

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: P956404

Luminaire Tested: **GALN-SB9A-827-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956404  
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-SB9A-827-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

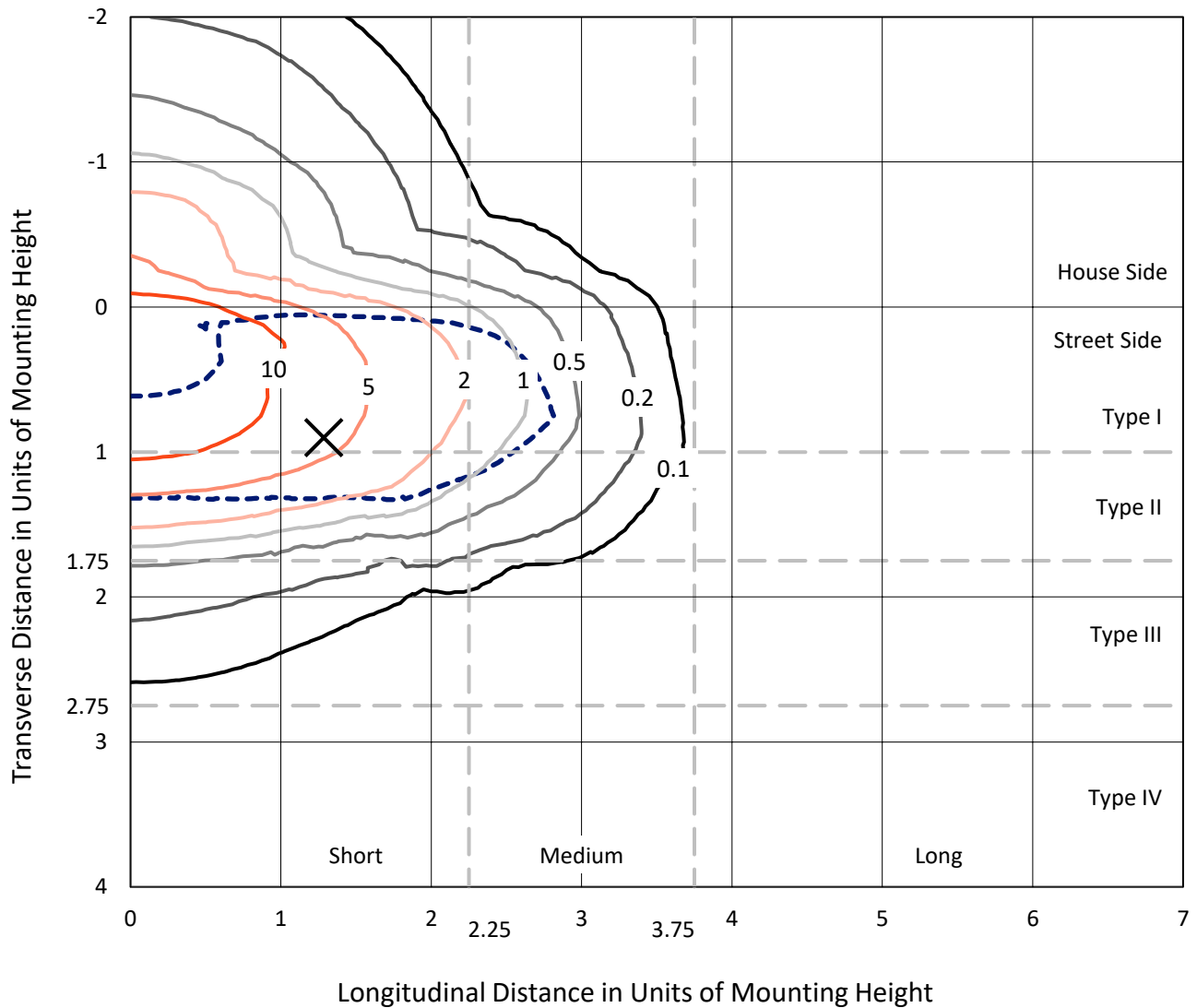
Lumens per Lamp: N/A  
Luminaire Lumens: 36134 lumens  
Efficiency: N/A  
Efficacy: 141.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 255.5  
Input Voltage (V): NR  
Input Current (Ain): 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

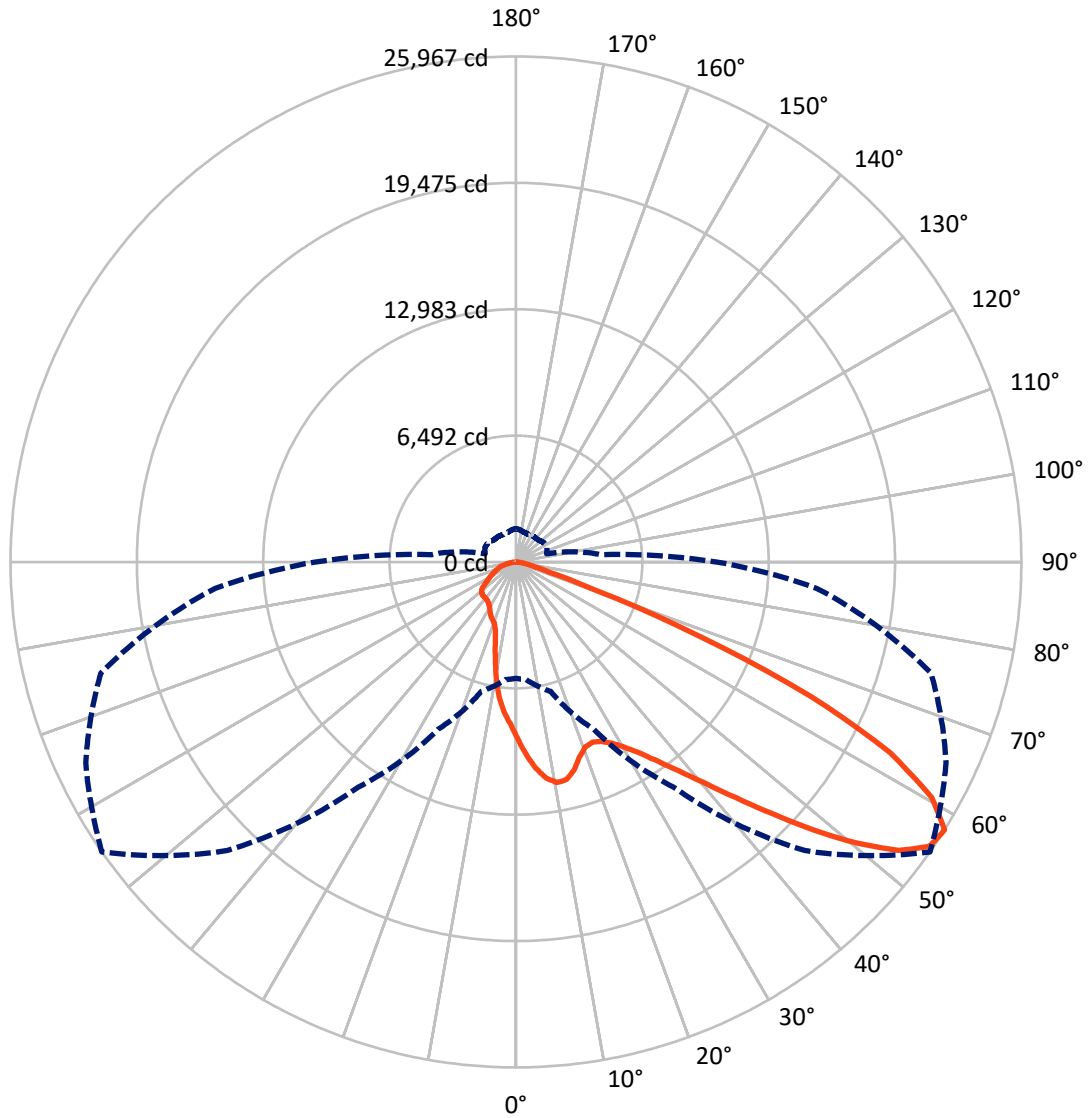
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.5 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
<b>House Side</b>	Lumens	6538.3	0.0	6538.3
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	29595.7	0.0	29595.7
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	36134.0	0.0	36134.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	840.2	2.3
10°-20°	2120.6	5.9
20°-30°	3383.9	9.4
30°-40°	5357.5	14.8
40°-50°	8200.2	22.7
50°-60°	8783.2	24.3
60°-70°	5525.5	15.3
70°-80°	1634.0	4.5
80°-90°	288.9	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°	36134.0	100.0
0°-180°	36134.0	100.0

**Coefficient of Utilization**



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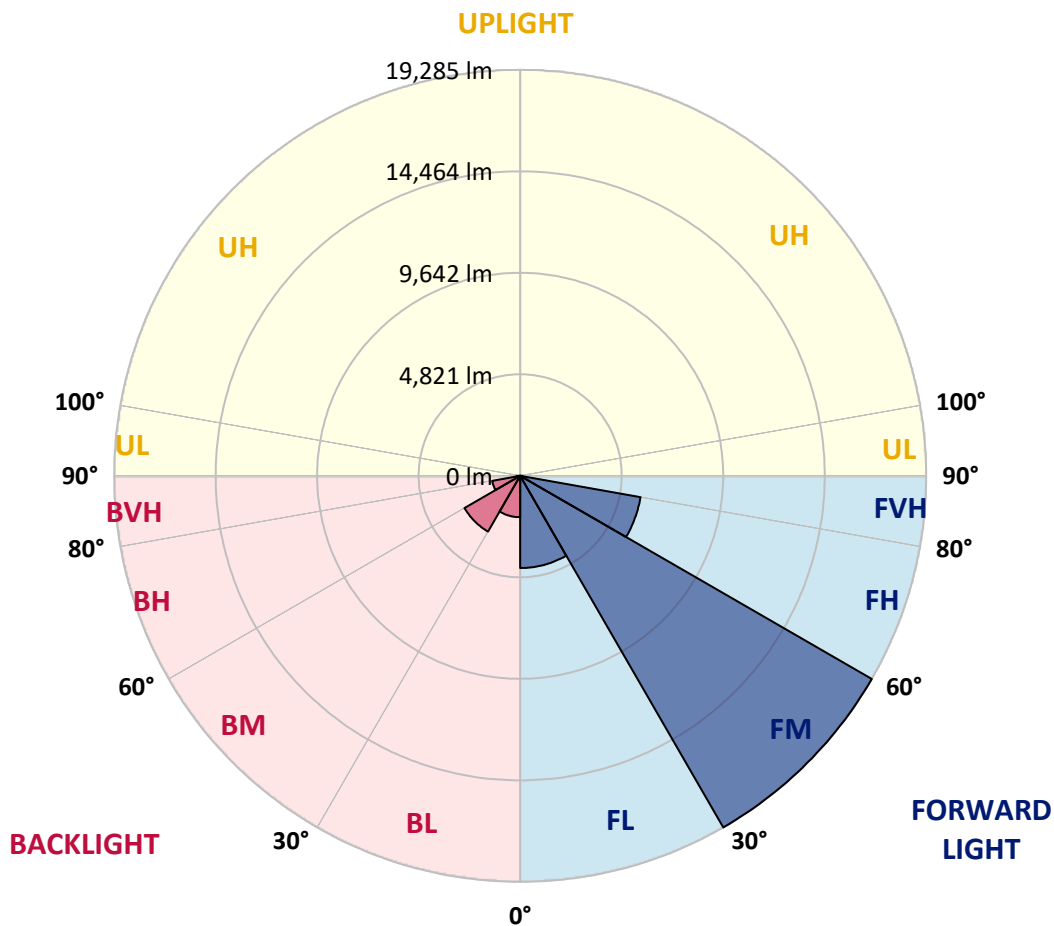
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4379.4	12.1			
FM (30°-60°)	19285.0	53.4			
FH (60°-80°)	5809.2	16.1			G3/7500
FVH (80°-90°)	122.1	0.3			G2/225
BL (0°-30°)	1965.2	5.4	B3/2500		
BM (30°-60°)	3055.9	8.5	B3/5000		
BH (60°-80°)	1350.3	3.7	B3/2500		G3/2500
BVH (80°-90°)	166.8	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9054.0	9054.0	9054.0	9054.0	9054.0	9054.0	9054.0	9054.0	9054.0	9054.0
2.5°	10387.7	10380.3	10421.4	10281.3	10186.0	10057.1	9887.1	9670.4	9436.9	9190.4
5°	11323.6	11258.2	11301.2	11196.6	11092.0	10897.7	10645.5	10292.5	9861.0	9369.7
7.5°	11176.0	11131.2	11241.4	11334.8	11413.2	11389.0	11204.0	10834.2	10277.5	9564.0
10°	9986.1	9935.7	10090.7	10413.9	10888.3	11301.2	11525.3	11295.6	10703.4	9776.9
12.5°	8936.3	8912.0	9014.8	9276.3	9803.1	10595.1	11484.2	11699.0	11146.1	10029.1
15°	8488.0	8458.1	8523.5	8656.1	8992.4	9730.2	11110.6	11975.5	11581.4	10320.5
17.5°	8389.0	8355.4	8383.4	8452.5	8669.2	9231.5	10546.5	12111.9	12035.3	10645.5
20°	8572.1	8544.1	8547.8	8544.1	8695.4	9141.8	10154.2	12059.6	12431.3	10944.4
22.5°	9014.8	8968.1	8969.9	8870.9	8953.1	9298.7	10051.5	11919.5	12784.3	11205.9
25°	9735.8	9651.8	9668.6	9416.4	9394.0	9649.9	10212.1	11811.1	13135.5	11415.1
27.5°	10722.1	10626.8	10576.4	10200.9	10021.6	10148.6	10539.0	11848.5	13468.0	11596.3
30°	11955.0	11839.1	11736.4	11204.0	10879.0	10832.3	11047.1	12095.0	13860.3	11786.8
32.5°	13466.1	13331.6	13144.8	12438.8	11981.1	11736.4	11704.6	12534.0	14319.8	12029.7
35°	15265.0	15089.4	14824.1	13910.7	13331.6	12831.0	12571.4	13167.3	14949.3	12395.8
37.5°	17118.0	16920.0	16677.2	15590.0	14878.3	14140.5	13628.6	14026.5	15788.0	12892.7
40°	18827.2	18604.9	18378.9	17411.3	16647.3	15758.1	14923.1	15113.7	16813.5	13486.7
42.5°	19835.9	19671.5	19585.6	19062.5	18472.3	17570.0	16533.3	16402.6	17966.0	14170.4
45°	19791.0	19723.8	19989.1	20205.7	20065.6	19565.0	18420.0	17827.8	19122.3	14762.5
47.5°	18733.8	18778.6	19370.8	20588.7	21124.8	21386.3	20568.1	19226.9	20127.3	15205.2
50°	15857.1	15894.5	17265.6	19891.9	21397.5	22871.3	22699.5	20592.4	20906.2	15476.1
52.5°	13580.1	13604.4	14192.8	17826.0	20497.1	23618.5	24619.7	21879.4	21475.9	15550.8
55°	10229.0	10313.0	10972.4	13985.4	18154.7	23026.4	25789.1	23205.7	21836.5	15558.2
57.5°	5975.6	6067.1	6881.6	9493.0	14110.6	20962.3	25966.5	24382.5	22081.2	15498.5
60°	2927.1	2966.3	3321.2	4989.3	8701.0	16985.4	24539.4	24952.2	22217.5	15466.7
62.5°	1972.6	1967.0	1981.9	2462.0	4287.0	10912.6	21565.6	23954.7	22144.7	15345.3
65°	1696.1	1675.6	1619.5	1727.9	2221.0	4991.2	16662.2	20977.2	21589.9	15040.8
67.5°	1466.3	1468.2	1470.1	1436.5	1585.9	2303.2	10182.3	16524.0	19598.6	13598.8
70°	1214.2	1231.0	1238.5	1238.5	1292.6	1511.2	4346.7	11325.4	15459.2	10662.3
72.5°	1105.8	1070.3	1074.1	1055.4	1055.4	1150.7	1750.3	6420.2	9739.5	5998.0
75°	902.2	924.6	928.4	915.3	872.3	877.9	1038.6	2693.6	4167.4	2488.1
77.5°	778.9	778.9	786.4	777.1	743.4	657.5	693.0	1044.2	1417.8	1019.9
80°	625.8	623.9	655.7	674.3	622.0	485.7	442.7	577.2	629.5	448.3
82.5°	304.5	323.2	450.2	513.7	472.6	351.2	270.9	358.6	336.2	198.0
85°	177.5	168.1	201.7	285.8	270.9	194.3	130.8	186.8	175.6	100.9
87.5°	56.0	52.3	41.1	97.1	78.5	54.2	35.5	54.2	48.6	22.4
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°
9054.0	0°	9054.0	9054.0	9054.0	9054.0	9054.0	9054.0	9054.0	9054.0	9054.0	9054.0
9083.9	2.5°	8951.3	8730.9	8512.3	8312.4	8191.0	8112.6	8034.1	7946.3	7912.7	7862.2
9108.2	5°	8861.6	8435.7	8056.5	7729.6	7432.6	7199.1	6963.8	6773.2	6687.3	6745.2
9184.8	7.5°	8809.3	8192.9	7608.2	7008.6	6431.4	5970.0	5568.4	5286.3	5159.3	5191.1
9259.5	10°	8762.6	7918.3	7027.3	6080.2	5250.8	4679.2	4268.3	4053.5	3973.2	3990.0
9360.4	12.5°	8719.6	7610.1	6326.8	5080.9	4199.2	3821.8	3704.2	3706.0	3721.0	3732.2
9521.0	15°	8712.2	7238.3	5544.1	4206.6	3631.3	3607.0	3734.1	3814.4	3857.3	3870.4
9655.5	17.5°	8701.0	6793.8	4746.5	3610.8	3493.1	3657.5	3775.1	3827.5	3861.1	3862.9
9786.2	20°	8656.1	6229.7	4010.5	3326.8	3463.2	3605.2	3678.0	3719.1	3747.1	3756.5
9885.3	22.5°	8517.9	5602.0	3437.0	3199.8	3343.7	3457.6	3543.5	3590.2	3607.0	3618.2
9903.9	25°	8269.5	4899.7	3041.0	3078.4	3177.4	3321.2	3390.3	3399.7	3394.1	3410.9
9857.2	27.5°	7944.4	4146.9	2794.5	2914.0	3041.0	3164.3	3201.7	3196.1	3184.9	3203.6
9776.9	30°	7552.2	3470.7	2637.6	2729.1	2902.8	3014.9	3048.5	3035.4	3013.0	3033.6
9735.8	32.5°	7137.5	2917.8	2508.7	2600.2	2788.9	2899.1	2932.7	2919.6	2902.8	2919.6
9782.5	35°	6750.8	2531.1	2389.1	2514.3	2699.2	2807.5	2850.5	2852.4	2852.4	2872.9
9905.8	37.5°	6395.9	2305.1	2290.1	2460.1	2637.6	2734.7	2796.3	2800.1	2719.8	2725.4
10115.0	40°	6067.1	2209.8	2245.3	2424.6	2577.8	2671.2	2674.9	2465.7	2318.1	2314.4
10354.1	42.5°	5798.2	2191.1	2258.4	2420.9	2534.8	2538.6	2275.2	2112.7	2071.6	2073.4
10574.5	45°	5546.0	2185.5	2288.3	2420.9	2471.3	2193.0	2015.5	1972.6	1976.3	1991.2
10673.5	47.5°	5263.9	2163.1	2293.9	2387.3	2288.3	1950.2	1897.8	1879.2	1871.7	1875.4
10651.1	50°	4955.7	2082.8	2222.9	2320.0	1974.4	1845.5	1780.2	1774.6	1783.9	1789.5
10526.0	52.5°	4630.7	1952.0	2101.5	2198.6	1830.6	1754.0	1681.2	1694.2	1735.3	1748.4
10395.2	55°	4417.7	1798.8	1940.8	1955.8	1729.7	1668.1	1606.4	1636.3	1712.9	1737.2
10316.7	57.5°	4361.7	1636.3	1757.8	1740.9	1600.8	1593.4	1556.0	1582.2	1679.3	1714.8
10313.0	60°	4344.9	1490.6	1578.4	1565.4	1475.7	1511.2	1501.8	1514.9	1548.5	1559.7
10275.7	62.5°	4214.1	1374.8	1417.8	1399.1	1363.6	1425.3	1447.7	1419.7	1445.8	1458.9
10019.7	65°	3881.6	1281.4	1260.9	1247.8	1262.7	1318.8	1363.6	1307.6	1331.9	1369.2
9033.5	67.5°	3332.4	1154.4	1098.4	1113.3	1160.0	1189.9	1247.8	1184.3	1204.8	1268.3
7275.7	70°	2695.5	993.8	943.3	986.3	1031.1	1092.8	1102.1	1059.1	1107.7	1178.7
4440.1	72.5°	1907.2	831.2	795.8	883.5	898.5	978.8	958.3	937.7	1005.0	1029.2
2194.9	75°	1322.5	670.6	650.1	717.3	771.5	840.6	825.6	849.9	991.9	1003.1
1096.5	77.5°	836.8	521.2	508.1	551.0	625.8	702.4	726.6	1003.1	1694.2	1761.5
569.7	80°	485.7	388.5	373.6	407.2	472.6	543.6	700.5	1231.0	1117.0	1104.0
255.9	82.5°	270.9	267.1	248.4	257.8	315.7	392.3	990.0	866.7	704.2	726.6
102.7	85°	127.0	156.9	134.5	128.9	177.5	459.5	661.3	495.0	328.8	321.3
22.4	87.5°	33.6	29.9	29.9	33.6	74.7	396.0	263.4	211.1	125.2	121.4
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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