

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: P950524

Luminaire Tested: **GALN-SB4D-950-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950524  
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-SB4D-950-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

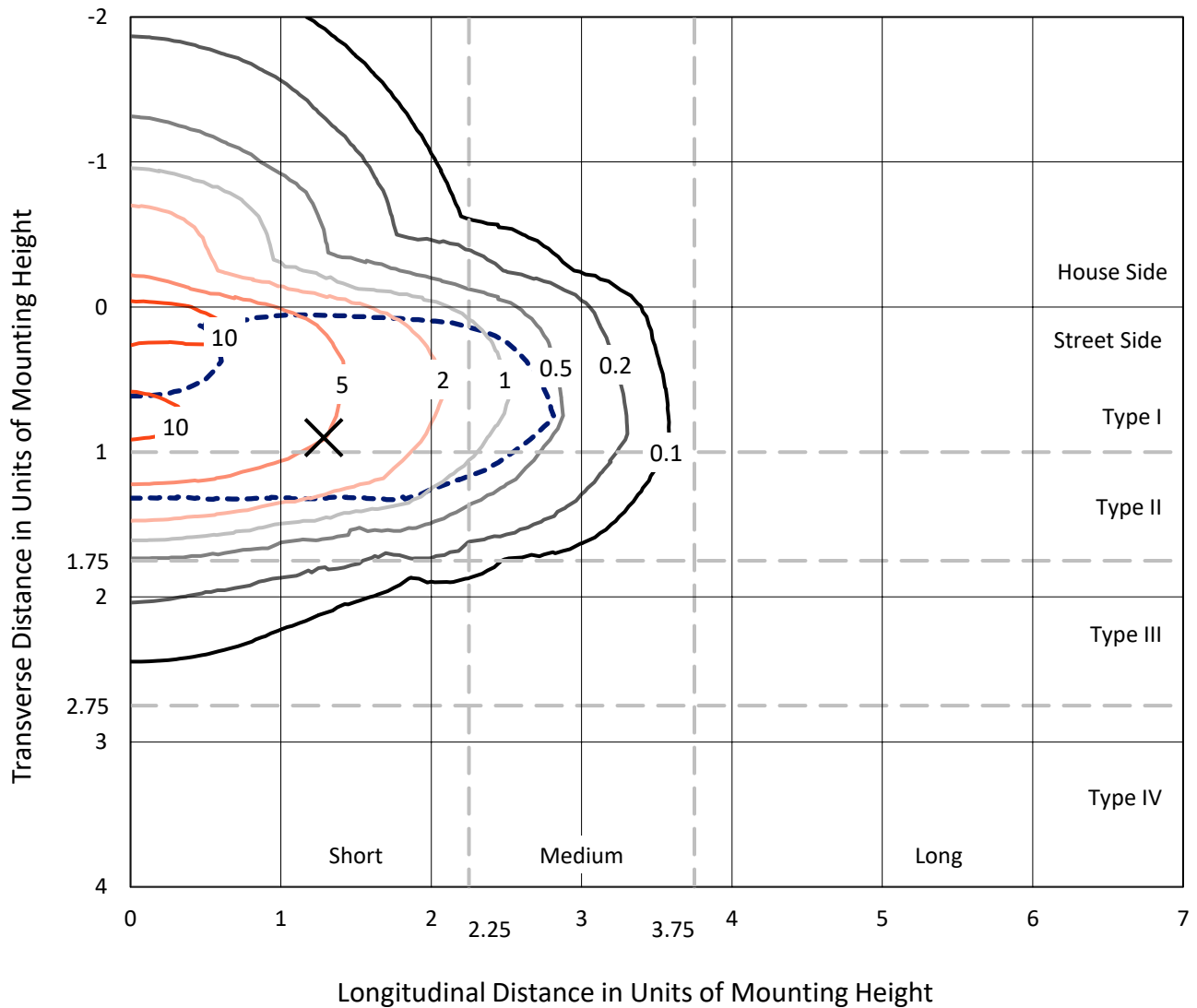
Lumens per Lamp: N/A  
Luminaire Lumens: 28854 lumens  
Efficiency: N/A  
Efficacy: 98.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

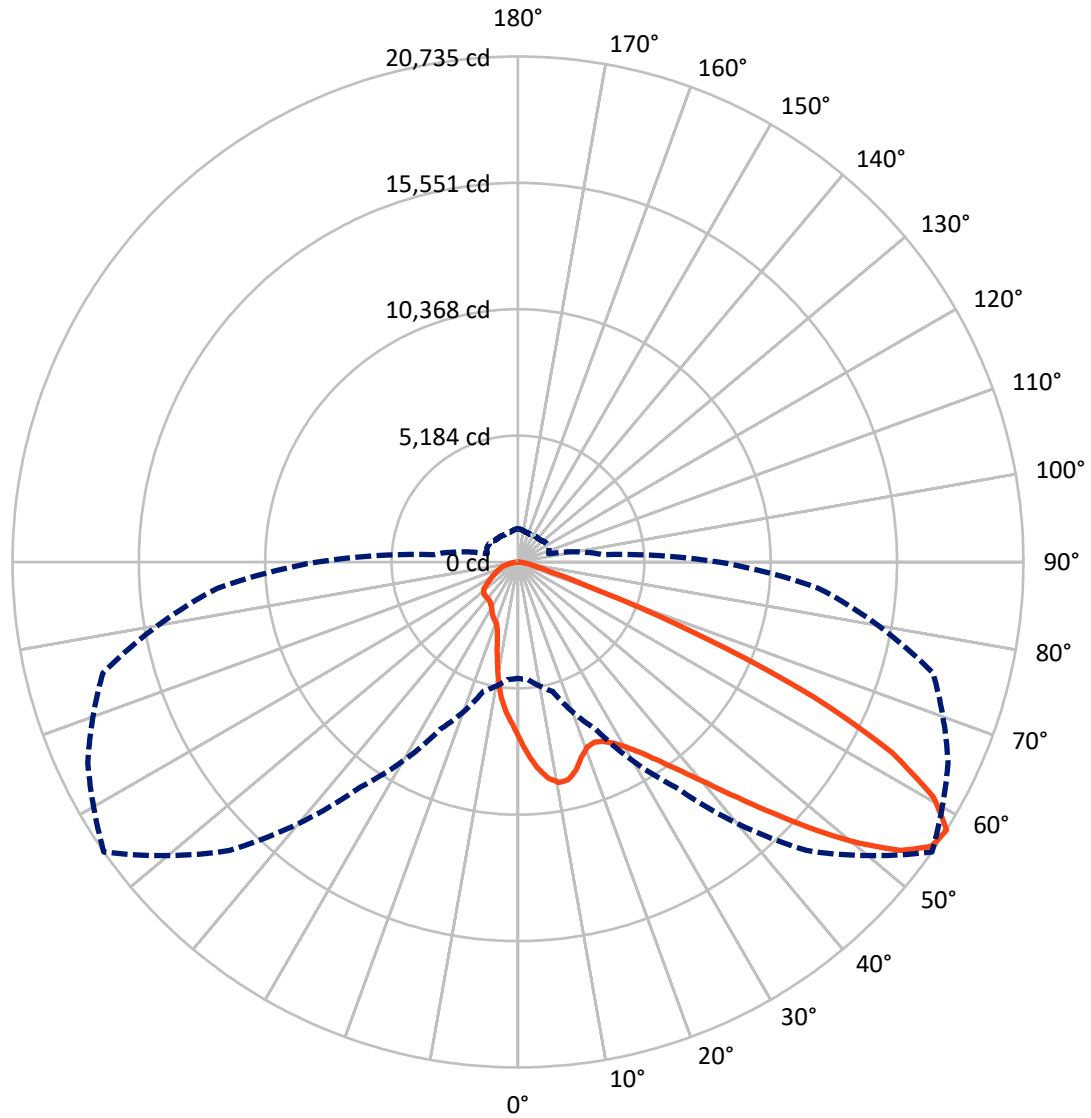
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 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	5221.0	0.0	5221.0
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	23633.0	0.0	23633.0
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	28854.0	0.0	28854.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	670.9	2.3
10°-20°	1693.4	5.9
20°-30°	2702.1	9.4
30°-40°	4278.1	14.8
40°-50°	6548.1	22.7
50°-60°	7013.6	24.3
60°-70°	4412.3	15.3
70°-80°	1304.8	4.5
80°-90°	230.7	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°	28854.0	100.0
0°-180°	28854.0	100.0



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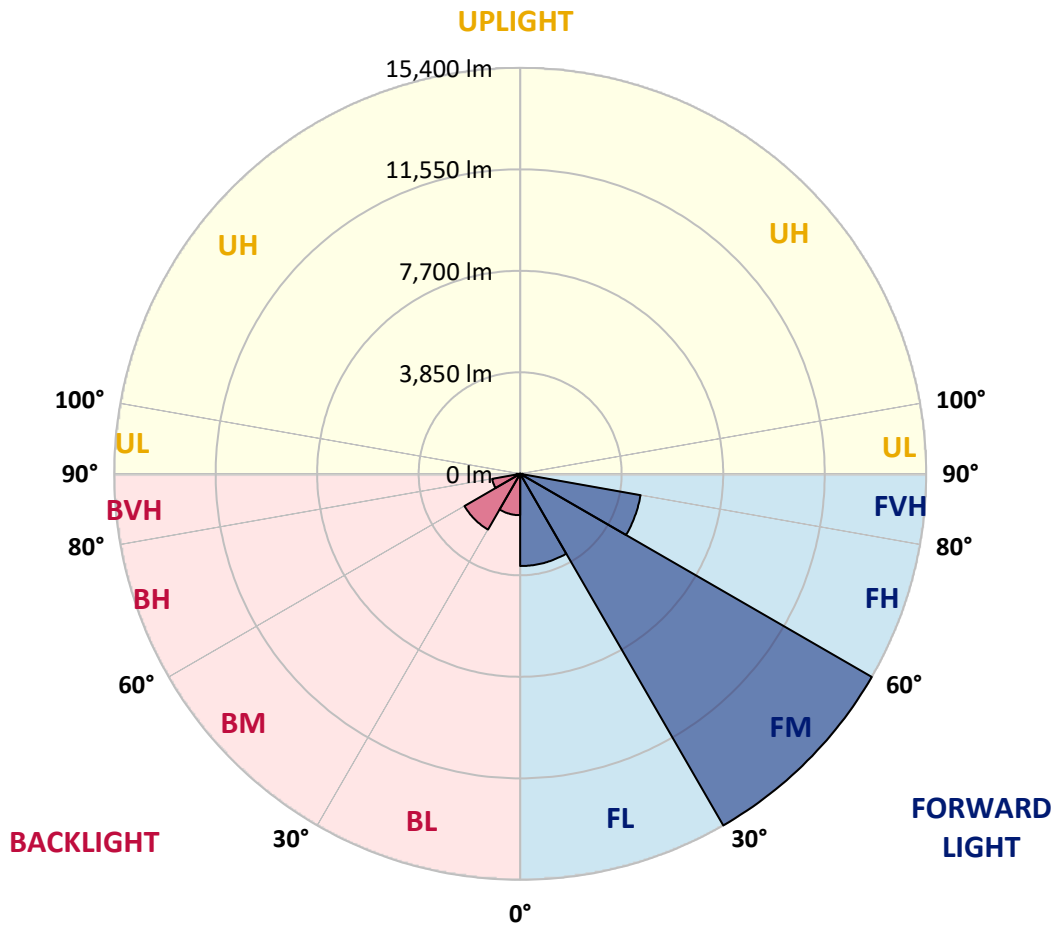
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3497.1	12.1			
FM (30°-60°)	15399.6	53.4			
FH (60°-80°)	4638.8	16.1			G2/5000
FVH (80°-90°)	97.5	0.3			G1/100
BL (0°-30°)	1569.3	5.4	B3/2500		
BM (30°-60°)	2440.2	8.5	B2/2500		
BH (60°-80°)	1078.3	3.7	B3/2500		G3/2500
BVH (80°-90°)	133.2	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°	7229.9	7229.9	7229.9	7229.9	7229.9	7229.9	7229.9	7229.9	7229.9	7229.9
2.5°	8294.9	8288.9	8321.7	8209.9	8133.8	8030.9	7895.1	7722.1	7535.7	7338.8
5°	9042.2	8990.0	9024.3	8940.8	8857.2	8702.1	8500.7	8218.8	7874.3	7482.0
7.5°	8924.4	8888.6	8976.6	9051.1	9113.8	9094.4	8946.7	8651.4	8206.9	7637.1
10°	7974.2	7933.9	8057.7	8315.8	8694.6	9024.3	9203.3	9019.8	8547.0	7807.1
12.5°	7135.9	7116.5	7198.6	7407.4	7828.0	8460.5	9170.5	9342.0	8900.5	8008.5
15°	6777.9	6754.0	6806.3	6912.2	7180.7	7769.8	8872.1	9562.8	9248.0	8241.2
17.5°	6698.9	6672.0	6694.4	6749.6	6922.6	7371.6	8421.7	9671.7	9610.5	8500.7
20°	6845.0	6822.7	6825.6	6822.7	6943.5	7300.0	8108.4	9629.9	9926.7	8739.4
22.5°	7198.6	7161.3	7162.8	7083.7	7149.3	7425.3	8026.4	9518.0	10208.6	8948.2
25°	7774.3	7707.2	7720.6	7519.2	7501.4	7705.7	8154.7	9431.5	10489.1	9115.3
27.5°	8561.9	8485.8	8445.5	8145.7	8002.5	8104.0	8415.7	9461.3	10754.6	9260.0
30°	9546.4	9453.9	9371.8	8946.7	8687.2	8649.9	8821.4	9658.2	11067.8	9412.1
32.5°	10753.1	10645.7	10496.5	9932.7	9567.2	9371.8	9346.5	10008.8	11434.7	9606.0
35°	12189.5	12049.3	11837.5	11108.1	10645.7	10245.9	10038.6	10514.4	11937.4	9898.4
37.5°	13669.2	13511.1	13317.2	12449.0	11880.7	11291.6	10882.9	11200.6	12607.2	10295.2
40°	15034.0	14856.5	14676.0	13903.4	13293.3	12583.3	11916.5	12068.7	13426.1	10769.5
42.5°	15839.5	15708.2	15639.6	15222.0	14750.6	14030.2	13202.3	13097.9	14346.4	11315.4
45°	15803.7	15750.0	15961.8	16134.8	16023.0	15623.2	14708.9	14236.0	15269.7	11788.3
47.5°	14959.4	14995.2	15468.1	16440.6	16868.7	17077.5	16424.2	15353.2	16072.2	12141.8
50°	12662.4	12692.2	13787.0	15884.2	17086.5	18263.4	18126.2	16443.6	16694.2	12358.1
52.5°	10844.1	10863.5	11333.3	14234.5	16367.5	18860.0	19659.5	17471.3	17149.1	12417.7
55°	8168.1	8235.2	8761.8	11167.7	14497.0	18387.2	20593.3	18530.4	17437.0	12423.7
57.5°	4771.7	4844.8	5495.1	7580.4	11267.7	16738.9	20735.0	19470.1	17632.4	12376.0
60°	2337.4	2368.7	2652.1	3984.1	6948.0	13563.3	19595.4	19925.0	17741.3	12350.6
62.5°	1575.1	1570.7	1582.6	1966.0	3423.3	8714.0	17220.7	19128.5	17683.1	12253.6
65°	1354.4	1338.0	1293.2	1379.7	1773.5	3985.6	13305.2	16750.9	17240.1	12010.5
67.5°	1170.9	1172.4	1173.9	1147.1	1266.4	1839.2	8130.8	13194.9	15650.1	10859.0
70°	969.6	983.0	988.9	988.9	1032.2	1206.7	3471.0	9043.7	12344.6	8514.2
72.5°	883.0	854.7	857.7	842.8	842.8	918.8	1397.6	5126.7	7777.3	4789.6
75°	720.5	738.4	741.3	730.9	696.6	701.1	829.3	2150.9	3327.8	1986.8
77.5°	622.0	622.0	628.0	620.5	593.7	525.0	553.4	833.8	1132.1	814.4
80°	499.7	498.2	523.6	538.5	496.7	387.8	353.5	460.9	502.7	358.0
82.5°	243.1	258.1	359.5	410.2	377.4	280.4	216.3	286.4	268.5	158.1
85°	141.7	134.2	161.1	228.2	216.3	155.1	104.4	149.2	140.2	80.5
87.5°	44.7	41.8	32.8	77.6	62.6	43.3	28.3	43.3	38.8	17.9
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°
7229.9	0°	7229.9	7229.9	7229.9	7229.9	7229.9	7229.9	7229.9	7229.9	7229.9	7229.9
7253.7	2.5°	7147.8	6971.8	6797.3	6637.7	6540.7	6478.1	6415.5	6345.3	6318.5	6278.2
7273.1	5°	7076.2	6736.2	6433.4	6172.3	5935.2	5748.7	5560.8	5408.6	5340.0	5386.2
7334.3	7.5°	7034.5	6542.2	6075.4	5596.6	5135.6	4767.2	4446.5	4221.3	4119.9	4145.2
7394.0	10°	6997.2	6323.0	5611.5	4855.2	4192.9	3736.5	3408.3	3236.8	3172.7	3186.1
7474.5	12.5°	6962.9	6076.9	5052.1	4057.2	3353.2	3051.9	2957.9	2959.4	2971.3	2980.3
7602.8	15°	6956.9	5780.0	4427.1	3359.1	2899.7	2880.3	2981.7	3045.9	3080.2	3090.6
7710.2	17.5°	6948.0	5425.0	3790.2	2883.3	2789.3	2920.6	3014.6	3056.3	3083.2	3084.7
7814.6	20°	6912.2	4974.5	3202.5	2656.6	2765.5	2878.8	2937.0	2969.8	2992.2	2999.6
7893.6	22.5°	6801.8	4473.4	2744.6	2555.1	2670.0	2761.0	2829.6	2866.9	2880.3	2889.3
7908.6	25°	6603.4	3912.5	2428.4	2458.2	2537.2	2652.1	2707.3	2714.7	2710.3	2723.7
7871.3	27.5°	6343.9	3311.4	2231.5	2326.9	2428.4	2526.8	2556.6	2552.2	2543.2	2558.1
7807.1	30°	6030.6	2771.4	2106.2	2179.3	2318.0	2407.5	2434.3	2423.9	2406.0	2422.4
7774.3	32.5°	5699.5	2329.9	2003.2	2076.3	2227.0	2315.0	2341.8	2331.4	2318.0	2331.4
7811.6	35°	5390.7	2021.1	1907.8	2007.7	2155.4	2241.9	2276.2	2277.7	2277.7	2294.1
7910.1	37.5°	5107.3	1840.7	1828.7	1964.5	2106.2	2183.7	2233.0	2235.9	2171.8	2176.3
8077.1	40°	4844.8	1764.6	1792.9	1936.1	2058.4	2133.0	2136.0	1968.9	1851.1	1848.1
8268.0	42.5°	4630.0	1749.7	1803.4	1933.1	2024.1	2027.1	1816.8	1687.0	1654.2	1655.7
8444.1	45°	4428.6	1745.2	1827.2	1933.1	1973.4	1751.2	1609.5	1575.1	1578.1	1590.1
8523.1	47.5°	4203.4	1727.3	1831.7	1906.3	1827.2	1557.2	1515.5	1500.6	1494.6	1497.6
8505.2	50°	3957.3	1663.2	1775.0	1852.6	1576.6	1473.7	1421.5	1417.0	1424.5	1429.0
8405.3	52.5°	3697.7	1558.7	1678.1	1755.6	1461.8	1400.6	1342.5	1352.9	1385.7	1396.2
8300.9	55°	3527.7	1436.4	1549.8	1561.7	1381.2	1332.0	1282.8	1306.7	1367.8	1387.2
8238.2	57.5°	3482.9	1306.7	1403.6	1390.2	1278.3	1272.4	1242.5	1263.4	1341.0	1369.3
8235.2	60°	3469.5	1190.3	1260.4	1250.0	1178.4	1206.7	1199.3	1209.7	1236.6	1245.5
8205.4	62.5°	3365.1	1097.8	1132.1	1117.2	1088.9	1138.1	1156.0	1133.6	1154.5	1165.0
8001.0	65°	3099.6	1023.3	1006.8	996.4	1008.3	1053.1	1088.9	1044.1	1063.5	1093.4
7213.5	67.5°	2661.0	921.8	877.1	889.0	926.3	950.2	996.4	945.7	962.1	1012.8
5809.9	70°	2152.4	793.5	753.3	787.6	823.4	872.6	880.1	845.7	884.5	941.2
3545.6	72.5°	1522.9	663.8	635.4	705.5	717.5	781.6	765.2	748.8	802.5	821.9
1752.7	75°	1056.1	535.5	519.1	572.8	616.0	671.2	659.3	678.7	792.0	801.0
875.6	77.5°	668.2	416.2	405.7	440.0	499.7	560.8	580.2	801.0	1352.9	1406.6
454.9	80°	387.8	310.3	298.3	325.2	377.4	434.1	559.4	983.0	892.0	881.5
204.4	82.5°	216.3	213.3	198.4	205.8	252.1	313.2	790.6	692.1	562.3	580.2
82.0	85°	101.4	125.3	107.4	102.9	141.7	366.9	528.0	395.3	262.5	256.6
17.9	87.5°	26.8	23.9	23.9	26.8	59.7	316.2	210.3	168.6	99.9	97.0
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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