

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: P949264

Luminaire Tested: **GALN-SB4A-827-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949264
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-SB4A-827-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15899 lumens
Efficiency: N/A
Efficacy: 139.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

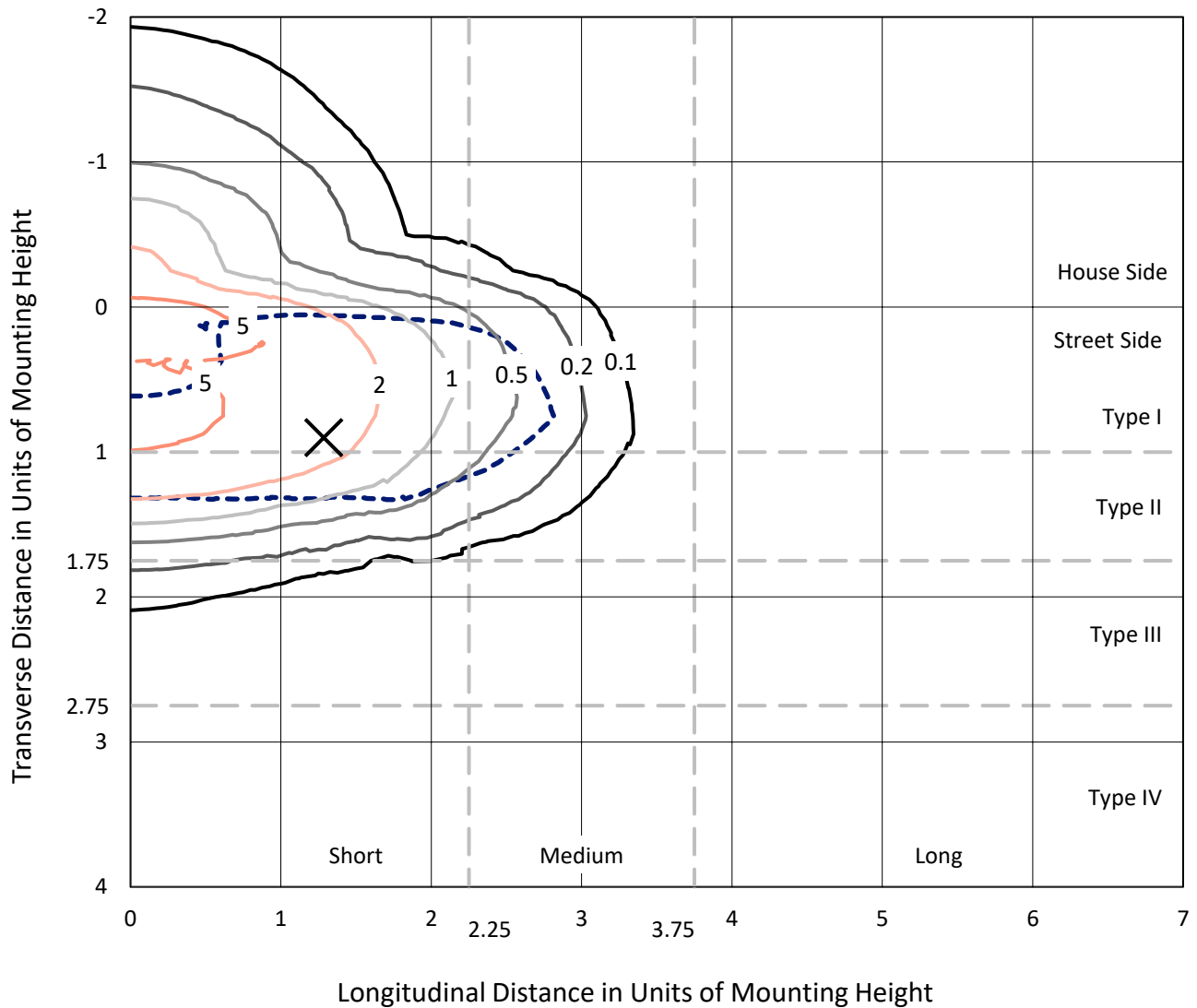
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P949264
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Iso-Footcandle Lines of Horizontal Illumination

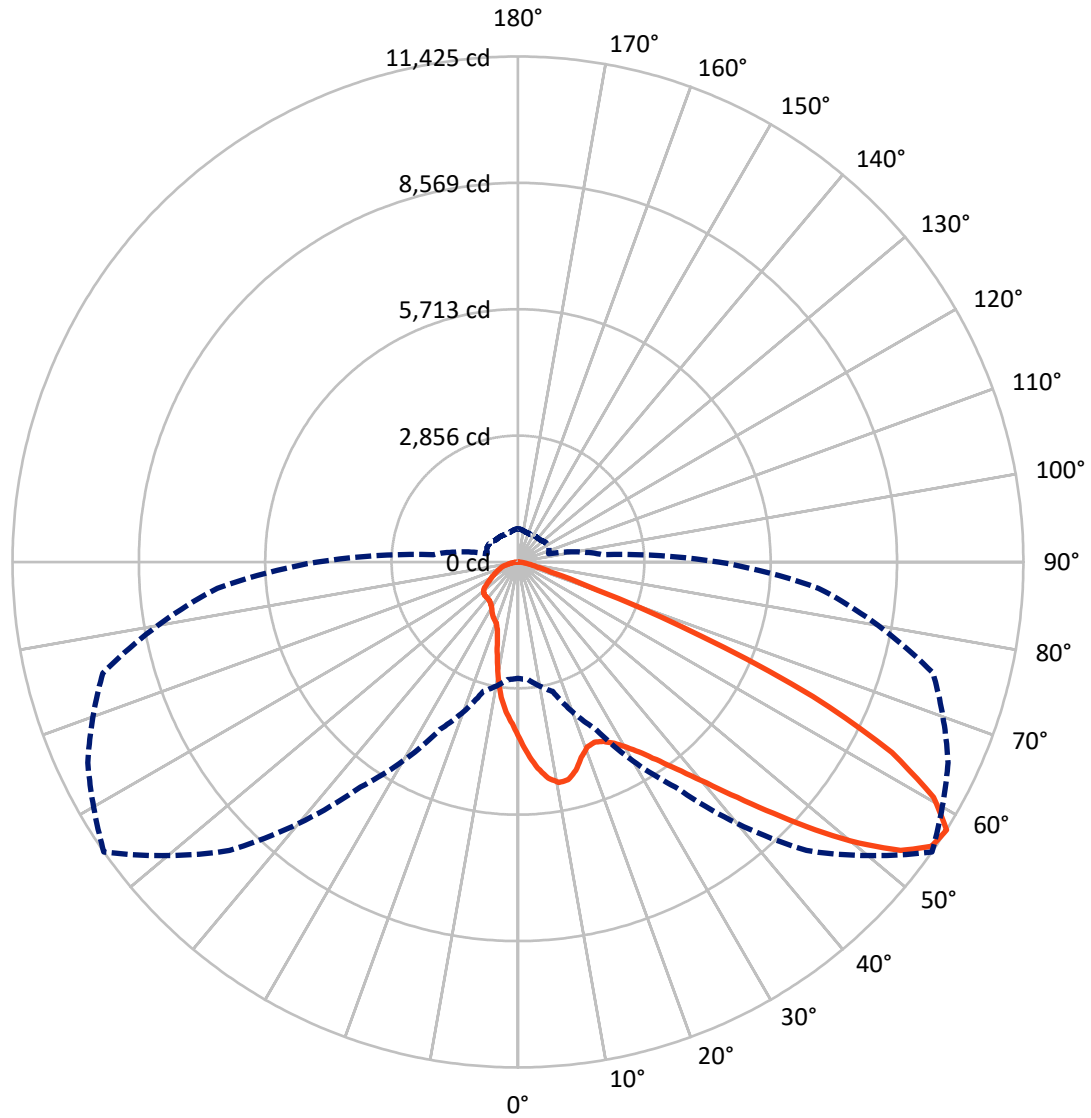
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type II - Short - N/A

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CATALOG NUMBER: GALN-SB4A-827-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	2876.8	0.0	2876.8
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	13022.1	0.0	13022.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	15899.0	0.0	15899.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.7	2.3
10°-20°	933.1	5.9
20°-30°	1488.9	9.4
30°-40°	2357.3	14.8
40°-50°	3608.1	22.7
50°-60°	3864.6	24.3
60°-70°	2431.2	15.3
70°-80°	719.0	4.5
80°-90°	127.1	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°	15899.0	100.0
0°-180°	15899.0	100.0

Coefficient of Utilization



REPORT NUMBER: P949264

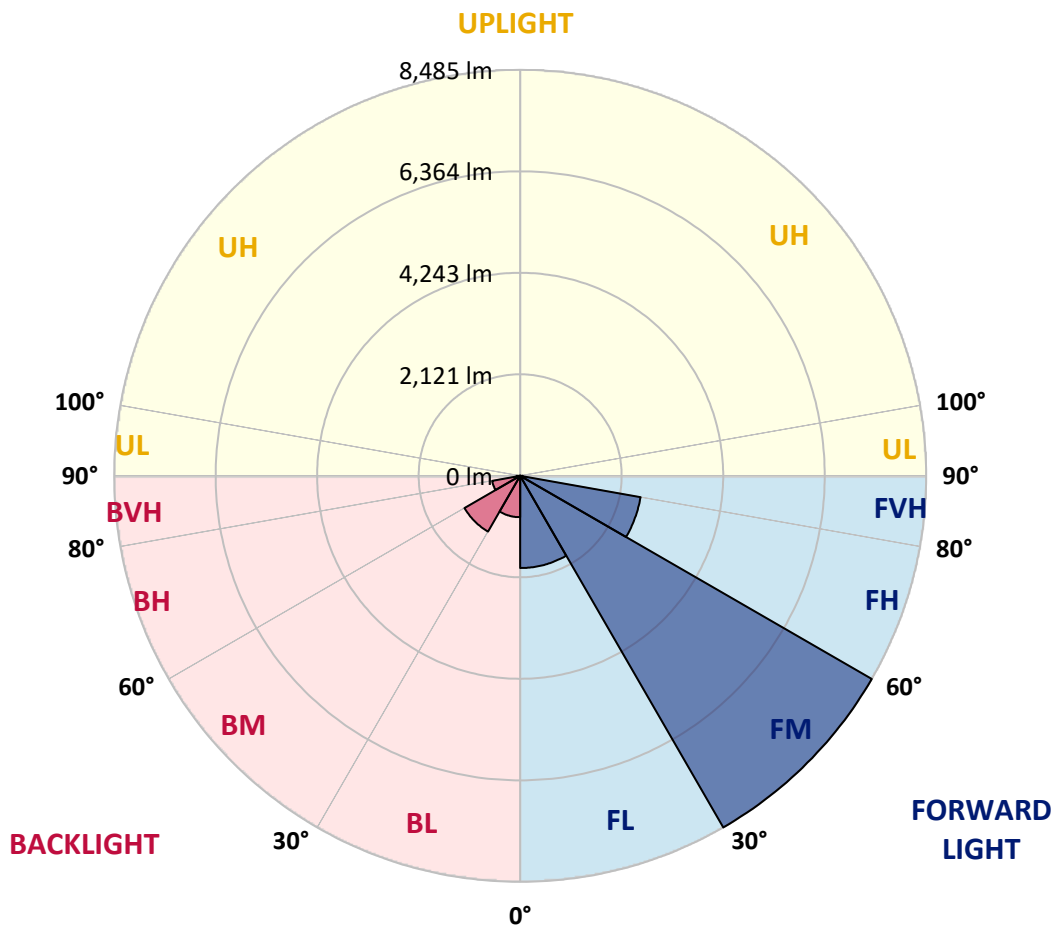
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1927.0	12.1			
FM (30°-60°)	8485.4	53.4			
FH (60°-80°)	2556.1	16.1			G2/5000
FVH (80°-90°)	53.7	0.3			G1/100
BL (0°-30°)	864.7	5.4	B2/1000		
BM (30°-60°)	1344.6	8.5	B2/2500		
BH (60°-80°)	594.1	3.7	B2/1000		G2/1000
BVH (80°-90°)	73.4	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



REPORT NUMBER: P949264

CATALOG NUMBER: GALN-SB4A-827-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3983.8	3983.8	3983.8	3983.8	3983.8	3983.8	3983.8	3983.8	3983.8	3983.8
2.5°	4570.6	4567.3	4585.4	4523.8	4481.8	4425.1	4350.3	4255.0	4152.3	4043.8
5°	4982.4	4953.6	4972.5	4926.5	4880.5	4795.0	4684.0	4528.7	4338.8	4122.7
7.5°	4917.5	4897.7	4946.2	4987.3	5021.8	5011.2	4929.8	4767.0	4522.1	4208.2
10°	4393.9	4371.7	4439.9	4582.1	4790.9	4972.5	5071.2	4970.1	4709.5	4301.9
12.5°	3932.0	3921.3	3966.5	4081.6	4313.4	4661.8	5053.1	5147.6	4904.3	4412.8
15°	3734.7	3721.6	3750.4	3808.7	3956.7	4281.3	4888.7	5269.2	5095.8	4541.0
17.5°	3691.2	3676.4	3688.7	3719.1	3814.5	4061.9	4640.5	5329.2	5295.5	4684.0
20°	3771.7	3759.4	3761.0	3759.4	3826.0	4022.4	4467.9	5306.2	5469.8	4815.5
22.5°	3966.5	3946.0	3946.8	3903.2	3939.4	4091.4	4422.7	5244.6	5625.1	4930.6
25°	4283.8	4246.8	4254.2	4143.2	4133.4	4246.0	4493.4	5196.9	5779.6	5022.7
27.5°	4717.7	4675.8	4653.6	4488.4	4409.5	4465.4	4637.2	5213.3	5925.9	5102.4
30°	5260.2	5209.2	5164.0	4929.8	4786.8	4766.2	4860.7	5321.8	6098.5	5186.2
32.5°	5925.1	5865.9	5783.7	5473.1	5271.7	5164.0	5150.1	5515.0	6300.7	5293.1
35°	6716.6	6639.3	6522.6	6120.7	5865.9	5645.7	5531.4	5793.6	6577.7	5454.2
37.5°	7531.9	7444.8	7338.0	6859.6	6546.5	6221.8	5996.6	6171.7	6946.7	5672.8
40°	8284.0	8186.2	8086.7	7661.0	7324.8	6933.6	6566.2	6650.0	7398.0	5934.2
42.5°	8727.8	8655.5	8617.7	8387.5	8127.8	7730.8	7274.7	7217.1	7905.1	6235.0
45°	8708.1	8678.5	8795.2	8890.5	8828.9	8608.6	8104.8	7844.3	8413.8	6495.5
47.5°	8242.9	8262.6	8523.2	9059.0	9294.9	9410.0	9050.0	8459.9	8856.0	6690.3
50°	6977.2	6993.6	7596.9	8752.5	9414.9	10063.4	9987.8	9060.7	9198.8	6809.5
52.5°	5975.2	5985.9	6244.8	7843.4	9018.8	10392.2	10832.7	9627.0	9449.4	6842.4
55°	4500.8	4537.7	4827.9	6153.6	7988.1	10131.6	11347.2	10210.5	9608.1	6845.6
57.5°	2629.3	2669.5	3027.9	4176.9	6208.7	9223.4	11425.3	10728.3	9715.7	6819.3
60°	1287.9	1305.2	1461.3	2195.3	3828.4	7473.6	10797.4	10979.0	9775.7	6805.4
62.5°	867.9	865.5	872.0	1083.3	1886.3	4801.6	9488.9	10540.1	9743.7	6751.9
65°	746.3	737.2	712.6	760.3	977.2	2196.1	7331.4	9230.0	9499.6	6618.0
67.5°	645.2	646.0	646.8	632.0	697.8	1013.4	4480.2	7270.6	8623.4	5983.5
70°	534.2	541.6	544.9	544.9	568.8	664.9	1912.6	4983.2	6802.1	4691.4
72.5°	486.6	471.0	472.6	464.4	464.4	506.3	770.1	2824.9	4285.4	2639.1
75°	397.0	406.8	408.5	402.7	383.8	386.3	457.0	1185.2	1833.7	1094.8
77.5°	342.7	342.7	346.0	341.9	327.1	289.3	304.9	459.4	623.8	448.8
80°	275.3	274.5	288.5	296.7	273.7	213.7	194.8	254.0	277.0	197.3
82.5°	134.0	142.2	198.1	226.0	207.9	154.5	119.2	157.8	147.9	87.1
85°	78.1	74.0	88.8	125.8	119.2	85.5	57.5	82.2	77.3	44.4
87.5°	24.7	23.0	18.1	42.7	34.5	23.8	15.6	23.8	21.4	9.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P949264
 CATALOG NUMBER: GALN-SB4A-827-U-AFL

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
3983.8	0°	3983.8	3983.8	3983.8	3983.8	3983.8	3983.8	3983.8	3983.8	3983.8	3983.8
3996.9	2.5°	3938.6	3841.6	3745.4	3657.5	3604.1	3569.5	3535.0	3496.4	3481.6	3459.4
4007.6	5°	3899.1	3711.7	3544.9	3401.0	3270.4	3167.6	3064.1	2980.2	2942.4	2967.9
4041.3	7.5°	3876.1	3604.9	3347.6	3083.8	2829.8	2626.8	2450.1	2326.0	2270.1	2284.1
4074.2	10°	3855.6	3484.1	3092.0	2675.3	2310.4	2058.9	1878.1	1783.5	1748.2	1755.6
4118.6	12.5°	3836.7	3348.4	2783.8	2235.6	1847.6	1681.6	1629.8	1630.7	1637.2	1642.2
4189.2	15°	3833.4	3184.9	2439.4	1850.9	1597.8	1587.1	1643.0	1678.3	1697.2	1703.0
4248.4	17.5°	3828.4	2989.3	2088.5	1588.7	1537.0	1609.3	1661.1	1684.1	1698.9	1699.7
4306.0	20°	3808.7	2741.1	1764.6	1463.8	1523.8	1586.3	1618.3	1636.4	1648.7	1652.9
4349.5	22.5°	3747.9	2464.9	1512.3	1407.9	1471.2	1521.3	1559.2	1579.7	1587.1	1592.0
4357.7	25°	3638.6	2155.9	1338.1	1354.5	1398.1	1461.3	1491.8	1495.9	1493.4	1500.8
4337.2	27.5°	3495.6	1824.6	1229.6	1282.2	1338.1	1392.3	1408.7	1406.3	1401.3	1409.6
4301.9	30°	3323.0	1527.1	1160.5	1200.8	1277.2	1326.6	1341.3	1335.6	1325.7	1334.8
4283.8	32.5°	3140.5	1283.8	1103.8	1144.1	1227.1	1275.6	1290.4	1284.6	1277.2	1284.6
4304.3	35°	2970.4	1113.7	1051.2	1106.3	1187.7	1235.3	1254.2	1255.0	1255.0	1264.1
4358.6	37.5°	2814.2	1014.2	1007.7	1082.4	1160.5	1203.3	1230.4	1232.0	1196.7	1199.2
4450.6	40°	2669.5	972.3	987.9	1066.8	1134.2	1175.3	1177.0	1084.9	1020.0	1018.3
4555.8	42.5°	2551.2	964.1	993.7	1065.2	1115.3	1117.0	1001.1	929.6	911.5	912.3
4652.8	45°	2440.2	961.6	1006.8	1065.2	1087.4	964.9	886.8	867.9	869.6	876.2
4696.4	47.5°	2316.1	951.8	1009.3	1050.4	1006.8	858.1	835.1	826.8	823.5	825.2
4686.5	50°	2180.5	916.4	978.1	1020.8	868.8	812.0	783.3	780.8	784.9	787.4
4631.4	52.5°	2037.5	858.9	924.6	967.4	805.5	771.8	739.7	745.5	763.5	769.3
4573.9	55°	1943.8	791.5	854.0	860.5	761.1	734.0	706.8	720.0	753.7	764.4
4539.4	57.5°	1919.1	720.0	773.4	766.0	704.4	701.1	684.6	696.2	738.9	754.5
4537.7	60°	1911.8	655.9	694.5	688.8	649.3	664.9	660.8	666.6	681.4	686.3
4521.3	62.5°	1854.2	604.9	623.8	615.6	600.0	627.1	637.0	624.6	636.2	641.9
4408.7	65°	1707.9	563.8	554.8	549.0	555.6	580.3	600.0	575.3	586.0	602.5
3974.7	67.5°	1466.3	507.9	483.3	489.9	510.4	523.6	549.0	521.1	530.1	558.1
3201.3	70°	1186.0	437.3	415.1	434.0	453.7	480.8	484.9	466.0	487.4	518.6
1953.7	72.5°	839.2	365.7	350.1	388.8	395.3	430.7	421.6	412.6	442.2	452.9
965.7	75°	581.9	295.1	286.0	315.6	339.4	369.9	363.3	374.0	436.4	441.4
482.5	77.5°	368.2	229.3	223.6	242.5	275.3	309.0	319.7	441.4	745.5	775.1
250.7	80°	213.7	171.0	164.4	179.2	207.9	239.2	308.2	541.6	491.5	485.7
112.6	82.5°	119.2	117.5	109.3	113.4	138.9	172.6	435.6	381.4	309.9	319.7
45.2	85°	55.9	69.0	59.2	56.7	78.1	202.2	291.0	217.8	144.7	141.4
9.9	87.5°	14.8	13.2	13.2	14.8	32.9	174.2	115.9	92.9	55.1	53.4
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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