

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: P950146

Luminaire Tested: **GALN-SB4C-940-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950146
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-SB4C-940-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22120 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

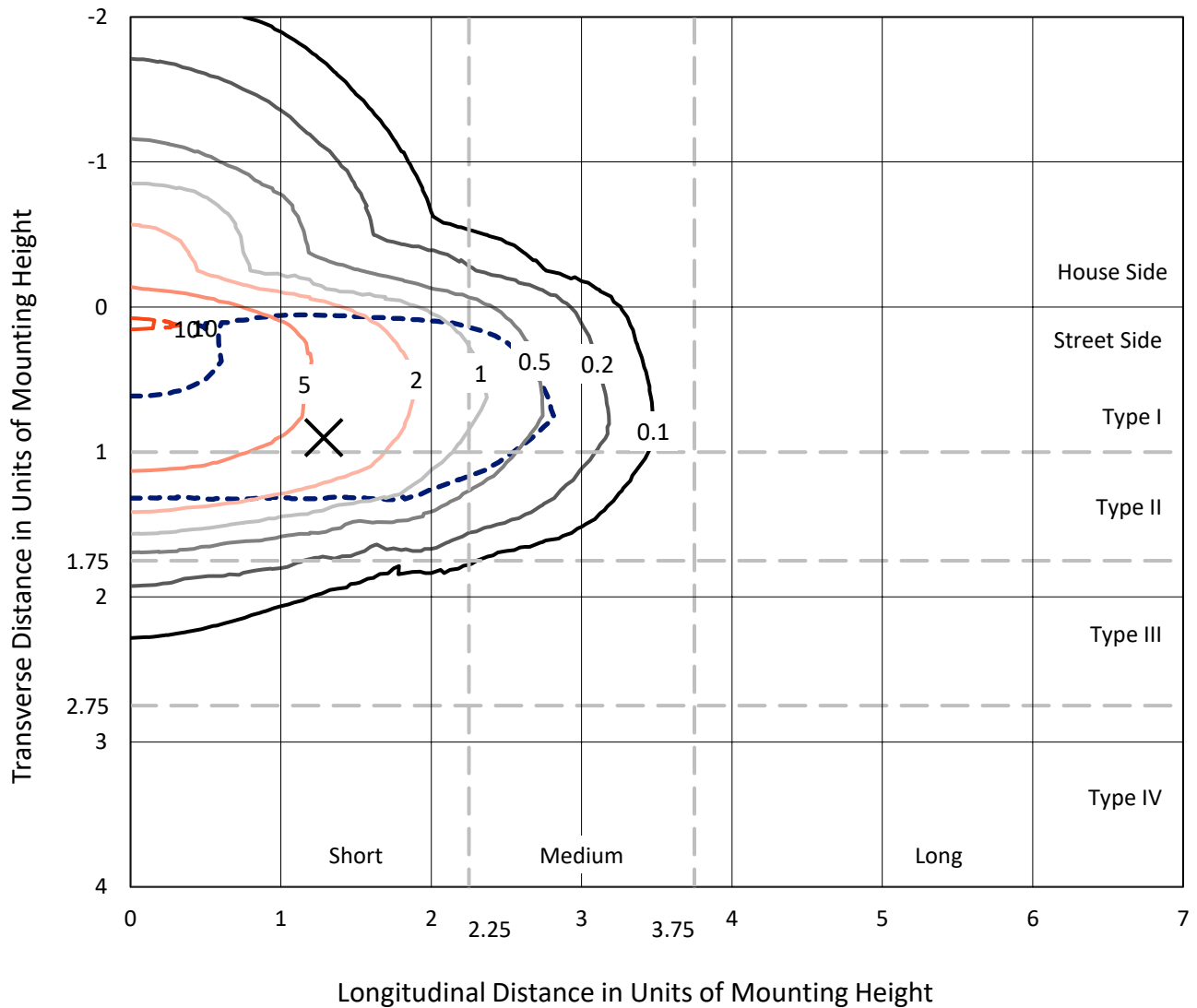
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

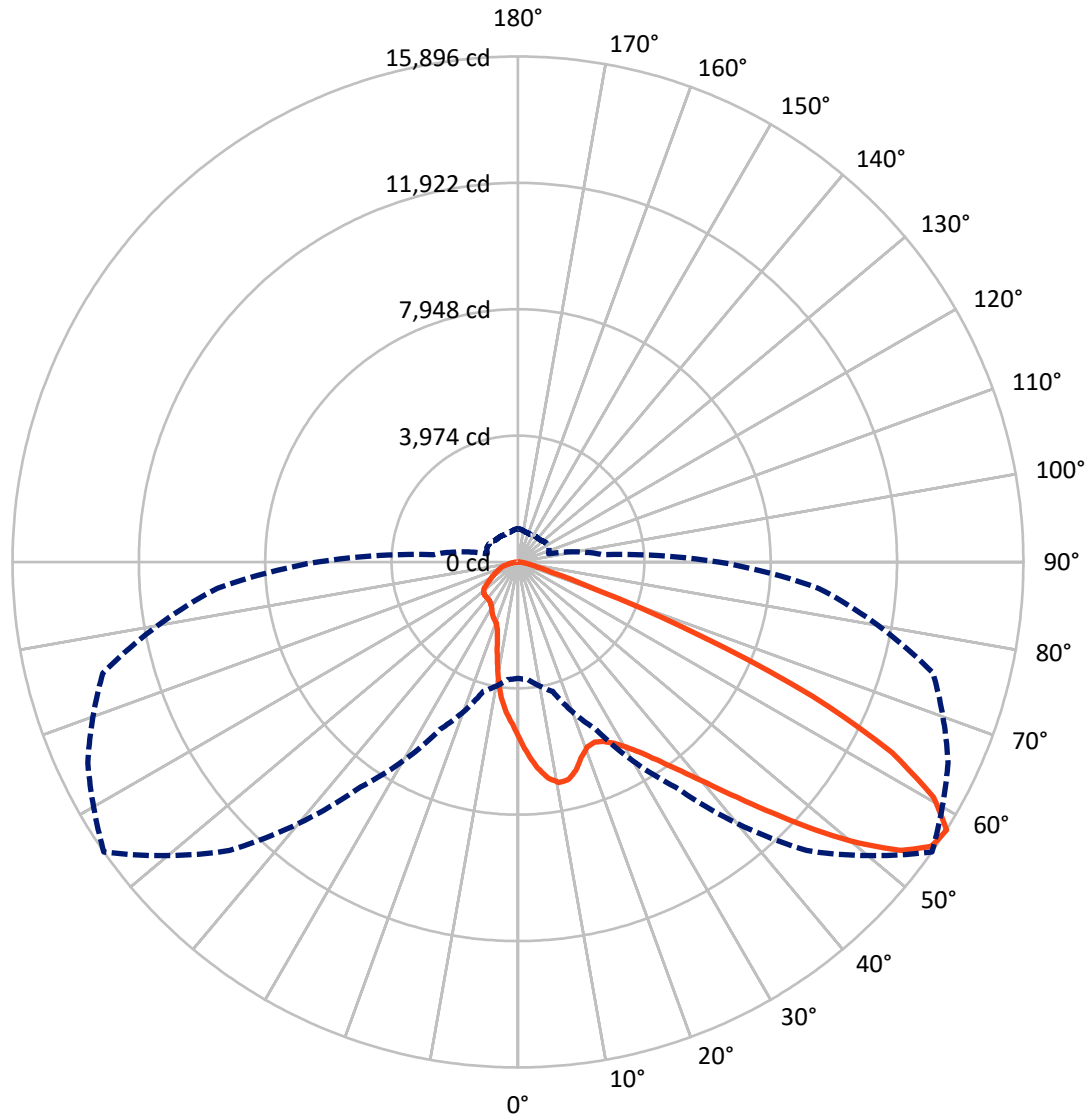
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 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	4002.5	0.0	4002.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	18117.5	0.0	18117.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	22120.0	0.0	22120.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	514.3	2.3
10°-20°	1298.2	5.9
20°-30°	2071.5	9.4
30°-40°	3279.7	14.8
40°-50°	5019.9	22.7
50°-60°	5376.8	24.3
60°-70°	3382.5	15.3
70°-80°	1000.3	4.5
80°-90°	176.9	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°	22120.0	100.0
0°-180°	22120.0	100.0

Coefficient of Utilization



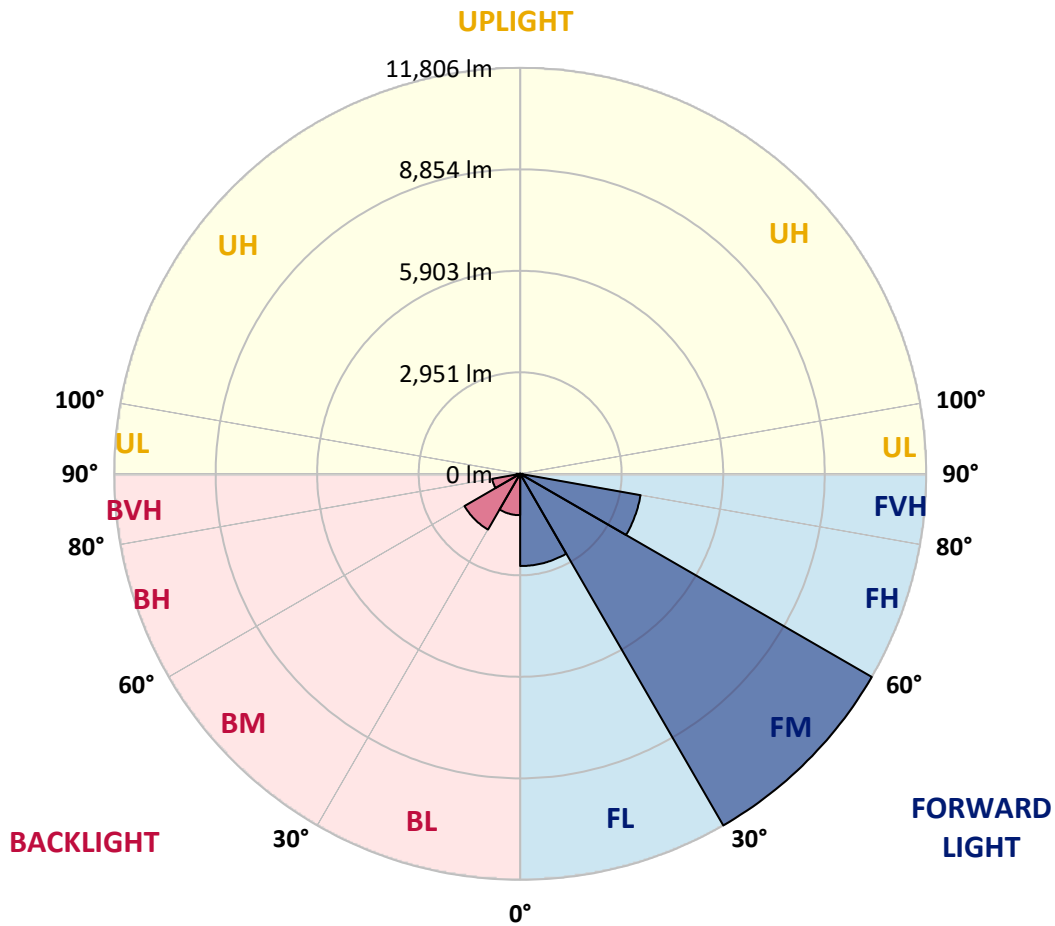
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2680.9	12.1			
FM (30°-60°)	11805.6	53.4			
FH (60°-80°)	3556.2	16.1			G2/5000
FVH (80°-90°)	74.7	0.3			G1/100
BL (0°-30°)	1203.0	5.4	B3/2500		
BM (30°-60°)	1870.7	8.5	B2/2500		
BH (60°-80°)	826.6	3.7	B2/1000		G2/1000
BVH (80°-90°)	102.1	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5542.6	5542.6	5542.6	5542.6	5542.6	5542.6	5542.6	5542.6	5542.6	5542.6
2.5°	6359.0	6354.4	6379.6	6293.8	6235.5	6156.6	6052.6	5919.9	5777.0	5626.0
5°	6931.9	6891.9	6918.2	6854.2	6790.1	6671.2	6516.8	6300.7	6036.5	5735.8
7.5°	6841.6	6814.1	6881.6	6938.8	6986.8	6971.9	6858.7	6632.3	6291.5	5854.7
10°	6113.2	6082.3	6177.2	6375.0	6665.5	6918.2	7055.4	6914.8	6552.3	5985.1
12.5°	5470.5	5455.6	5518.5	5678.6	6001.1	6485.9	7030.3	7161.8	6823.3	6139.5
15°	5196.1	5177.8	5217.8	5299.0	5504.8	5956.5	6801.5	7331.0	7089.7	6317.8
17.5°	5135.5	5114.9	5132.0	5174.3	5307.0	5651.2	6456.2	7414.5	7367.6	6516.8
20°	5247.5	5230.4	5232.7	5230.4	5323.0	5596.3	6216.1	7382.4	7610.0	6699.8
22.5°	5518.5	5490.0	5491.1	5430.5	5480.8	5692.4	6153.2	7296.7	7826.1	6859.9
25°	5959.9	5908.5	5918.8	5764.4	5750.7	5907.3	6251.5	7230.4	8041.1	6987.9
27.5°	6563.7	6505.4	6474.5	6244.7	6134.9	6212.6	6451.6	7253.2	8244.6	7098.9
30°	7318.4	7247.5	7184.6	6858.7	6659.8	6631.2	6762.7	7404.2	8484.8	7215.5
32.5°	8243.5	8161.2	8046.8	7614.6	7334.4	7184.6	7165.2	7672.9	8766.1	7364.2
35°	9344.7	9237.2	9074.8	8515.7	8161.2	7854.7	7695.8	8060.5	9151.4	7588.3
37.5°	10479.1	10357.8	10209.2	9543.7	9108.0	8656.3	8343.0	8586.6	9664.9	7892.5
40°	11525.4	11389.3	11250.9	10658.6	10190.9	9646.6	9135.4	9252.1	10292.7	8256.1
42.5°	12142.8	12042.2	11989.6	11669.4	11308.1	10755.8	10121.1	10041.1	10998.2	8674.6
45°	12115.4	12074.2	12236.6	12369.3	12283.5	11977.0	11276.1	10913.6	11706.0	9037.1
47.5°	11468.2	11495.6	11858.1	12603.7	12931.9	13092.0	12591.1	11770.1	12321.2	9308.1
50°	9707.2	9730.1	10569.4	12177.2	13098.8	14001.0	13895.8	12606.0	12798.1	9473.9
52.5°	8313.3	8328.1	8688.3	10912.4	12547.6	14458.4	15071.4	13393.8	13146.8	9519.7
55°	6261.8	6313.3	6716.9	8561.4	11113.7	14095.9	15787.2	14205.7	13367.5	9524.2
57.5°	3658.1	3714.1	4212.7	5811.3	8638.0	12832.4	15895.8	14926.1	13517.3	9487.6
60°	1791.9	1815.9	2033.1	3054.3	5326.4	10397.9	15022.2	15274.9	13600.8	9468.2
62.5°	1207.5	1204.1	1213.3	1507.1	2624.3	6680.3	13201.7	14664.3	13556.2	9393.9
65°	1038.3	1025.7	991.4	1057.7	1359.6	3055.4	10200.0	12841.5	13216.6	9207.5
67.5°	897.6	898.8	899.9	879.4	970.8	1409.9	6233.2	10115.4	11997.6	8324.7
70°	743.3	753.6	758.1	758.1	791.3	925.1	2660.9	6933.1	9463.6	6527.1
72.5°	677.0	655.2	657.5	646.1	646.1	704.4	1071.5	3930.2	5962.2	3671.8
75°	552.3	566.0	568.3	560.3	534.0	537.4	635.8	1648.9	2551.2	1523.1
77.5°	476.8	476.8	481.4	475.7	455.1	402.5	424.2	639.2	867.9	624.4
80°	383.1	381.9	401.4	412.8	380.8	297.3	271.0	353.3	385.4	274.4
82.5°	186.4	197.8	275.6	314.5	289.3	215.0	165.8	219.6	205.8	121.2
85°	108.6	102.9	123.5	175.0	165.8	118.9	80.0	114.4	107.5	61.7
87.5°	34.3	32.0	25.2	59.5	48.0	33.2	21.7	33.2	29.7	13.7
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°
5542.6	0°	5542.6	5542.6	5542.6	5542.6	5542.6	5542.6	5542.6	5542.6	5542.6	5542.6
5560.9	2.5°	5479.7	5344.7	5210.9	5088.6	5014.3	4966.2	4918.2	4864.5	4843.9	4813.0
5575.7	5°	5424.8	5164.1	4931.9	4731.8	4550.0	4407.1	4263.0	4146.3	4093.7	4129.2
5622.6	7.5°	5392.8	5015.4	4657.5	4290.4	3937.1	3654.6	3408.8	3236.1	3158.4	3177.8
5668.3	10°	5364.2	4847.3	4301.9	3722.1	3214.4	2864.5	2612.9	2481.4	2432.2	2442.5
5730.1	12.5°	5337.9	4658.6	3873.0	3110.3	2570.6	2339.6	2267.6	2268.7	2277.9	2284.7
5828.4	15°	5333.3	4431.1	3393.9	2575.2	2223.0	2208.1	2285.9	2335.0	2361.3	2369.3
5910.8	17.5°	5326.4	4158.9	2905.6	2210.4	2138.3	2239.0	2311.0	2343.0	2363.6	2364.8
5990.8	20°	5299.0	3813.6	2455.1	2036.6	2120.1	2207.0	2251.6	2276.7	2293.9	2299.6
6051.4	22.5°	5214.4	3429.4	2104.0	1958.8	2046.9	2116.6	2169.2	2197.8	2208.1	2215.0
6062.8	25°	5062.3	2999.4	1861.6	1884.5	1945.1	2033.1	2075.5	2081.2	2077.7	2088.0
6034.3	27.5°	4863.3	2538.6	1710.7	1783.9	1861.6	1937.1	1960.0	1956.5	1949.7	1961.1
5985.1	30°	4623.2	2124.6	1614.6	1670.7	1777.0	1845.6	1866.2	1858.2	1844.5	1857.0
5959.9	32.5°	4369.3	1786.2	1535.7	1591.8	1707.2	1774.7	1795.3	1787.3	1777.0	1787.3
5988.5	35°	4132.6	1549.4	1462.5	1539.2	1652.4	1718.7	1745.0	1746.1	1746.1	1758.7
6064.0	37.5°	3915.4	1411.1	1401.9	1506.0	1614.6	1674.1	1711.8	1714.1	1664.9	1668.4
6192.1	40°	3714.1	1352.8	1374.5	1484.3	1578.0	1635.2	1637.5	1509.4	1419.1	1416.8
6338.4	42.5°	3549.4	1341.3	1382.5	1482.0	1551.7	1554.0	1392.8	1293.3	1268.1	1269.3
6473.4	45°	3395.1	1337.9	1400.8	1482.0	1512.9	1342.5	1233.8	1207.5	1209.8	1219.0
6534.0	47.5°	3222.4	1324.2	1404.2	1461.4	1400.8	1193.8	1161.8	1150.4	1145.8	1148.1
6520.2	50°	3033.7	1275.0	1360.8	1420.2	1208.7	1129.8	1089.8	1086.3	1092.0	1095.5
6443.6	52.5°	2834.7	1195.0	1286.4	1345.9	1120.6	1073.7	1029.2	1037.2	1062.3	1070.3
6363.6	55°	2704.4	1101.2	1188.1	1197.2	1058.9	1021.1	983.4	1001.7	1048.6	1063.5
6315.6	57.5°	2670.1	1001.7	1076.0	1065.7	980.0	975.4	952.5	968.5	1028.0	1049.7
6313.3	60°	2659.8	912.5	966.3	958.3	903.4	925.1	919.4	927.4	948.0	954.8
6290.4	62.5°	2579.7	841.6	867.9	856.5	834.8	872.5	886.2	869.1	885.1	893.1
6133.7	65°	2376.2	784.4	771.9	763.9	773.0	807.3	834.8	800.5	815.3	838.2
5530.0	67.5°	2040.0	706.7	672.4	681.5	710.1	728.4	763.9	725.0	737.6	776.4
4453.9	70°	1650.1	608.3	577.5	603.8	631.2	668.9	674.7	648.4	678.1	721.5
2718.1	72.5°	1167.5	508.9	487.1	540.9	550.0	599.2	586.6	574.0	615.2	630.1
1343.6	75°	809.6	410.5	397.9	439.1	472.3	514.6	505.4	520.3	607.2	614.1
671.2	77.5°	512.3	319.0	311.0	337.3	383.1	430.0	444.8	614.1	1037.2	1078.3
348.8	80°	297.3	237.8	228.7	249.3	289.3	332.8	428.8	753.6	683.8	675.8
156.7	82.5°	165.8	163.5	152.1	157.8	193.3	240.1	606.1	530.6	431.1	444.8
62.9	85°	77.8	96.1	82.3	78.9	108.6	281.3	404.8	303.0	201.3	196.7
13.7	87.5°	20.6	18.3	18.3	20.6	45.7	242.4	161.2	129.2	76.6	74.3
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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