

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: P950734

Luminaire Tested: **GALN-SB5A-835-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950734
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-SB5A-835-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21375 lumens
Efficiency: N/A
Efficacy: 150.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

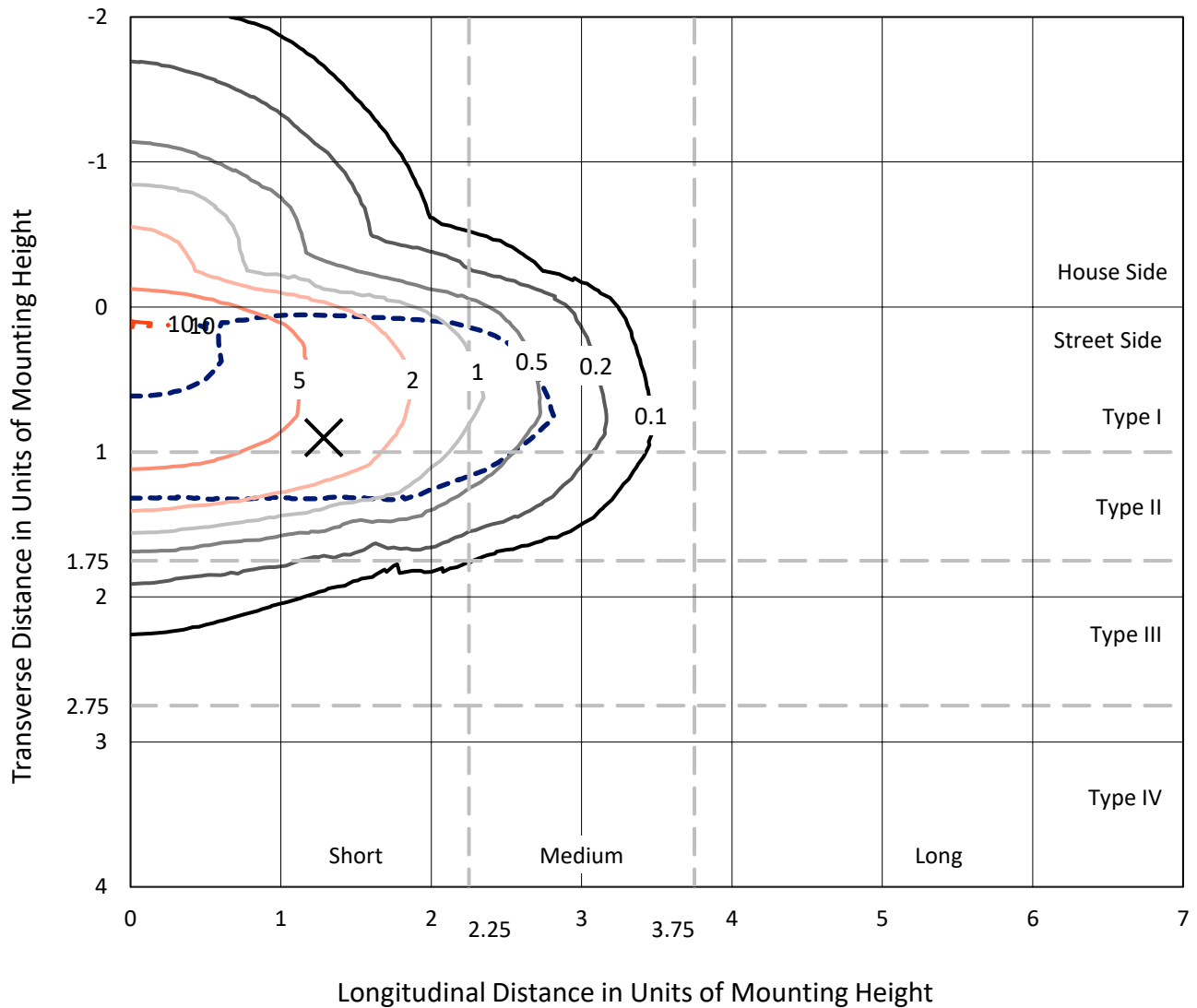
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

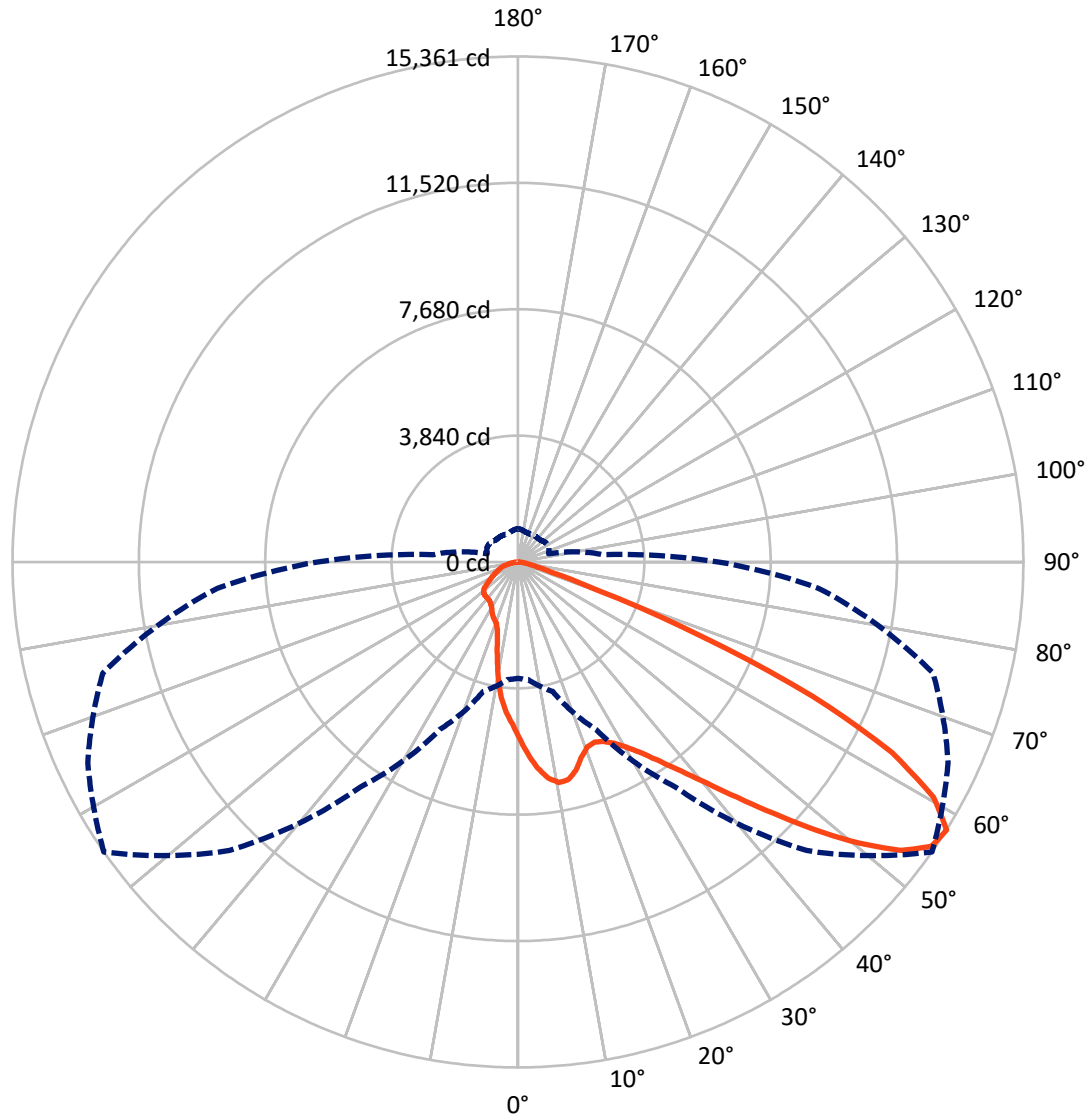
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 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	3867.7	0.0	3867.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	17507.3	0.0	17507.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	21375.0	0.0	21375.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	497.0	2.3
10°-20°	1254.4	5.9
20°-30°	2001.7	9.4
30°-40°	3169.2	14.8
40°-50°	4850.8	22.7
50°-60°	5195.7	24.3
60°-70°	3268.6	15.3
70°-80°	966.6	4.5
80°-90°	170.9	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°	21375.0	100.0
0°-180°	21375.0	100.0

Coefficient of Utilization



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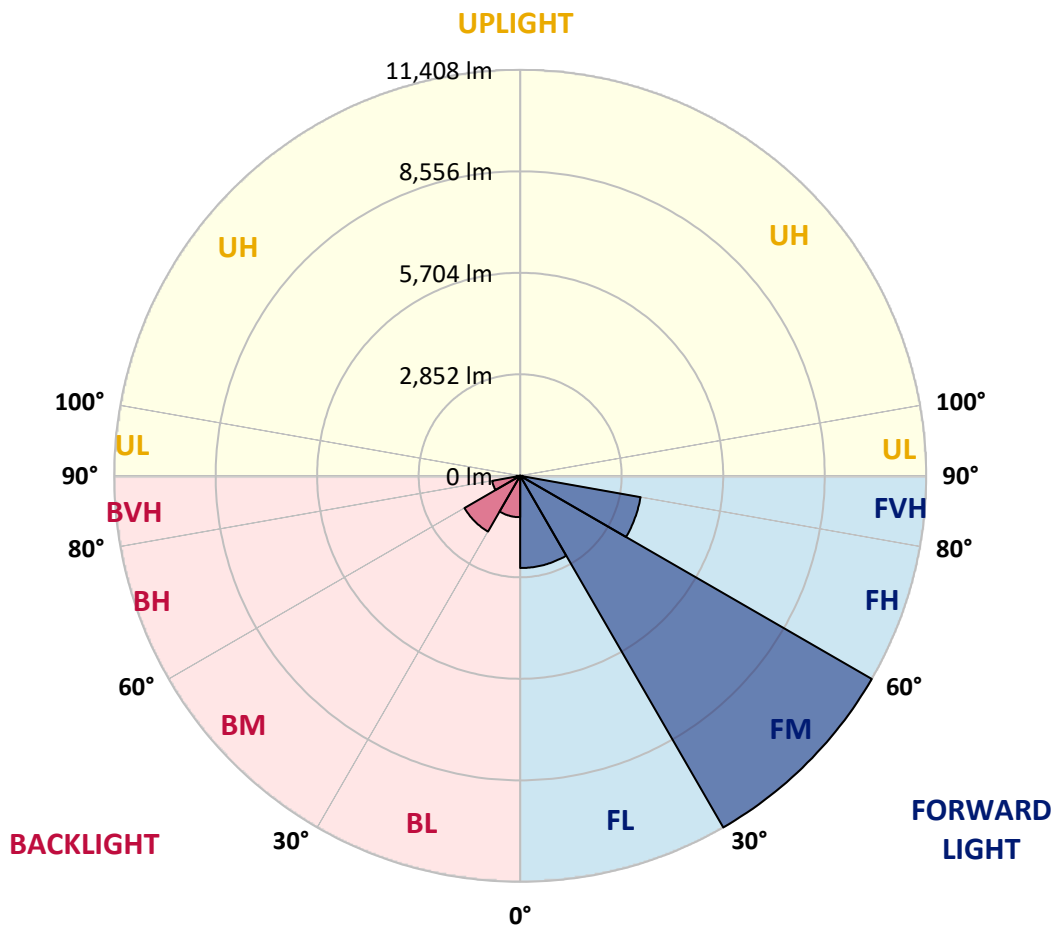
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2590.6	12.1			
FM (30°-60°)	11408.0	53.4			
FH (60°-80°)	3436.4	16.1			G2/5000
FVH (80°-90°)	72.2	0.3			G1/100
BL (0°-30°)	1162.5	5.4	B3/2500		
BM (30°-60°)	1807.7	8.5	B2/2500		
BH (60°-80°)	798.8	3.7	B2/1000		G2/1000
BVH (80°-90°)	98.7	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5355.9	5355.9	5355.9	5355.9	5355.9	5355.9	5355.9	5355.9	5355.9	5355.9
2.5°	6144.8	6140.4	6164.7	6081.9	6025.5	5949.3	5848.7	5720.5	5582.4	5436.5
5°	6698.4	6659.8	6685.2	6623.3	6561.4	6446.5	6297.3	6088.5	5833.2	5542.6
7.5°	6611.1	6584.6	6649.8	6705.1	6751.5	6737.1	6627.7	6408.9	6079.6	5657.5
10°	5907.3	5877.4	5969.2	6160.3	6441.0	6685.2	6817.8	6681.9	6331.6	5783.5
12.5°	5286.3	5271.9	5332.7	5487.4	5799.0	6267.5	6793.5	6920.5	6593.5	5932.7
15°	5021.1	5003.4	5042.1	5120.5	5319.4	5755.9	6572.5	7084.1	6850.9	6105.1
17.5°	4962.5	4942.6	4959.2	5000.1	5128.3	5460.9	6238.8	7164.7	7119.4	6297.3
20°	5070.8	5054.2	5056.4	5054.2	5143.7	5407.8	6006.7	7133.8	7353.7	6474.1
22.5°	5332.7	5305.1	5306.2	5247.6	5296.2	5500.6	5945.9	7050.9	7562.5	6628.8
25°	5759.2	5709.5	5719.4	5570.2	5557.0	5708.4	6041.0	6986.8	7770.3	6752.6
27.5°	6342.6	6286.3	6256.4	6034.3	5928.3	6003.4	6234.3	7008.9	7967.0	6859.8
30°	7071.9	7003.4	6942.6	6627.7	6435.5	6407.8	6534.9	7154.8	8199.0	6972.5
32.5°	7965.9	7886.3	7775.8	7358.1	7087.4	6942.6	6923.9	7414.5	8470.8	7116.1
35°	9030.0	8926.1	8769.2	8228.9	7886.3	7590.2	7436.6	7789.1	8843.2	7332.7
37.5°	10126.1	10009.0	9865.3	9222.2	8801.2	8364.8	8062.0	8297.4	9339.4	7626.6
40°	11137.2	11005.7	10872.0	10299.6	9847.7	9321.7	8827.8	8940.5	9946.0	7978.0
42.5°	11733.9	11636.6	11585.8	11276.4	10927.2	10393.5	9780.3	9702.9	10627.8	8382.4
45°	11707.4	11667.6	11824.5	11952.7	11869.8	11573.7	10896.3	10546.0	11311.8	8732.7
47.5°	11081.9	11108.5	11458.7	12179.2	12496.3	12651.0	12167.0	11373.7	11906.3	8994.6
50°	9380.3	9402.4	10213.4	11767.0	12657.6	13529.5	13427.8	12181.4	12367.0	9154.8
52.5°	8033.3	8047.6	8395.7	10544.9	12125.0	13971.5	14563.8	12942.7	12704.1	9199.0
55°	6050.9	6100.6	6490.7	8273.1	10739.4	13621.2	15255.5	13727.3	12917.3	9203.5
57.5°	3534.9	3589.0	4070.8	5615.6	8347.1	12400.2	15360.5	14423.4	13062.1	9168.1
60°	1731.5	1754.7	1964.7	2951.4	5147.0	10047.7	14516.2	14760.4	13142.7	9149.3
62.5°	1166.9	1163.6	1172.4	1456.4	2535.9	6455.3	12757.1	14170.4	13099.6	9077.5
65°	1003.3	991.2	958.0	1022.1	1313.8	2952.5	9856.5	12409.0	12771.5	8897.4
67.5°	867.4	868.5	869.6	849.7	938.1	1362.5	6023.3	9774.7	11593.5	8044.3
70°	718.2	728.2	732.6	732.6	764.7	893.9	2571.3	6699.5	9144.9	6307.3
72.5°	654.2	633.2	635.4	624.3	624.3	680.7	1035.4	3797.8	5761.4	3548.1
75°	533.7	547.0	549.2	541.4	516.0	519.3	614.4	1593.4	2465.2	1471.8
77.5°	460.8	460.8	465.2	459.7	439.8	389.0	410.0	617.7	838.7	603.3
80°	370.2	369.1	387.9	398.9	368.0	287.3	261.9	341.4	372.4	265.2
82.5°	180.1	191.2	266.3	303.9	279.6	207.7	160.2	212.2	198.9	117.1
85°	105.0	99.4	119.3	169.1	160.2	114.9	77.3	110.5	103.9	59.7
87.5°	33.1	30.9	24.3	57.5	46.4	32.0	21.0	32.0	28.7	13.3
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°
5355.9	0°	5355.9	5355.9	5355.9	5355.9	5355.9	5355.9	5355.9	5355.9	5355.9	5355.9
5373.6	2.5°	5295.1	5164.7	5035.4	4917.2	4845.4	4799.0	4752.6	4700.6	4680.7	4650.9
5387.9	5°	5242.1	4990.1	4765.8	4572.4	4396.8	4258.6	4119.4	4006.7	3955.9	3990.1
5433.2	7.5°	5211.1	4846.5	4500.6	4145.9	3804.5	3531.5	3294.0	3127.1	3052.0	3070.8
5477.4	10°	5183.5	4684.0	4157.0	3596.7	3106.1	2768.0	2524.9	2397.8	2350.3	2360.3
5537.1	12.5°	5158.1	4501.7	3742.6	3005.6	2484.0	2260.8	2191.2	2192.3	2201.1	2207.8
5632.1	15°	5153.7	4281.8	3279.6	2488.4	2148.1	2133.7	2208.9	2256.4	2281.8	2289.5
5711.7	17.5°	5147.0	4018.8	2807.8	2135.9	2066.3	2163.6	2233.2	2264.1	2284.0	2285.1
5789.0	20°	5120.5	3685.1	2372.4	1968.0	2048.6	2132.6	2175.7	2200.0	2216.6	2222.1
5847.6	22.5°	5038.7	3313.9	2033.2	1892.8	1977.9	2045.3	2096.2	2123.8	2133.7	2140.4
5858.7	25°	4891.8	2898.4	1798.9	1821.0	1879.6	1964.7	2005.6	2011.1	2007.8	2017.7
5831.0	27.5°	4699.5	2453.1	1653.1	1723.8	1798.9	1871.9	1894.0	1890.6	1884.0	1895.1
5783.5	30°	4467.5	2053.1	1560.2	1614.4	1717.2	1783.5	1803.3	1795.6	1782.3	1794.5
5759.2	32.5°	4222.2	1726.0	1484.0	1538.1	1649.7	1714.9	1734.8	1727.1	1717.2	1727.1
5786.8	35°	3993.4	1497.3	1413.3	1487.3	1596.7	1660.8	1686.2	1687.3	1687.3	1699.5
5859.8	37.5°	3783.5	1363.6	1354.7	1455.3	1560.2	1617.7	1654.2	1656.4	1608.9	1612.2
5983.5	40°	3589.0	1307.2	1328.2	1434.3	1524.9	1580.1	1582.3	1458.6	1371.3	1369.1
6125.0	42.5°	3429.9	1296.2	1335.9	1432.1	1499.5	1501.7	1345.9	1249.7	1225.4	1226.5
6255.3	45°	3280.7	1292.8	1353.6	1432.1	1461.9	1297.3	1192.3	1166.9	1169.1	1177.9
6313.9	47.5°	3113.9	1279.6	1356.9	1412.2	1353.6	1153.6	1122.7	1111.6	1107.2	1109.4
6300.6	50°	2931.5	1232.1	1314.9	1372.4	1168.0	1091.7	1053.1	1049.7	1055.3	1058.6
6226.6	52.5°	2739.3	1154.7	1243.1	1300.6	1082.9	1037.6	994.5	1002.2	1026.5	1034.3
6149.3	55°	2613.3	1064.1	1148.1	1156.9	1023.2	986.8	950.3	968.0	1013.3	1027.6
6102.9	57.5°	2580.1	968.0	1039.8	1029.8	947.0	942.6	920.5	935.9	993.4	1014.4
6100.6	60°	2570.2	881.8	933.7	926.0	872.9	893.9	888.4	896.1	916.0	922.7
6078.5	62.5°	2492.9	813.3	838.7	827.6	806.6	843.1	856.4	839.8	855.3	863.0
5927.2	65°	2296.2	758.0	745.9	738.1	747.0	780.1	806.6	773.5	787.9	810.0
5343.7	67.5°	1971.3	682.9	649.7	658.6	686.2	703.9	738.1	700.6	712.7	750.3
4303.9	70°	1594.5	587.9	558.0	583.4	610.0	646.4	651.9	626.5	655.3	697.2
2626.6	72.5°	1128.2	491.7	470.7	522.7	531.5	579.0	566.9	554.7	594.5	608.8
1298.4	75°	782.3	396.7	384.5	424.3	456.4	497.2	488.4	502.8	586.7	593.4
648.6	77.5°	495.0	308.3	300.6	326.0	370.2	415.5	429.8	593.4	1002.2	1042.0
337.0	80°	287.3	229.8	221.0	240.9	279.6	321.6	414.4	728.2	660.8	653.0
151.4	82.5°	160.2	158.0	147.0	152.5	186.7	232.0	585.6	512.7	416.6	429.8
60.8	85°	75.1	92.8	79.6	76.2	105.0	271.8	391.2	292.8	194.5	190.1
13.3	87.5°	19.9	17.7	17.7	19.9	44.2	234.3	155.8	124.9	74.0	71.8
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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