

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: P949663

Luminaire Tested: **GALN-SB4B-835-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949663
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-SB4B-835-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 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: 21289 lumens
Efficiency: N/A
Efficacy: 144.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

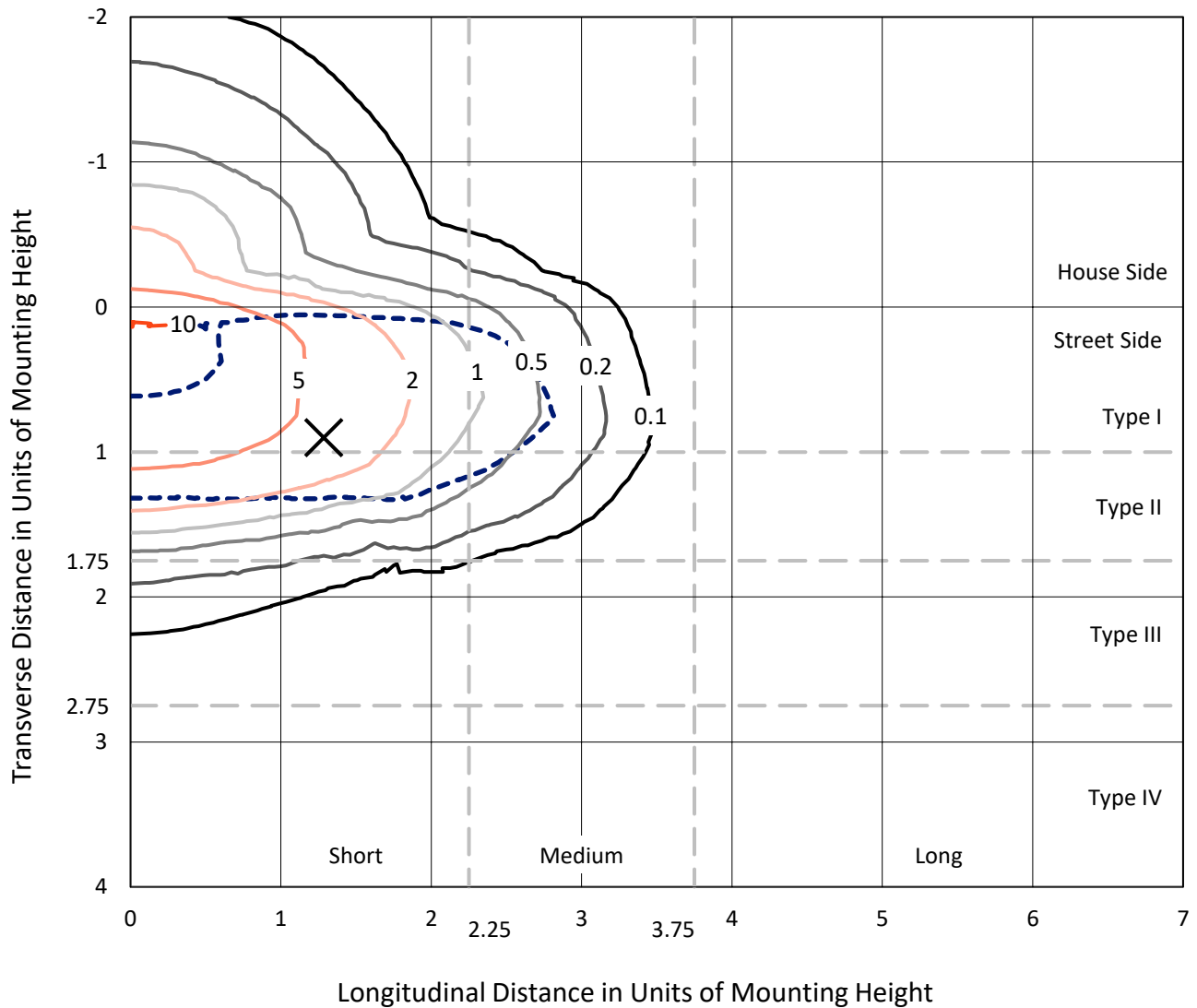
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

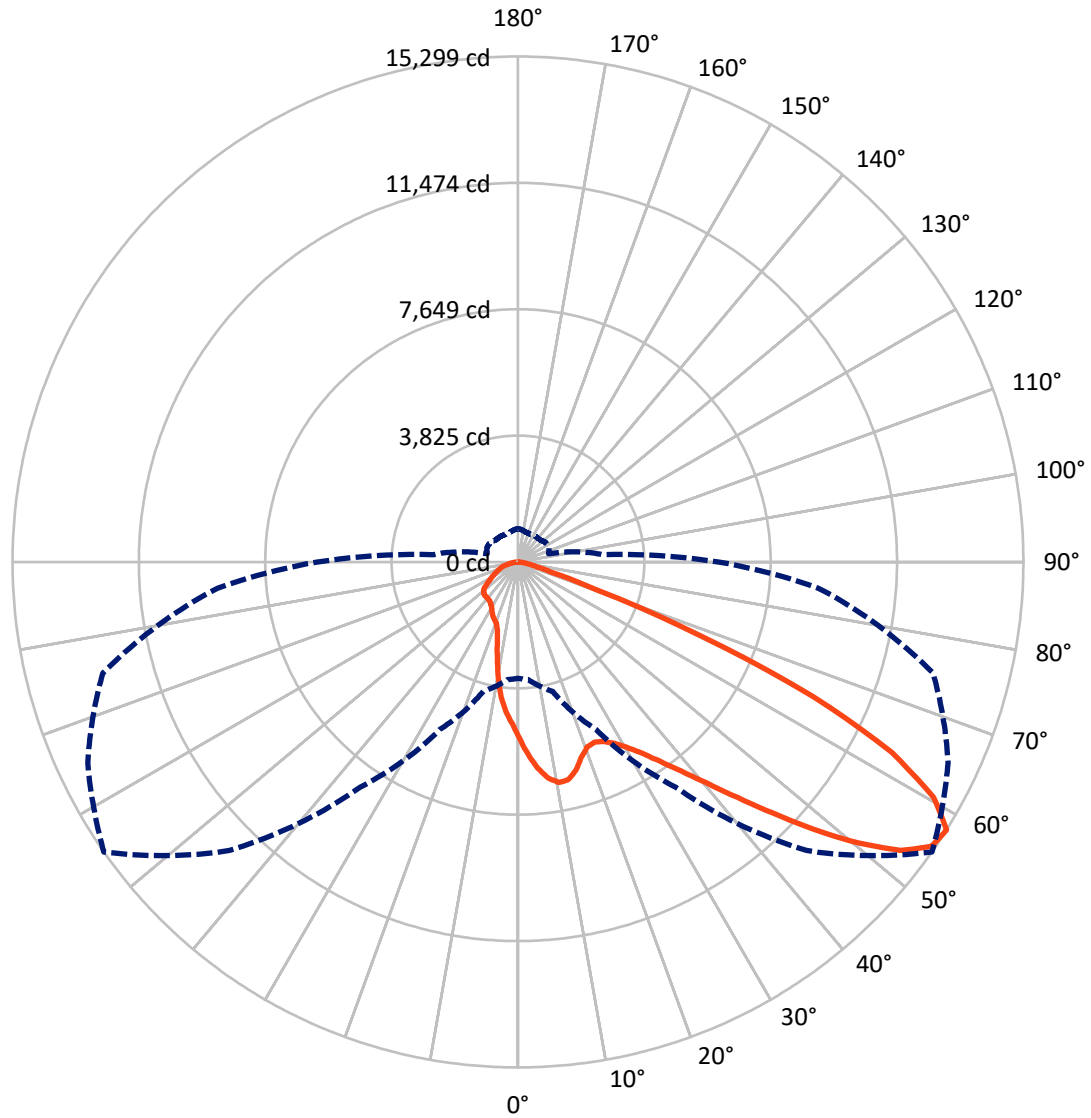
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 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	3852.1	0.0	3852.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	17436.9	0.0	17436.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	21289.0	0.0	21289.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	495.0	2.3
10°-20°	1249.4	5.9
20°-30°	1993.7	9.4
30°-40°	3156.5	14.8
40°-50°	4831.3	22.7
50°-60°	5174.8	24.3
60°-70°	3255.5	15.3
70°-80°	962.7	4.5
80°-90°	170.2	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°	21289.0	100.0
0°-180°	21289.0	100.0

Coefficient of Utilization



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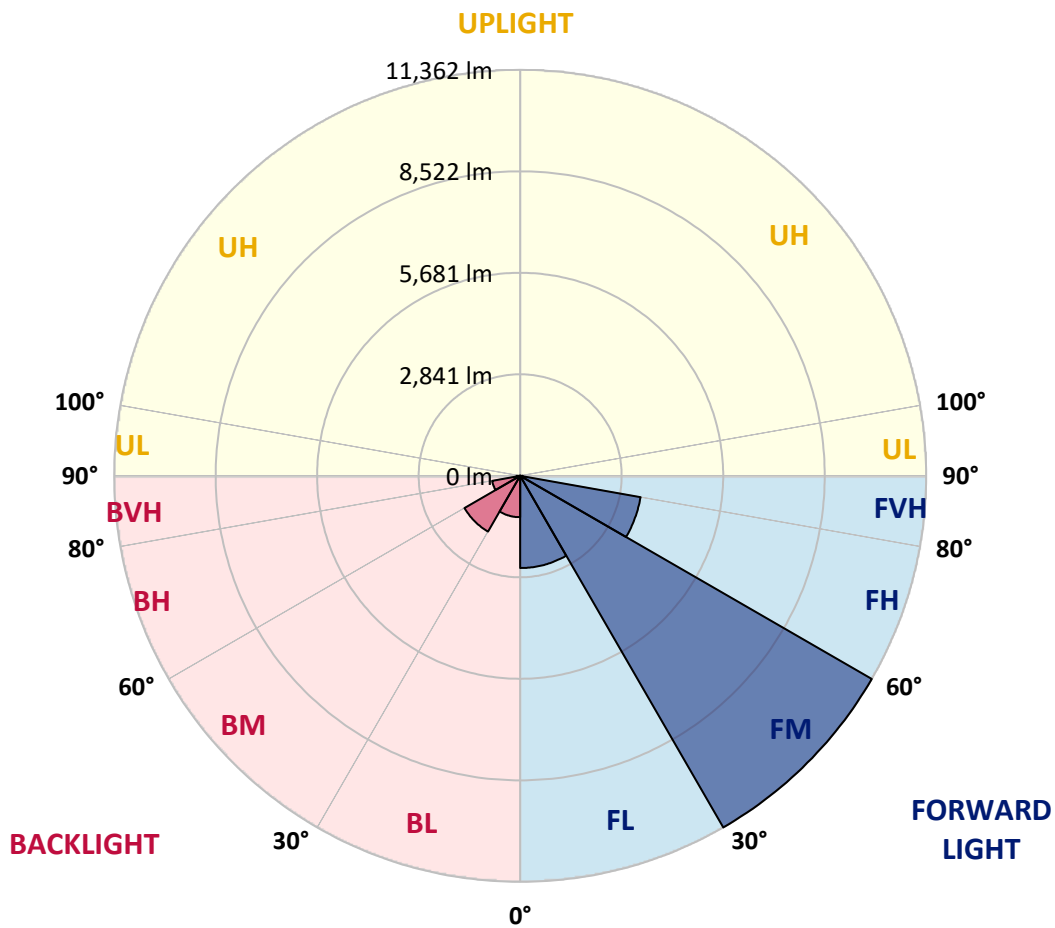
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2580.2	12.1			
FM (30°-60°)	11362.1	53.4			
FH (60°-80°)	3422.6	16.1			G2/5000
FVH (80°-90°)	71.9	0.3			G1/100
BL (0°-30°)	1157.8	5.4	B3/2500		
BM (30°-60°)	1800.5	8.5	B2/2500		
BH (60°-80°)	795.6	3.7	B2/1000		G2/1000
BVH (80°-90°)	98.3	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°	5334.3	5334.3	5334.3	5334.3	5334.3	5334.3	5334.3	5334.3	5334.3	5334.3
2.5°	6120.1	6115.7	6139.9	6057.4	6001.3	5925.3	5825.2	5697.5	5559.9	5414.7
5°	6671.5	6633.0	6658.3	6596.7	6535.0	6420.6	6272.0	6064.0	5809.8	5520.3
7.5°	6584.5	6558.1	6623.1	6678.1	6724.3	6710.0	6601.1	6383.1	6055.2	5634.8
10°	5883.5	5853.8	5945.1	6135.5	6415.1	6658.3	6790.4	6655.0	6306.1	5760.2
12.5°	5265.0	5250.7	5311.2	5465.3	5775.7	6242.3	6766.1	6892.7	6566.9	5908.8
15°	5000.9	4983.3	5021.8	5099.9	5298.0	5732.7	6546.0	7055.6	6823.4	6080.5
17.5°	4942.5	4922.7	4939.2	4980.0	5107.6	5438.9	6213.7	7135.9	7090.8	6272.0
20°	5050.4	5033.9	5036.1	5033.9	5123.0	5386.1	5982.6	7105.1	7324.1	6448.1
22.5°	5311.2	5283.7	5284.8	5226.5	5274.9	5478.5	5922.0	7022.6	7532.1	6602.2
25°	5736.0	5686.5	5696.4	5547.8	5534.6	5685.4	6016.7	6958.7	7739.0	6725.4
27.5°	6317.1	6261.0	6231.3	6010.1	5904.4	5979.3	6209.3	6980.7	7934.9	6832.2
30°	7043.5	6975.2	6914.7	6601.1	6409.6	6382.0	6508.6	7126.0	8166.0	6944.4
32.5°	7933.8	7854.6	7744.5	7328.5	7058.9	6914.7	6896.0	7384.6	8436.8	7087.5
35°	8993.6	8890.2	8733.9	8195.7	7854.6	7559.6	7406.7	7757.7	8807.6	7303.2
37.5°	10085.4	9968.7	9825.6	9185.1	8765.8	8331.1	8029.6	8264.0	9301.8	7595.9
40°	11092.4	10961.4	10828.2	10258.2	9808.0	9284.2	8792.2	8904.5	9906.0	7945.9
42.5°	11686.7	11589.8	11539.2	11231.0	10883.3	10351.7	9740.9	9663.9	10585.0	8348.7
45°	11660.3	11620.6	11776.9	11904.6	11822.0	11527.1	10852.5	10503.6	11266.3	8697.6
47.5°	11037.3	11063.8	11412.6	12130.2	12446.0	12600.1	12118.1	11327.9	11858.4	8958.4
50°	9342.5	9364.5	10172.3	11719.7	12606.7	13475.0	13373.8	12132.4	12317.3	9118.0
52.5°	8000.9	8015.3	8361.9	10502.5	12076.3	13915.3	14505.2	12890.7	12652.9	9162.0
55°	6026.6	6076.1	6464.6	8239.8	10696.2	13566.4	15194.1	13672.0	12865.3	9166.4
57.5°	3520.6	3574.6	4054.4	5593.0	8313.5	12350.3	15298.6	14365.4	13009.5	9131.2
60°	1724.6	1747.7	1956.8	2939.6	5126.3	10007.2	14457.8	14701.1	13089.9	9112.5
62.5°	1162.2	1158.9	1167.7	1450.5	2525.7	6429.4	12705.8	14113.4	13046.9	9041.0
65°	999.3	987.2	954.2	1018.0	1308.5	2940.7	9816.8	12359.1	12720.1	8861.6
67.5°	863.9	865.0	866.1	846.3	934.4	1357.0	5999.1	9735.4	11546.9	8012.0
70°	715.4	725.3	729.7	729.7	761.6	890.3	2561.0	6672.6	9108.1	6281.9
72.5°	651.5	630.6	632.8	621.8	621.8	677.9	1031.2	3782.6	5738.2	3533.8
75°	531.6	544.8	547.0	539.3	514.0	517.3	611.9	1587.0	2455.3	1465.9
77.5°	458.9	458.9	463.3	457.8	438.0	387.4	408.3	615.2	835.3	600.9
80°	368.7	367.6	386.3	397.3	366.5	286.1	260.8	340.1	370.9	264.1
82.5°	179.4	190.4	265.2	302.6	278.4	206.9	159.6	211.3	198.1	116.7
85°	104.6	99.0	118.9	168.4	159.6	114.5	77.0	110.1	103.5	59.4
87.5°	33.0	30.8	24.2	57.2	46.2	31.9	20.9	31.9	28.6	13.2
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°
5334.3	0°	5334.3	5334.3	5334.3	5334.3	5334.3	5334.3	5334.3	5334.3	5334.3	5334.3
5351.9	2.5°	5273.8	5143.9	5015.2	4897.4	4825.9	4779.7	4733.4	4681.7	4661.9	4632.2
5366.2	5°	5221.0	4970.1	4746.6	4554.0	4379.1	4241.5	4102.8	3990.6	3939.9	3974.1
5411.4	7.5°	5190.2	4827.0	4482.5	4129.2	3789.2	3517.3	3280.7	3114.5	3039.7	3058.4
5455.4	10°	5162.6	4665.2	4140.2	3582.3	3093.6	2756.9	2514.7	2388.2	2340.9	2350.8
5514.8	12.5°	5137.3	4483.6	3727.5	2993.5	2474.0	2251.7	2182.4	2183.5	2192.3	2198.9
5609.5	15°	5132.9	4264.6	3266.4	2478.4	2139.5	2125.1	2200.0	2247.3	2272.6	2280.3
5688.7	17.5°	5126.3	4002.7	2796.5	2127.3	2058.0	2154.9	2224.2	2255.0	2274.8	2275.9
5765.7	20°	5099.9	3670.3	2362.9	1960.1	2040.4	2124.0	2167.0	2191.2	2207.7	2213.2
5824.1	22.5°	5018.5	3300.5	2025.0	1885.2	1970.0	2037.1	2087.7	2115.2	2125.1	2131.8
5835.1	25°	4872.1	2886.7	1791.7	1813.7	1872.0	1956.8	1997.5	2003.0	1999.7	2009.6
5807.6	27.5°	4680.6	2443.2	1646.4	1716.8	1791.7	1864.3	1886.3	1883.0	1876.4	1887.4
5760.2	30°	4449.5	2044.8	1554.0	1607.9	1710.2	1776.3	1796.1	1788.4	1775.2	1787.3
5736.0	32.5°	4205.2	1719.0	1478.0	1532.0	1643.1	1708.0	1727.9	1720.1	1710.2	1720.1
5763.5	35°	3977.4	1491.2	1407.6	1481.3	1590.3	1654.1	1679.4	1680.5	1680.5	1692.6
5836.2	37.5°	3768.3	1358.1	1349.3	1449.4	1554.0	1611.2	1647.5	1649.7	1602.4	1605.7
5959.4	40°	3574.6	1301.9	1322.9	1428.5	1518.7	1573.8	1576.0	1452.7	1365.8	1363.6
6100.3	42.5°	3416.1	1290.9	1330.6	1426.3	1493.4	1495.6	1340.5	1244.7	1220.5	1221.6
6230.2	45°	3267.5	1287.6	1348.2	1426.3	1456.0	1292.0	1187.5	1162.2	1164.4	1173.2
6288.5	47.5°	3101.3	1274.4	1351.5	1406.5	1348.2	1149.0	1118.2	1107.1	1102.7	1104.9
6275.3	50°	2919.7	1227.1	1309.6	1366.9	1163.3	1087.3	1048.8	1045.5	1051.0	1054.3
6201.6	52.5°	2728.2	1150.1	1238.1	1295.3	1078.5	1033.4	990.5	998.2	1022.4	1030.1
6124.5	55°	2602.8	1059.8	1143.5	1152.3	1019.1	982.8	946.5	964.1	1009.2	1023.5
6078.3	57.5°	2569.8	964.1	1035.6	1025.7	943.2	938.8	916.8	932.2	989.4	1010.3
6076.1	60°	2559.9	878.2	930.0	922.3	869.4	890.3	884.8	892.5	912.4	919.0
6054.1	62.5°	2482.8	810.0	835.3	824.3	803.4	839.7	852.9	836.4	851.8	859.5
5903.3	65°	2286.9	755.0	742.9	735.2	744.0	777.0	803.4	770.4	784.7	806.7
5322.2	67.5°	1963.4	680.1	647.1	655.9	683.4	701.0	735.2	697.7	709.9	747.3
4286.6	70°	1588.1	585.5	555.8	581.1	607.5	643.8	649.3	624.0	652.6	694.4
2616.0	72.5°	1123.7	489.7	468.8	520.6	529.4	576.7	564.6	552.5	592.1	606.4
1293.1	75°	779.2	395.1	383.0	422.6	454.5	495.2	486.4	500.7	584.4	591.0
646.0	77.5°	493.0	307.1	299.3	324.7	368.7	413.8	428.1	591.0	998.2	1037.8
335.7	80°	286.1	228.9	220.1	239.9	278.4	320.3	412.7	725.3	658.1	650.4
150.8	82.5°	159.6	157.4	146.4	151.9	186.0	231.1	583.3	510.7	414.9	428.1
60.5	85°	74.8	92.4	79.2	75.9	104.6	270.7	389.6	291.6	193.7	189.3
13.2	87.5°	19.8	17.6	17.6	19.8	44.0	233.3	155.2	124.4	73.7	71.5
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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