

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: P957307

Luminaire Tested: **GALN-SB9C-950-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957307  
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-SB9C-950-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

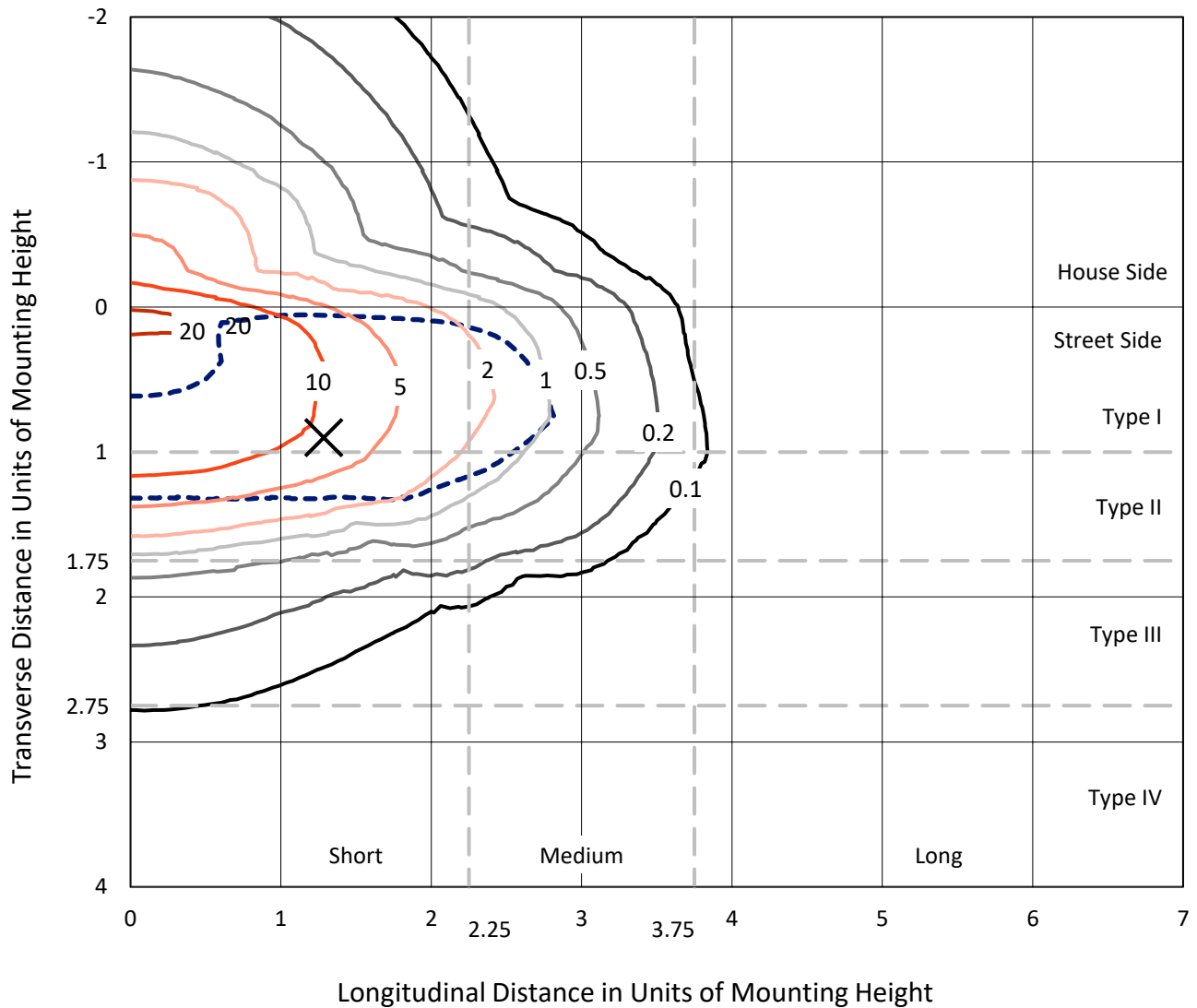
Lumens per Lamp: N/A  
Luminaire Lumens: 48261 lumens  
Efficiency: N/A  
Efficacy: 107.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 449.8  
Input Voltage (V): NR  
Input Current (Ain): 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

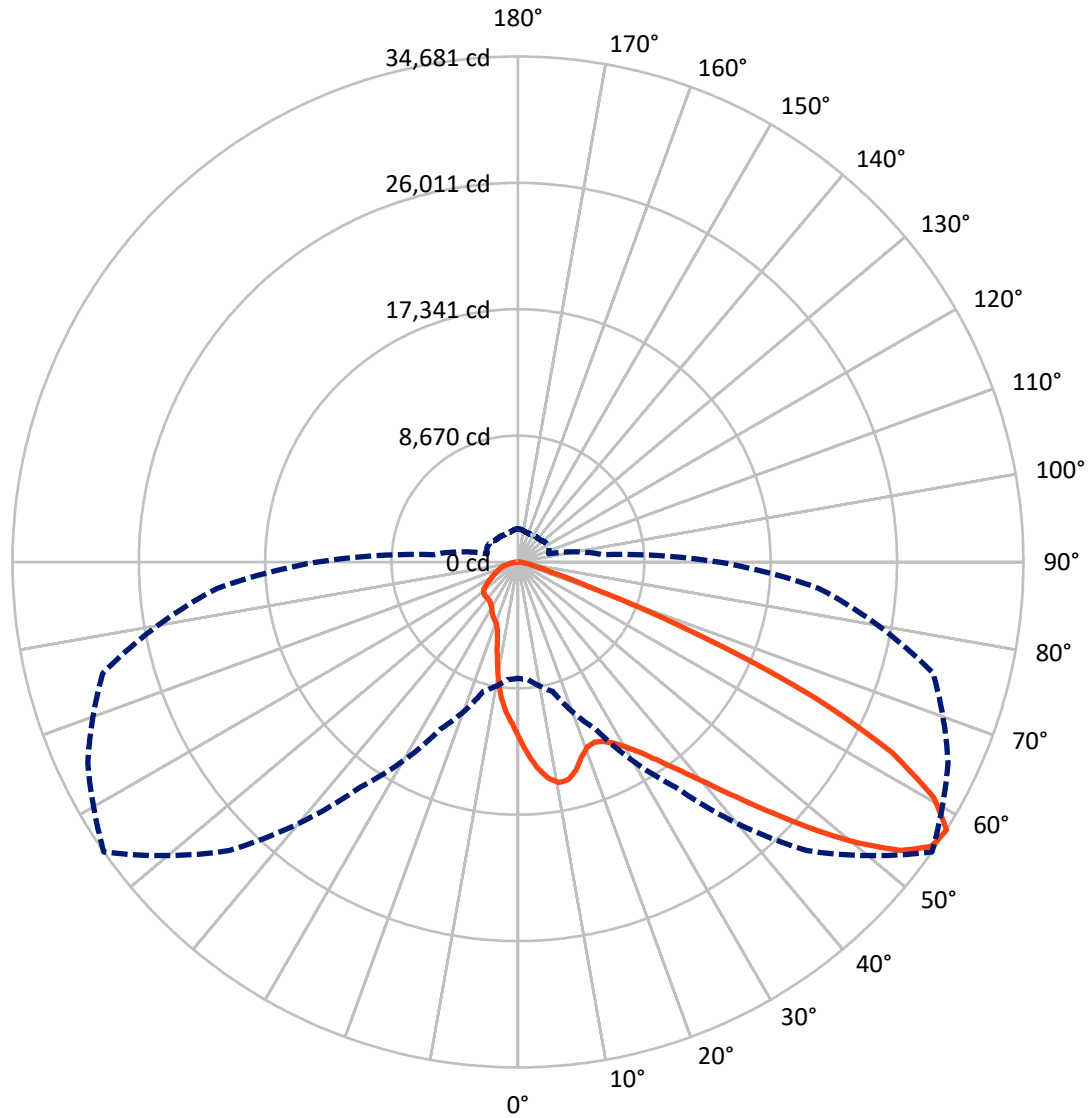
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.4 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
<b>House Side</b>	Lumens	8732.6	0.0	8732.6
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	39528.4	0.0	39528.4
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	48261.0	0.0	48261.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1122.1	2.3
10°-20°	2832.3	5.9
20°-30°	4519.5	9.4
30°-40°	7155.5	14.8
40°-50°	10952.3	22.7
50°-60°	11730.9	24.3
60°-70°	7380.0	15.3
70°-80°	2182.4	4.5
80°-90°	385.9	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°	48261.0	100.0
0°-180°	48261.0	100.0

**Coefficient of Utilization**



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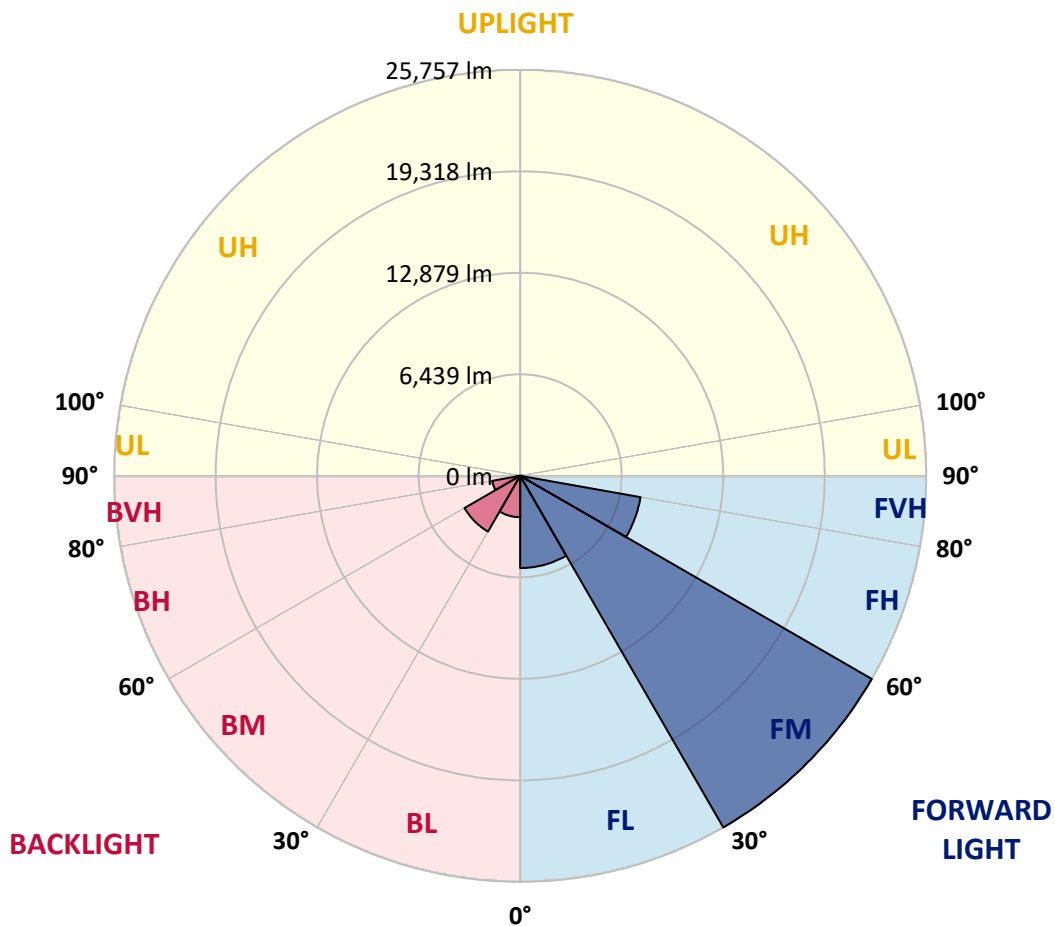
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5849.2	12.1			
FM (30°-60°)	25757.2	53.4			
FH (60°-80°)	7758.9	16.1			G4/12000
FVH (80°-90°)	163.0	0.3			G2/225
BL (0°-30°)	2624.7	5.4	B4/5000		
BM (30°-60°)	4081.5	8.5	B3/5000		
BH (60°-80°)	1803.5	3.7	B3/2500		G3/2500
BVH (80°-90°)	222.8	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12092.6	12092.6	12092.6	12092.6	12092.6	12092.6	12092.6	12092.6	12092.6	12092.6
2.5°	13874.0	13864.0	13918.9	13731.8	13604.5	13432.4	13205.4	12915.9	12604.1	12274.8
5°	15123.9	15036.6	15094.0	14954.3	14814.5	14555.1	14218.3	13746.7	13170.4	12514.3
7.5°	14926.8	14866.9	15014.1	15138.9	15243.7	15211.2	14964.2	14470.3	13726.8	12773.7
10°	13337.6	13270.2	13477.3	13908.9	14542.6	15094.0	15393.4	15086.5	14295.6	13058.2
12.5°	11935.5	11903.0	12040.2	12389.5	13093.1	14150.9	15338.5	15625.4	14886.9	13395.0
15°	11336.7	11296.8	11384.1	11561.2	12010.3	12995.8	14839.5	15994.6	15468.2	13784.2
17.5°	11204.5	11159.6	11197.0	11289.3	11578.7	12329.7	14086.0	16176.7	16074.5	14218.3
20°	11449.0	11411.5	11416.5	11411.5	11613.6	12209.9	13562.1	16106.9	16603.4	14617.4
22.5°	12040.2	11977.9	11980.4	11848.1	11957.9	12419.5	13424.9	15919.8	17074.9	14966.7
25°	13003.3	12891.0	12913.5	12576.6	12546.7	12888.5	13639.5	15775.1	17543.9	15246.2
27.5°	14320.6	14193.3	14126.0	13624.5	13385.0	13554.6	14076.1	15825.0	17988.0	15488.2
30°	15967.2	15812.5	15675.3	14964.2	14530.1	14467.8	14754.7	16154.3	18511.9	15742.6
32.5°	17985.5	17805.9	17556.4	16613.3	16002.1	15675.3	15632.9	16740.6	19125.7	16067.0
35°	20388.1	20153.6	19799.3	18579.3	17805.9	17137.3	16790.5	17586.3	19966.5	16556.0
37.5°	22863.0	22598.5	22274.2	20822.2	19871.6	18886.2	18202.6	18734.0	21086.7	17219.6
40°	25145.8	24848.9	24547.0	23254.7	22234.3	21046.7	19931.5	20186.0	22456.3	18013.0
42.5°	26493.0	26273.5	26158.7	25460.2	24671.8	23466.8	22082.1	21907.5	23995.7	18926.1
45°	26433.2	26343.3	26697.6	26987.0	26799.9	26131.3	24601.9	23811.0	25540.0	19717.0
47.5°	25021.1	25080.9	25871.8	27498.5	28214.5	28563.8	27471.0	25679.7	26882.2	20308.3
50°	21179.0	21228.9	23060.1	26567.9	28578.7	30547.2	30317.7	27503.5	27922.6	20670.0
52.5°	18137.7	18170.1	18956.0	23808.6	27376.2	31545.1	32882.4	29222.4	28683.5	20769.8
55°	13661.9	13774.2	14654.9	18679.1	24247.7	30754.3	34444.2	30993.8	29165.0	20779.8
57.5°	7981.1	8103.3	9191.1	12678.9	18846.3	27997.4	34681.2	32565.6	29491.9	20699.9
60°	3909.5	3961.9	4435.9	6663.8	11621.1	22685.9	32775.1	33326.5	29674.0	20657.5
62.5°	2634.6	2627.1	2647.1	3288.2	5725.7	14575.0	28803.3	31994.2	29576.7	20495.4
65°	2265.3	2237.9	2163.1	2307.8	2966.4	6666.3	22254.2	28017.4	28835.7	20088.7
67.5°	1958.5	1961.0	1963.5	1918.6	2118.1	3076.2	13599.5	22069.6	26176.2	18162.7
70°	1621.7	1644.1	1654.1	1654.1	1726.5	2018.4	5805.6	15126.4	20647.6	14240.7
72.5°	1477.0	1429.6	1434.6	1409.6	1409.6	1536.8	2337.7	8574.9	13008.3	8011.0
75°	1205.0	1235.0	1240.0	1222.5	1165.1	1172.6	1387.1	3597.6	5566.1	3323.2
77.5°	1040.4	1040.4	1050.3	1037.9	993.0	878.2	925.6	1394.6	1893.6	1362.2
80°	835.8	833.3	875.7	900.6	830.8	648.7	591.3	770.9	840.8	598.8
82.5°	406.7	431.6	601.3	686.1	631.2	469.0	361.8	479.0	449.1	264.5
85°	237.0	224.5	269.4	381.7	361.8	259.5	174.6	249.5	234.5	134.7
87.5°	74.8	69.9	54.9	129.7	104.8	72.4	47.4	72.4	64.9	29.9
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°
12092.6	0°	12092.6	12092.6	12092.6	12092.6	12092.6	12092.6	12092.6	12092.6	12092.6	12092.6
12132.6	2.5°	11955.4	11661.0	11369.1	11102.2	10940.0	10835.2	10730.4	10613.2	10568.3	10500.9
12165.0	5°	11835.7	11266.8	10760.4	10323.8	9927.1	9615.2	9300.9	9046.4	8931.6	9009.0
12267.3	7.5°	11765.8	10942.5	10161.6	9360.8	8589.8	7973.6	7437.2	7060.5	6890.8	6933.2
12367.1	10°	11703.4	10575.8	9385.7	8120.8	7013.1	6249.7	5700.8	5413.9	5306.6	5329.0
12501.8	12.5°	11646.1	10164.1	8450.1	6786.0	5608.5	5104.5	4947.3	4949.8	4969.8	4984.8
12716.4	15°	11636.1	9667.6	7404.8	5618.4	4850.0	4817.6	4987.2	5094.5	5151.9	5169.4
12896.0	17.5°	11621.1	9073.8	6339.5	4822.6	4665.4	4885.0	5042.1	5112.0	5156.9	5159.4
13070.6	20°	11561.2	8320.4	5356.5	4443.4	4625.5	4815.1	4912.4	4967.3	5004.7	5017.2
13202.9	22.5°	11376.6	7482.1	4590.6	4273.7	4465.8	4618.0	4732.8	4795.1	4817.6	4832.6
13227.8	25°	11044.8	6544.0	4061.7	4111.5	4243.8	4435.9	4528.2	4540.7	4533.2	4555.6
13165.4	27.5°	10610.7	5538.6	3732.3	3892.0	4061.7	4226.3	4276.2	4268.7	4253.8	4278.7
13058.2	30°	10086.8	4635.5	3522.8	3645.0	3877.0	4026.7	4071.6	4054.2	4024.2	4051.7
13003.3	32.5°	9532.9	3897.0	3350.6	3472.9	3724.8	3872.0	3916.9	3899.5	3877.0	3899.5
13065.6	35°	9016.5	3380.6	3190.9	3358.1	3605.1	3749.8	3807.2	3809.7	3809.7	3837.1
13230.3	37.5°	8542.4	3078.7	3058.7	3285.7	3522.8	3652.5	3734.8	3739.8	3632.5	3640.0
13509.7	40°	8103.3	2951.4	2998.8	3238.3	3442.9	3567.7	3572.7	3293.2	3096.1	3091.1
13829.1	42.5°	7744.1	2926.5	3016.3	3233.4	3385.5	3390.5	3038.8	2821.7	2766.8	2769.3
14123.5	45°	7407.3	2919.0	3056.2	3233.4	3300.7	2929.0	2692.0	2634.6	2639.6	2659.5
14255.7	47.5°	7030.5	2889.1	3063.7	3188.4	3056.2	2604.6	2534.8	2509.8	2499.9	2504.9
14225.8	50°	6618.9	2781.8	2968.9	3098.6	2637.1	2464.9	2377.6	2370.1	2382.6	2390.1
14058.6	52.5°	6184.8	2607.1	2806.7	2936.5	2445.0	2342.7	2245.4	2262.8	2317.7	2335.2
13884.0	55°	5900.4	2402.6	2592.2	2612.1	2310.3	2227.9	2145.6	2185.5	2287.8	2320.2
13779.2	57.5°	5825.5	2185.5	2347.7	2325.2	2138.1	2128.1	2078.2	2113.2	2242.9	2290.3
13774.2	60°	5803.1	1990.9	2108.2	2090.7	1970.9	2018.4	2005.9	2023.3	2068.2	2083.2
13724.3	62.5°	5628.4	1836.2	1893.6	1868.7	1821.3	1903.6	1933.5	1896.1	1931.0	1948.5
13382.5	65°	5184.3	1711.5	1684.0	1666.6	1686.5	1761.4	1821.3	1746.4	1778.8	1828.7
12065.2	67.5°	4450.8	1541.8	1467.0	1486.9	1549.3	1589.2	1666.6	1581.7	1609.2	1694.0
9717.5	70°	3600.1	1327.3	1259.9	1317.3	1377.2	1459.5	1472.0	1414.6	1479.5	1574.3
5930.3	72.5°	2547.3	1110.2	1062.8	1180.1	1200.0	1307.3	1279.9	1252.4	1342.2	1374.7
2931.5	75°	1766.4	895.7	868.2	958.0	1030.4	1122.7	1102.7	1135.2	1324.8	1339.7
1464.5	77.5°	1117.7	696.1	678.6	736.0	835.8	938.1	970.5	1339.7	2262.8	2352.7
760.9	80°	648.7	518.9	499.0	543.9	631.2	726.0	935.6	1644.1	1491.9	1474.5
341.8	82.5°	361.8	356.8	331.8	344.3	421.6	523.9	1322.3	1157.6	940.6	970.5
137.2	85°	169.7	209.6	179.6	172.1	237.0	613.7	883.2	661.1	439.1	429.1
29.9	87.5°	44.9	39.9	39.9	44.9	99.8	528.9	351.8	281.9	167.2	162.2
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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