

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: P951931

Luminaire Tested: **GALN-SB5D-940-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951931  
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-SB5D-940-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

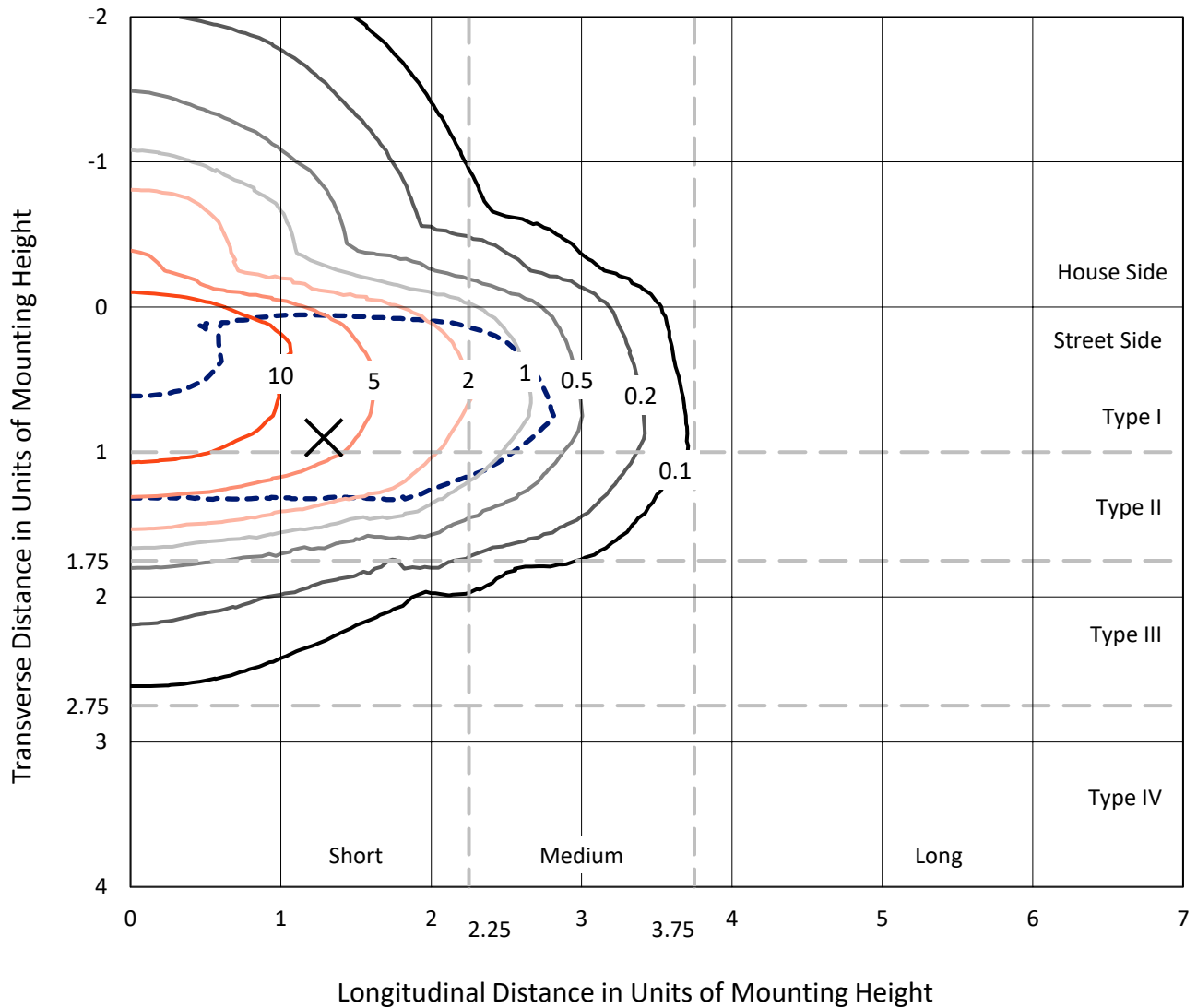
Lumens per Lamp: N/A  
Luminaire Lumens: 37883 lumens  
Efficiency: N/A  
Efficacy: 103.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

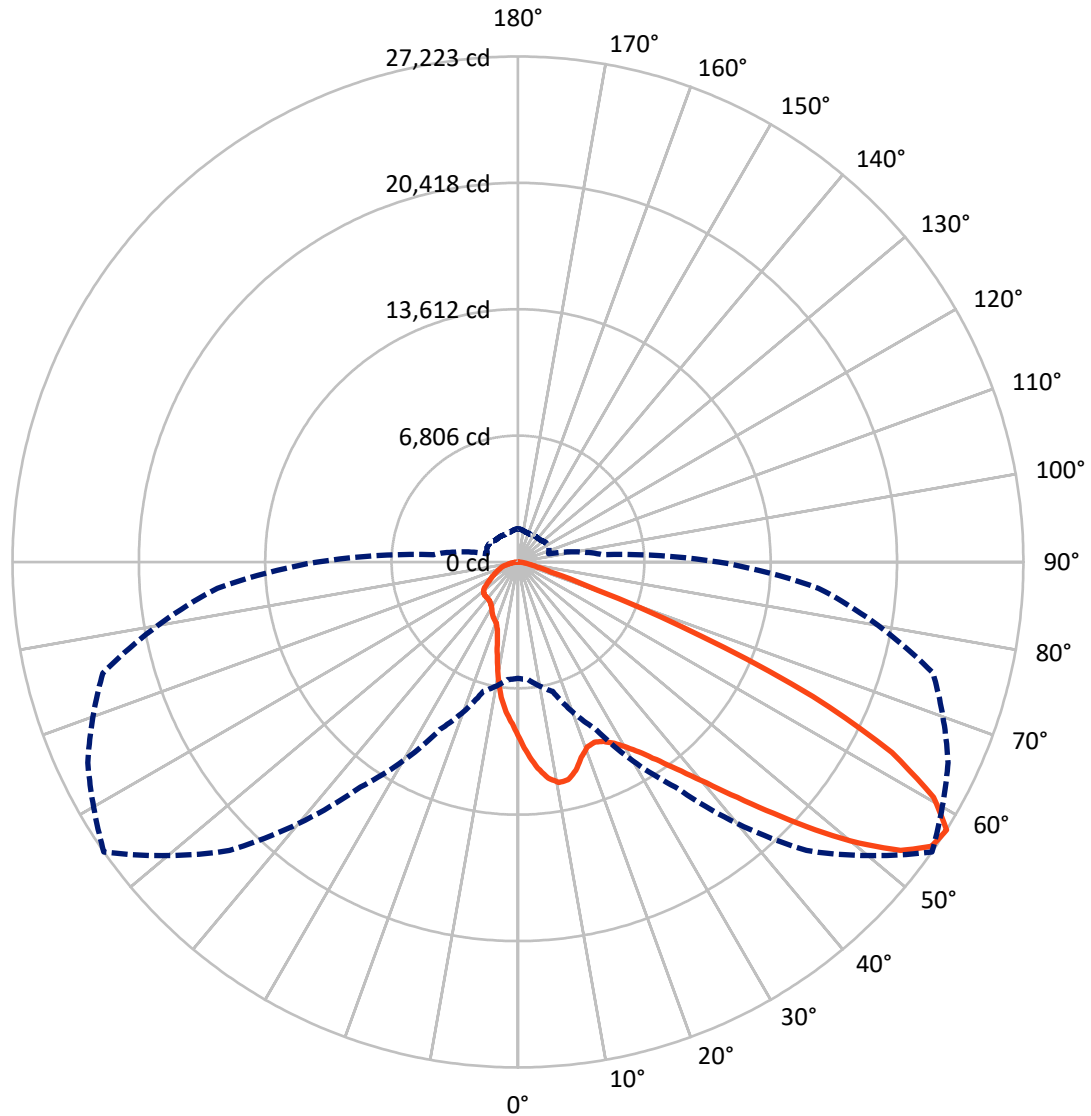
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.4 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	6854.7	0.0	6854.7
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	31028.3	0.0	31028.3
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	37883.0	0.0	37883.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	880.8	2.3
10°-20°	2223.2	5.9
20°-30°	3547.7	9.4
30°-40°	5616.8	14.8
40°-50°	8597.1	22.7
50°-60°	9208.3	24.3
60°-70°	5793.0	15.3
70°-80°	1713.1	4.5
80°-90°	302.9	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°	37883.0	100.0
0°-180°	37883.0	100.0

**Coefficient of Utilization**



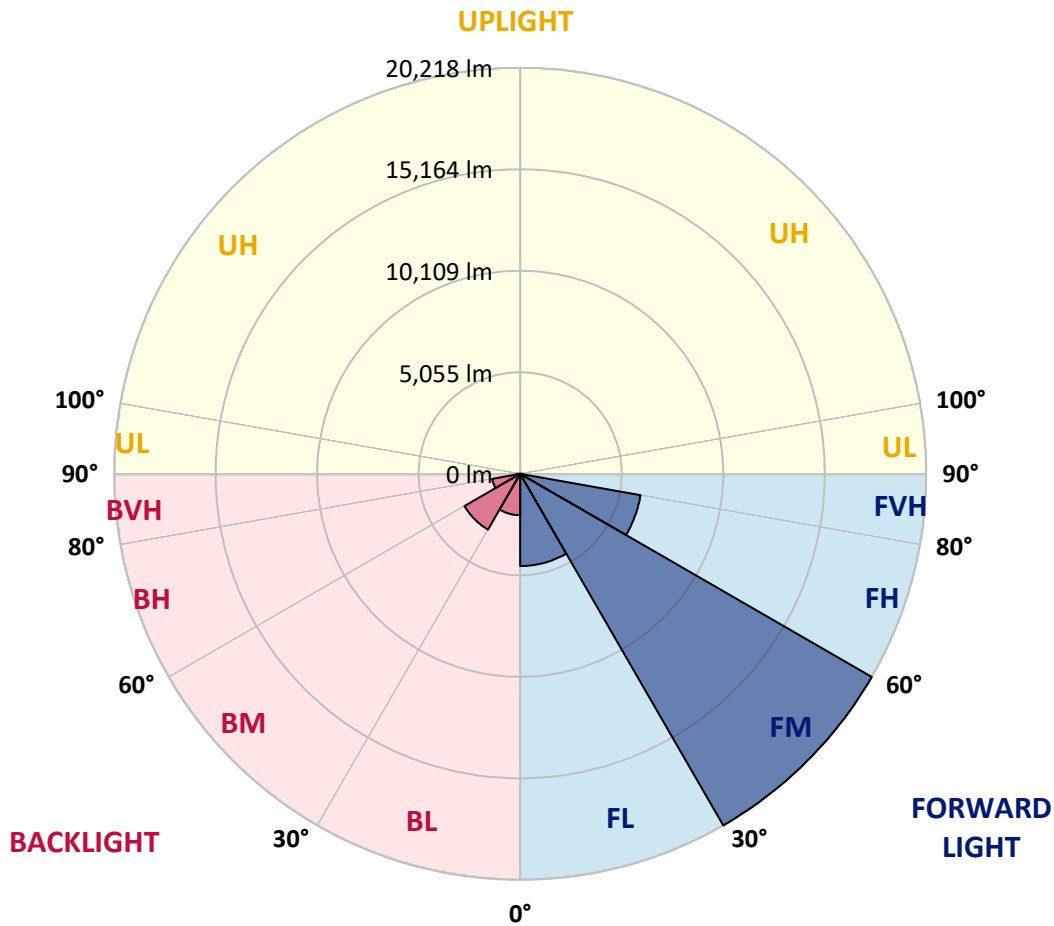
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4591.4	12.1			
FM (30°-60°)	20218.4	53.4			
FH (60°-80°)	6090.4	16.1			G3/7500
FVH (80°-90°)	128.0	0.3			G2/225
BL (0°-30°)	2060.3	5.4	B3/2500		
BM (30°-60°)	3203.8	8.5	B3/5000		
BH (60°-80°)	1415.7	3.7	B3/2500		G3/2500
BVH (80°-90°)	174.9	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°	9492.3	9492.3	9492.3	9492.3	9492.3	9492.3	9492.3	9492.3	9492.3	9492.3
2.5°	10890.5	10882.7	10925.8	10778.9	10679.0	10543.9	10365.7	10138.5	9893.7	9635.2
5°	11871.7	11803.1	11848.2	11738.5	11628.8	11425.2	11160.8	10790.7	10338.3	9823.2
7.5°	11717.0	11670.0	11785.5	11883.4	11965.7	11940.2	11746.3	11358.6	10775.0	10026.9
10°	10469.5	10416.6	10579.1	10917.9	11415.4	11848.2	12083.2	11842.3	11221.5	10250.1
12.5°	9368.9	9343.4	9451.1	9725.3	10277.6	11107.9	12040.1	12265.3	11685.6	10514.5
15°	8898.9	8867.5	8936.1	9075.1	9427.6	10201.2	11648.4	12555.2	12141.9	10820.0
17.5°	8795.1	8759.8	8789.2	8861.7	9088.8	9678.3	11057.0	12698.1	12617.8	11160.8
20°	8987.0	8957.6	8961.5	8957.6	9116.2	9584.3	10645.7	12643.3	13033.0	11474.1
22.5°	9451.1	9402.2	9404.1	9300.3	9386.5	9748.8	10538.0	12496.4	13403.1	11748.3
25°	10207.1	10118.9	10136.6	9872.2	9848.7	10117.0	10706.4	12382.8	13771.3	11967.6
27.5°	11241.1	11141.2	11088.3	10694.7	10506.7	10639.9	11049.2	12422.0	14119.9	12157.6
30°	12533.6	12412.2	12304.5	11746.3	11405.6	11356.6	11581.8	12680.5	14531.2	12357.4
32.5°	14117.9	13976.9	13781.1	13040.8	12561.0	12304.5	12271.2	13140.7	15012.9	12611.9
35°	16003.9	15819.8	15541.7	14584.0	13976.9	13452.1	13179.9	13804.6	15672.9	12995.8
37.5°	17946.6	17739.0	17484.4	16344.6	15598.5	14824.9	14288.3	14705.4	16552.2	13516.7
40°	19738.5	19505.4	19268.5	18254.0	17453.0	16520.9	15645.5	15845.2	17627.3	14139.5
42.5°	20796.0	20623.7	20533.6	19985.2	19366.4	18420.5	17333.6	17196.5	18835.7	14856.2
45°	20749.0	20678.5	20956.6	21183.8	21036.9	20512.0	19311.5	18690.7	20047.9	15477.0
47.5°	19640.6	19687.6	20308.4	21585.2	22147.3	22421.5	21563.7	20157.6	21101.5	15941.2
50°	16624.7	16663.8	18101.3	20854.7	22433.2	23978.4	23798.2	21589.1	21918.1	16225.1
52.5°	14237.4	14262.9	14879.7	18688.8	21489.3	24761.7	25811.4	22938.5	22515.5	16303.5
55°	10724.1	10812.2	11503.5	14662.4	19033.5	24140.9	27037.3	24328.9	22893.4	16311.3
57.5°	6264.8	6360.8	7214.7	9952.5	14793.6	21976.9	27223.4	25562.7	23150.0	16248.6
60°	3068.8	3109.9	3482.0	5230.8	9122.1	17807.5	25727.2	26160.0	23292.9	16215.4
62.5°	2068.0	2062.2	2077.8	2581.1	4494.5	11440.8	22609.5	25114.2	23216.6	16088.1
65°	1778.2	1756.7	1697.9	1811.5	2328.5	5232.8	17468.7	21992.6	22634.9	15768.8
67.5°	1537.3	1539.3	1541.2	1506.0	1662.7	2414.7	10675.1	17323.8	20547.3	14257.0
70°	1272.9	1290.6	1298.4	1298.4	1355.2	1584.3	4557.1	11873.6	16207.5	11178.4
72.5°	1159.4	1122.1	1126.1	1106.5	1106.5	1206.4	1835.0	6730.9	10211.0	6288.3
75°	945.9	969.4	973.3	959.6	914.6	920.4	1088.9	2824.0	4369.1	2608.6
77.5°	816.6	816.6	824.5	814.7	779.4	689.3	726.6	1094.7	1486.4	1069.3
80°	656.1	654.1	687.4	707.0	652.1	509.2	464.1	605.1	660.0	470.0
82.5°	319.2	338.8	472.0	538.6	495.5	368.2	284.0	376.0	352.5	207.6
85°	186.0	176.3	211.5	299.6	284.0	203.7	137.1	195.8	184.1	105.8
87.5°	58.8	54.8	43.1	101.8	82.3	56.8	37.2	56.8	50.9	23.5
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°
9492.3	0°	9492.3	9492.3	9492.3	9492.3	9492.3	9492.3	9492.3	9492.3	9492.3	9492.3
9523.6	2.5°	9384.5	9153.5	8924.3	8714.8	8587.5	8505.2	8423.0	8330.9	8295.7	8242.8
9549.0	5°	9290.5	8844.0	8446.5	8103.8	7792.4	7547.6	7300.8	7101.1	7011.0	7071.7
9629.3	7.5°	9235.7	8589.4	7976.5	7347.8	6742.7	6259.0	5837.9	5542.2	5409.0	5442.3
9707.7	10°	9186.7	8301.6	7367.4	6374.5	5505.0	4905.7	4474.9	4249.7	4165.5	4183.1
9813.4	12.5°	9141.7	7978.4	6633.0	5326.8	4402.4	4006.8	3883.5	3885.4	3901.1	3912.8
9981.8	15°	9133.9	7588.7	5812.5	4410.3	3807.1	3781.6	3914.8	3999.0	4044.0	4057.8
10122.8	17.5°	9122.1	7122.6	4976.2	3785.5	3662.2	3834.5	3957.9	4012.7	4048.0	4049.9
10259.9	20°	9075.1	6531.2	4204.6	3487.9	3630.8	3779.7	3856.0	3899.1	3928.5	3938.3
10363.7	22.5°	8930.2	5873.2	3603.4	3354.7	3505.5	3625.0	3715.0	3764.0	3781.6	3793.4
10383.3	25°	8669.7	5136.8	3188.2	3227.4	3331.2	3482.0	3554.5	3564.2	3558.4	3576.0
10334.4	27.5°	8329.0	4347.6	2929.7	3055.1	3188.2	3317.5	3356.7	3350.8	3339.0	3358.6
10250.1	30°	7917.7	3638.7	2765.2	2861.2	3043.3	3160.8	3196.1	3182.4	3158.9	3180.4
10207.1	32.5°	7483.0	3059.0	2630.1	2726.1	2923.9	3039.4	3074.7	3060.9	3043.3	3060.9
10256.0	35°	7077.6	2653.6	2504.8	2636.0	2829.9	2943.4	2988.5	2990.4	2990.4	3012.0
10385.3	37.5°	6705.5	2416.6	2401.0	2579.2	2765.2	2867.1	2931.7	2935.6	2851.4	2857.3
10604.6	40°	6360.8	2316.8	2354.0	2542.0	2702.6	2800.5	2804.4	2585.1	2430.3	2426.4
10855.3	42.5°	6078.8	2297.2	2367.7	2538.1	2657.5	2661.4	2385.3	2214.9	2171.8	2173.8
11086.4	45°	5814.4	2291.3	2399.0	2538.1	2590.9	2299.1	2113.1	2068.0	2072.0	2087.6
11190.2	47.5°	5518.7	2267.8	2404.9	2502.8	2399.0	2044.5	1989.7	1970.1	1962.3	1966.2
11166.7	50°	5195.6	2183.6	2330.5	2432.3	2070.0	1934.9	1866.3	1860.5	1870.2	1876.1
11035.5	52.5°	4854.8	2046.5	2203.2	2305.0	1919.2	1838.9	1762.5	1776.2	1819.3	1833.0
10898.4	55°	4631.6	1885.9	2034.8	2050.4	1813.5	1748.8	1684.2	1715.5	1795.8	1821.3
10816.1	57.5°	4572.8	1715.5	1842.8	1825.2	1678.3	1670.5	1631.3	1658.7	1760.6	1797.8
10812.2	60°	4555.2	1562.8	1654.8	1641.1	1547.1	1584.3	1574.5	1588.2	1623.5	1635.2
10773.0	62.5°	4418.1	1441.4	1486.4	1466.8	1429.6	1494.2	1517.7	1488.4	1515.8	1529.5
10504.7	65°	4069.5	1343.4	1321.9	1308.2	1323.9	1382.6	1429.6	1370.9	1396.3	1435.5
9470.7	67.5°	3493.7	1210.3	1151.5	1167.2	1216.2	1247.5	1308.2	1241.6	1263.2	1329.7
7627.9	70°	2825.9	1041.9	989.0	1034.0	1081.0	1145.7	1155.4	1110.4	1161.3	1235.7
4655.1	72.5°	1999.5	871.5	834.3	926.3	942.0	1026.2	1004.6	983.1	1053.6	1079.1
2301.1	75°	1386.5	703.1	681.5	752.0	808.8	881.3	865.6	891.1	1039.9	1051.6
1149.6	77.5°	877.4	546.4	532.7	577.7	656.1	736.3	761.8	1051.6	1776.2	1846.7
597.3	80°	509.2	407.3	391.7	426.9	495.5	569.9	734.4	1290.6	1171.1	1157.4
268.3	82.5°	284.0	280.0	260.5	270.3	331.0	411.3	1037.9	908.7	738.3	761.8
107.7	85°	133.2	164.5	141.0	135.1	186.0	481.8	693.3	519.0	344.7	336.8
23.5	87.5°	35.3	31.3	31.3	35.3	78.3	415.2	276.1	221.3	131.2	127.3
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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