

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: P955459

Luminaire Tested: **GALN-SB8B-930-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955459
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-SB8B-930-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32215 lumens
Efficiency: N/A
Efficacy: 110.0 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

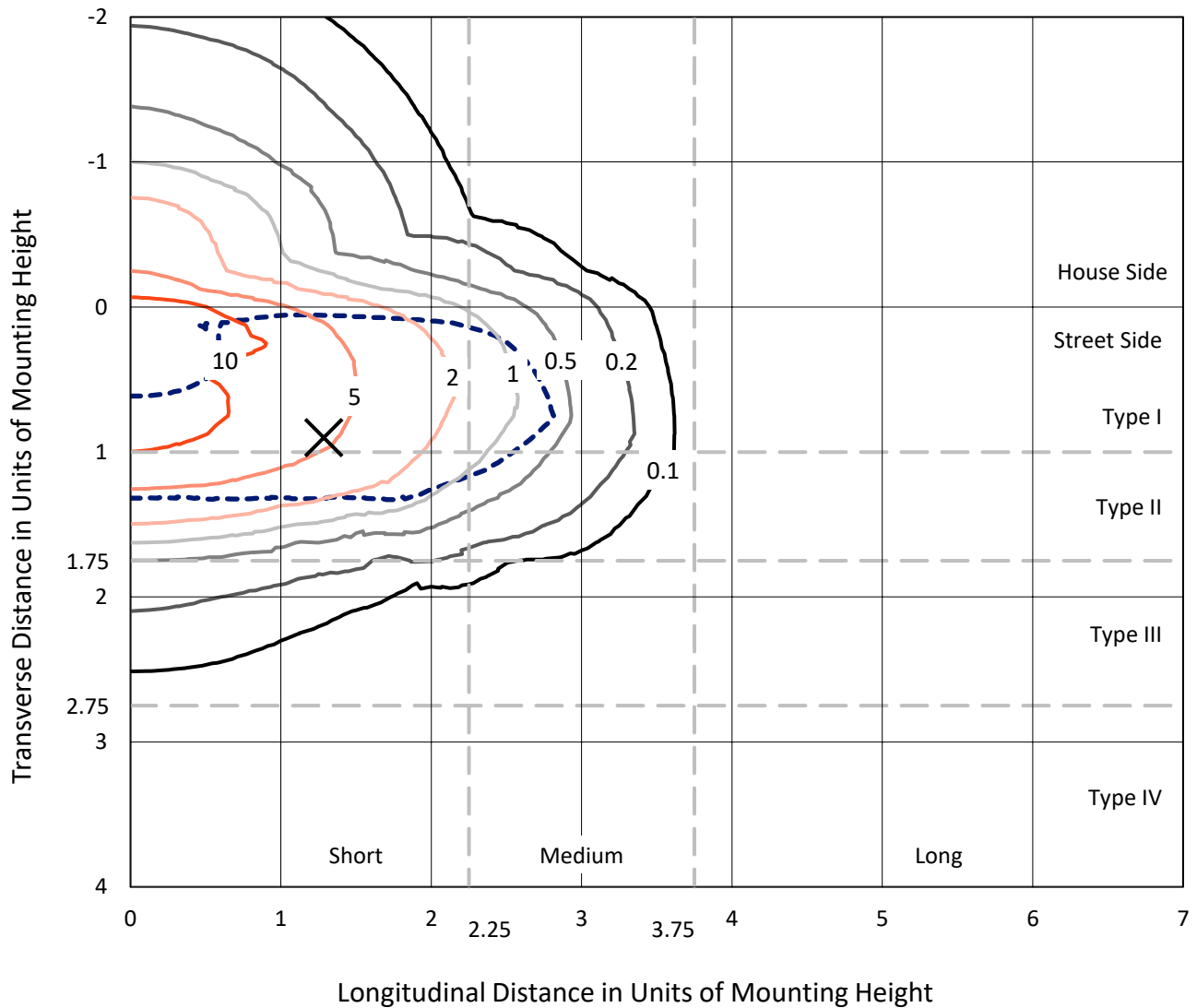
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

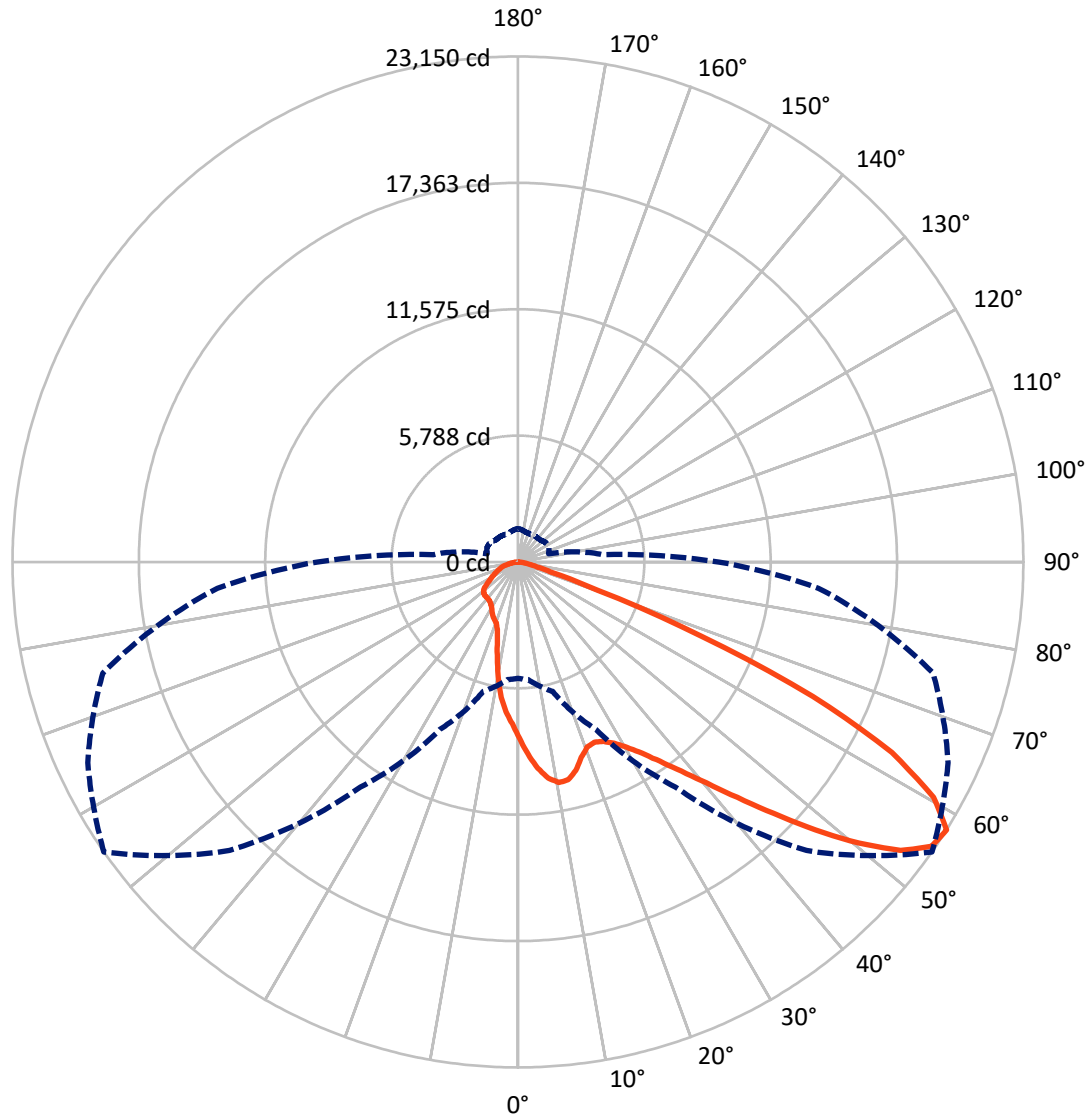
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 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	5829.1	0.0	5829.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	26385.9	0.0	26385.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	32215.0	0.0	32215.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	749.0	2.3
10°-20°	1890.6	5.9
20°-30°	3016.9	9.4
30°-40°	4776.4	14.8
40°-50°	7310.8	22.7
50°-60°	7830.6	24.3
60°-70°	4926.3	15.3
70°-80°	1456.8	4.5
80°-90°	257.6	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°	32215.0	100.0
0°-180°	32215.0	100.0

Coefficient of Utilization



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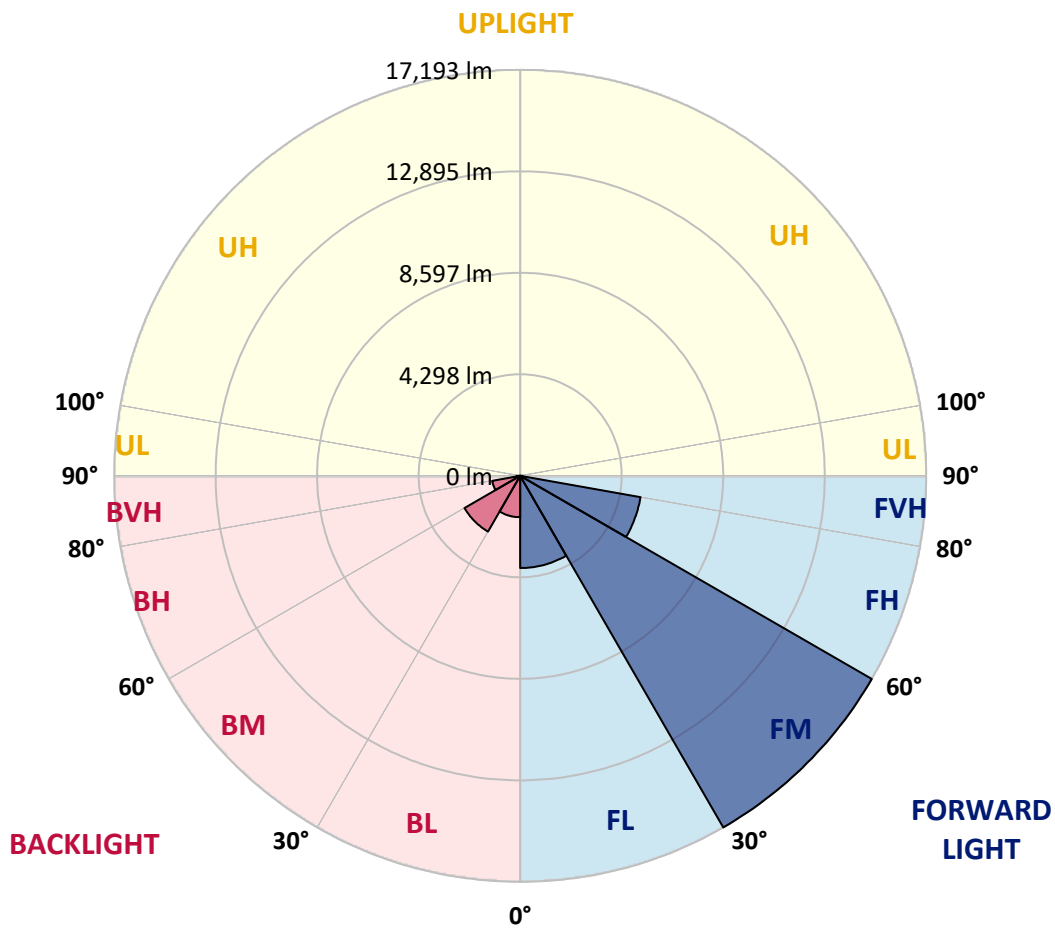
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3904.5	12.1			
FM (30°-60°)	17193.4	53.4			
FH (60°-80°)	5179.2	16.1			G3/7500
FVH (80°-90°)	108.8	0.3			G2/225
BL (0°-30°)	1752.0	5.4	B3/2500		
BM (30°-60°)	2724.5	8.5	B3/5000		
BH (60°-80°)	1203.9	3.7	B3/2500		G3/2500
BVH (80°-90°)	148.7	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°	8072.0	8072.0	8072.0	8072.0	8072.0	8072.0	8072.0	8072.0	8072.0	8072.0
2.5°	9261.1	9254.4	9291.1	9166.2	9081.2	8966.3	8814.8	8621.6	8413.4	8193.6
5°	10095.5	10037.2	10075.5	9982.2	9888.9	9715.8	9490.9	9176.2	8791.5	8353.5
7.5°	9963.9	9923.9	10022.2	10105.4	10175.4	10153.7	9988.9	9659.1	9162.8	8526.7
10°	8903.1	8858.1	8996.3	9284.4	9707.4	10075.5	10275.3	10070.5	9542.6	8716.5
12.5°	7967.1	7945.5	8037.1	8270.2	8739.8	9446.0	10238.7	10430.2	9937.2	8941.4
15°	7567.4	7540.8	7599.1	7717.3	8017.1	8674.9	9905.6	10676.7	10325.3	9201.2
17.5°	7479.2	7449.2	7474.2	7535.8	7729.0	8230.2	9402.7	10798.2	10730.0	9490.9
20°	7642.4	7617.4	7620.7	7617.4	7752.3	8150.3	9052.9	10751.6	11083.0	9757.4
22.5°	8037.1	7995.4	7997.1	7908.8	7982.1	8290.2	8961.3	10626.7	11397.8	9990.5
25°	8679.9	8605.0	8619.9	8395.1	8375.1	8603.3	9104.6	10530.1	11710.9	10177.1
27.5°	9559.2	9474.3	9429.3	9094.6	8934.7	9047.9	9396.0	10563.4	12007.3	10338.6
30°	10658.3	10555.1	10463.5	9988.9	9699.1	9657.5	9849.0	10783.3	12357.0	10508.5
32.5°	12005.6	11885.7	11719.2	11089.7	10681.7	10463.5	10435.2	11174.6	12766.7	10725.0
35°	13609.4	13452.8	13216.4	12402.0	11885.7	11439.4	11207.9	11739.2	13327.9	11051.4
37.5°	15261.4	15084.9	14868.4	13899.2	13264.6	12606.8	12150.5	12505.2	14075.7	11494.4
40°	16785.2	16587.1	16385.5	15522.9	14841.7	14049.0	13304.6	13474.5	14990.0	12023.9
42.5°	17684.5	17538.0	17461.4	16995.1	16468.8	15664.4	14740.2	14623.6	16017.5	12633.5
45°	17644.6	17584.6	17821.1	18014.3	17889.4	17443.1	16422.2	15894.3	17048.4	13161.4
47.5°	16702.0	16741.9	17269.9	18355.7	18833.6	19066.8	18337.4	17141.6	17944.3	13556.1
50°	14137.3	14170.6	15393.0	17734.5	19076.8	20390.8	20237.5	18359.0	18638.8	13797.6
52.5°	12107.2	12128.9	12653.5	15892.6	18274.1	21056.9	21949.5	19506.4	19146.7	13864.2
55°	9119.5	9194.5	9782.4	12468.6	16185.7	20529.0	22992.1	20688.9	19468.1	13870.8
57.5°	5327.5	5409.1	6135.2	8463.4	12580.2	18688.7	23150.3	21738.0	19686.3	13817.5
60°	2609.6	2644.6	2961.0	4448.2	7757.3	15143.2	21877.9	22246.0	19807.9	13789.2
62.5°	1758.6	1753.6	1767.0	2195.0	3822.0	9729.1	19226.7	21356.7	19742.9	13681.0
65°	1512.2	1493.8	1443.9	1540.5	1980.1	4449.9	14855.1	18702.1	19248.3	13409.5
67.5°	1307.3	1309.0	1310.6	1280.7	1413.9	2053.4	9077.9	14731.8	17473.0	12123.9
70°	1082.5	1097.5	1104.1	1104.1	1152.4	1347.3	3875.3	10097.1	13782.6	9505.9
72.5°	985.9	954.3	957.6	940.9	940.9	1025.9	1560.4	5723.9	8683.2	5347.5
75°	804.4	824.4	827.7	816.0	777.7	782.7	925.9	2401.5	3715.4	2218.3
77.5°	694.5	694.5	701.1	692.8	662.8	586.2	617.9	930.9	1264.0	909.3
80°	557.9	556.2	584.5	601.2	554.6	433.0	394.7	514.6	561.2	399.7
82.5°	271.5	288.1	401.4	458.0	421.3	313.1	241.5	319.8	299.8	176.5
85°	158.2	149.9	179.9	254.8	241.5	173.2	116.6	166.5	156.5	89.9
87.5°	50.0	46.6	36.6	86.6	69.9	48.3	31.6	48.3	43.3	20.0
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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CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
8072.0	0°	8072.0	8072.0	8072.0	8072.0	8072.0	8072.0	8072.0	8072.0	8072.0	8072.0
8098.7	2.5°	7980.4	7783.9	7589.1	7410.9	7302.6	7232.7	7162.7	7084.5	7054.5	7009.5
8120.3	5°	7900.5	7520.8	7182.7	6891.3	6626.5	6418.3	6208.5	6038.6	5962.0	6013.6
8188.6	7.5°	7853.9	7304.3	6783.0	6248.5	5733.9	5322.5	4964.5	4713.0	4599.7	4628.1
8255.2	10°	7812.2	7059.5	6265.1	5420.8	4681.3	4171.7	3805.4	3613.8	3542.2	3557.2
8345.2	12.5°	7773.9	6784.7	5640.6	4529.8	3743.7	3407.3	3302.4	3304.1	3317.4	3327.4
8488.4	15°	7767.3	6453.3	4942.8	3750.4	3237.5	3215.8	3329.1	3400.7	3439.0	3450.6
8608.3	17.5°	7757.3	6056.9	4231.7	3219.2	3114.2	3260.8	3365.7	3412.3	3442.3	3444.0
8724.9	20°	7717.3	5554.0	3575.5	2966.0	3087.6	3214.2	3279.1	3315.7	3340.7	3349.1
8813.1	22.5°	7594.1	4994.4	3064.3	2852.8	2981.0	3082.6	3159.2	3200.8	3215.8	3225.8
8829.8	25°	7372.6	4368.3	2711.2	2744.5	2832.8	2961.0	3022.6	3031.0	3026.0	3041.0
8788.1	27.5°	7082.8	3697.1	2491.4	2598.0	2711.2	2821.1	2854.4	2849.4	2839.5	2856.1
8716.5	30°	6733.1	3094.3	2351.5	2433.1	2588.0	2687.9	2717.9	2706.2	2686.2	2704.6
8679.9	32.5°	6363.4	2601.3	2236.6	2318.2	2486.4	2584.6	2614.6	2603.0	2588.0	2603.0
8721.5	35°	6018.6	2256.6	2130.0	2241.6	2406.5	2503.0	2541.3	2543.0	2543.0	2561.3
8831.4	37.5°	5702.2	2055.1	2041.7	2193.3	2351.5	2438.1	2493.1	2496.4	2424.8	2429.8
9018.0	40°	5409.1	1970.1	2001.8	2161.6	2298.2	2381.5	2384.8	2198.3	2066.7	2063.4
9231.1	42.5°	5169.3	1953.5	2013.4	2158.3	2259.9	2263.2	2028.4	1883.5	1846.9	1848.6
9427.6	45°	4944.5	1948.5	2040.1	2158.3	2203.3	1955.1	1796.9	1758.6	1762.0	1775.3
9515.9	47.5°	4693.0	1928.5	2045.1	2128.3	2040.1	1738.6	1692.0	1675.4	1668.7	1672.0
9495.9	50°	4418.2	1856.9	1981.8	2068.4	1760.3	1645.4	1587.1	1582.1	1590.4	1595.4
9384.3	52.5°	4128.4	1740.3	1873.5	1960.1	1632.1	1563.8	1498.8	1510.5	1547.1	1558.8
9267.8	55°	3938.6	1603.7	1730.3	1743.6	1542.1	1487.2	1432.2	1458.9	1527.1	1548.8
9197.8	57.5°	3888.6	1458.9	1567.1	1552.1	1427.2	1420.6	1387.3	1410.6	1497.2	1528.8
9194.5	60°	3873.6	1329.0	1407.2	1395.6	1315.6	1347.3	1339.0	1350.6	1380.6	1390.6
9161.2	62.5°	3757.1	1225.7	1264.0	1247.4	1215.7	1270.7	1290.7	1265.7	1289.0	1300.7
8933.0	65°	3460.6	1142.4	1124.1	1112.5	1125.8	1175.7	1215.7	1165.8	1187.4	1220.7
8053.7	67.5°	2971.0	1029.2	979.2	992.6	1034.2	1060.8	1112.5	1055.8	1074.2	1130.8
6486.6	70°	2403.1	886.0	841.0	879.3	919.3	974.2	982.6	944.3	987.6	1050.8
3958.6	72.5°	1700.3	741.1	709.4	787.7	801.0	872.7	854.3	836.0	896.0	917.6
1956.8	75°	1179.1	597.9	579.5	639.5	687.8	749.4	736.1	757.7	884.3	894.3
977.6	77.5°	746.1	464.6	453.0	491.3	557.9	626.2	647.8	894.3	1510.5	1570.4
507.9	80°	433.0	346.4	333.1	363.0	421.3	484.6	624.5	1097.5	995.9	984.2
228.2	82.5°	241.5	238.1	221.5	229.8	281.4	349.7	882.6	772.7	627.8	647.8
91.6	85°	113.2	139.9	119.9	114.9	158.2	409.7	589.5	441.3	293.1	286.4
20.0	87.5°	30.0	26.6	26.6	30.0	66.6	353.1	234.8	188.2	111.6	108.2
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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