

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: P955333

Luminaire Tested: **GALN-SB8B-827-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955333
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-SB8B-827-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40269 lumens
Efficiency: N/A
Efficacy: 137.5 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

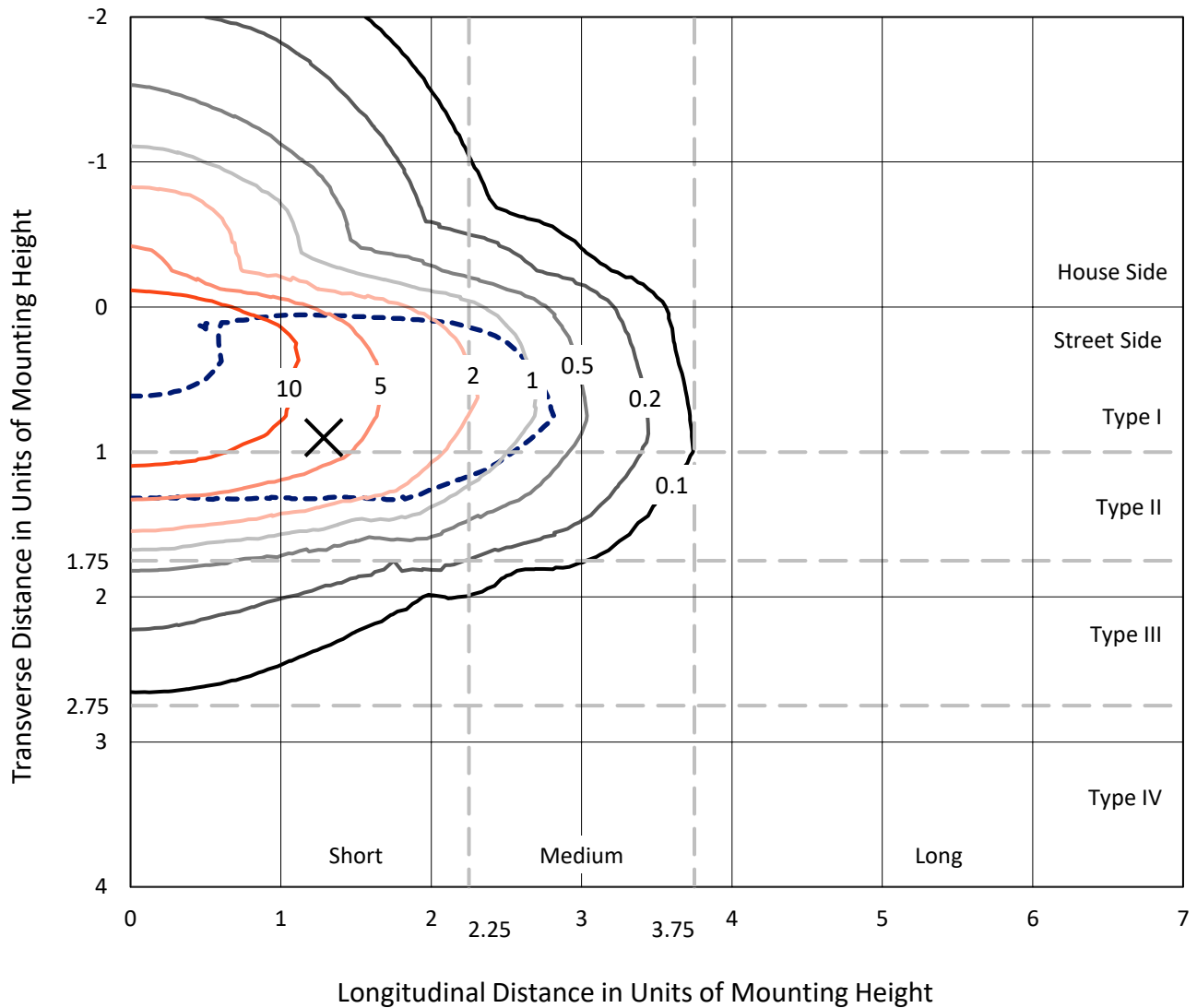
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

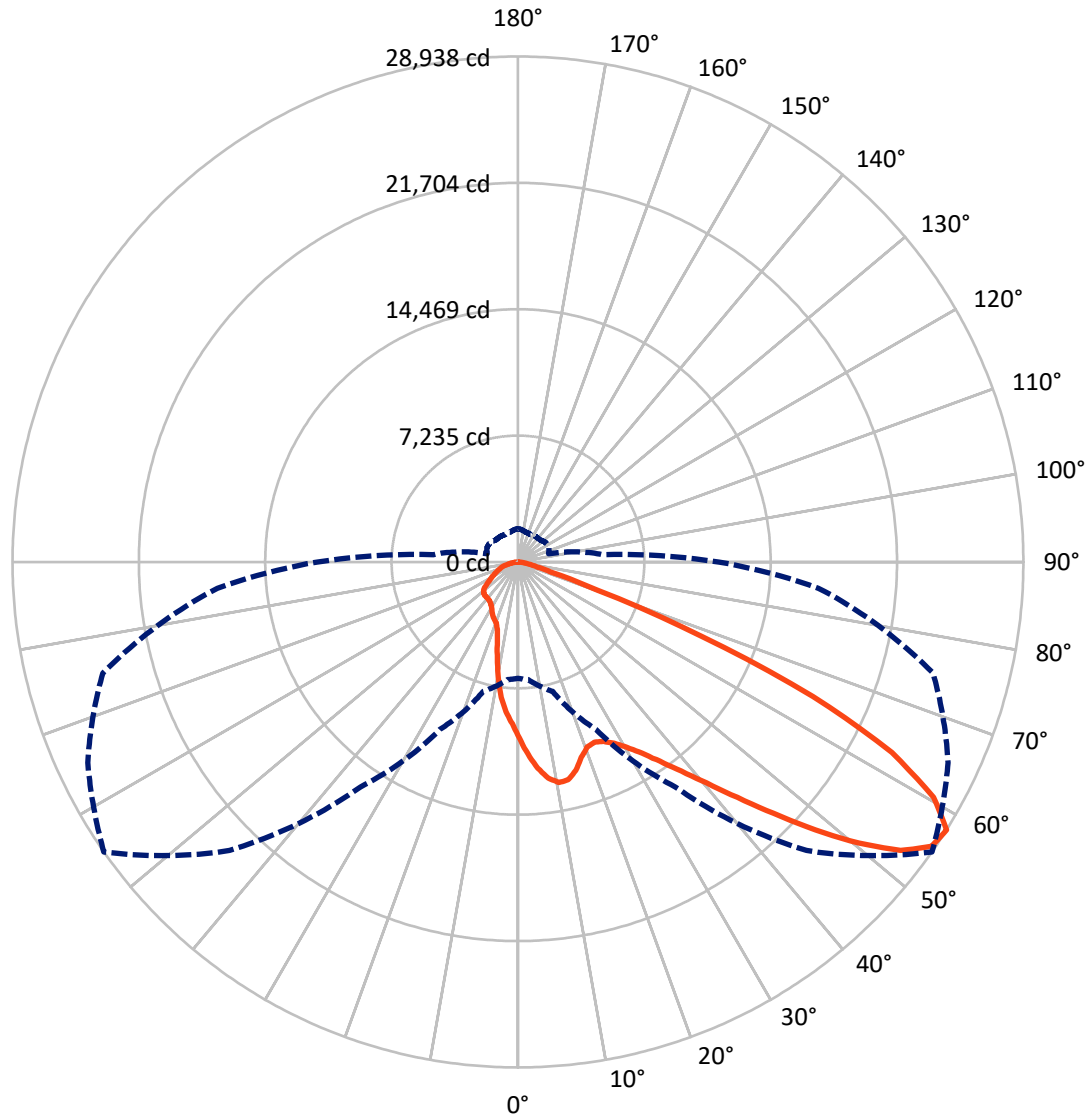
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.5 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	7286.5	0.0	7286.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	32982.5	0.0	32982.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	40269.0	0.0	40269.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	936.3	2.3
10°-20°	2363.3	5.9
20°-30°	3771.1	9.4
30°-40°	5970.6	14.8
40°-50°	9138.6	22.7
50°-60°	9788.3	24.3
60°-70°	6157.9	15.3
70°-80°	1821.0	4.5
80°-90°	322.0	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°	40269.0	100.0
0°-180°	40269.0	100.0

Coefficient of Utilization



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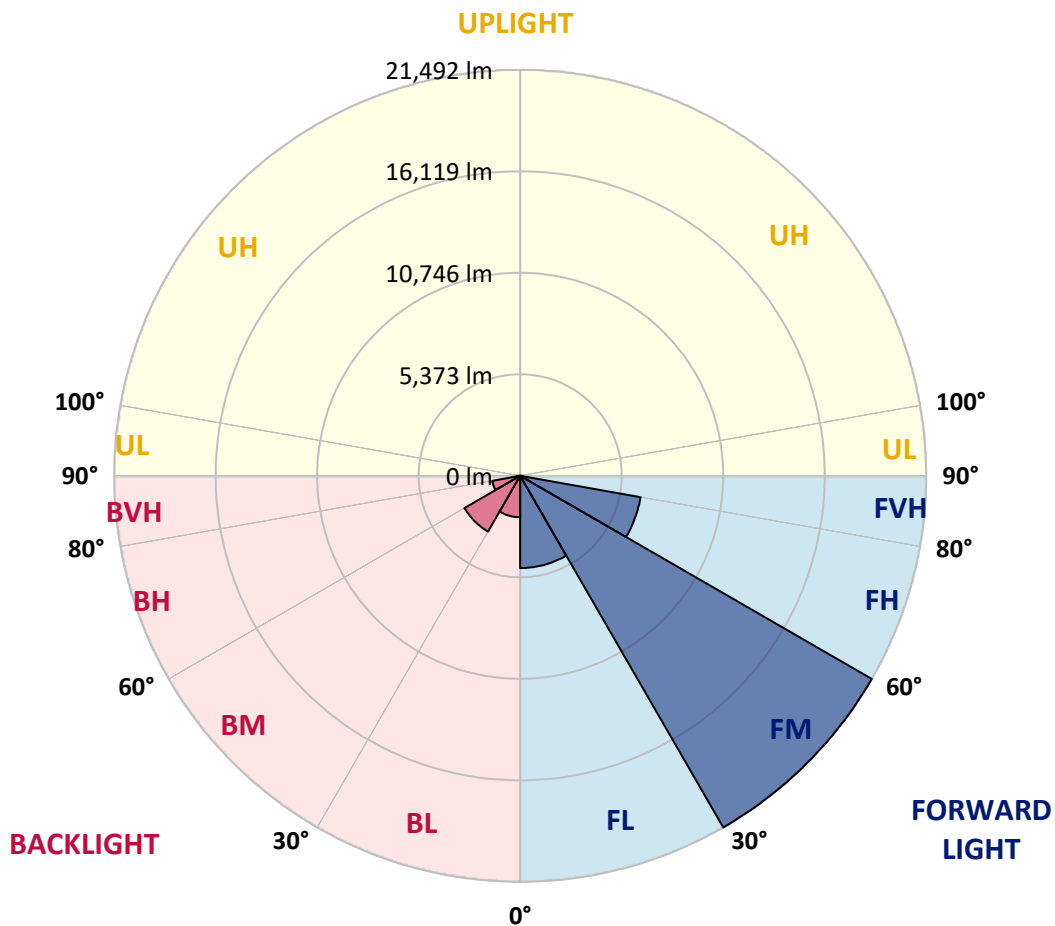
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4880.6	12.1			
FM (30°-60°)	21491.9	53.4			
FH (60°-80°)	6474.0	16.1			G3/7500
FVH (80°-90°)	136.0	0.3			G2/225
BL (0°-30°)	2190.1	5.4	B3/2500		
BM (30°-60°)	3405.6	8.5	B3/5000		
BH (60°-80°)	1504.8	3.7	B3/2500		G3/2500
BVH (80°-90°)	185.9	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°	10090.1	10090.1	10090.1	10090.1	10090.1	10090.1	10090.1	10090.1	10090.1	10090.1
2.5°	11576.5	11568.1	11613.9	11457.8	11351.6	11208.0	11018.6	10777.1	10516.9	10242.1
5°	12619.4	12546.5	12594.4	12477.8	12361.3	12144.8	11863.7	11470.3	10989.4	10441.9
7.5°	12454.9	12405.0	12527.8	12631.9	12719.3	12692.3	12486.2	12074.0	11453.6	10658.4
10°	11128.9	11072.7	11245.5	11605.6	12134.4	12594.4	12844.2	12588.2	11928.3	10895.7
12.5°	9959.0	9931.9	10046.4	10337.8	10924.9	11807.5	12798.4	13037.8	12421.6	11176.8
15°	9459.3	9426.0	9498.9	9646.7	10021.4	10843.7	12382.1	13345.9	12906.7	11501.5
17.5°	9349.0	9311.5	9342.8	9419.8	9661.3	10287.9	11753.4	13497.9	13412.5	11863.7
20°	9553.0	9521.8	9526.0	9521.8	9690.4	10187.9	11316.2	13439.6	13853.9	12196.8
22.5°	10046.4	9994.3	9996.4	9886.1	9977.7	10362.8	11201.7	13283.5	14247.3	12488.2
25°	10849.9	10756.3	10775.0	10494.0	10469.0	10754.2	11380.8	13162.7	14638.7	12721.4
27.5°	11949.1	11842.9	11786.7	11368.3	11168.4	11310.0	11745.1	13204.4	15009.2	12923.3
30°	13323.0	13194.0	13079.5	12486.2	12123.9	12071.9	12311.3	13479.1	15446.4	13135.7
32.5°	15007.1	14857.2	14649.1	13862.2	13352.2	13079.5	13044.1	13968.4	15958.5	13406.3
35°	17011.8	16816.1	16520.5	15502.6	14857.2	14299.3	14010.0	14674.1	16660.0	13814.3
37.5°	19076.9	18856.2	18585.6	17374.0	16580.9	15758.6	15188.2	15631.6	17594.7	14368.0
40°	20981.7	20733.9	20482.1	19403.7	18552.3	17561.4	16630.9	16843.2	18737.6	15030.0
42.5°	22105.8	21922.6	21826.9	21244.0	20586.1	19580.7	18425.3	18279.6	20022.0	15791.9
45°	22055.8	21980.9	22276.5	22518.0	22361.9	21804.0	20527.9	19868.0	21310.6	16451.8
47.5°	20877.6	20927.5	21587.5	22944.7	23542.2	23833.6	22921.8	21427.2	22430.5	16945.2
50°	17671.7	17713.4	19241.4	22168.3	23846.1	25488.6	25297.1	22948.9	23298.6	17247.1
52.5°	15134.1	15161.2	15816.9	19865.9	22842.7	26321.3	27437.1	24383.2	23933.6	17330.3
55°	11399.5	11493.2	12228.0	15585.8	20232.3	25661.4	28740.2	25861.2	24335.3	17338.7
57.5°	6659.4	6761.4	7669.1	10579.3	15725.3	23361.1	28938.0	27172.7	24608.0	17272.0
60°	3262.1	3305.8	3701.3	5560.3	9696.7	18929.1	27347.6	27807.6	24760.0	17236.7
62.5°	2198.3	2192.1	2208.7	2743.7	4777.6	12161.4	24033.5	26696.0	24678.8	17101.3
65°	1890.2	1867.3	1804.9	1925.6	2475.2	5562.4	18569.0	23377.7	24060.5	16762.0
67.5°	1634.2	1636.2	1638.3	1600.8	1767.4	2566.8	11347.5	18414.9	21841.4	15154.9
70°	1353.1	1371.9	1380.2	1380.2	1440.6	1684.1	4844.2	12621.5	17228.3	11882.5
72.5°	1232.4	1192.8	1197.0	1176.2	1176.2	1282.3	1950.6	7154.9	10854.1	6684.4
75°	1005.5	1030.5	1034.6	1020.0	972.2	978.4	1157.4	3001.8	4644.3	2772.9
77.5°	868.1	868.1	876.4	866.0	828.5	732.8	772.3	1163.7	1580.0	1136.6
80°	697.4	695.3	730.7	751.5	693.2	541.2	493.4	643.3	701.5	499.6
82.5°	339.3	360.1	501.7	572.5	526.7	391.4	301.8	399.7	374.7	220.7
85°	197.8	187.4	224.8	318.5	301.8	216.5	145.7	208.2	195.7	112.4
87.5°	62.5	58.3	45.8	108.2	87.4	60.4	39.6	60.4	54.1	25.0
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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CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
10090.1	0°	10090.1	10090.1	10090.1	10090.1	10090.1	10090.1	10090.1	10090.1	10090.1	10090.1
10123.4	2.5°	9975.6	9730.0	9486.4	9263.7	9128.3	9040.9	8953.5	8855.6	8818.2	8762.0
10150.5	5°	9875.7	9401.1	8978.5	8614.2	8283.2	8023.0	7760.7	7548.3	7452.6	7517.1
10235.8	7.5°	9817.4	9130.4	8478.9	7810.6	7167.4	6653.2	6205.6	5891.3	5749.7	5785.1
10319.1	10°	9765.4	8824.4	7831.4	6776.0	5851.7	5214.7	4756.7	4517.3	4427.8	4446.6
10431.5	12.5°	9717.5	8480.9	7050.8	5662.3	4679.7	4259.2	4128.1	4130.1	4146.8	4159.3
10610.5	15°	9709.1	8066.7	6178.5	4688.0	4046.9	4019.8	4161.4	4250.9	4298.8	4313.3
10760.4	17.5°	9696.7	7571.2	5289.7	4024.0	3892.8	4076.0	4207.2	4265.4	4302.9	4305.0
10906.1	20°	9646.7	6942.5	4469.5	3707.5	3859.5	4017.7	4098.9	4144.7	4175.9	4186.3
11016.5	22.5°	9492.7	6243.1	3830.4	3566.0	3726.3	3853.3	3949.0	4001.1	4019.8	4032.3
11037.3	25°	9215.8	5460.4	3389.0	3430.7	3541.0	3701.3	3778.3	3788.7	3782.5	3801.2
10985.2	27.5°	8853.6	4621.4	3114.3	3247.5	3389.0	3526.4	3568.1	3561.8	3549.3	3570.2
10895.7	30°	8416.4	3867.8	2939.4	3041.4	3235.0	3359.9	3397.4	3382.8	3357.8	3380.7
10849.9	32.5°	7954.3	3251.6	2795.8	2897.8	3108.0	3230.8	3268.3	3253.7	3235.0	3253.7
10902.0	35°	7523.3	2820.7	2662.5	2802.0	3008.1	3128.8	3176.7	3178.8	3178.8	3201.7
11039.4	37.5°	7127.8	2568.8	2552.2	2741.6	2939.4	3047.6	3116.3	3120.5	3031.0	3037.2
11272.5	40°	6761.4	2462.7	2502.2	2702.1	2872.8	2976.9	2981.0	2747.9	2583.4	2579.3
11539.0	42.5°	6461.7	2441.9	2516.8	2697.9	2824.9	2829.1	2535.5	2354.4	2308.6	2310.7
11784.6	45°	6180.6	2435.6	2550.1	2697.9	2754.1	2443.9	2246.2	2198.3	2202.5	2219.1
11895.0	47.5°	5866.3	2410.6	2556.4	2660.4	2550.1	2173.3	2115.0	2094.2	2085.9	2090.0
11870.0	50°	5522.8	2321.1	2477.2	2585.5	2200.4	2056.7	1983.9	1977.6	1988.0	1994.3
11730.5	52.5°	5160.6	2175.4	2341.9	2450.2	2040.1	1954.7	1873.5	1888.1	1933.9	1948.5
11584.8	55°	4923.3	2004.7	2162.9	2179.6	1927.7	1859.0	1790.3	1823.6	1908.9	1936.0
11497.3	57.5°	4860.8	1823.6	1958.9	1940.2	1784.0	1775.7	1734.1	1763.2	1871.5	1911.0
11493.2	60°	4842.1	1661.2	1759.1	1744.5	1644.6	1684.1	1673.7	1688.3	1725.7	1738.2
11451.6	62.5°	4696.4	1532.1	1580.0	1559.2	1519.7	1588.4	1613.3	1582.1	1611.3	1625.8
11166.4	65°	4325.8	1428.1	1405.2	1390.6	1407.2	1469.7	1519.7	1457.2	1484.3	1525.9
10067.2	67.5°	3713.8	1286.5	1224.1	1240.7	1292.7	1326.1	1390.6	1319.8	1342.7	1413.5
8108.3	70°	3003.9	1107.5	1051.3	1099.1	1149.1	1217.8	1228.2	1180.3	1234.5	1313.6
4948.3	72.5°	2125.4	926.4	886.8	984.7	1001.3	1090.8	1067.9	1045.0	1120.0	1147.0
2446.0	75°	1473.9	747.3	724.4	799.4	859.8	936.8	920.1	947.2	1105.4	1117.9
1222.0	77.5°	932.6	580.8	566.2	614.1	697.4	782.7	809.8	1117.9	1888.1	1963.1
634.9	80°	541.2	433.0	416.3	453.8	526.7	605.8	780.6	1371.9	1244.9	1230.3
285.2	82.5°	301.8	297.7	276.9	287.3	351.8	437.2	1103.3	965.9	784.8	809.8
114.5	85°	141.6	174.9	149.9	143.6	197.8	512.1	736.9	551.7	366.4	358.1
25.0	87.5°	37.5	33.3	33.3	37.5	83.3	441.3	293.5	235.2	139.5	135.3
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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