

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: P953716

Luminaire Tested: **GALN-SB7A-940-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953716
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-SB7A-940-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23510 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

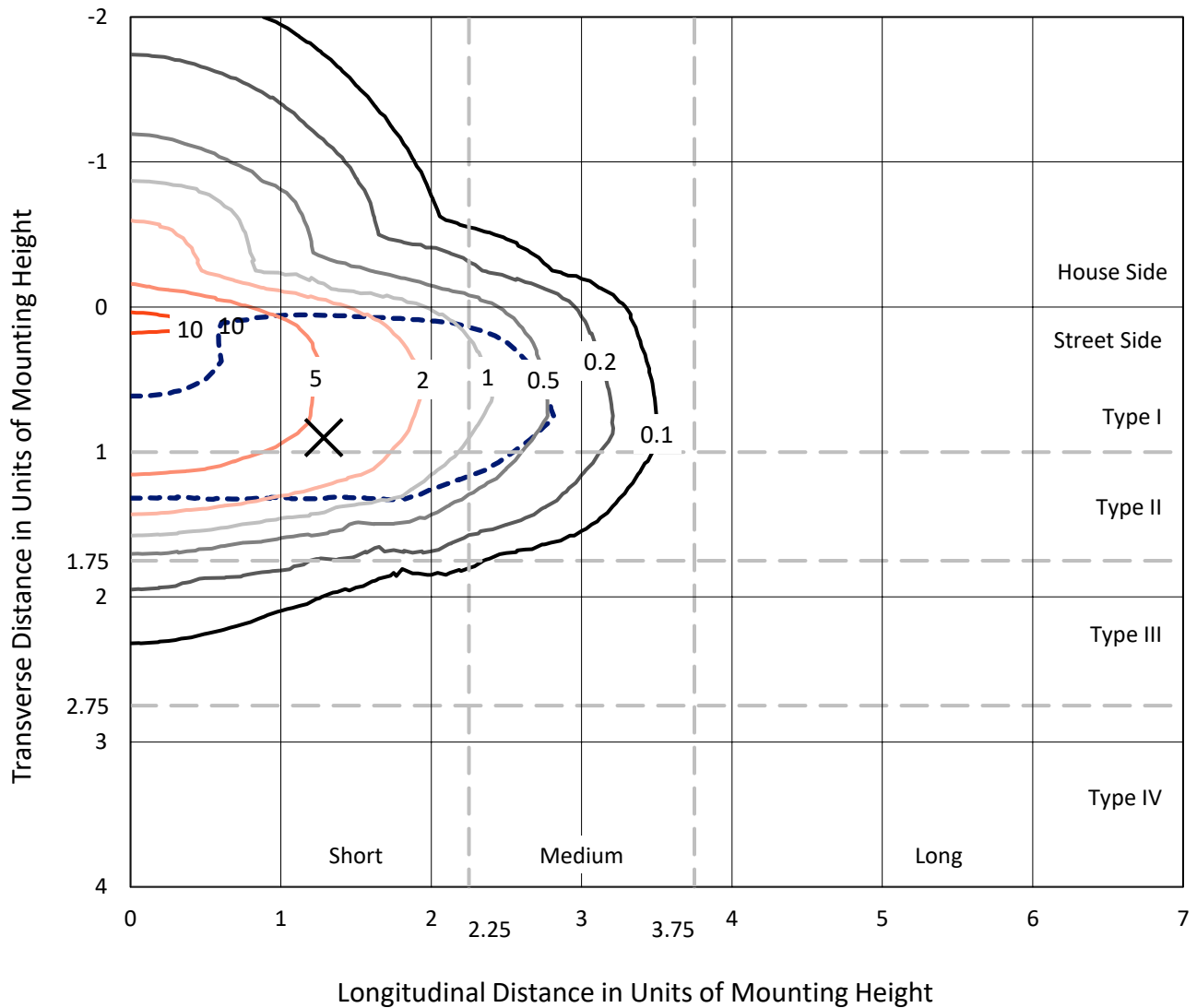
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

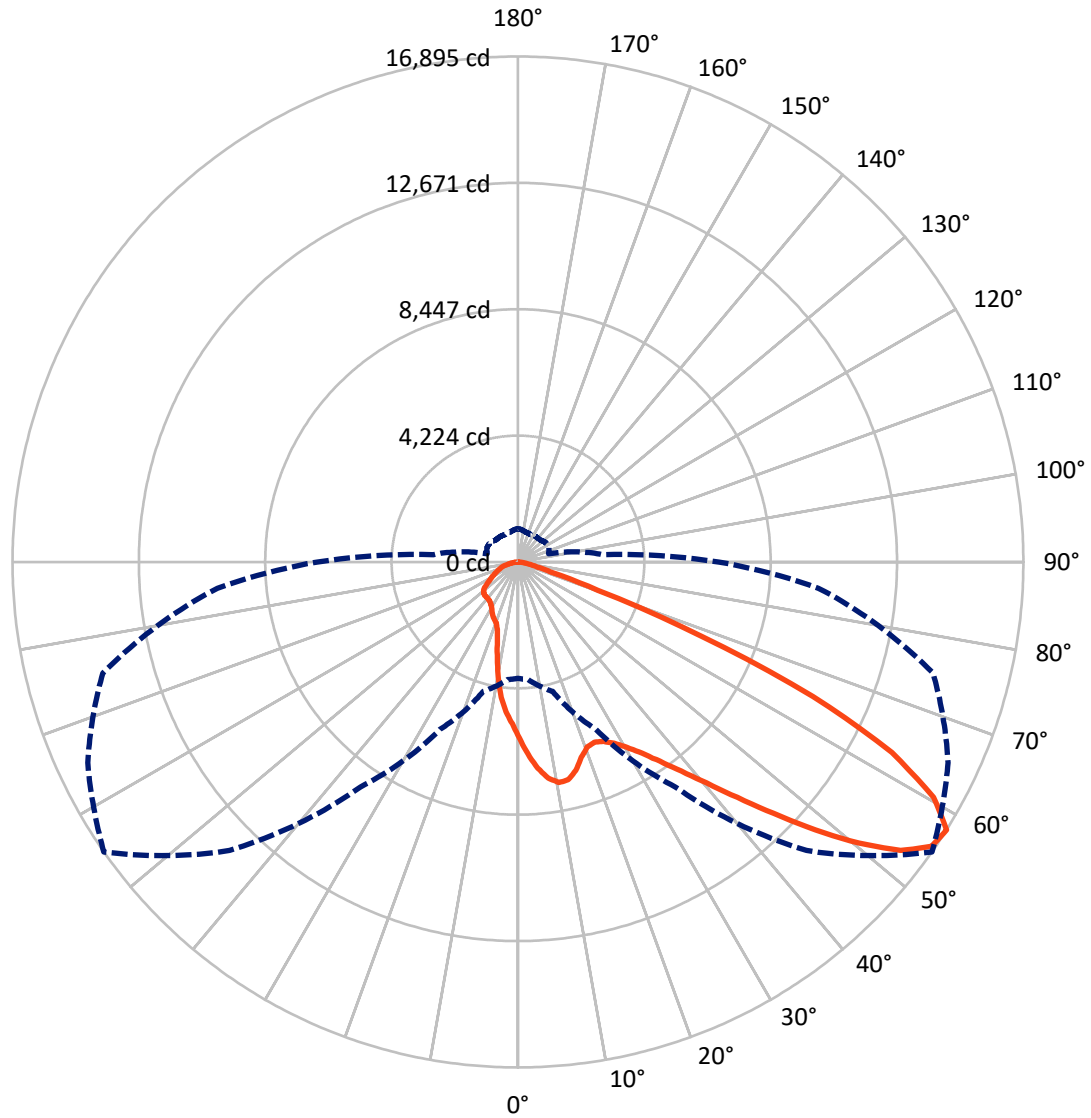
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 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	4254.0	0.0	4254.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	19256.0	0.0	19256.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	23510.0	0.0	23510.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	546.6	2.3
10°-20°	1379.7	5.9
20°-30°	2201.7	9.4
30°-40°	3485.8	14.8
40°-50°	5335.3	22.7
50°-60°	5714.6	24.3
60°-70°	3595.1	15.3
70°-80°	1063.1	4.5
80°-90°	188.0	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°	23510.0	100.0
0°-180°	23510.0	100.0

Coefficient of Utilization



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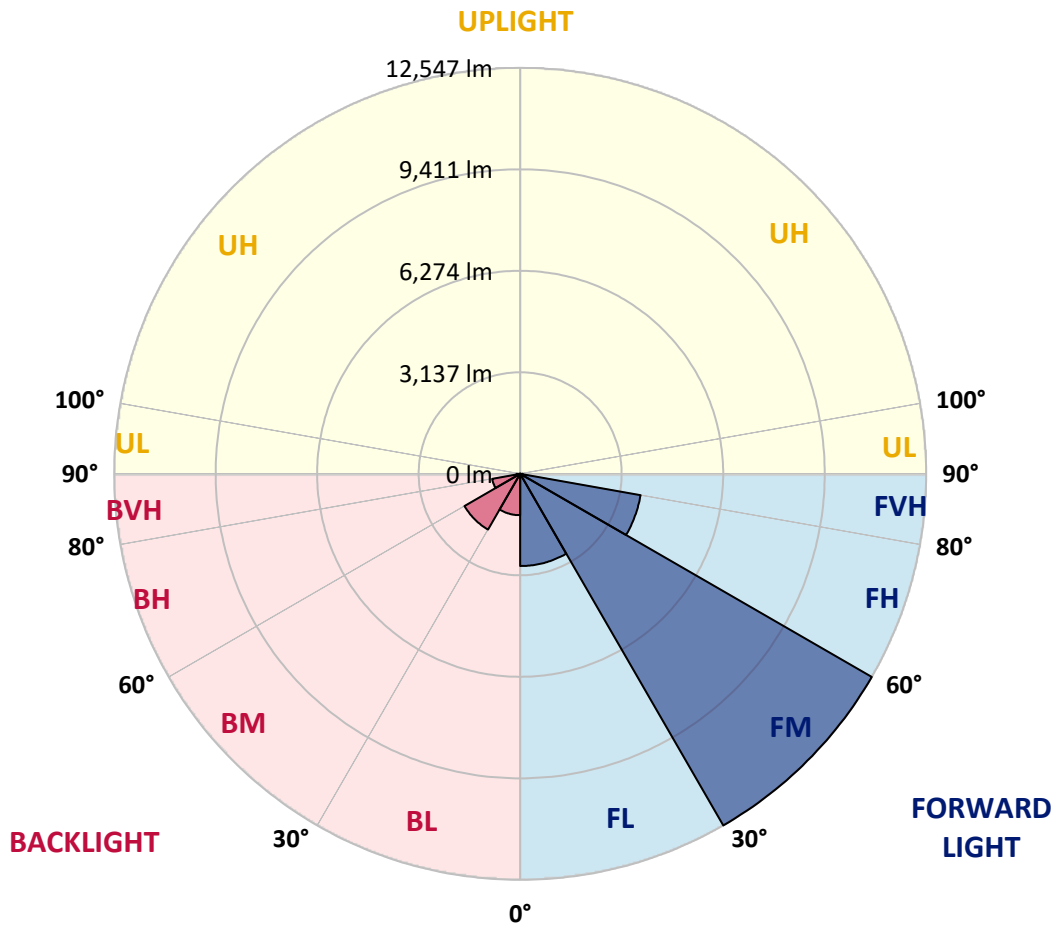
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2849.4	12.1			
FM (30°-60°)	12547.5	53.4			
FH (60°-80°)	3779.7	16.1			G2/5000
FVH (80°-90°)	79.4	0.3			G1/100
BL (0°-30°)	1278.6	5.4	B3/2500		
BM (30°-60°)	1988.3	8.5	B2/2500		
BH (60°-80°)	878.6	3.7	B2/1000		G2/1000
BVH (80°-90°)	108.6	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°	5890.8	5890.8	5890.8	5890.8	5890.8	5890.8	5890.8	5890.8	5890.8	5890.8
2.5°	6758.6	6753.7	6780.5	6689.3	6627.4	6543.5	6432.9	6291.9	6140.0	5979.6
5°	7367.5	7325.0	7352.9	7284.9	7216.8	7090.4	6926.3	6696.6	6415.9	6096.2
7.5°	7271.5	7242.3	7314.0	7374.8	7425.8	7410.0	7289.7	7049.1	6686.9	6222.6
10°	6497.3	6464.5	6565.4	6775.6	7084.3	7352.9	7498.8	7349.3	6964.0	6361.2
12.5°	5814.3	5798.5	5865.3	6035.5	6378.2	6893.5	7472.0	7611.8	7252.0	6525.3
15°	5522.6	5503.1	5545.7	5632.0	5850.7	6330.8	7229.0	7791.7	7535.2	6714.9
17.5°	5458.2	5436.3	5454.5	5499.5	5640.5	6006.3	6861.9	7880.4	7830.6	6926.3
20°	5577.3	5559.0	5561.5	5559.0	5657.5	5948.0	6606.7	7846.4	8088.2	7120.8
22.5°	5865.3	5834.9	5836.2	5771.7	5825.2	6050.1	6539.8	7755.2	8317.9	7290.9
25°	6334.4	6279.8	6290.7	6126.6	6112.0	6278.5	6644.4	7684.7	8546.4	7427.1
27.5°	6976.2	6914.2	6881.4	6637.1	6520.4	6603.0	6857.1	7709.0	8762.7	7544.9
30°	7778.3	7702.9	7636.1	7289.7	7078.2	7047.9	7187.6	7869.4	9018.0	7668.9
32.5°	8761.5	8674.0	8552.5	8093.1	7795.3	7636.1	7615.4	8155.1	9316.9	7826.9
35°	9931.9	9817.7	9645.1	9050.8	8674.0	8348.3	8179.4	8567.1	9726.5	8065.1
37.5°	11137.5	11008.7	10850.7	10143.4	9680.3	9200.3	8867.3	9126.1	10272.2	8388.4
40°	12249.6	12105.0	11957.9	11328.4	10831.3	10252.8	9709.5	9833.5	10939.4	8774.9
42.5°	12905.9	12798.9	12743.0	12402.7	12018.7	11431.7	10757.1	10672.1	11689.3	9219.7
45°	12876.7	12833.0	13005.6	13146.5	13055.4	12729.7	11984.7	11599.4	12441.6	9605.0
47.5°	12188.8	12218.0	12603.3	13395.7	13744.5	13914.6	13382.3	12509.7	13095.5	9893.0
50°	10317.2	10341.5	11233.6	12942.4	13921.9	14880.9	14769.0	13398.1	13602.3	10069.2
52.5°	8835.7	8851.5	9234.3	11598.2	13336.1	15367.0	16018.4	14235.5	13973.0	10117.9
55°	6655.3	6710.0	7139.0	9099.4	11812.1	14981.7	16779.2	15098.4	14207.5	10122.7
57.5°	3887.9	3947.5	4477.4	6176.5	9180.8	13638.8	16894.7	15864.1	14366.8	10083.8
60°	1904.5	1930.0	2160.9	3246.2	5661.1	11051.3	15966.2	16234.8	14455.5	10063.2
62.5°	1283.4	1279.8	1289.5	1601.8	2789.2	7100.1	14031.3	15585.8	14408.1	9984.2
65°	1103.5	1090.2	1053.7	1124.2	1445.1	3247.4	10841.0	13648.5	14047.1	9786.1
67.5°	954.1	955.3	956.5	934.6	1031.8	1498.5	6624.9	10751.1	12751.5	8847.8
70°	790.0	800.9	805.8	805.8	841.0	983.2	2828.1	7368.7	10058.3	6937.3
72.5°	719.5	696.4	698.8	686.7	686.7	748.7	1138.8	4177.2	6336.9	3902.5
75°	587.0	601.6	604.0	595.5	567.6	571.2	675.7	1752.5	2711.5	1618.9
77.5°	506.8	506.8	511.7	505.6	483.7	427.8	450.9	679.4	922.5	663.6
80°	407.1	405.9	426.6	438.7	404.7	316.0	288.0	375.5	409.6	291.7
82.5°	198.1	210.3	292.9	334.2	307.5	228.5	176.2	233.3	218.8	128.8
85°	115.5	109.4	131.3	185.9	176.2	126.4	85.1	121.5	114.2	65.6
87.5°	36.5	34.0	26.7	63.2	51.0	35.2	23.1	35.2	31.6	14.6
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°
5890.8	0°	5890.8	5890.8	5890.8	5890.8	5890.8	5890.8	5890.8	5890.8	5890.8	5890.8
5910.3	2.5°	5824.0	5680.6	5538.4	5408.3	5329.3	5278.3	5227.3	5170.1	5148.3	5115.4
5926.1	5°	5765.7	5488.6	5241.8	5029.2	4835.9	4684.0	4530.9	4406.9	4351.0	4388.7
5975.9	7.5°	5731.6	5330.6	4950.2	4560.0	4184.5	3884.3	3623.0	3439.5	3356.8	3377.5
6024.5	10°	5701.2	5151.9	4572.2	3956.0	3416.4	3044.5	2777.1	2637.3	2585.1	2596.0
6090.2	12.5°	5673.3	4951.4	4116.4	3305.8	2732.1	2486.6	2410.1	2411.3	2421.0	2428.3
6194.7	15°	5668.4	4709.5	3607.2	2737.0	2362.7	2346.9	2429.5	2481.8	2509.7	2518.2
6282.2	17.5°	5661.1	4420.3	3088.2	2349.3	2272.7	2379.7	2456.2	2490.3	2512.1	2513.4
6367.3	20°	5632.0	4053.2	2609.4	2164.6	2253.3	2345.6	2393.0	2419.8	2438.0	2444.1
6431.7	22.5°	5542.0	3644.9	2236.3	2081.9	2175.5	2249.6	2305.5	2335.9	2346.9	2354.1
6443.8	25°	5380.4	3187.9	1978.6	2002.9	2067.3	2160.9	2205.9	2212.0	2208.3	2219.2
6413.4	27.5°	5168.9	2698.1	1818.2	1896.0	1978.6	2058.8	2083.1	2079.5	2072.2	2084.3
6361.2	30°	4913.7	2258.1	1716.1	1775.6	1888.7	1961.6	1983.5	1975.0	1960.4	1973.7
6334.4	32.5°	4643.9	1898.4	1632.2	1691.8	1814.5	1886.2	1908.1	1899.6	1888.7	1899.6
6364.8	35°	4392.3	1646.8	1554.4	1635.9	1756.2	1826.7	1854.6	1855.9	1855.9	1869.2
6445.0	37.5°	4161.4	1499.8	1490.0	1600.6	1716.1	1779.3	1819.4	1821.8	1769.6	1773.2
6581.2	40°	3947.5	1437.8	1460.9	1577.5	1677.2	1738.0	1740.4	1604.3	1508.3	1505.8
6736.7	42.5°	3772.5	1425.6	1469.4	1575.1	1649.2	1651.7	1480.3	1374.6	1347.8	1349.0
6880.1	45°	3608.4	1422.0	1488.8	1575.1	1607.9	1426.8	1311.4	1283.4	1285.8	1295.6
6944.6	47.5°	3424.9	1407.4	1492.5	1553.2	1488.8	1268.8	1234.8	1222.7	1217.8	1220.2
6930.0	50°	3224.3	1355.1	1446.3	1509.5	1284.6	1200.8	1158.2	1154.6	1160.7	1164.3
6848.5	52.5°	3012.9	1270.0	1367.3	1430.5	1191.1	1141.2	1093.8	1102.3	1129.1	1137.6
6763.5	55°	2874.3	1170.4	1262.8	1272.5	1125.4	1085.3	1045.2	1064.7	1114.5	1130.3
6712.4	57.5°	2837.9	1064.7	1143.7	1132.7	1041.6	1036.7	1012.4	1029.4	1092.6	1115.7
6710.0	60°	2826.9	969.9	1027.0	1018.5	960.1	983.2	977.1	985.7	1007.5	1014.8
6685.7	62.5°	2741.8	894.5	922.5	910.3	887.2	927.3	941.9	923.7	940.7	949.2
6519.2	65°	2525.5	833.7	820.4	811.9	821.6	858.0	887.2	850.8	866.6	890.9
5877.5	67.5°	2168.2	751.1	714.6	724.4	754.7	774.2	811.9	770.5	783.9	825.2
4733.8	70°	1753.8	646.6	613.8	641.7	670.9	711.0	717.1	689.1	720.7	766.9
2888.9	72.5°	1240.9	540.8	517.7	574.9	584.6	636.8	623.5	610.1	653.9	669.7
1428.0	75°	860.5	436.3	422.9	466.7	501.9	546.9	537.2	553.0	645.4	652.6
713.4	77.5°	544.5	339.1	330.6	358.5	407.1	457.0	472.8	652.6	1102.3	1146.1
370.7	80°	316.0	252.8	243.1	264.9	307.5	353.7	455.8	800.9	726.8	718.3
166.5	82.5°	176.2	173.8	161.6	167.7	205.4	255.2	644.1	563.9	458.2	472.8
66.8	85°	82.6	102.1	87.5	83.9	115.5	299.0	430.2	322.1	213.9	209.0
14.6	87.5°	21.9	19.4	19.4	21.9	48.6	257.7	171.4	137.3	81.4	79.0
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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