

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: P949810

Luminaire Tested: **GALN-SB4B-950-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949810
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-950-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15967 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

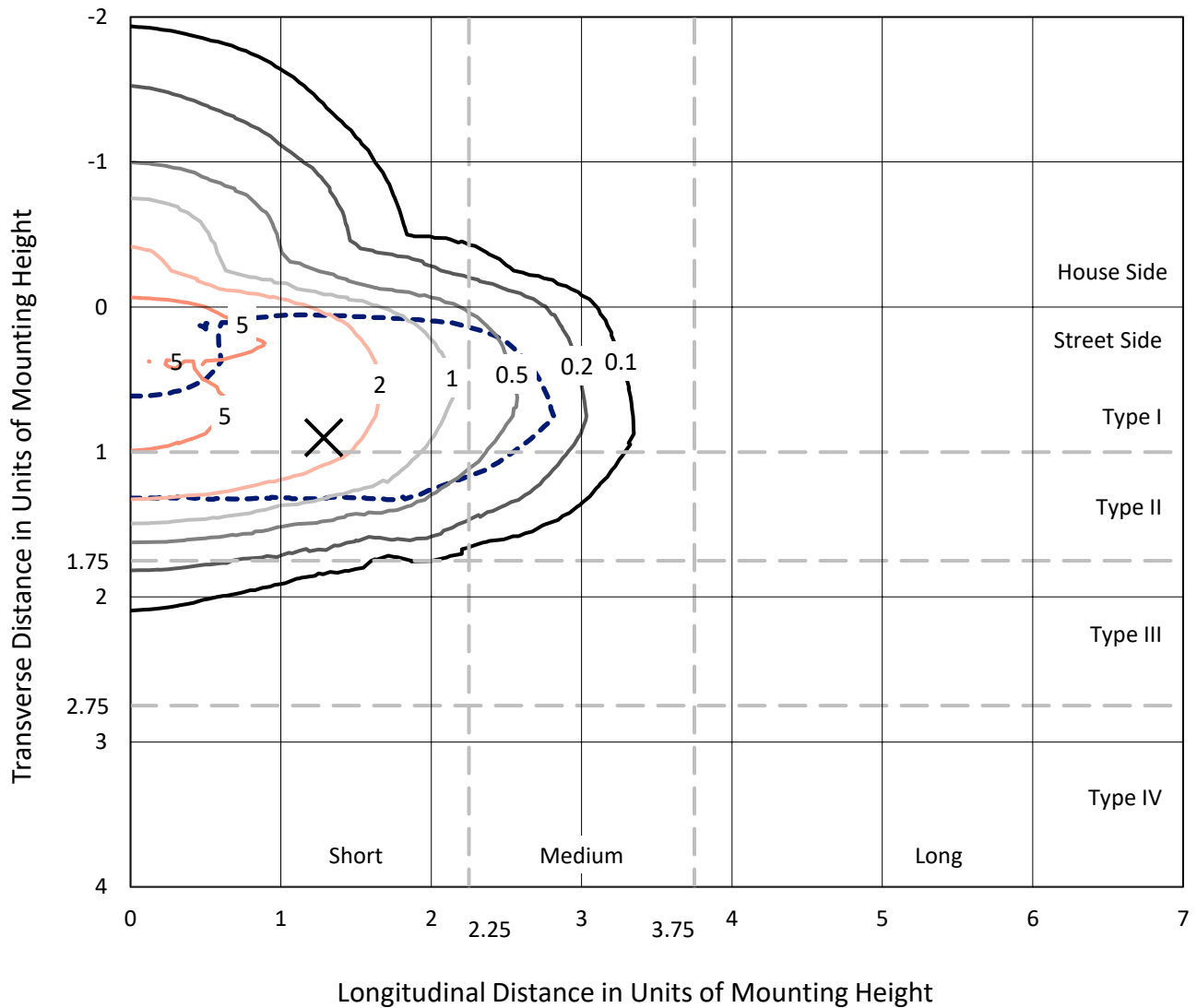
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

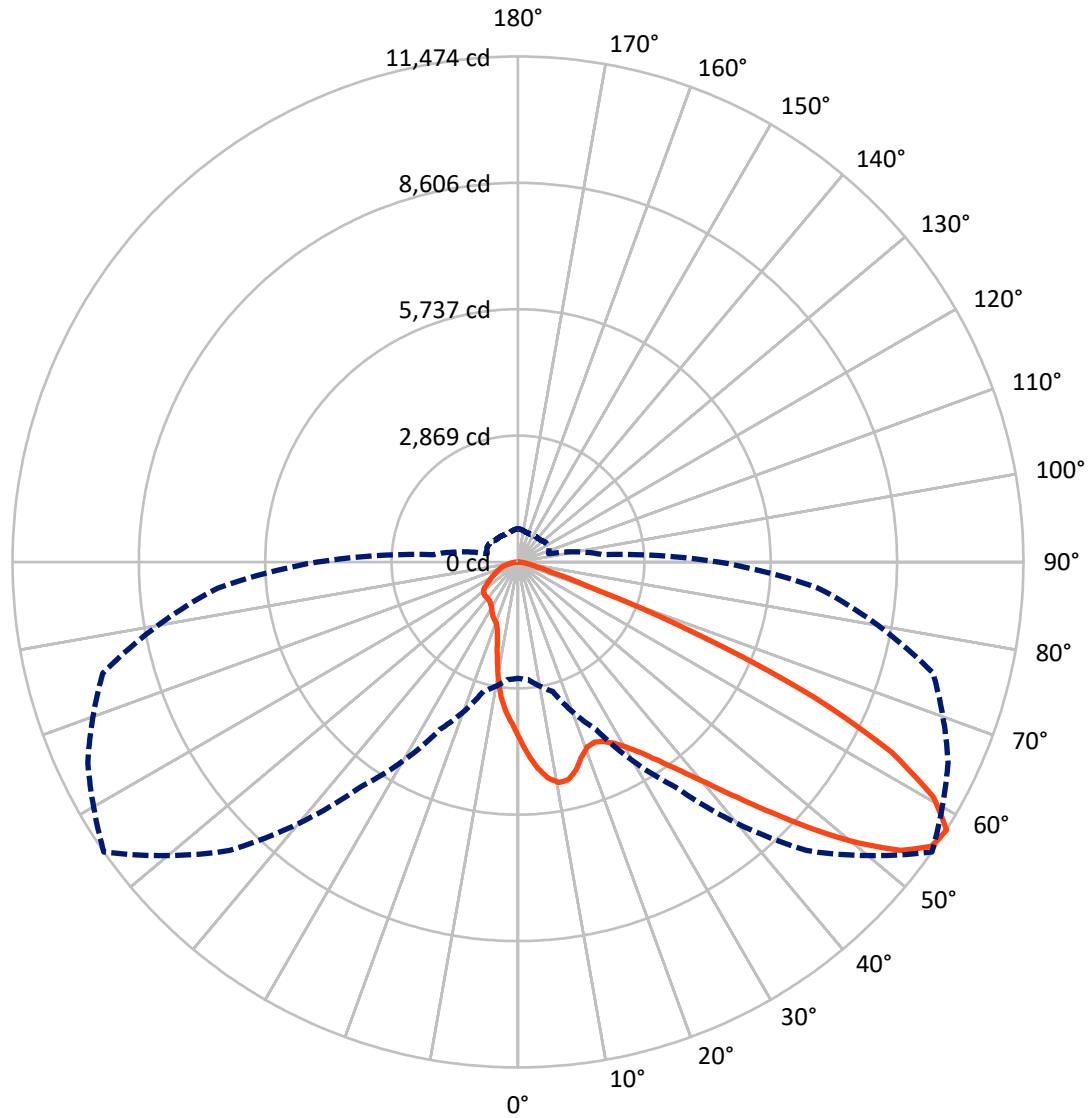
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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	2889.1	0.0	2889.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	13077.9	0.0	13077.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	15967.0	0.0	15967.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.2	2.3
10°-20°	937.1	5.9
20°-30°	1495.3	9.4
30°-40°	2367.4	14.8
40°-50°	3623.5	22.7
50°-60°	3881.1	24.3
60°-70°	2441.6	15.3
70°-80°	722.0	4.5
80°-90°	127.7	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°	15967.0	100.0
0°-180°	15967.0	100.0

Coefficient of Utilization



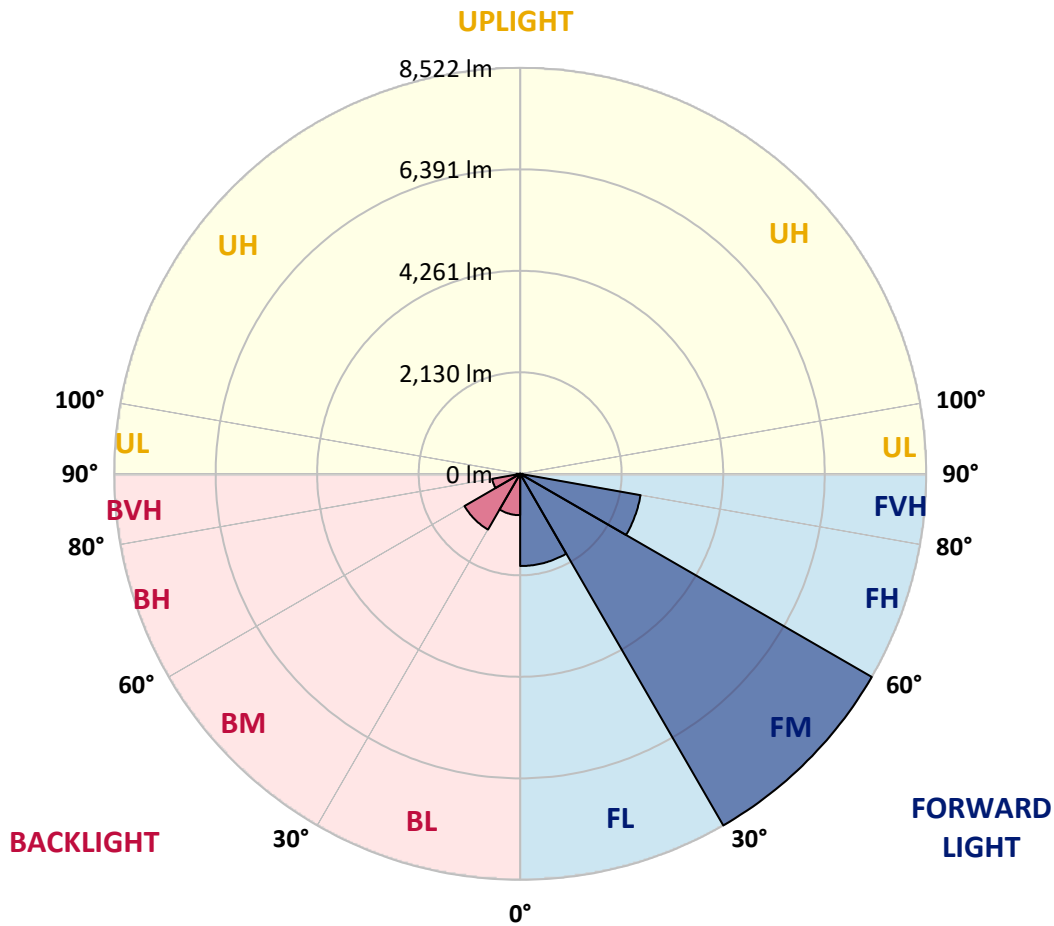
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1935.2	12.1			
FM (30°-60°)	8521.7	53.4			
FH (60°-80°)	2567.0	16.1			G2/5000
FVH (80°-90°)	53.9	0.3			G1/100
BL (0°-30°)	868.4	5.4	B2/1000		
BM (30°-60°)	1350.4	8.5	B2/2500		
BH (60°-80°)	596.7	3.7	B2/1000		G2/1000
BVH (80°-90°)	73.7	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4000.8	4000.8	4000.8	4000.8	4000.8	4000.8	4000.8	4000.8	4000.8	4000.8
2.5°	4590.2	4586.9	4605.0	4543.1	4501.0	4444.1	4368.9	4273.2	4170.0	4061.1
5°	5003.7	4974.8	4993.8	4947.6	4901.3	4815.5	4704.1	4548.1	4357.4	4140.3
7.5°	4938.5	4918.7	4967.4	5008.7	5043.3	5032.6	4950.9	4787.4	4541.5	4226.2
10°	4412.7	4390.4	4458.9	4601.7	4811.4	4993.8	5092.8	4991.3	4729.7	4320.2
12.5°	3948.8	3938.1	3983.5	4099.0	4331.8	4681.8	5074.7	5169.6	4925.3	4431.7
15°	3750.7	3737.5	3766.4	3825.0	3973.6	4299.6	4909.6	5291.8	5117.6	4560.4
17.5°	3707.0	3692.1	3704.5	3735.0	3830.8	4079.2	4660.3	5352.0	5318.2	4704.1
20°	3787.9	3775.5	3777.1	3775.5	3842.3	4039.6	4487.0	5328.9	5493.2	4836.1
22.5°	3983.5	3962.8	3963.7	3919.9	3956.2	4108.9	4441.6	5267.0	5649.2	4951.7
25°	4302.1	4264.9	4272.4	4160.9	4151.0	4264.1	4512.6	5219.1	5804.4	5044.1
27.5°	4737.9	4695.8	4673.5	4507.6	4428.4	4484.5	4657.0	5235.6	5951.3	5124.2
30°	5282.7	5231.5	5186.1	4950.9	4807.2	4786.6	4881.5	5344.6	6124.6	5208.4
32.5°	5950.5	5891.0	5808.5	5496.5	5294.2	5186.1	5172.1	5538.6	6327.7	5315.7
35°	6745.3	6667.7	6550.5	6146.9	5891.0	5669.8	5555.1	5818.4	6605.8	5477.5
37.5°	7564.2	7476.7	7369.4	6889.0	6574.5	6248.4	6022.3	6198.1	6976.5	5697.1
40°	8319.4	8221.2	8121.3	7693.7	7356.1	6963.2	6594.3	6678.5	7429.6	5959.5
42.5°	8765.1	8692.5	8654.5	8423.4	8162.6	7763.9	7305.8	7248.0	7938.9	6261.6
45°	8745.3	8715.6	8832.8	8928.6	8866.7	8645.5	8139.5	7877.8	8449.8	6523.3
47.5°	8278.1	8297.9	8559.6	9097.8	9334.7	9450.2	9088.7	8496.1	8893.9	6718.9
50°	7007.0	7023.5	7629.4	8789.9	9455.2	10106.4	10030.5	9099.4	9238.1	6838.6
52.5°	6000.8	6011.5	6271.5	7877.0	9057.3	10436.6	10879.0	9668.1	9489.9	6871.6
55°	4520.0	4557.1	4848.5	6179.9	8022.3	10175.0	11395.8	10254.2	9649.2	6874.9
57.5°	2640.5	2681.0	3040.8	4194.8	6235.2	9262.9	11474.2	10774.2	9757.3	6848.5
60°	1293.4	1310.8	1467.6	2204.7	3844.8	7505.5	10843.5	11026.0	9817.5	6834.5
62.5°	871.6	869.2	875.8	1087.9	1894.3	4822.1	9529.5	10585.2	9785.4	6780.8
65°	749.5	740.4	715.6	763.5	981.4	2205.5	7362.7	9269.5	9540.2	6646.3
67.5°	648.0	648.8	649.6	634.7	700.8	1017.7	4499.4	7301.7	8660.3	6009.1
70°	536.5	544.0	547.3	547.3	571.2	667.8	1920.8	5004.5	6831.2	4711.5
72.5°	488.6	473.0	474.6	466.4	466.4	508.5	773.4	2837.0	4303.7	2650.4
75°	398.7	408.6	410.2	404.5	385.5	387.9	458.9	1190.3	1841.5	1099.5
77.5°	344.2	344.2	347.5	343.4	328.5	290.5	306.2	461.4	626.5	450.7
80°	276.5	275.7	289.7	298.0	274.9	214.6	195.6	255.1	278.2	198.1
82.5°	134.5	142.8	198.9	227.0	208.8	155.2	119.7	158.5	148.6	87.5
85°	78.4	74.3	89.1	126.3	119.7	85.8	57.8	82.5	77.6	44.6
87.5°	24.8	23.1	18.2	42.9	34.7	23.9	15.7	23.9	21.5	9.9
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°
4000.8	0°	4000.8	4000.8	4000.8	4000.8	4000.8	4000.8	4000.8	4000.8	4000.8	4000.8
4014.0	2.5°	3955.4	3858.0	3761.4	3673.1	3619.5	3584.8	3550.1	3511.3	3496.5	3474.2
4024.7	5°	3915.8	3727.6	3560.0	3415.6	3284.3	3181.2	3077.2	2993.0	2955.0	2980.6
4058.6	7.5°	3892.7	3620.3	3361.9	3097.0	2841.9	2638.0	2460.6	2335.9	2279.8	2293.8
4091.6	10°	3872.0	3499.0	3105.2	2686.7	2320.3	2067.7	1886.1	1791.2	1755.7	1763.1
4136.2	12.5°	3853.1	3362.8	2795.7	2245.1	1855.5	1688.8	1636.8	1637.6	1644.2	1649.2
4207.2	15°	3849.8	3198.5	2449.8	1858.8	1604.6	1593.9	1650.0	1685.5	1704.5	1710.3
4266.6	17.5°	3844.8	3002.1	2097.4	1595.5	1543.5	1616.2	1668.2	1691.3	1706.1	1707.0
4324.4	20°	3825.0	2752.8	1772.2	1470.1	1530.3	1593.1	1625.3	1643.4	1655.8	1659.9
4368.1	22.5°	3763.9	2475.4	1518.8	1413.9	1477.5	1527.9	1565.8	1586.5	1593.9	1598.8
4376.4	25°	3654.1	2165.1	1343.8	1360.3	1404.0	1467.6	1498.1	1502.3	1499.8	1507.2
4355.7	27.5°	3510.5	1832.4	1234.8	1287.7	1343.8	1398.3	1414.8	1412.3	1407.3	1415.6
4320.2	30°	3337.2	1533.6	1165.5	1205.9	1282.7	1332.2	1347.1	1341.3	1331.4	1340.5
4302.1	32.5°	3153.9	1289.3	1108.5	1149.0	1232.4	1281.1	1295.9	1290.1	1282.7	1290.1
4322.7	35°	2983.1	1118.4	1055.7	1111.0	1192.7	1240.6	1259.6	1260.4	1260.4	1269.5
4377.2	37.5°	2826.2	1018.6	1012.0	1087.1	1165.5	1208.4	1235.7	1237.3	1201.8	1204.3
4469.7	40°	2681.0	976.5	992.2	1071.4	1139.1	1180.4	1182.0	1089.6	1024.3	1022.7
4575.3	42.5°	2562.1	968.2	997.9	1069.7	1120.1	1121.7	1005.4	933.6	915.4	916.2
4672.7	45°	2450.7	965.7	1011.1	1069.7	1092.0	969.0	890.6	871.6	873.3	879.9
4716.5	47.5°	2326.0	955.8	1013.6	1054.9	1011.1	861.7	838.6	830.4	827.1	828.7
4706.5	50°	2189.8	920.3	982.3	1025.2	872.5	815.5	786.6	784.1	788.3	790.8
4651.2	52.5°	2046.2	862.6	928.6	971.5	808.9	775.1	742.9	748.7	766.8	772.6
4593.5	55°	1952.1	794.9	857.6	864.2	764.3	737.1	709.9	723.1	756.9	767.6
4558.8	57.5°	1927.4	723.1	776.7	769.3	707.4	704.1	687.6	699.1	742.1	757.7
4557.1	60°	1919.9	658.7	697.5	691.7	652.1	667.8	663.6	669.4	684.3	689.2
4540.6	62.5°	1862.1	607.5	626.5	618.2	602.6	629.8	639.7	627.3	638.9	644.7
4427.6	65°	1715.2	566.2	557.2	551.4	558.0	582.7	602.6	577.8	588.5	605.0
3991.7	67.5°	1472.5	510.1	485.3	492.0	512.6	525.8	551.4	523.3	532.4	560.5
3215.0	70°	1191.1	439.1	416.8	435.8	455.6	482.9	487.0	468.0	489.5	520.8
1962.0	72.5°	842.8	367.3	351.6	390.4	397.0	432.5	423.4	414.4	444.1	454.8
969.9	75°	584.4	296.3	287.2	317.0	340.9	371.4	364.8	375.6	438.3	443.3
484.5	77.5°	369.8	230.3	224.5	243.5	276.5	310.4	321.1	443.3	748.7	778.4
251.8	80°	214.6	171.7	165.1	179.9	208.8	240.2	309.5	544.0	493.6	487.8
113.1	82.5°	119.7	118.0	109.8	113.9	139.5	173.3	437.5	383.0	311.2	321.1
45.4	85°	56.1	69.3	59.4	57.0	78.4	203.1	292.2	218.7	145.3	142.0
9.9	87.5°	14.9	13.2	13.2	14.9	33.0	175.0	116.4	93.3	55.3	53.7
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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