

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: P952036

Luminaire Tested: **GALN-SB6A-735-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952036
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-SB6A-735-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27665 lumens
Efficiency: N/A
Efficacy: 161.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

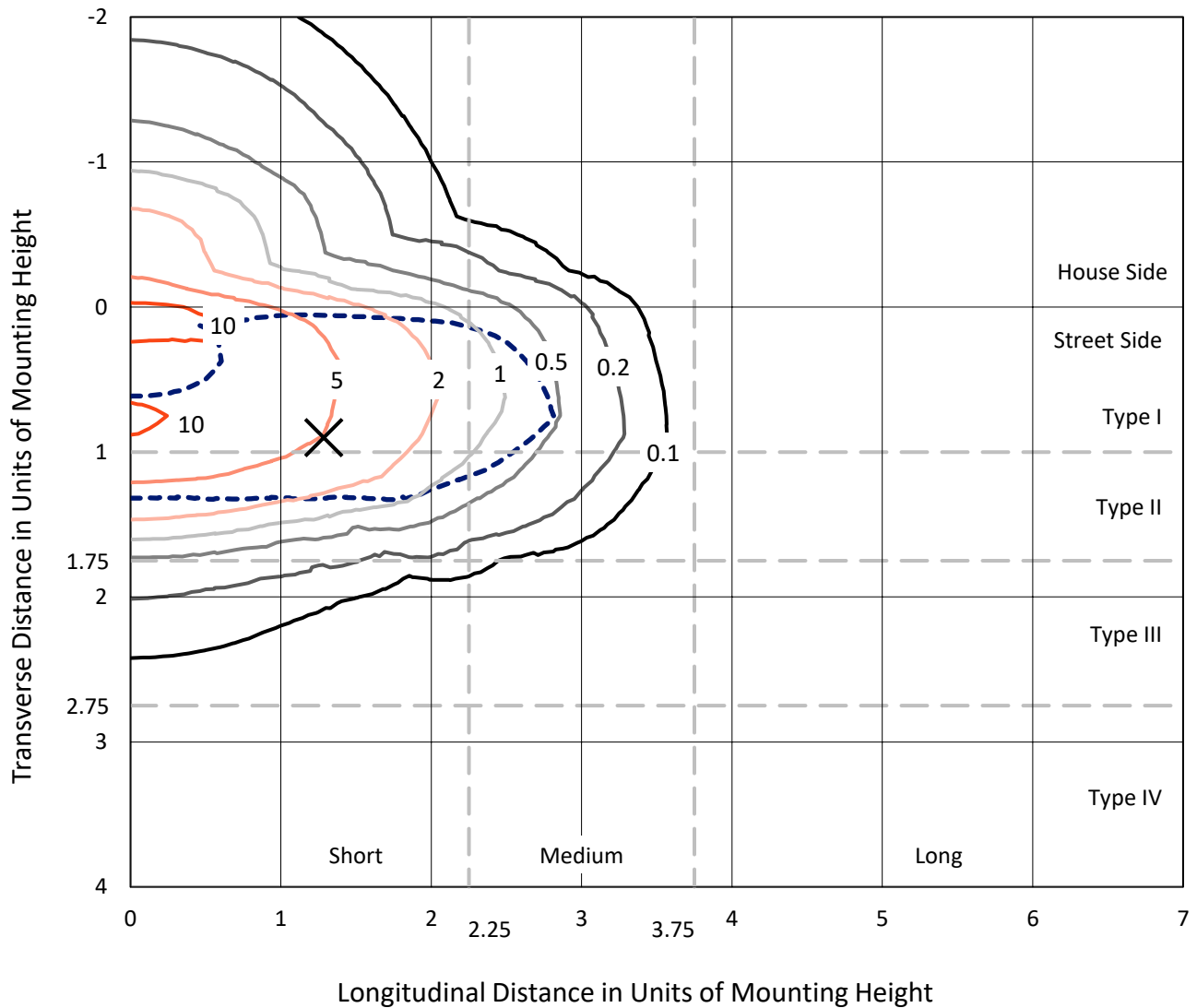
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

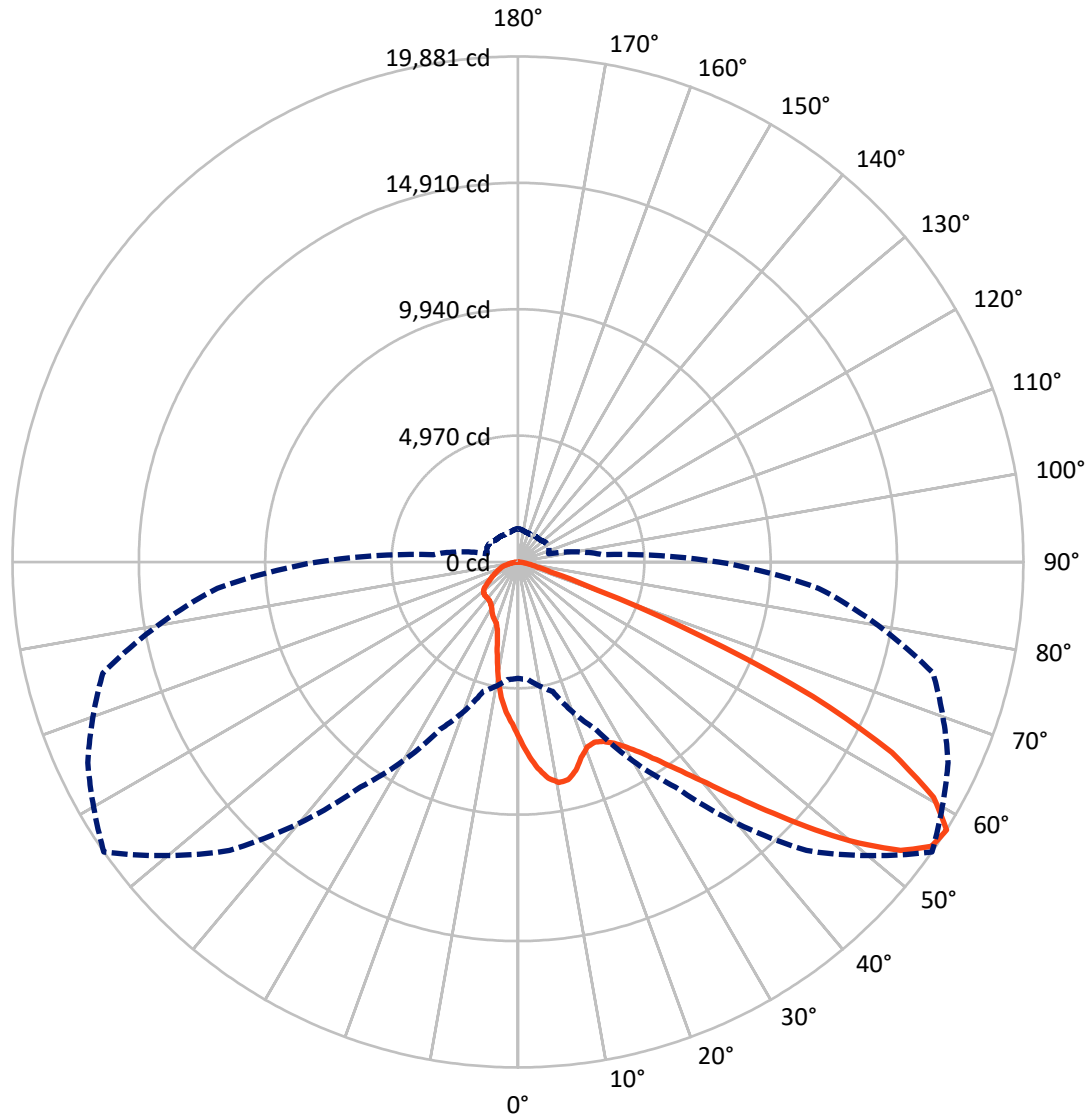
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 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	5005.8	0.0	5005.8
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	22659.2	0.0	22659.2
	% Fixture	81.9	0.0	81.9
Total	Lumens	27665.0	0.0	27665.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	643.2	2.3
10°-20°	1623.6	5.9
20°-30°	2590.8	9.4
30°-40°	4101.8	14.8
40°-50°	6278.3	22.7
50°-60°	6724.6	24.3
60°-70°	4230.5	15.3
70°-80°	1251.0	4.5
80°-90°	221.2	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°	27665.0	100.0
0°-180°	27665.0	100.0



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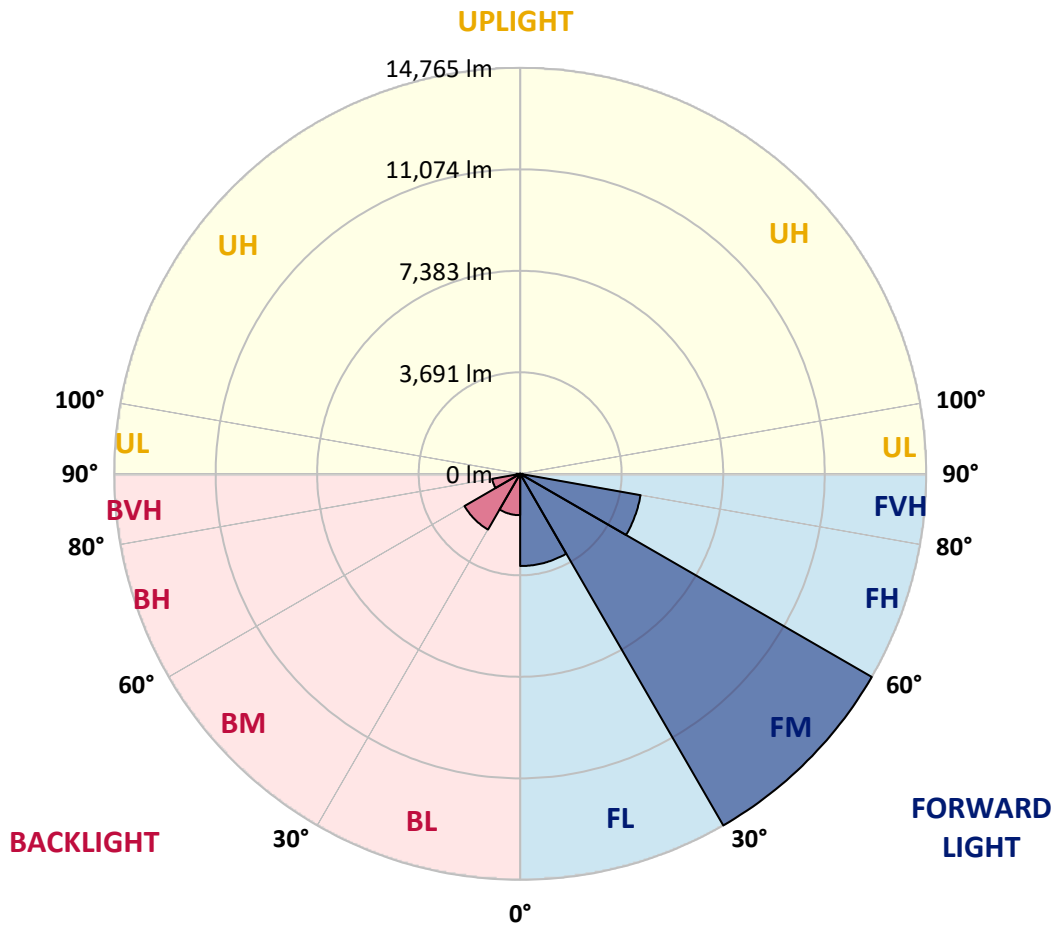
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3353.0	12.1			
FM (30°-60°)	14765.0	53.4			
FH (60°-80°)	4447.7	16.1			G2/5000
FVH (80°-90°)	93.5	0.3			G1/100
BL (0°-30°)	1504.6	5.4	B3/2500		
BM (30°-60°)	2339.7	8.5	B2/2500		
BH (60°-80°)	1033.8	3.7	B3/2500		G3/2500
BVH (80°-90°)	127.7	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6932.0	6932.0	6932.0	6932.0	6932.0	6932.0	6932.0	6932.0	6932.0	6932.0
2.5°	7953.1	7947.4	7978.8	7871.6	7798.6	7699.9	7569.8	7403.9	7225.1	7036.4
5°	8669.6	8619.5	8652.4	8572.3	8492.2	8343.5	8150.4	7880.1	7549.8	7173.6
7.5°	8556.6	8522.3	8606.7	8678.2	8738.2	8719.6	8578.1	8294.9	7868.7	7322.4
10°	7645.6	7607.0	7725.7	7973.1	8336.4	8652.4	8824.0	8648.1	8194.8	7485.4
12.5°	6841.9	6823.3	6901.9	7102.1	7505.4	8111.8	8792.6	8957.0	8533.7	7678.5
15°	6498.6	6475.7	6525.8	6627.3	6884.8	7449.7	8506.5	9168.7	8866.9	7901.6
17.5°	6422.8	6397.1	6418.5	6471.4	6637.3	7067.8	8074.6	9273.1	9214.5	8150.4
20°	6563.0	6541.5	6544.4	6541.5	6657.4	6999.2	7774.3	9233.1	9517.7	8379.3
22.5°	6901.9	6866.2	6867.6	6791.8	6854.7	7119.3	7695.7	9125.8	9788.0	8579.5
25°	7454.0	7389.6	7402.5	7209.4	7192.2	7388.2	7818.6	9042.9	10056.8	8739.7
27.5°	8209.1	8136.1	8097.5	7810.1	7672.8	7770.0	8068.9	9071.5	10311.4	8878.4
30°	9153.0	9064.3	8985.7	8578.1	8329.2	8293.5	8457.9	9260.2	10611.7	9024.3
32.5°	10310.0	10207.0	10064.0	9523.4	9173.0	8985.7	8961.3	9596.3	10963.6	9210.2
35°	11687.2	11552.8	11349.7	10650.3	10207.0	9823.7	9624.9	10081.1	11445.5	9490.5
37.5°	13105.9	12954.3	12768.4	11936.1	11391.2	10826.3	10434.4	10739.0	12087.7	9870.9
40°	14414.5	14244.3	14071.3	13330.5	12745.5	12064.8	11425.5	11571.4	12872.8	10325.7
42.5°	15186.8	15060.9	14995.2	14594.7	14142.8	13452.0	12658.3	12558.2	13755.2	10849.1
45°	15152.5	15101.0	15304.1	15470.0	15362.7	14979.4	14102.7	13649.4	14640.5	11302.5
47.5°	14343.0	14377.3	14830.7	15763.1	16173.6	16373.8	15747.4	14720.6	15409.9	11641.4
50°	12140.6	12169.2	13218.9	15229.7	16382.4	17510.8	17379.2	15766.0	16006.3	11848.8
52.5°	10397.2	10415.8	10866.3	13647.9	15693.1	18082.9	18849.4	16751.4	16442.5	11906.0
55°	7831.5	7895.9	8400.7	10707.6	13899.7	17629.5	19744.7	17766.8	16718.5	11911.7
57.5°	4575.1	4645.1	5268.7	7268.0	10803.4	16049.2	19880.6	18667.8	16905.8	11866.0
60°	2241.0	2271.1	2542.8	3819.9	6661.7	13004.4	18787.9	19104.0	17010.2	11841.7
62.5°	1510.2	1506.0	1517.4	1884.9	3282.2	8355.0	16511.1	18340.3	16954.5	11748.7
65°	1298.6	1282.8	1239.9	1322.9	1700.5	3821.4	12757.0	16060.6	16529.7	11515.6
67.5°	1122.7	1124.1	1125.5	1099.8	1214.2	1763.4	7795.8	12651.1	15005.2	10411.5
70°	929.6	942.5	948.2	948.2	989.7	1157.0	3328.0	8671.0	11835.9	8163.3
72.5°	846.7	819.5	822.3	808.0	808.0	881.0	1340.1	4915.4	7456.8	4592.2
75°	690.8	707.9	710.8	700.8	667.9	672.2	795.2	2062.3	3190.7	1905.0
77.5°	596.4	596.4	602.1	594.9	569.2	503.4	530.6	799.5	1085.5	780.9
80°	479.1	477.7	502.0	516.3	476.2	371.8	338.9	441.9	482.0	343.2
82.5°	233.1	247.4	344.7	393.3	361.8	268.9	207.4	274.6	257.4	151.6
85°	135.9	128.7	154.5	218.8	207.4	148.7	100.1	143.0	134.4	77.2
87.5°	42.9	40.0	31.5	74.4	60.1	41.5	27.2	41.5	37.2	17.2
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°
6932.0	0°	6932.0	6932.0	6932.0	6932.0	6932.0	6932.0	6932.0	6932.0	6932.0	6932.0
6954.8	2.5°	6853.3	6684.5	6517.2	6364.2	6271.2	6211.2	6151.1	6083.9	6058.1	6019.5
6973.4	5°	6784.6	6458.6	6168.2	5918.0	5690.6	5511.8	5331.6	5185.7	5119.9	5164.3
7032.1	7.5°	6744.6	6272.7	5825.0	5365.9	4924.0	4570.8	4263.3	4047.3	3950.1	3974.4
7089.3	10°	6708.8	6062.4	5380.2	4655.1	4020.2	3582.5	3267.9	3103.4	3041.9	3054.8
7166.5	12.5°	6676.0	5826.4	4843.9	3890.0	3215.0	2926.1	2836.0	2837.4	2848.9	2857.4
7289.5	15°	6670.2	5541.8	4244.7	3220.7	2780.2	2761.6	2858.9	2920.4	2953.3	2963.3
7392.5	17.5°	6661.7	5201.5	3634.0	2764.5	2674.4	2800.2	2890.3	2930.4	2956.1	2957.6
7492.6	20°	6627.3	4769.6	3070.5	2547.1	2651.5	2760.2	2816.0	2847.4	2868.9	2876.0
7568.4	22.5°	6521.5	4289.0	2631.5	2449.9	2560.0	2647.2	2713.0	2748.8	2761.6	2770.2
7582.7	25°	6331.3	3751.3	2328.3	2356.9	2432.7	2542.8	2595.7	2602.9	2598.6	2611.5
7546.9	27.5°	6082.4	3174.9	2139.5	2231.0	2328.3	2422.7	2451.3	2447.0	2438.4	2452.7
7485.4	30°	5782.1	2657.2	2019.4	2089.5	2222.5	2308.3	2334.0	2324.0	2306.8	2322.6
7454.0	32.5°	5464.6	2233.9	1920.7	1990.8	2135.2	2219.6	2245.3	2235.3	2222.5	2235.3
7489.7	35°	5168.6	1937.9	1829.2	1925.0	2066.6	2149.5	2182.4	2183.8	2183.8	2199.6
7584.1	37.5°	4896.8	1764.8	1753.4	1883.5	2019.4	2093.7	2140.9	2143.8	2082.3	2086.6
7744.3	40°	4645.1	1691.9	1719.0	1856.3	1973.6	2045.1	2048.0	1887.8	1774.8	1772.0
7927.3	42.5°	4439.2	1677.6	1729.1	1853.5	1940.7	1943.6	1741.9	1617.5	1586.0	1587.5
8096.1	45°	4246.1	1673.3	1751.9	1853.5	1892.1	1679.0	1543.1	1510.2	1513.1	1524.5
8171.9	47.5°	4030.2	1656.1	1756.2	1827.7	1751.9	1493.1	1453.0	1438.7	1433.0	1435.9
8154.7	50°	3794.2	1594.6	1701.9	1776.2	1511.7	1413.0	1362.9	1358.6	1365.8	1370.1
8058.9	52.5°	3545.3	1494.5	1608.9	1683.3	1401.5	1342.9	1287.1	1297.1	1328.6	1338.6
7958.8	55°	3382.3	1377.2	1485.9	1497.4	1324.3	1277.1	1229.9	1252.8	1311.5	1330.0
7898.7	57.5°	3339.4	1252.8	1345.8	1332.9	1225.6	1219.9	1191.3	1211.3	1285.7	1312.9
7895.9	60°	3326.5	1141.3	1208.5	1198.5	1129.8	1157.0	1149.8	1159.9	1185.6	1194.2
7867.3	62.5°	3226.4	1052.6	1085.5	1071.2	1044.0	1091.2	1108.4	1086.9	1106.9	1116.9
7671.3	65°	2971.9	981.1	965.4	955.3	966.8	1009.7	1044.0	1001.1	1019.7	1048.3
6916.2	67.5°	2551.4	883.8	840.9	852.4	888.1	911.0	955.3	906.7	922.4	971.1
5570.4	70°	2063.7	760.8	722.2	755.1	789.4	836.6	843.8	810.9	848.1	902.4
3399.5	72.5°	1460.2	636.4	609.2	676.5	687.9	749.4	733.7	717.9	769.4	788.0
1680.4	75°	1012.5	513.4	497.7	549.2	590.7	643.6	632.1	650.7	759.4	768.0
839.5	77.5°	640.7	399.0	389.0	421.9	479.1	537.7	556.3	768.0	1297.1	1348.6
436.2	80°	371.8	297.5	286.0	311.8	361.8	416.2	536.3	942.5	855.2	845.2
195.9	82.5°	207.4	204.5	190.2	197.4	241.7	300.3	758.0	663.6	539.2	556.3
78.7	85°	97.3	120.1	103.0	98.7	135.9	351.8	506.3	379.0	251.7	246.0
17.2	87.5°	25.7	22.9	22.9	25.7	57.2	303.2	201.7	161.6	95.8	93.0
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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