

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: P953842

Luminaire Tested: **GALN-SB7B-740-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953842  
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-SB7B-740-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

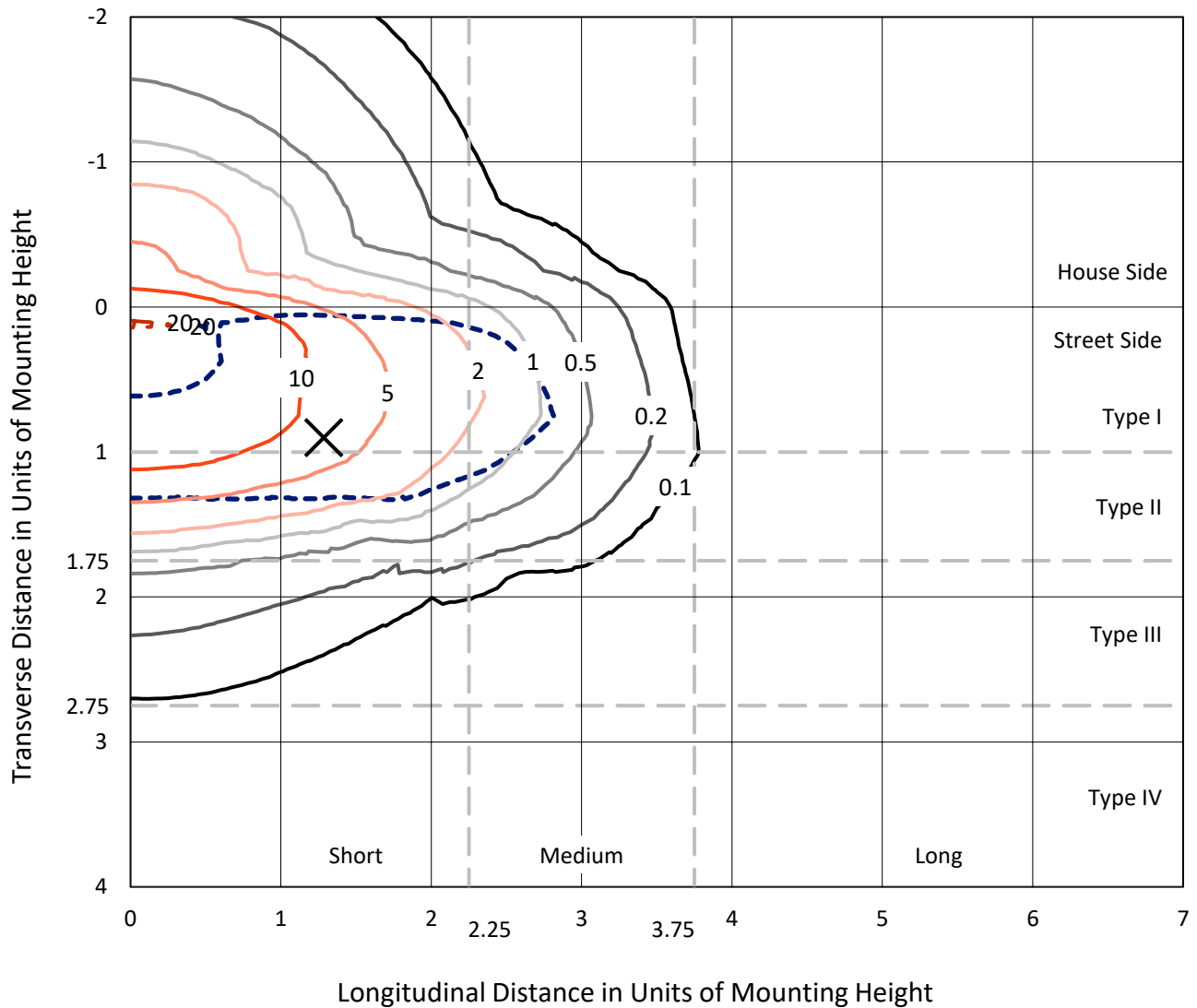
Lumens per Lamp: N/A  
Luminaire Lumens: 43089 lumens  
Efficiency: N/A  
Efficacy: 167.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 256.7  
Input Voltage (V): NR  
Input Current (Ain): 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

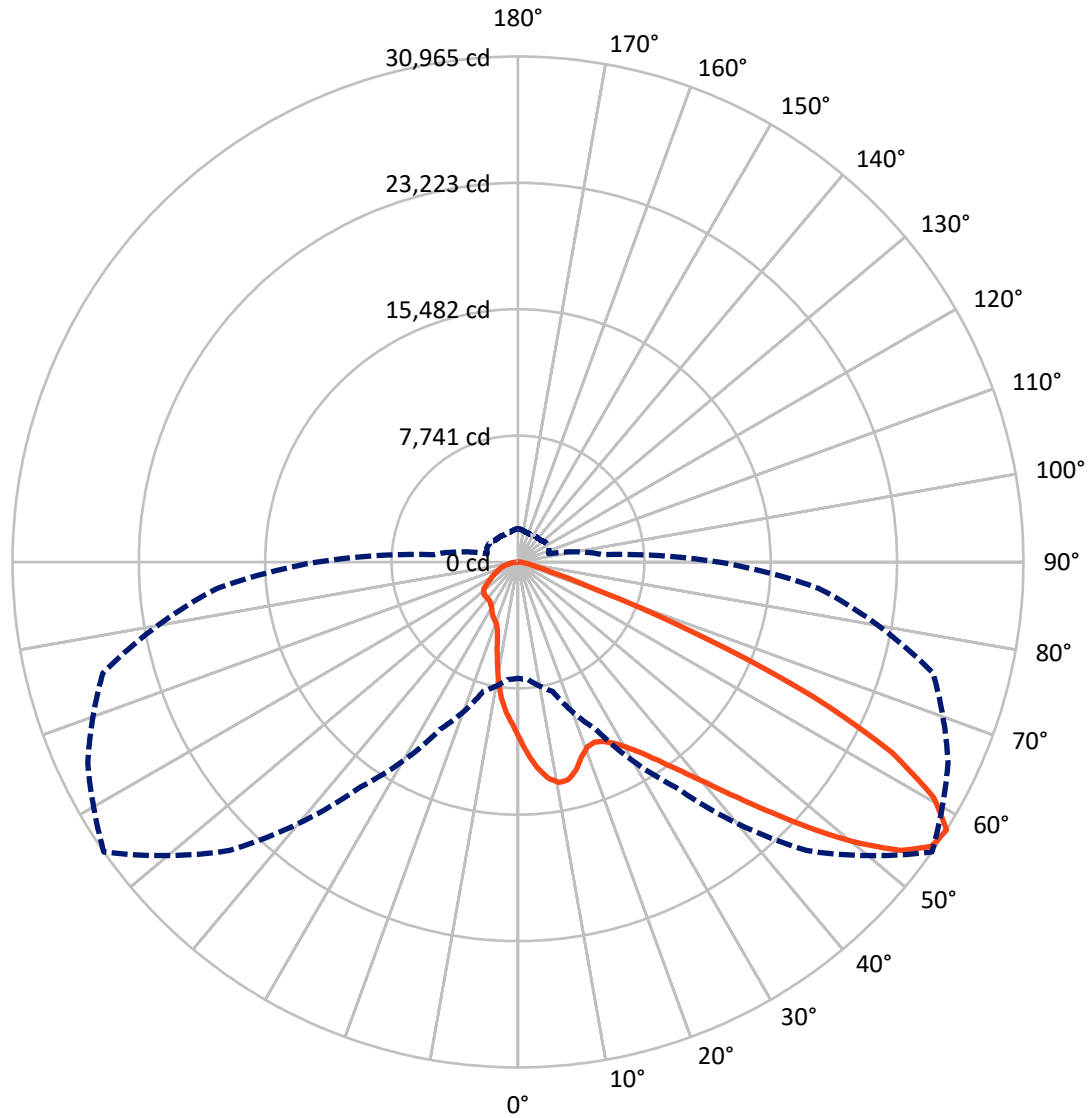
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.9 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
<b>House Side</b>	Lumens	7796.7	0.0	7796.7
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	35292.3	0.0	35292.3
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	43089.0	0.0	43089.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1001.9	2.3
10°-20°	2528.8	5.9
20°-30°	4035.2	9.4
30°-40°	6388.7	14.8
40°-50°	9778.6	22.7
50°-60°	10473.8	24.3
60°-70°	6589.1	15.3
70°-80°	1948.5	4.5
80°-90°	344.5	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°	43089.0	100.0
0°-180°	43089.0	100.0

**Coefficient of Utilization**



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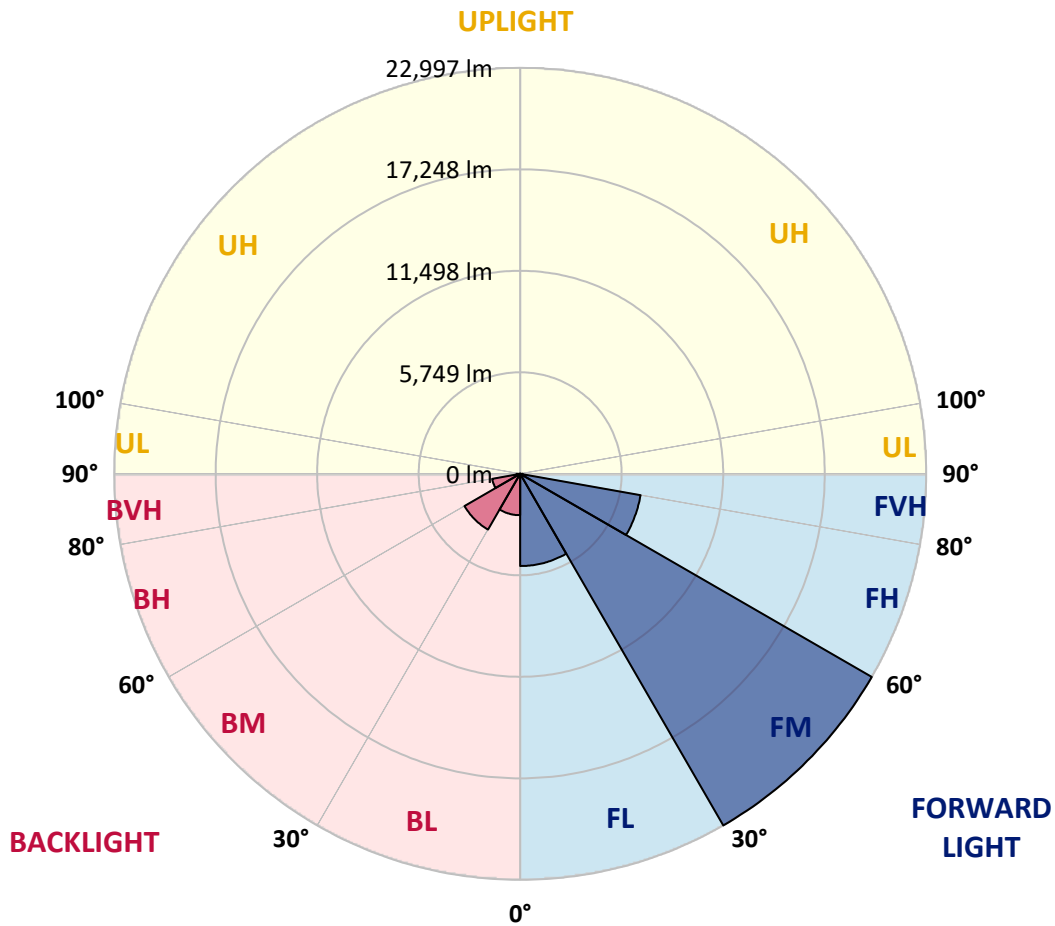
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5222.4	12.1			
FM (30°-60°)	22996.9	53.4			
FH (60°-80°)	6927.4	16.1			G3/7500
FVH (80°-90°)	145.6	0.3			G2/225
BL (0°-30°)	2343.4	5.4	B3/2500		
BM (30°-60°)	3644.1	8.5	B3/5000		
BH (60°-80°)	1610.2	3.7	B3/2500		G3/2500
BVH (80°-90°)	199.0	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°	10796.7	10796.7	10796.7	10796.7	10796.7	10796.7	10796.7	10796.7	10796.7	10796.7
2.5°	12387.1	12378.2	12427.2	12260.2	12146.6	11992.9	11790.2	11531.8	11253.3	10959.3
5°	13503.1	13425.2	13476.4	13351.7	13226.9	12995.2	12694.5	12273.5	11759.0	11173.2
7.5°	13327.1	13273.7	13405.1	13516.5	13610.0	13581.1	13360.6	12919.5	12255.7	11404.8
10°	11908.2	11848.1	12033.0	12418.3	12984.1	13476.4	13743.7	13469.7	12763.6	11658.7
12.5°	10656.4	10627.4	10749.9	11061.8	11689.9	12634.4	13694.7	13950.8	13291.5	11959.5
15°	10121.8	10086.1	10164.1	10322.2	10723.2	11603.1	13249.2	14280.5	13810.5	12307.0
17.5°	10003.7	9963.6	9997.0	10079.4	10337.8	11008.3	12576.5	14443.1	14351.8	12694.5
20°	10222.0	10188.6	10193.1	10188.6	10369.0	10901.4	12108.7	14380.8	14824.0	13050.9
22.5°	10749.9	10694.2	10696.5	10578.4	10676.4	11088.5	11986.2	14213.7	15245.0	13362.8
25°	11609.7	11509.5	11529.6	11228.8	11202.1	11507.3	12177.8	14084.5	15663.8	13612.3
27.5°	12785.9	12672.3	12612.1	12164.4	11950.6	12102.0	12567.6	14129.0	16060.3	13828.3
30°	14256.0	14117.9	13995.4	13360.6	12973.0	12917.3	13173.4	14423.1	16528.1	14055.5
32.5°	16058.1	15897.7	15674.9	14832.9	14287.2	13995.4	13957.5	14946.5	17076.0	14345.1
35°	18203.2	17993.8	17677.5	16588.2	15897.7	15300.7	14991.1	15701.7	17826.7	14781.7
37.5°	20412.8	20176.7	19887.1	18590.7	17742.1	16862.2	16251.9	16726.3	18826.9	15374.2
40°	22451.0	22185.9	21916.4	20762.6	19851.5	18791.2	17795.5	18022.7	20049.8	16082.6
42.5°	23653.8	23457.8	23355.4	22731.7	22027.8	20951.9	19715.6	19559.7	21424.1	16897.8
45°	23600.4	23520.2	23836.5	24094.9	23927.8	23330.9	21965.4	21259.3	22802.9	17604.0
47.5°	22339.6	22393.1	23099.2	24551.5	25190.8	25502.7	24527.0	22927.7	24001.3	18131.9
50°	18909.3	18953.8	20588.8	23720.7	25516.0	27273.5	27068.6	24556.0	24930.2	18454.9
52.5°	16193.9	16222.9	16924.6	21257.1	24442.4	28164.5	29358.5	26090.7	25609.6	18544.0
55°	12197.8	12298.0	13084.3	16677.3	21649.1	27458.4	30752.9	27672.3	26039.5	18552.9
57.5°	7125.8	7234.9	8206.1	11320.2	16826.6	24997.0	30964.5	29075.6	26331.3	18481.6
60°	3490.5	3537.3	3960.5	5949.7	10375.7	20254.7	29262.7	29755.0	26493.9	18443.7
62.5°	2352.2	2345.6	2363.4	2935.8	5112.1	13013.1	25716.5	28565.5	26407.0	18298.9
65°	2022.6	1998.1	1931.2	2060.4	2648.5	5951.9	19869.3	25014.9	25745.5	17935.9
67.5°	1748.6	1750.8	1753.0	1712.9	1891.1	2746.5	12142.1	19704.5	23371.0	16216.2
70°	1447.9	1467.9	1476.8	1476.8	1541.4	1802.0	5183.4	13505.3	18434.8	12714.6
72.5°	1318.7	1276.4	1280.8	1258.5	1258.5	1372.1	2087.2	7655.9	11614.2	7152.5
75°	1075.9	1102.6	1107.1	1091.5	1040.2	1046.9	1238.5	3212.1	4969.6	2967.0
77.5°	928.9	928.9	937.8	926.6	886.5	784.1	826.4	1245.2	1690.7	1216.2
80°	746.2	744.0	781.9	804.1	741.8	579.2	527.9	688.3	750.7	534.6
82.5°	363.1	385.4	536.8	612.6	563.6	418.8	323.0	427.7	401.0	236.1
85°	211.6	200.5	240.6	340.8	323.0	231.7	155.9	222.8	209.4	120.3
87.5°	66.8	62.4	49.0	115.8	93.6	64.6	42.3	64.6	57.9	26.7
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°
10796.7	0°	10796.7	10796.7	10796.7	10796.7	10796.7	10796.7	10796.7	10796.7	10796.7	10796.7
10832.3	2.5°	10674.2	10411.3	10150.7	9912.4	9767.6	9674.0	9580.5	9475.8	9435.7	9375.6
10861.3	5°	10567.3	10059.4	9607.2	9217.4	8863.2	8584.8	8304.1	8076.9	7974.5	8043.5
10952.6	7.5°	10504.9	9769.8	9072.6	8357.6	7669.3	7119.1	6640.2	6303.8	6152.4	6190.2
11041.7	10°	10449.2	9442.4	8379.9	7250.5	6261.5	5579.9	5089.8	4833.7	4737.9	4757.9
11162.0	12.5°	10398.0	9074.8	7544.6	6058.8	5007.4	4557.5	4417.1	4419.4	4437.2	4450.6
11353.6	15°	10389.1	8631.6	6611.2	5016.3	4330.3	4301.3	4452.8	4548.6	4599.8	4615.4
11514.0	17.5°	10375.7	8101.4	5660.1	4305.8	4165.4	4361.4	4501.8	4564.2	4604.2	4606.5
11669.9	20°	10322.2	7428.7	4782.4	3967.2	4129.8	4299.1	4386.0	4435.0	4468.4	4479.5
11787.9	22.5°	10157.4	6680.3	4098.6	3815.7	3987.2	4123.1	4225.6	4281.3	4301.3	4314.7
11810.2	25°	9861.2	5842.7	3626.4	3670.9	3789.0	3960.5	4042.9	4054.1	4047.4	4067.4
11754.5	27.5°	9473.6	4945.1	3332.3	3474.9	3626.4	3773.4	3817.9	3811.3	3797.9	3820.2
11658.7	30°	9005.8	4138.7	3145.2	3254.4	3461.5	3595.2	3635.3	3619.7	3593.0	3617.5
11609.7	32.5°	8511.3	3479.4	2991.5	3100.7	3325.7	3457.1	3497.2	3481.6	3461.5	3481.6
11665.4	35°	8050.2	3018.3	2849.0	2998.2	3218.7	3347.9	3399.2	3401.4	3401.4	3425.9
11812.4	37.5°	7627.0	2748.7	2730.9	2933.6	3145.2	3261.1	3334.6	3339.0	3243.2	3249.9
12061.9	40°	7234.9	2635.1	2677.5	2891.3	3074.0	3185.3	3189.8	2940.3	2764.3	2759.9
12347.0	42.5°	6914.2	2612.9	2693.1	2886.8	3022.7	3027.2	2713.1	2519.3	2470.3	2472.5
12609.9	45°	6613.5	2606.2	2728.7	2886.8	2947.0	2615.1	2403.5	2352.2	2356.7	2374.5
12727.9	47.5°	6277.1	2579.4	2735.4	2846.7	2728.7	2325.5	2263.1	2240.9	2232.0	2236.4
12701.2	50°	5909.6	2483.7	2650.7	2766.6	2354.5	2200.8	2122.8	2116.1	2127.3	2133.9
12552.0	52.5°	5522.0	2327.7	2505.9	2621.8	2183.0	2091.6	2004.8	2020.3	2069.3	2084.9
12396.1	55°	5268.0	2145.1	2314.4	2332.2	2062.7	1989.2	1915.7	1951.3	2042.6	2071.6
12302.5	57.5°	5201.2	1951.3	2096.1	2076.0	1909.0	1900.1	1855.5	1886.7	2002.5	2044.8
12298.0	60°	5181.2	1777.5	1882.2	1866.6	1759.7	1802.0	1790.9	1806.5	1846.6	1860.0
12253.5	62.5°	5025.2	1639.4	1690.7	1668.4	1626.1	1699.6	1726.3	1692.9	1724.1	1739.7
11948.3	65°	4628.8	1528.1	1503.6	1488.0	1505.8	1572.6	1626.1	1559.3	1588.2	1632.8
10772.2	67.5°	3973.9	1376.6	1309.8	1327.6	1383.3	1418.9	1488.0	1412.2	1436.7	1512.5
8676.1	70°	3214.3	1185.0	1124.9	1176.1	1229.6	1303.1	1314.2	1263.0	1320.9	1405.6
5294.8	72.5°	2274.3	991.2	948.9	1053.6	1071.4	1167.2	1142.7	1118.2	1198.4	1227.4
2617.3	75°	1577.1	799.7	775.2	855.4	920.0	1002.4	984.6	1013.5	1182.8	1196.2
1307.5	77.5°	997.9	621.5	605.9	657.1	746.2	837.5	866.5	1196.2	2020.3	2100.5
679.4	80°	579.2	463.3	445.5	485.6	563.6	648.2	835.3	1467.9	1332.0	1316.5
305.2	82.5°	323.0	318.5	296.3	307.4	376.4	467.8	1180.6	1033.6	839.8	866.5
122.5	85°	151.5	187.1	160.4	153.7	211.6	548.0	788.5	590.3	392.0	383.1
26.7	87.5°	40.1	35.6	35.6	40.1	89.1	472.2	314.1	251.7	149.2	144.8
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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