

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: P951952

Luminaire Tested: **GALN-SB5D-950-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951952
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-950-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36368 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

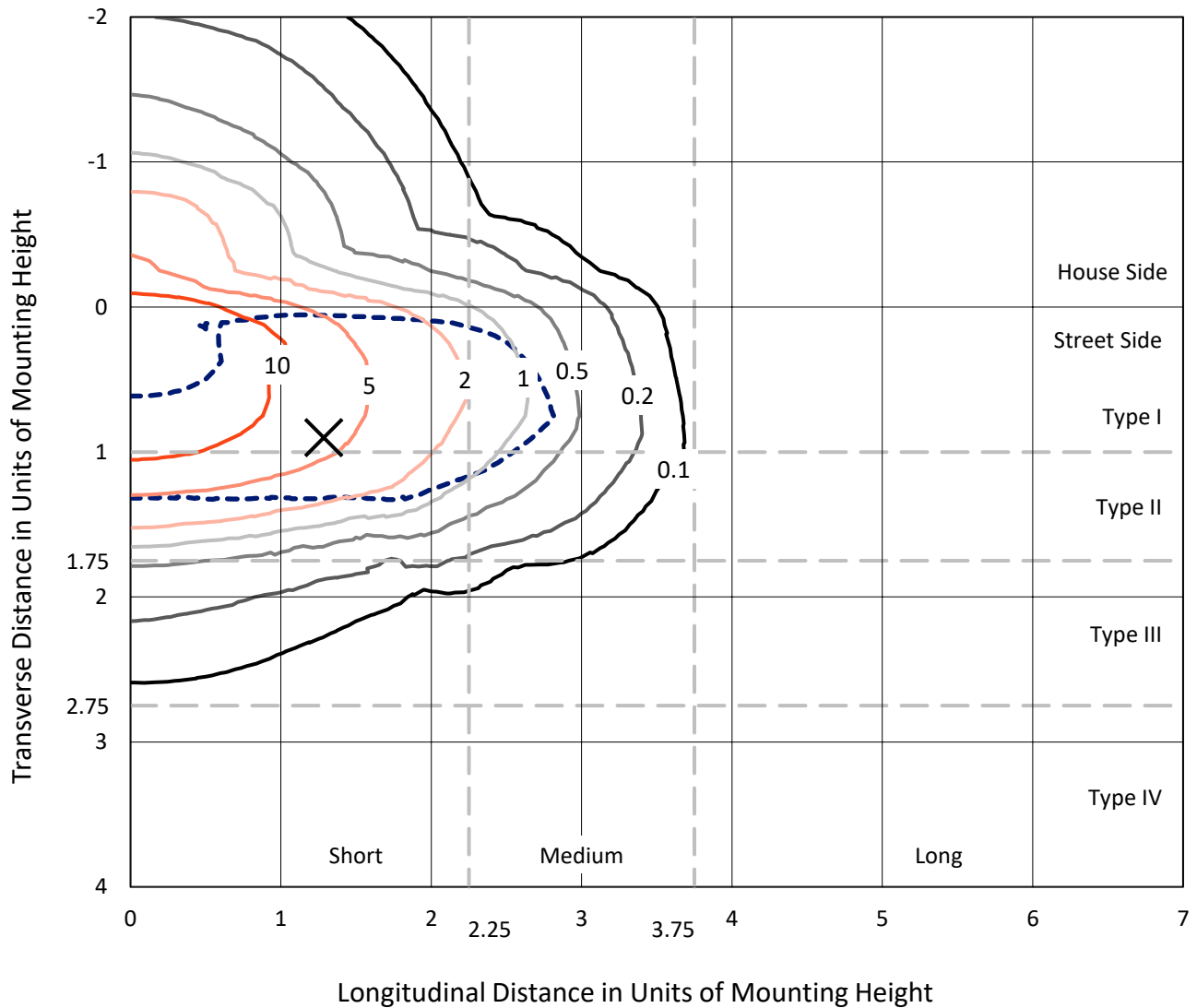
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

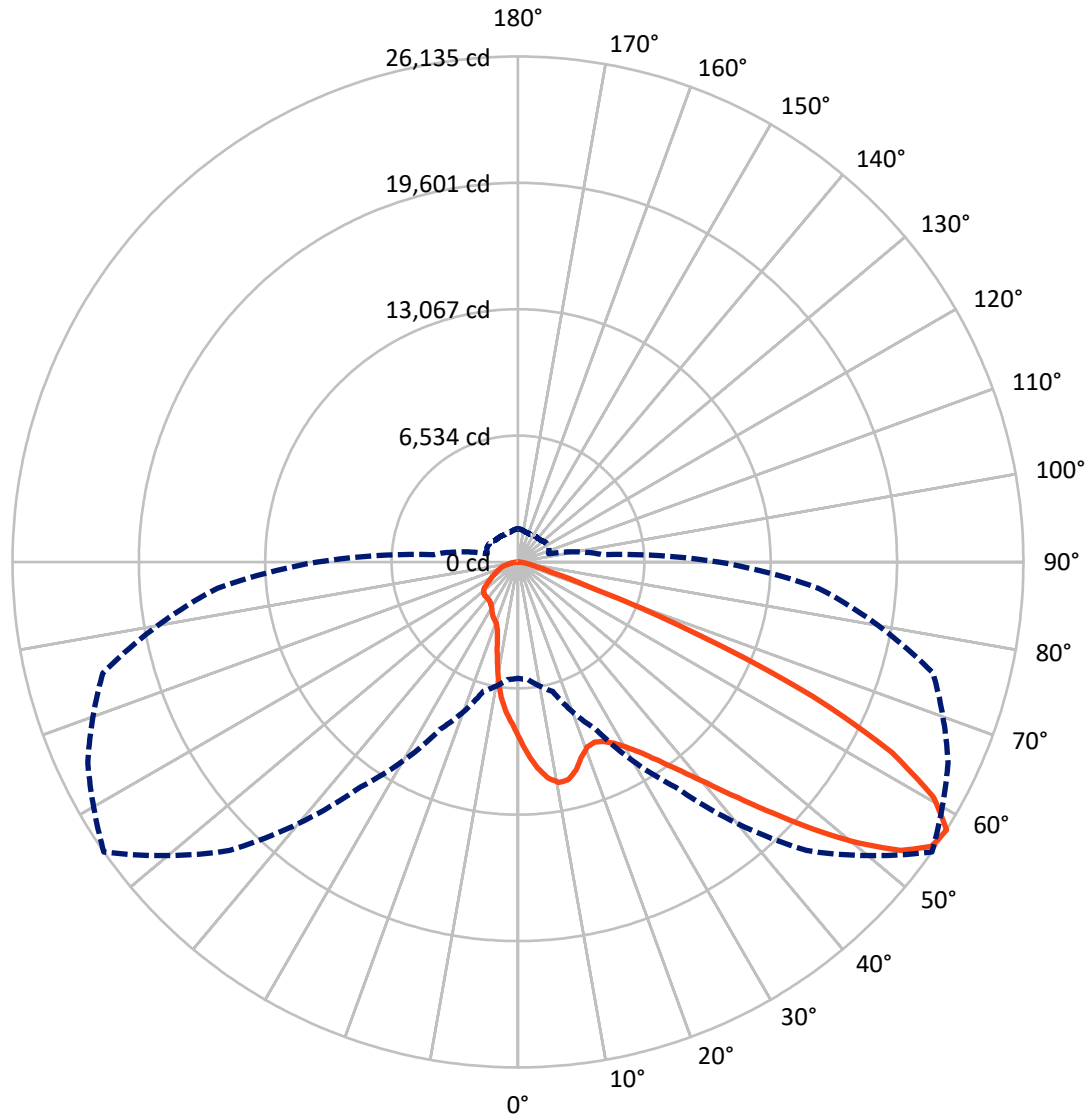
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.6 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	6580.6	0.0	6580.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	29787.4	0.0	29787.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	36368.0	0.0	36368.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	845.6	2.3
10°-20°	2134.3	5.9
20°-30°	3405.8	9.4
30°-40°	5392.2	14.8
40°-50°	8253.3	22.7
50°-60°	8840.1	24.3
60°-70°	5561.3	15.3
70°-80°	1644.6	4.5
80°-90°	290.8	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°	36368.0	100.0
0°-180°	36368.0	100.0



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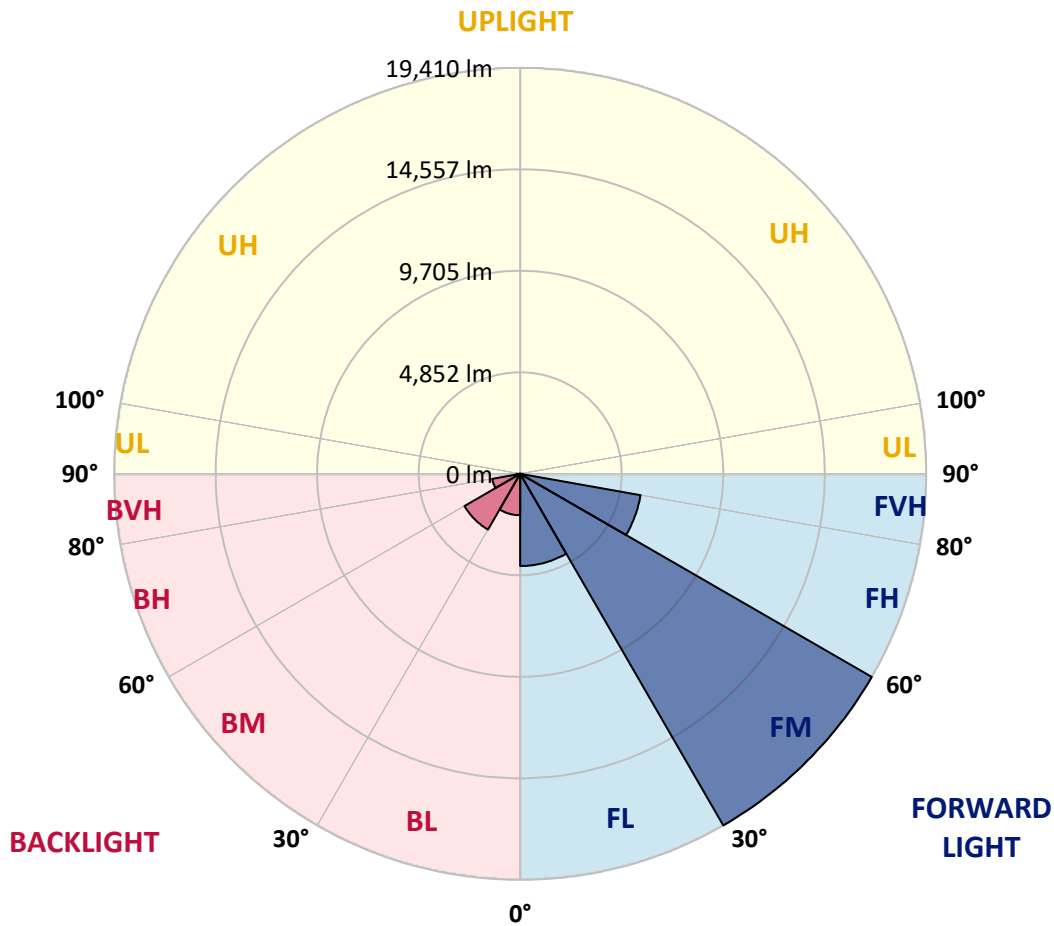
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4407.8	12.1			
FM (30°-60°)	19409.9	53.4			
FH (60°-80°)	5846.9	16.1			G3/7500
FVH (80°-90°)	122.9	0.3			G2/225
BL (0°-30°)	1977.9	5.4	B3/2500		
BM (30°-60°)	3075.7	8.5	B3/5000		
BH (60°-80°)	1359.1	3.7	B3/2500		G3/2500
BVH (80°-90°)	167.9	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°	9112.6	9112.6	9112.6	9112.6	9112.6	9112.6	9112.6	9112.6	9112.6	9112.6
2.5°	10455.0	10447.5	10488.8	10347.8	10252.0	10122.2	9951.1	9733.1	9498.1	9249.9
5°	11396.9	11331.1	11374.3	11269.1	11163.8	10968.3	10714.4	10359.1	9924.8	9430.4
7.5°	11248.4	11203.3	11314.2	11408.2	11487.2	11462.7	11276.6	10904.3	10344.1	9625.9
10°	10050.8	10000.0	10156.1	10481.3	10958.9	11374.3	11600.0	11368.7	10772.7	9840.2
12.5°	8994.2	8969.8	9073.2	9336.4	9866.5	10663.7	11558.6	11774.8	11218.3	10094.0
15°	8543.0	8512.9	8578.7	8712.2	9050.6	9793.2	11182.6	12053.1	11656.4	10387.3
17.5°	8443.3	8409.5	8437.7	8507.3	8725.3	9291.2	10614.8	12190.3	12113.2	10714.4
20°	8627.6	8599.4	8603.1	8599.4	8751.7	9201.0	10220.0	12137.7	12511.8	11015.3
22.5°	9073.2	9026.2	9028.0	8928.4	9011.1	9358.9	10116.6	11996.6	12867.1	11278.5
25°	9798.9	9714.3	9731.2	9477.4	9454.8	9712.4	10278.3	11887.6	13220.6	11489.0
27.5°	10791.5	10695.6	10644.9	10267.0	10086.5	10214.4	10607.3	11925.2	13555.2	11671.4
30°	12032.4	11915.8	11812.4	11276.6	10949.5	10902.5	11118.7	12173.4	13950.0	11863.2
32.5°	13553.3	13418.0	13230.0	12519.3	12058.7	11812.4	11780.4	12615.2	14412.5	12107.6
35°	15363.8	15187.1	14920.1	14000.8	13418.0	12914.1	12652.8	13252.5	15046.1	12476.1
37.5°	17228.8	17029.6	16785.2	15691.0	14974.7	14232.0	13716.9	14117.4	15890.2	12976.2
40°	18949.1	18725.4	18497.9	17524.0	16755.1	15860.2	15019.8	15211.5	16922.4	13574.0
42.5°	19964.3	19798.9	19712.4	19186.0	18591.9	17683.8	16640.4	16508.8	18082.4	14262.1
45°	19919.2	19851.5	20118.5	20336.6	20195.6	19691.7	18539.3	17943.3	19246.2	14858.1
47.5°	18855.1	18900.2	19496.2	20722.0	21261.6	21524.8	20701.3	19351.4	20257.6	15303.7
50°	15959.8	15997.4	17377.4	20020.7	21536.1	23019.4	22846.5	20725.8	21041.6	15576.3
52.5°	13668.0	13692.5	14284.7	17941.4	20629.9	23771.5	24779.2	22021.1	21615.0	15651.5
55°	10295.2	10379.8	11043.5	14076.0	18272.3	23175.5	25956.1	23356.0	21977.9	15659.0
57.5°	6014.3	6106.4	6926.1	9554.5	14202.0	21098.0	26134.7	24540.4	22224.2	15598.8
60°	2946.1	2985.5	3342.7	5021.6	8757.3	17095.4	24698.3	25113.8	22361.4	15566.9
62.5°	1985.3	1979.7	1994.7	2477.9	4314.7	10983.3	21705.3	24109.9	22288.1	15444.7
65°	1707.1	1686.4	1630.0	1739.1	2235.4	5023.5	16770.1	21113.0	21729.7	15138.2
67.5°	1475.8	1477.7	1479.6	1445.8	1596.2	2318.1	10248.2	16631.0	19725.6	13686.8
70°	1222.0	1239.0	1246.5	1246.5	1301.0	1521.0	4374.9	11398.8	15559.4	10731.4
72.5°	1113.0	1077.3	1081.0	1062.2	1062.2	1158.1	1761.6	6461.8	9802.6	6036.9
75°	908.1	930.6	934.4	921.2	878.0	883.6	1045.3	2711.0	4194.4	2504.2
77.5°	784.0	784.0	791.5	782.1	748.3	661.8	697.5	1051.0	1427.0	1026.5
80°	629.8	627.9	659.9	678.7	626.1	488.8	445.6	580.9	633.6	451.2
82.5°	306.4	325.3	453.1	517.0	475.7	353.5	272.6	361.0	338.4	199.3
85°	178.6	169.2	203.0	287.6	272.6	195.5	131.6	188.0	176.7	101.5
87.5°	56.4	52.6	41.4	97.8	79.0	54.5	35.7	54.5	48.9	22.6
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°
9112.6	0°	9112.6	9112.6	9112.6	9112.6	9112.6	9112.6	9112.6	9112.6	9112.6	9112.6
9142.7	2.5°	9009.2	8787.4	8567.4	8366.3	8244.1	8165.1	8086.1	7997.8	7963.9	7913.2
9167.2	5°	8919.0	8490.3	8108.7	7779.7	7480.8	7245.7	7008.9	6817.1	6730.6	6788.9
9244.2	7.5°	8866.4	8245.9	7657.5	7054.0	6473.0	6008.7	5604.5	5320.6	5192.7	5224.7
9319.4	10°	8819.4	7969.6	7072.8	6119.6	5284.8	4709.5	4295.9	4079.7	3998.9	4015.8
9421.0	12.5°	8776.1	7659.4	6367.8	5113.8	4226.4	3846.6	3728.2	3730.0	3745.1	3756.4
9582.7	15°	8768.6	7285.2	5580.0	4233.9	3654.8	3630.4	3758.2	3839.1	3882.3	3895.5
9718.0	17.5°	8757.3	6837.8	4777.2	3634.2	3515.7	3681.2	3799.6	3852.2	3886.1	3888.0
9849.6	20°	8712.2	6270.0	4036.5	3348.4	3485.6	3628.5	3701.8	3743.2	3771.4	3780.8
9949.3	22.5°	8573.1	5638.3	3459.3	3220.5	3365.3	3480.0	3566.5	3613.5	3630.4	3641.7
9968.1	25°	8323.0	4931.4	3060.7	3098.3	3198.0	3342.7	3412.3	3421.7	3416.1	3433.0
9921.1	27.5°	7995.9	4173.7	2812.6	2932.9	3060.7	3184.8	3222.4	3216.8	3205.5	3224.3
9840.2	30°	7601.1	3493.1	2654.6	2746.8	2921.6	3034.4	3068.3	3055.1	3032.5	3053.2
9798.9	32.5°	7183.7	2936.7	2524.9	2617.0	2806.9	2917.8	2951.7	2938.5	2921.6	2938.5
9845.9	35°	6794.5	2547.5	2404.6	2530.6	2716.7	2825.7	2869.0	2870.8	2870.8	2891.5
9969.9	37.5°	6437.3	2320.0	2305.0	2476.0	2654.6	2752.4	2814.4	2818.2	2737.4	2743.0
10180.5	40°	6106.4	2224.1	2259.8	2440.3	2594.5	2688.5	2692.2	2481.7	2333.2	2329.4
10421.2	42.5°	5835.7	2205.3	2273.0	2436.6	2551.2	2555.0	2289.9	2126.3	2085.0	2086.9
10643.0	45°	5581.9	2199.7	2303.1	2436.6	2487.3	2207.2	2028.6	1985.3	1989.1	2004.1
10742.7	47.5°	5298.0	2177.1	2308.7	2402.7	2303.1	1962.8	1910.1	1891.3	1883.8	1887.6
10720.1	50°	4987.8	2096.3	2237.3	2335.0	1987.2	1857.5	1791.7	1786.1	1795.5	1801.1
10594.1	52.5°	4660.7	1964.7	2115.1	2212.8	1842.5	1765.4	1692.1	1705.2	1746.6	1759.7
10462.5	55°	4446.3	1810.5	1953.4	1968.4	1740.9	1678.9	1616.8	1646.9	1724.0	1748.5
10383.6	57.5°	4389.9	1646.9	1769.1	1752.2	1611.2	1603.7	1566.1	1592.4	1690.2	1725.9
10379.8	60°	4373.0	1500.3	1588.6	1575.5	1485.2	1521.0	1511.6	1524.7	1558.6	1569.8
10342.2	62.5°	4241.4	1383.7	1427.0	1408.2	1372.4	1434.5	1457.0	1428.8	1455.2	1468.3
10084.6	65°	3906.8	1289.7	1269.0	1255.9	1270.9	1327.3	1372.4	1316.0	1340.5	1378.1
9092.0	67.5°	3354.0	1161.9	1105.5	1120.5	1167.5	1197.6	1255.9	1192.0	1212.6	1276.6
7322.8	70°	2712.9	1000.2	949.4	992.7	1037.8	1099.8	1109.2	1066.0	1114.9	1186.3
4468.9	72.5°	1919.5	836.6	800.9	889.3	904.3	985.2	964.5	943.8	1011.5	1035.9
2209.1	75°	1331.1	674.9	654.3	721.9	776.5	846.0	831.0	855.4	998.3	1009.6
1103.6	77.5°	842.3	524.5	511.4	554.6	629.8	706.9	731.3	1009.6	1705.2	1772.9
573.4	80°	488.8	391.1	376.0	409.9	475.7	547.1	705.0	1239.0	1124.3	1111.1
257.6	82.5°	272.6	268.8	250.0	259.4	317.7	394.8	996.4	872.3	708.8	731.3
103.4	85°	127.8	157.9	135.4	129.7	178.6	462.5	665.5	498.2	330.9	323.4
22.6	87.5°	33.8	30.1	30.1	33.8	75.2	398.6	265.1	212.4	126.0	122.2
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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