

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: P954934

Luminaire Tested: **GALN-SB8A-750-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954934  
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-SB8A-750-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

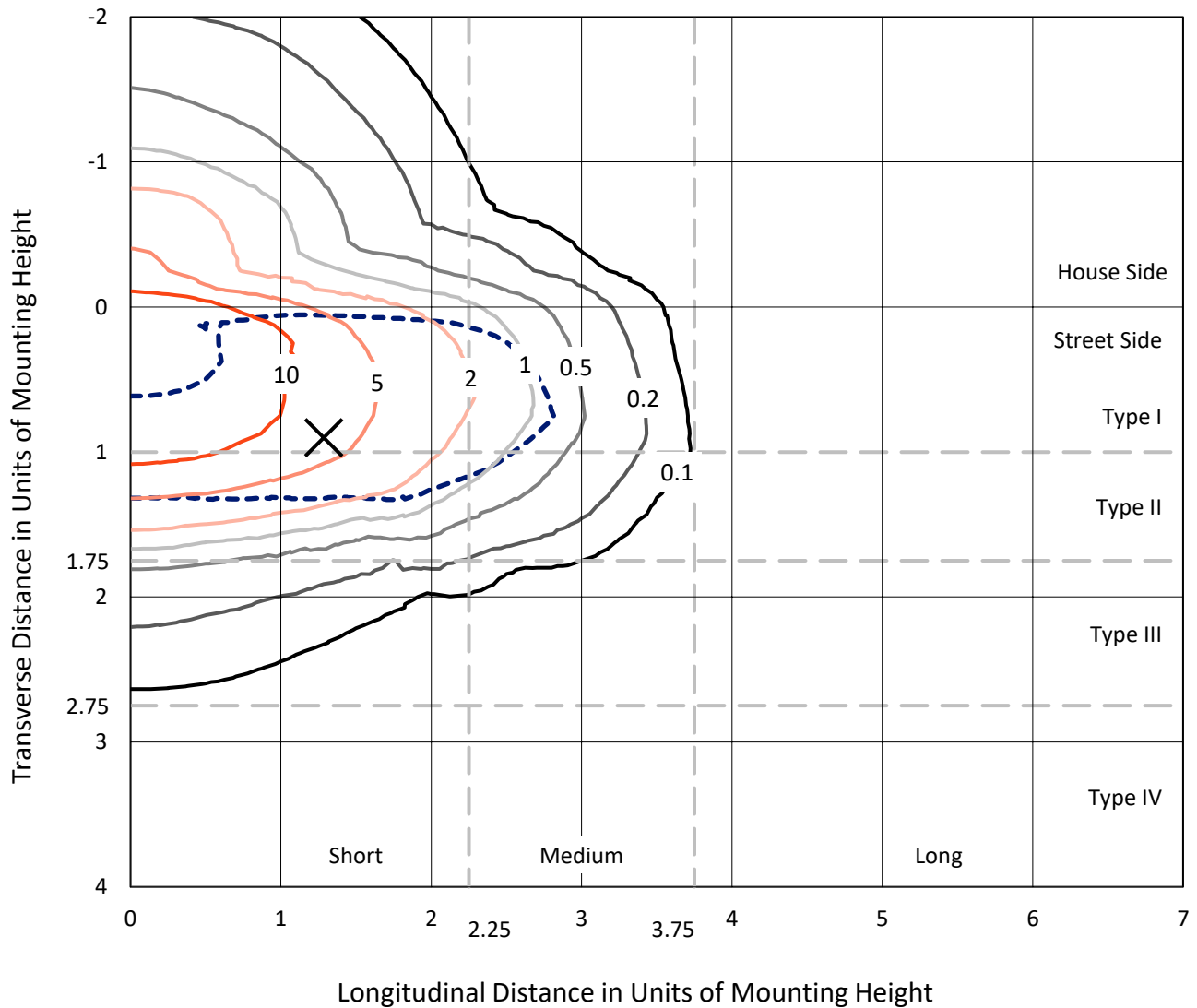
Lumens per Lamp: N/A  
Luminaire Lumens: 39029 lumens  
Efficiency: N/A  
Efficacy: 171.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 227.1  
Input Voltage (V): NR  
Input Current (Ain): 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

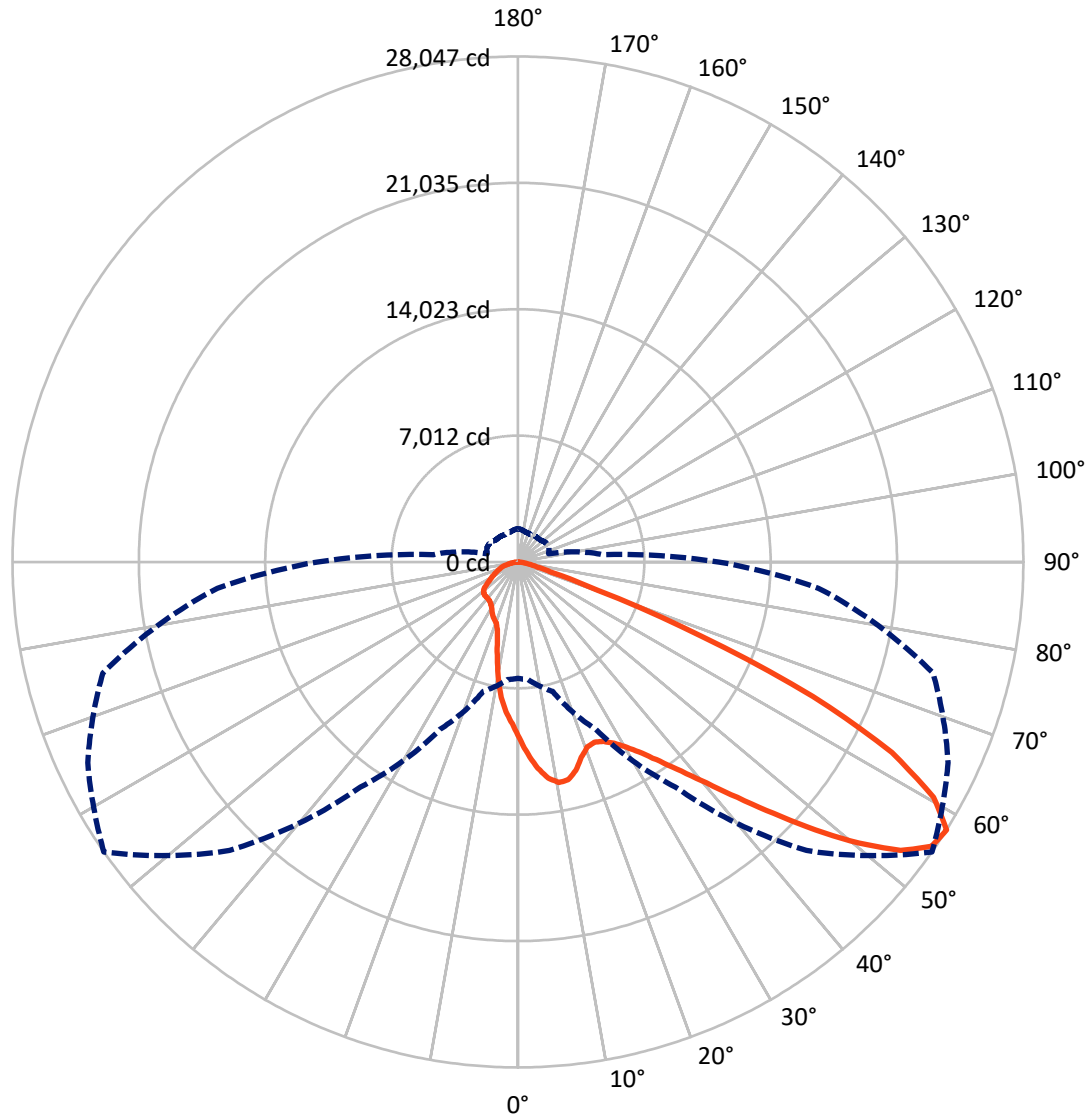
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.9 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	7062.1	0.0	7062.1
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	31966.9	0.0	31966.9
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	39029.0	0.0	39029.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	907.5	2.3
10°-20°	2290.5	5.9
20°-30°	3655.0	9.4
30°-40°	5786.7	14.8
40°-50°	8857.2	22.7
50°-60°	9486.9	24.3
60°-70°	5968.2	15.3
70°-80°	1764.9	4.5
80°-90°	312.1	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°	39029.0	100.0
0°-180°	39029.0	100.0

**Coefficient of Utilization**



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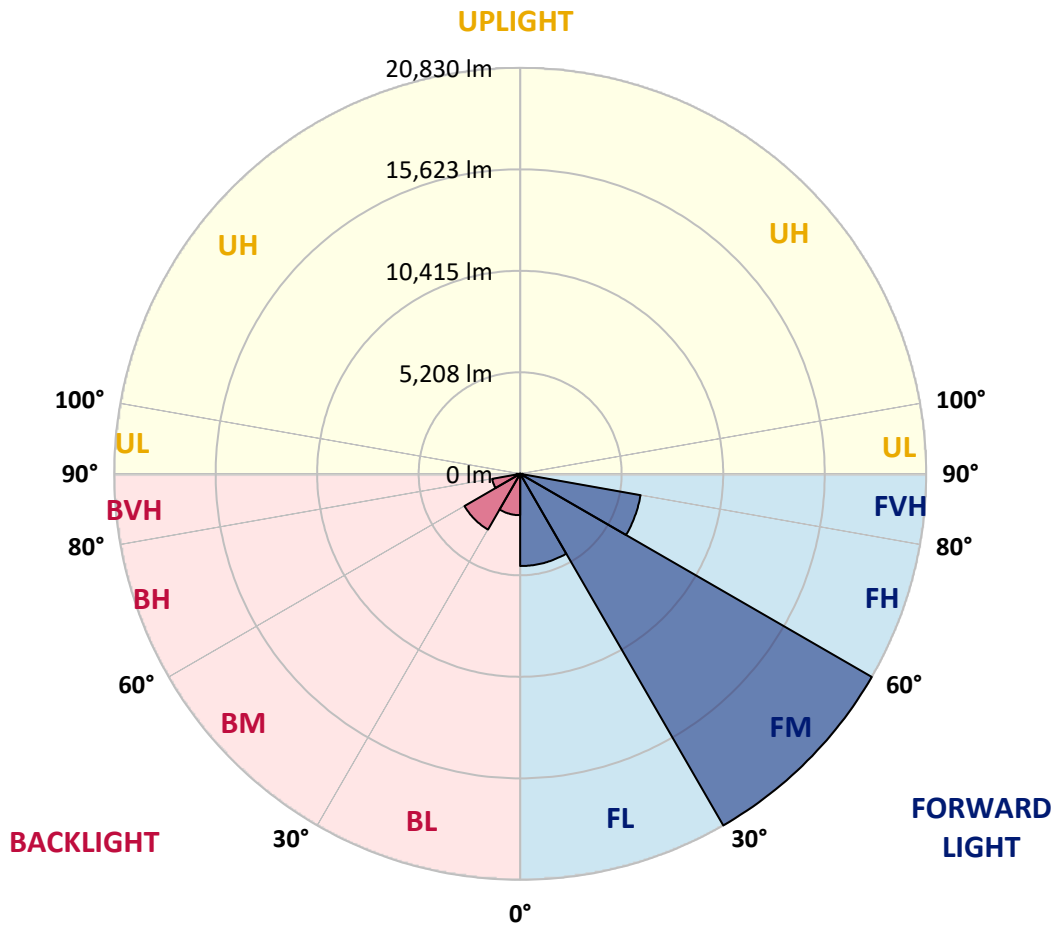
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4730.3	12.1			
FM (30°-60°)	20830.1	53.4			
FH (60°-80°)	6274.7	16.1			G3/7500
FVH (80°-90°)	131.8	0.3			G2/225
BL (0°-30°)	2122.6	5.4	B3/2500		
BM (30°-60°)	3300.8	8.5	B3/5000		
BH (60°-80°)	1458.5	3.7	B3/2500		G3/2500
BVH (80°-90°)	180.2	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°	9779.4	9779.4	9779.4	9779.4	9779.4	9779.4	9779.4	9779.4	9779.4	9779.4
2.5°	11220.0	11211.9	11256.3	11105.0	11002.1	10862.9	10679.3	10445.2	10193.0	9926.7
5°	12230.8	12160.2	12206.6	12093.6	11980.6	11770.8	11498.4	11117.1	10651.0	10120.4
7.5°	12071.4	12023.0	12142.0	12242.9	12327.7	12301.4	12101.7	11702.2	11100.9	10330.2
10°	10786.2	10731.7	10899.2	11248.2	11760.7	12206.6	12448.7	12200.5	11561.0	10560.2
12.5°	9652.3	9626.1	9737.0	10019.5	10588.5	11443.9	12404.3	12636.3	12039.1	10832.6
15°	9168.1	9135.8	9206.4	9349.6	9712.8	10509.8	12000.8	12935.0	12509.2	11147.3
17.5°	9061.1	9024.8	9055.1	9129.7	9363.8	9971.1	11391.5	13082.2	12999.5	11498.4
20°	9258.9	9228.6	9232.6	9228.6	9392.0	9874.2	10967.8	13025.7	13427.3	11821.2
22.5°	9737.0	9686.6	9688.6	9581.7	9670.4	10043.7	10856.8	12874.4	13808.6	12103.7
25°	10515.8	10425.0	10443.2	10170.8	10146.6	10423.0	11030.3	12757.4	14187.9	12329.7
27.5°	11581.1	11478.2	11423.8	11018.2	10824.5	10961.7	11383.4	12797.8	14547.0	12525.4
30°	12912.8	12787.7	12676.7	12101.7	11750.6	11700.2	11932.2	13064.1	14970.7	12731.2
32.5°	14545.0	14399.7	14198.0	13435.3	12941.0	12676.7	12642.4	13538.2	15467.1	12993.5
35°	16488.0	16298.3	16011.8	15025.2	14399.7	13859.0	13578.6	14222.2	16147.0	13388.9
37.5°	18489.5	18275.6	18013.3	16839.1	16070.3	15273.4	14720.6	15150.3	17052.9	13925.6
40°	20335.6	20095.5	19851.4	18806.2	17981.0	17020.6	16118.8	16324.6	18160.6	14567.2
42.5°	21425.1	21247.5	21154.7	20589.8	19952.2	18977.7	17857.9	17716.7	19405.5	15305.7
45°	21376.7	21304.0	21590.5	21824.6	21673.3	21132.5	19895.7	19256.2	20654.4	15945.2
47.5°	20234.7	20283.1	20922.7	22238.2	22817.3	23099.7	22216.0	20767.4	21739.8	16423.4
50°	17127.6	17167.9	18648.9	21485.6	23111.8	24703.7	24518.1	22242.2	22581.2	16716.0
52.5°	14668.1	14694.3	15329.9	19254.1	22139.3	25510.8	26592.2	23632.4	23196.6	16796.7
55°	11048.5	11139.3	11851.5	15105.9	19609.2	24871.2	27855.3	25064.9	23586.0	16804.8
57.5°	6454.4	6553.2	7432.9	10253.5	15241.1	22641.7	28046.9	26336.0	23850.3	16740.2
60°	3161.6	3204.0	3587.3	5389.1	9398.1	18346.2	26505.5	26951.4	23997.6	16705.9
62.5°	2130.6	2124.6	2140.7	2659.2	4630.4	11786.9	23293.4	25873.9	23918.9	16574.7
65°	1832.0	1809.8	1749.3	1866.3	2398.9	5391.1	17997.2	22657.9	23319.6	16245.9
67.5°	1583.8	1585.8	1587.9	1551.5	1713.0	2487.7	10998.0	17847.9	21168.9	14688.3
70°	1311.5	1329.6	1337.7	1337.7	1396.2	1632.3	4695.0	12232.8	16697.8	11516.6
72.5°	1194.4	1156.1	1160.1	1140.0	1140.0	1242.9	1890.5	6934.6	10519.9	6478.6
75°	974.5	998.7	1002.8	988.6	942.2	948.3	1121.8	2909.4	4501.3	2687.5
77.5°	841.3	841.3	849.4	839.3	803.0	710.2	748.5	1127.8	1531.4	1101.6
80°	675.9	673.9	708.2	728.4	671.9	524.6	478.2	623.4	679.9	484.2
82.5°	328.9	349.0	486.2	554.8	510.5	379.3	292.6	387.4	363.2	213.9
85°	191.7	181.6	217.9	308.7	292.6	209.8	141.2	201.8	189.7	109.0
87.5°	60.5	56.5	44.4	104.9	84.7	58.5	38.3	58.5	52.5	24.2
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°
9779.4	0°	9779.4	9779.4	9779.4	9779.4	9779.4	9779.4	9779.4	9779.4	9779.4	9779.4
9811.7	2.5°	9668.4	9430.4	9194.3	8978.4	8847.3	8762.5	8677.8	8583.0	8546.6	8492.2
9837.9	5°	9571.6	9111.6	8702.0	8348.9	8028.1	7775.9	7521.7	7315.9	7223.1	7285.6
9920.6	7.5°	9515.1	8849.3	8217.8	7570.1	6946.7	6448.3	6014.5	5709.9	5572.7	5607.0
10001.3	10°	9464.7	8552.7	7590.3	6567.4	5671.5	5054.1	4610.3	4378.2	4291.5	4309.6
10110.3	12.5°	9418.2	8219.8	6833.7	5487.9	4535.6	4128.0	4000.9	4003.0	4019.1	4031.2
10283.8	15°	9410.2	7818.3	5988.3	4543.7	3922.3	3896.0	4033.2	4120.0	4166.4	4180.5
10429.1	17.5°	9398.1	7338.1	5126.8	3900.1	3772.9	3950.5	4077.6	4134.1	4170.4	4172.4
10570.3	20°	9349.6	6728.8	4331.8	3593.4	3740.7	3894.0	3972.7	4017.1	4047.3	4057.4
10677.2	22.5°	9200.3	6050.8	3712.4	3456.2	3611.5	3734.6	3827.4	3877.9	3896.0	3908.1
10697.4	25°	8932.0	5292.2	3284.7	3325.0	3432.0	3587.3	3662.0	3672.1	3666.0	3684.2
10647.0	27.5°	8580.9	4479.1	3018.4	3147.5	3284.7	3417.8	3458.2	3452.1	3440.0	3460.2
10560.2	30°	8157.2	3748.7	2848.9	2947.7	3135.4	3256.4	3292.8	3278.6	3254.4	3276.6
10515.8	32.5°	7709.3	3151.5	2709.7	2808.5	3012.3	3131.3	3167.7	3153.5	3135.4	3153.5
10566.3	35°	7291.7	2733.9	2580.5	2715.7	2915.5	3032.5	3078.9	3080.9	3080.9	3103.1
10699.4	37.5°	6908.3	2489.7	2473.6	2657.2	2848.9	2953.8	3020.4	3024.4	2937.7	2943.7
10925.4	40°	6553.2	2386.8	2425.2	2618.9	2784.3	2885.2	2889.2	2663.3	2503.9	2499.8
11183.7	42.5°	6262.7	2366.7	2439.3	2614.8	2737.9	2741.9	2457.5	2281.9	2237.5	2239.6
11421.7	45°	5990.3	2360.6	2471.6	2614.8	2669.3	2368.7	2177.0	2130.6	2134.6	2150.8
11528.7	47.5°	5685.7	2336.4	2477.6	2578.5	2471.6	2106.4	2049.9	2029.7	2021.7	2025.7
11504.5	50°	5352.7	2249.6	2401.0	2505.9	2132.6	1993.4	1922.8	1916.7	1926.8	1932.9
11369.3	52.5°	5001.7	2108.4	2269.8	2374.7	1977.3	1894.5	1815.9	1830.0	1874.4	1888.5
11228.1	55°	4771.7	1943.0	2096.3	2112.4	1868.3	1801.7	1735.2	1767.4	1850.2	1876.4
11143.3	57.5°	4711.1	1767.4	1898.6	1880.4	1729.1	1721.0	1680.7	1708.9	1813.8	1852.2
11139.3	60°	4693.0	1610.1	1704.9	1690.8	1593.9	1632.3	1622.2	1636.3	1672.6	1684.7
11098.9	62.5°	4551.7	1485.0	1531.4	1511.2	1472.9	1539.4	1563.7	1533.4	1561.6	1575.8
10822.5	65°	4192.6	1384.1	1361.9	1347.8	1363.9	1424.4	1472.9	1412.3	1438.6	1478.9
9757.2	67.5°	3599.4	1246.9	1186.4	1202.5	1252.9	1285.2	1347.8	1279.2	1301.4	1370.0
7858.6	70°	2911.4	1073.4	1018.9	1065.3	1113.7	1180.3	1190.4	1144.0	1196.4	1273.1
4795.9	72.5°	2060.0	897.8	859.5	954.3	970.5	1057.2	1035.0	1012.8	1085.5	1111.7
2370.7	75°	1428.5	724.3	702.1	774.8	833.3	907.9	891.8	918.0	1071.4	1083.5
1184.3	77.5°	903.9	562.9	548.8	595.2	675.9	758.6	784.9	1083.5	1830.0	1902.6
615.4	80°	524.6	419.7	403.5	439.8	510.5	587.1	756.6	1329.6	1206.5	1192.4
276.4	82.5°	292.6	288.5	268.3	278.4	341.0	423.7	1069.3	936.2	760.6	784.9
111.0	85°	137.2	169.5	145.3	139.2	191.7	496.3	714.2	534.7	355.1	347.0
24.2	87.5°	36.3	32.3	32.3	36.3	80.7	427.7	284.5	228.0	135.2	131.1
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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