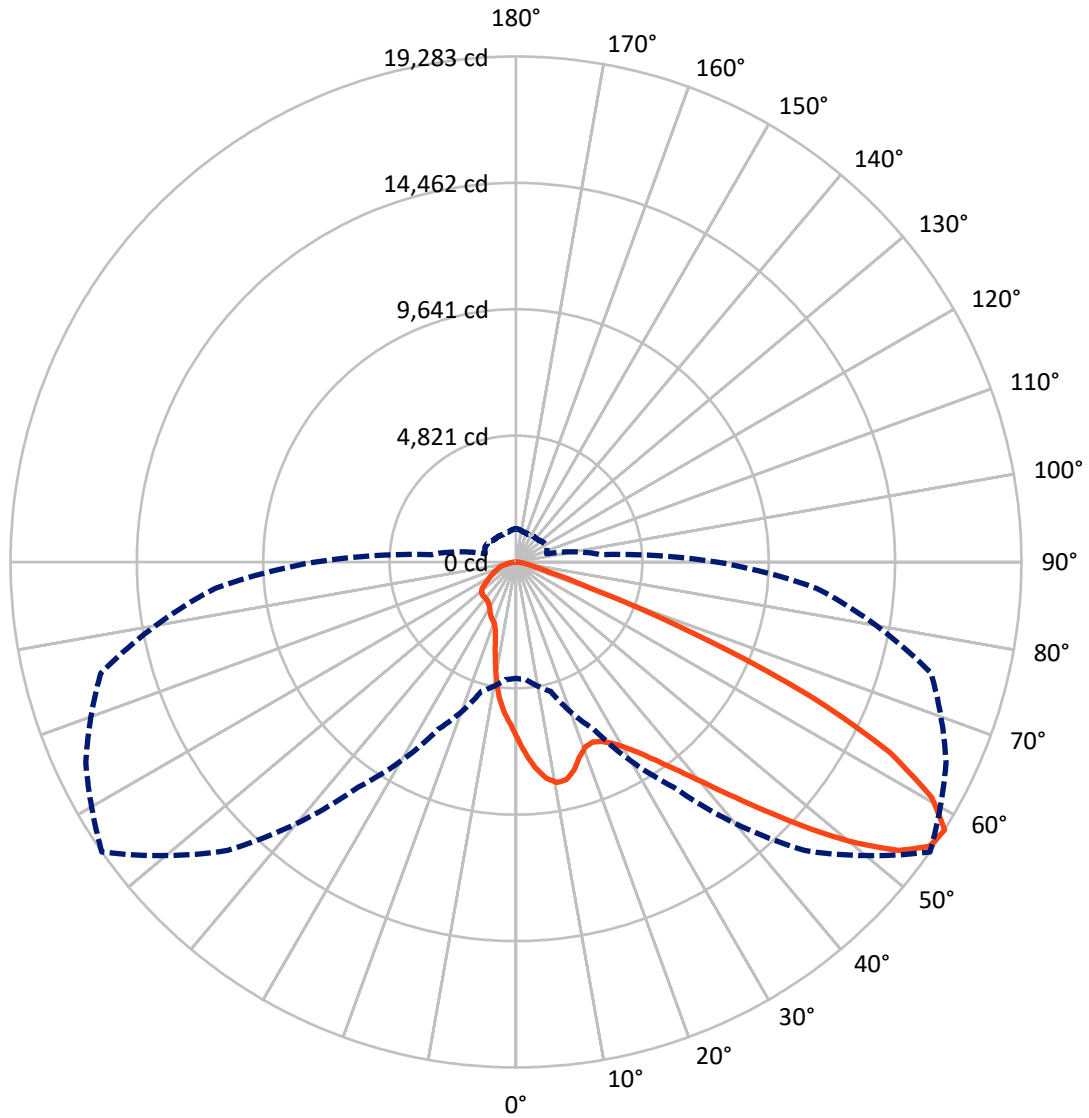
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 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	4855.3	0.0	4855.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	21977.7	0.0	21977.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	26833.0	0.0	26833.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	623.9	2.3
10°-20°	1574.7	5.9
20°-30°	2512.9	9.4
30°-40°	3978.5	14.8
40°-50°	6089.5	22.7
50°-60°	6522.4	24.3
60°-70°	4103.3	15.3
70°-80°	1213.4	4.5
80°-90°	214.5	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°	26833.0	100.0
0°-180°	26833.0	100.0

Coefficient of Utilization



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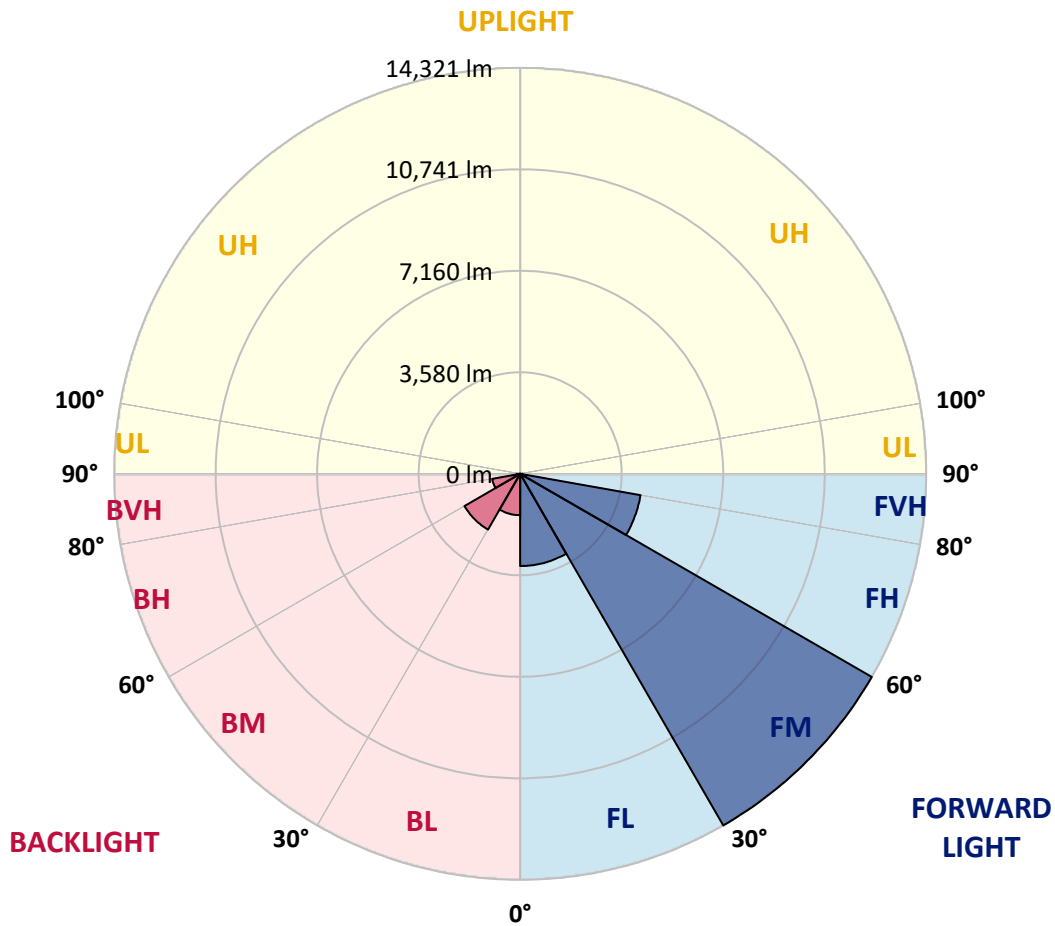
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3252.2	12.1			
FM (30°-60°)	14321.0	53.4			
FH (60°-80°)	4313.9	16.1			G2/5000
FVH (80°-90°)	90.6	0.3			G1/100
BL (0°-30°)	1459.3	5.4	B3/2500		
BM (30°-60°)	2269.3	8.5	B2/2500		
BH (60°-80°)	1002.7	3.7	B3/2500		G3/2500
BVH (80°-90°)	123.9	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°	6723.5	6723.5	6723.5	6723.5	6723.5	6723.5	6723.5	6723.5	6723.5	6723.5
2.5°	7713.9	7708.3	7738.9	7634.8	7564.1	7468.4	7342.1	7181.2	7007.8	6824.7
5°	8408.9	8360.3	8392.2	8314.5	8236.9	8092.6	7905.3	7643.2	7322.7	6957.9
7.5°	8299.3	8266.0	8347.8	8417.2	8475.4	8457.4	8320.1	8045.4	7632.1	7102.2
10°	7415.7	7378.2	7493.3	7733.3	8085.7	8392.2	8558.7	8388.0	7948.3	7260.3
12.5°	6636.1	6618.1	6694.3	6888.5	7279.7	7867.9	8528.2	8687.7	8277.1	7447.6
15°	6303.2	6281.0	6329.5	6428.0	6677.7	7225.6	8250.7	8893.0	8600.3	7664.0
17.5°	6229.7	6204.7	6225.5	6276.8	6437.7	6855.3	7831.8	8994.2	8937.4	7905.3
20°	6365.6	6344.8	6347.6	6344.8	6457.1	6788.7	7540.5	8955.4	9231.4	8127.3
22.5°	6694.3	6659.7	6661.1	6587.5	6648.6	6905.2	7464.2	8851.4	9493.6	8321.5
25°	7229.8	7167.4	7179.8	6992.6	6975.9	7166.0	7583.5	8770.9	9754.4	8476.8
27.5°	7962.2	7891.5	7854.0	7575.2	7442.0	7536.3	7826.3	8798.6	10001.3	8611.4
30°	8877.7	8791.7	8715.4	8320.1	8078.7	8044.0	8203.6	8981.7	10292.6	8752.9
32.5°	9999.9	9900.0	9761.3	9237.0	8897.1	8715.4	8691.8	9307.7	10633.8	8933.2
35°	11335.7	11205.3	11008.4	10330.0	9900.0	9528.3	9335.5	9778.0	11101.3	9205.1
37.5°	12711.8	12564.7	12384.4	11577.1	11048.6	10500.7	10120.6	10416.1	11724.1	9574.1
40°	13981.0	13815.9	13648.1	12929.6	12362.2	11701.9	11081.9	11223.4	12485.7	10015.2
42.5°	14730.1	14608.0	14544.2	14155.8	13717.5	13047.5	12277.6	12180.5	13341.5	10522.9
45°	14696.8	14646.8	14843.8	15004.7	14900.7	14528.9	13678.6	13238.9	14200.2	10962.6
47.5°	13911.7	13944.9	14384.7	15289.1	15687.2	15881.4	15273.8	14277.9	14946.5	11291.3
50°	11775.5	11803.2	12821.4	14771.7	15889.7	16984.2	16856.6	15291.9	15524.9	11492.5
52.5°	10084.5	10102.6	10539.5	13237.5	15221.1	17539.0	18282.5	16247.6	15948.0	11548.0
55°	7596.0	7658.4	8148.1	10385.5	13481.6	17099.3	19150.9	17232.5	16215.7	11553.5
57.5°	4437.5	4505.4	5110.2	7049.5	10478.5	15566.5	19282.7	18106.4	16397.4	11509.1
60°	2173.7	2202.8	2466.3	3705.1	6461.3	12613.3	18222.9	18529.4	16498.7	11485.5
62.5°	1464.8	1460.7	1471.8	1828.3	3183.5	8103.7	16014.6	17788.7	16444.6	11395.4
65°	1259.5	1244.3	1202.7	1283.1	1649.3	3706.4	12373.3	15577.6	16032.6	11169.3
67.5°	1088.9	1090.3	1091.7	1066.7	1177.7	1710.3	7561.3	12270.7	14553.9	10098.4
70°	901.6	914.1	919.7	919.7	959.9	1122.2	3227.9	8410.2	11480.0	7917.8
72.5°	821.2	794.8	797.6	783.7	783.7	854.5	1299.8	4767.6	7232.6	4454.1
75°	670.0	686.6	689.4	679.7	647.8	652.0	771.3	2000.3	3094.7	1847.7
77.5°	578.4	578.4	584.0	577.1	552.1	488.3	514.6	775.4	1052.8	757.4
80°	464.7	463.3	486.9	500.8	461.9	360.7	328.8	428.6	467.5	332.9
82.5°	226.1	240.0	334.3	381.5	350.9	260.8	201.1	266.3	249.7	147.0
85°	131.8	124.8	149.8	212.2	201.1	144.3	97.1	138.7	130.4	74.9
87.5°	41.6	38.8	30.5	72.1	58.3	40.2	26.4	40.2	36.1	16.6
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°
6723.5	0°	6723.5	6723.5	6723.5	6723.5	6723.5	6723.5	6723.5	6723.5	6723.5	6723.5
6745.7	2.5°	6647.2	6483.5	6321.2	6172.8	6082.6	6024.4	5966.1	5900.9	5875.9	5838.5
6763.7	5°	6580.6	6264.3	5982.7	5740.0	5519.4	5346.0	5171.3	5029.8	4966.0	5009.0
6820.6	7.5°	6541.8	6084.0	5649.8	5204.6	4775.9	4433.3	4135.1	3925.6	3831.3	3854.9
6876.1	10°	6507.1	5880.1	5218.4	4515.1	3899.3	3474.8	3169.6	3010.1	2950.5	2962.9
6951.0	12.5°	6475.2	5651.2	4698.3	3773.0	3118.3	2838.1	2750.7	2752.1	2763.2	2771.5
7070.3	15°	6469.6	5375.2	4117.0	3123.8	2696.6	2678.6	2772.9	2832.5	2864.4	2874.2
7170.1	17.5°	6461.3	5045.0	3524.7	2681.3	2594.0	2716.0	2803.4	2842.3	2867.2	2868.6
7267.2	20°	6428.0	4626.1	2978.2	2470.5	2571.8	2677.2	2731.3	2761.8	2782.6	2789.5
7340.8	22.5°	6325.4	4160.0	2552.3	2376.2	2483.0	2567.6	2631.4	2666.1	2678.6	2686.9
7354.6	25°	6140.9	3638.5	2258.3	2286.0	2359.5	2466.3	2517.7	2524.6	2520.4	2532.9
7320.0	27.5°	5899.5	3079.5	2075.2	2163.9	2258.3	2349.8	2377.6	2373.4	2365.1	2378.9
7260.3	30°	5608.2	2577.3	1958.6	2026.6	2155.6	2238.8	2263.8	2254.1	2237.5	2252.7
7229.8	32.5°	5300.3	2166.7	1862.9	1930.9	2071.0	2152.8	2177.8	2168.1	2155.6	2168.1
7264.5	35°	5013.1	1879.6	1774.2	1867.1	2004.4	2084.9	2116.8	2118.2	2118.2	2133.4
7356.0	37.5°	4749.6	1711.7	1700.6	1826.9	1958.6	2030.8	2076.6	2079.3	2019.7	2023.8
7511.4	40°	4505.4	1641.0	1667.3	1800.5	1914.3	1983.6	1986.4	1831.0	1721.4	1718.7
7688.9	42.5°	4305.7	1627.1	1677.1	1797.7	1882.4	1885.1	1689.5	1568.9	1538.3	1539.7
7852.6	45°	4118.4	1623.0	1699.2	1797.7	1835.2	1628.5	1496.7	1464.8	1467.6	1478.7
7926.1	47.5°	3909.0	1606.3	1703.4	1772.8	1699.2	1448.2	1409.3	1395.5	1389.9	1392.7
7909.5	50°	3680.1	1546.7	1650.7	1722.8	1466.2	1370.5	1321.9	1317.8	1324.7	1328.9
7816.5	52.5°	3438.7	1449.6	1560.5	1632.7	1359.4	1302.5	1248.4	1258.1	1288.7	1298.4
7719.4	55°	3280.6	1335.8	1441.2	1452.3	1284.5	1238.7	1192.9	1215.1	1272.0	1290.0
7661.2	57.5°	3239.0	1215.1	1305.3	1292.8	1188.8	1183.2	1155.5	1174.9	1247.0	1273.4
7658.4	60°	3226.5	1106.9	1172.1	1162.4	1095.8	1122.2	1115.3	1125.0	1149.9	1158.3
7630.7	62.5°	3129.4	1020.9	1052.8	1039.0	1012.6	1058.4	1075.0	1054.2	1073.6	1083.4
7440.6	65°	2882.5	951.6	936.3	926.6	937.7	979.3	1012.6	971.0	989.0	1016.8
6708.2	67.5°	2474.7	857.3	815.6	826.7	861.4	883.6	926.6	879.4	894.7	941.9
5402.9	70°	2001.6	738.0	700.5	732.4	765.7	811.5	818.4	786.5	822.6	875.3
3297.2	72.5°	1416.3	617.3	590.9	656.1	667.2	726.9	711.6	696.3	746.3	764.3
1629.9	75°	982.1	498.0	482.7	532.7	572.9	624.2	613.1	631.1	736.6	744.9
814.3	77.5°	621.4	387.0	377.3	409.2	464.7	521.6	539.6	744.9	1258.1	1308.1
423.1	80°	360.7	288.5	277.4	302.4	350.9	403.7	520.2	914.1	829.5	819.8
190.0	82.5°	201.1	198.4	184.5	191.4	234.4	291.3	735.2	643.6	523.0	539.6
76.3	85°	94.3	116.5	99.9	95.7	131.8	341.2	491.0	367.6	244.1	238.6
16.6	87.5°	25.0	22.2	22.2	25.0	55.5	294.1	195.6	156.7	92.9	90.2
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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