

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: P954094

Luminaire Tested: **GALN-SB7B-950-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954094
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-SB7B-950-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28333 lumens
Efficiency: N/A
Efficacy: 110.4 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

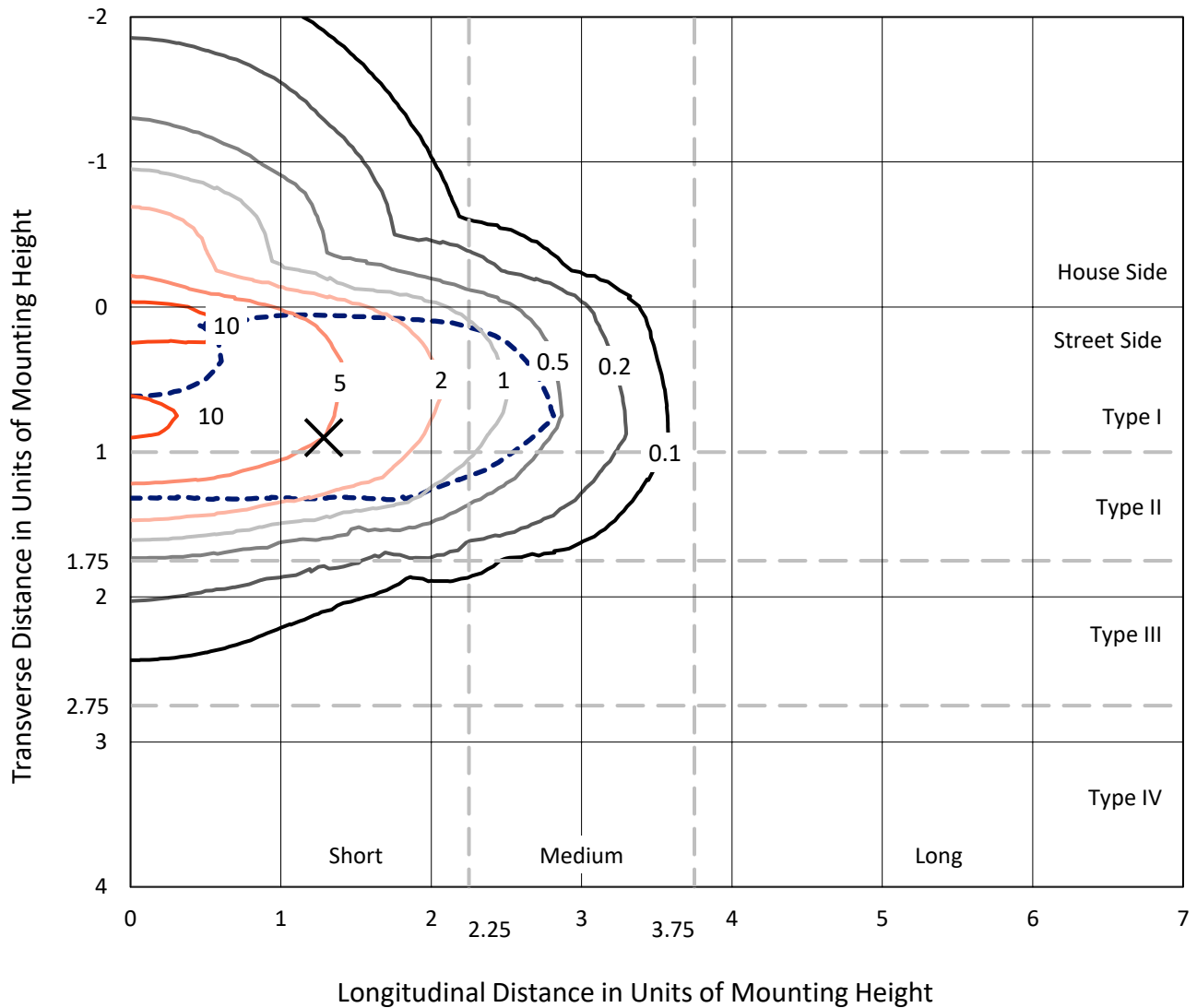
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

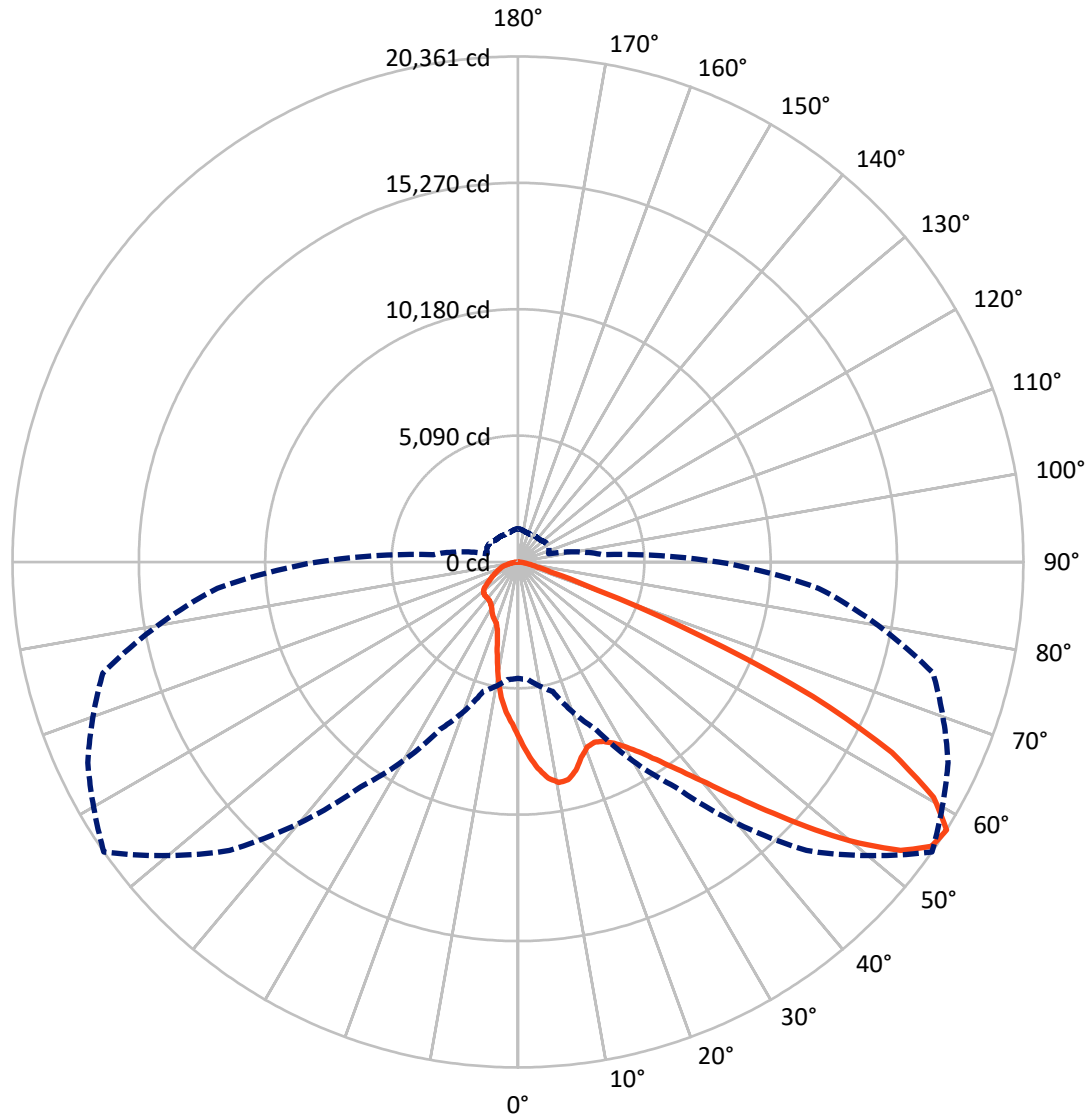
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 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	5126.7	0.0	5126.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	23206.3	0.0	23206.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	28333.0	0.0	28333.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	658.8	2.3
10°-20°	1662.8	5.9
20°-30°	2653.3	9.4
30°-40°	4200.9	14.8
40°-50°	6429.9	22.7
50°-60°	6887.0	24.3
60°-70°	4332.6	15.3
70°-80°	1281.2	4.5
80°-90°	226.5	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°	28333.0	100.0
0°-180°	28333.0	100.0

Coefficient of Utilization



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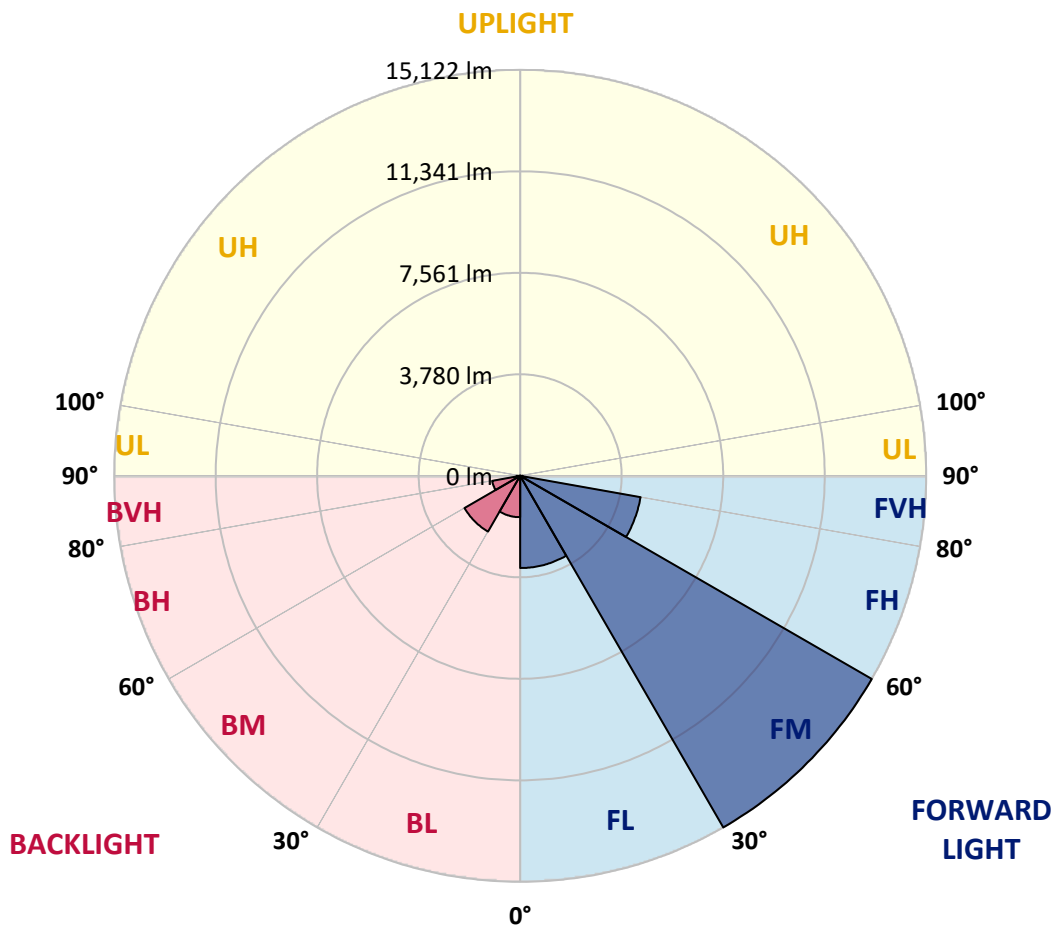
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3434.0	12.1			
FM (30°-60°)	15121.5	53.4			
FH (60°-80°)	4555.1	16.1			G2/5000
FVH (80°-90°)	95.7	0.3			G1/100
BL (0°-30°)	1540.9	5.4	B3/2500		
BM (30°-60°)	2396.2	8.5	B2/2500		
BH (60°-80°)	1058.8	3.7	B3/2500		G3/2500
BVH (80°-90°)	130.8	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°	7099.3	7099.3	7099.3	7099.3	7099.3	7099.3	7099.3	7099.3	7099.3	7099.3
2.5°	8145.1	8139.3	8171.5	8061.6	7986.9	7885.9	7752.6	7582.7	7399.6	7206.3
5°	8878.9	8827.7	8861.3	8779.3	8697.3	8545.0	8347.2	8070.4	7732.1	7346.9
7.5°	8763.2	8728.1	8814.5	8887.7	8949.2	8930.2	8785.2	8495.2	8058.7	7499.2
10°	7830.2	7790.7	7912.2	8165.6	8537.7	8861.3	9037.1	8857.0	8392.6	7666.2
12.5°	7007.1	6988.0	7068.6	7273.6	7686.7	8307.7	9004.9	9173.3	8739.8	7863.9
15°	6655.5	6632.1	6683.4	6787.4	7051.0	7629.5	8711.9	9390.1	9081.0	8092.4
17.5°	6577.9	6551.5	6573.5	6627.7	6797.6	7238.5	8269.6	9497.0	9437.0	8347.2
20°	6721.4	6699.5	6702.4	6699.5	6818.1	7168.2	7962.0	9456.0	9747.5	8581.6
22.5°	7068.6	7032.0	7033.4	6955.8	7020.2	7291.2	7881.5	9346.2	10024.3	8786.6
25°	7633.9	7568.0	7581.2	7383.5	7365.9	7566.6	8007.4	9261.2	10299.7	8950.7
27.5°	8407.3	8332.6	8293.0	7998.6	7858.0	7957.6	8263.8	9290.5	10560.4	9092.8
30°	9374.0	9283.2	9202.6	8785.2	8530.3	8493.7	8662.1	9483.8	10868.0	9242.2
32.5°	10558.9	10453.5	10307.0	9753.3	9394.5	9202.6	9177.7	9828.0	11228.3	9432.6
35°	11969.4	11831.7	11623.7	10907.5	10453.5	10060.9	9857.3	10324.6	11721.9	9719.7
37.5°	13422.4	13267.1	13076.7	12224.3	11666.2	11087.7	10686.3	10998.3	12379.5	10109.3
40°	14762.6	14588.3	14411.0	13652.3	13053.3	12356.1	11701.4	11850.8	13183.6	10575.0
42.5°	15553.5	15424.6	15357.2	14947.1	14484.3	13776.8	12963.9	12861.4	14087.3	11111.1
45°	15518.3	15465.6	15673.6	15843.5	15733.7	15341.1	14443.3	13979.0	14994.0	11575.4
47.5°	14689.3	14724.5	15188.8	16143.8	16564.1	16769.2	16127.7	15076.0	15782.0	11922.5
50°	12433.7	12463.0	13538.1	15597.4	16778.0	17933.6	17798.9	16146.7	16392.8	12134.9
52.5°	10648.3	10667.3	11128.7	13977.5	16072.0	18519.5	19304.6	17155.9	16839.5	12193.5
55°	8020.6	8086.5	8603.6	10966.1	14235.3	18055.2	20221.4	18195.8	17122.2	12199.4
57.5°	4685.5	4757.3	5395.9	7443.5	11064.2	16436.7	20360.6	19118.5	17314.0	12152.5
60°	2295.2	2325.9	2604.2	3912.2	6822.5	13318.4	19241.6	19565.3	17421.0	12127.6
62.5°	1546.7	1542.3	1554.0	1930.5	3361.5	8556.7	16909.8	18783.1	17363.8	12032.4
65°	1329.9	1313.8	1269.9	1354.8	1741.5	3913.6	13065.0	16448.4	16928.8	11793.6
67.5°	1149.8	1151.2	1152.7	1126.3	1243.5	1806.0	7984.0	12956.6	15367.5	10662.9
70°	952.0	965.2	971.1	971.1	1013.6	1184.9	3408.3	8880.4	12121.7	8360.4
72.5°	867.1	839.3	842.2	827.5	827.5	902.2	1372.4	5034.1	7636.9	4703.1
75°	707.4	725.0	727.9	717.7	684.0	688.4	814.4	2112.1	3267.7	1951.0
77.5°	610.8	610.8	616.6	609.3	582.9	515.6	543.4	818.8	1111.7	799.7
80°	490.7	489.2	514.1	528.8	487.7	380.8	347.1	452.6	493.6	351.5
82.5°	238.7	253.4	353.0	402.8	370.6	275.4	212.4	281.2	263.6	155.3
85°	139.1	131.8	158.2	224.1	212.4	152.3	102.5	146.5	137.7	79.1
87.5°	43.9	41.0	32.2	76.2	61.5	42.5	27.8	42.5	38.1	17.6
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°
7099.3	0°	7099.3	7099.3	7099.3	7099.3	7099.3	7099.3	7099.3	7099.3	7099.3	7099.3
7122.8	2.5°	7018.8	6845.9	6674.6	6517.9	6422.6	6361.1	6299.6	6230.8	6204.4	6164.9
7141.8	5°	6948.5	6614.5	6317.2	6060.9	5828.0	5644.9	5460.3	5310.9	5243.6	5289.0
7201.9	7.5°	6907.5	6424.1	5965.7	5495.5	5042.9	4681.1	4366.2	4145.1	4045.5	4070.4
7260.4	10°	6870.8	6208.8	5510.1	4767.6	4117.2	3669.0	3346.8	3178.4	3115.4	3128.6
7339.5	12.5°	6837.2	5967.1	4960.9	3983.9	3292.6	2996.7	2904.5	2905.9	2917.7	2926.4
7465.5	15°	6831.3	5675.7	4347.2	3298.5	2847.3	2828.3	2927.9	2990.9	3024.6	3034.8
7571.0	17.5°	6822.5	5327.1	3721.8	2831.2	2739.0	2867.9	2960.1	3001.1	3027.5	3029.0
7673.5	20°	6787.4	4884.7	3144.7	2608.6	2715.5	2826.8	2884.0	2916.2	2938.2	2945.5
7751.1	22.5°	6679.0	4392.6	2695.0	2509.0	2621.8	2711.1	2778.5	2815.1	2828.3	2837.1
7765.8	25°	6484.2	3841.9	2384.5	2413.8	2491.4	2604.2	2658.4	2665.7	2661.3	2674.5
7729.1	27.5°	6229.3	3251.6	2191.2	2284.9	2384.5	2481.2	2510.5	2506.1	2497.3	2511.9
7666.2	30°	5921.7	2721.4	2068.1	2139.9	2276.1	2364.0	2390.4	2380.1	2362.5	2378.6
7633.9	32.5°	5596.6	2287.8	1967.1	2038.8	2186.8	2273.2	2299.6	2289.3	2276.1	2289.3
7670.6	35°	5293.4	1984.6	1873.3	1971.5	2116.5	2201.4	2235.1	2236.6	2236.6	2252.7
7767.2	37.5°	5015.1	1807.4	1795.7	1929.0	2068.1	2144.3	2192.6	2195.6	2132.6	2137.0
7931.3	40°	4757.3	1732.7	1760.6	1901.2	2021.3	2094.5	2097.4	1933.4	1817.7	1814.7
8118.8	42.5°	4546.4	1718.1	1770.8	1898.2	1987.6	1990.5	1784.0	1656.6	1624.3	1625.8
8291.6	45°	4348.7	1713.7	1794.2	1898.2	1937.8	1719.5	1580.4	1546.7	1549.6	1561.4
8369.2	47.5°	4127.5	1696.1	1798.6	1871.9	1794.2	1529.1	1488.1	1473.5	1467.6	1470.5
8351.6	50°	3885.8	1633.1	1743.0	1819.1	1548.2	1447.1	1395.8	1391.5	1398.8	1403.2
8253.5	52.5°	3631.0	1530.6	1647.8	1723.9	1435.4	1375.3	1318.2	1328.5	1360.7	1370.9
8151.0	55°	3464.0	1410.5	1521.8	1533.5	1356.3	1308.0	1259.6	1283.1	1343.1	1362.2
8089.5	57.5°	3420.0	1283.1	1378.3	1365.1	1255.2	1249.4	1220.1	1240.6	1316.8	1344.6
8086.5	60°	3406.9	1168.8	1237.7	1227.4	1157.1	1184.9	1177.6	1187.9	1214.2	1223.0
8057.2	62.5°	3304.3	1078.0	1111.7	1097.0	1069.2	1117.6	1135.1	1113.2	1133.7	1143.9
7856.6	65°	3043.6	1004.8	988.7	978.4	990.1	1034.1	1069.2	1025.3	1044.3	1073.6
7083.2	67.5°	2613.0	905.2	861.2	873.0	909.6	933.0	978.4	928.6	944.7	994.5
5704.9	70°	2113.5	779.2	739.7	773.4	808.5	856.8	864.2	830.5	868.6	924.2
3481.6	72.5°	1495.4	651.8	624.0	692.8	704.5	767.5	751.4	735.3	788.0	807.0
1721.0	75°	1037.0	525.8	509.7	562.4	604.9	659.1	647.4	666.4	777.7	786.5
859.8	77.5°	656.2	408.6	398.4	432.1	490.7	550.7	569.8	786.5	1328.5	1381.2
446.7	80°	380.8	304.7	292.9	319.3	370.6	426.2	549.3	965.2	875.9	865.6
200.7	82.5°	212.4	209.5	194.8	202.1	247.5	307.6	776.3	679.6	552.2	569.8
80.6	85°	99.6	123.0	105.5	101.1	139.1	360.3	518.5	388.1	257.8	251.9
17.6	87.5°	26.4	23.4	23.4	26.4	58.6	310.5	206.5	165.5	98.1	95.2
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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