

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: P955501

Luminaire Tested: **GALN-SB8B-940-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955501
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-940-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33557 lumens
Efficiency: N/A
Efficacy: 114.6 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

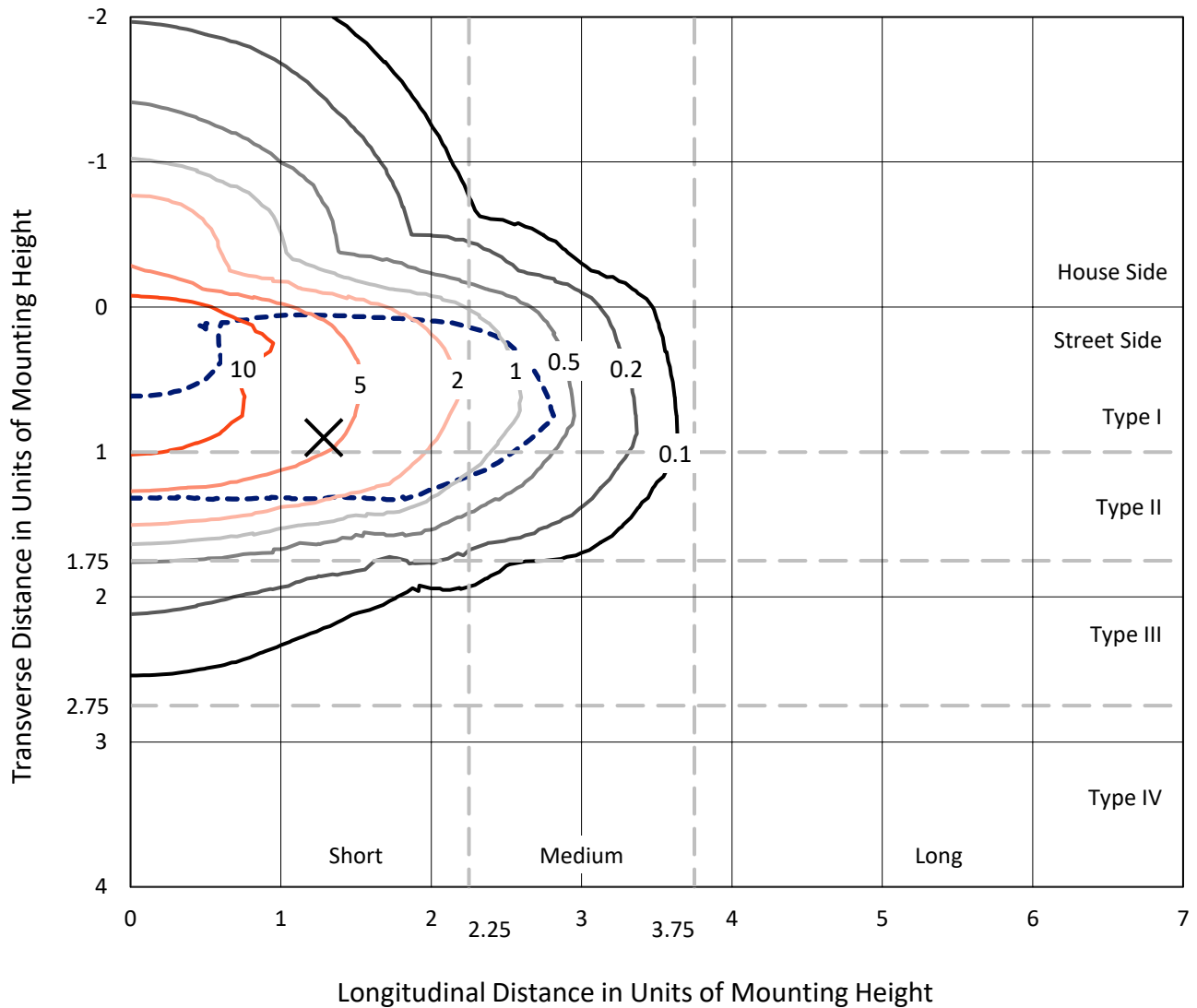
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

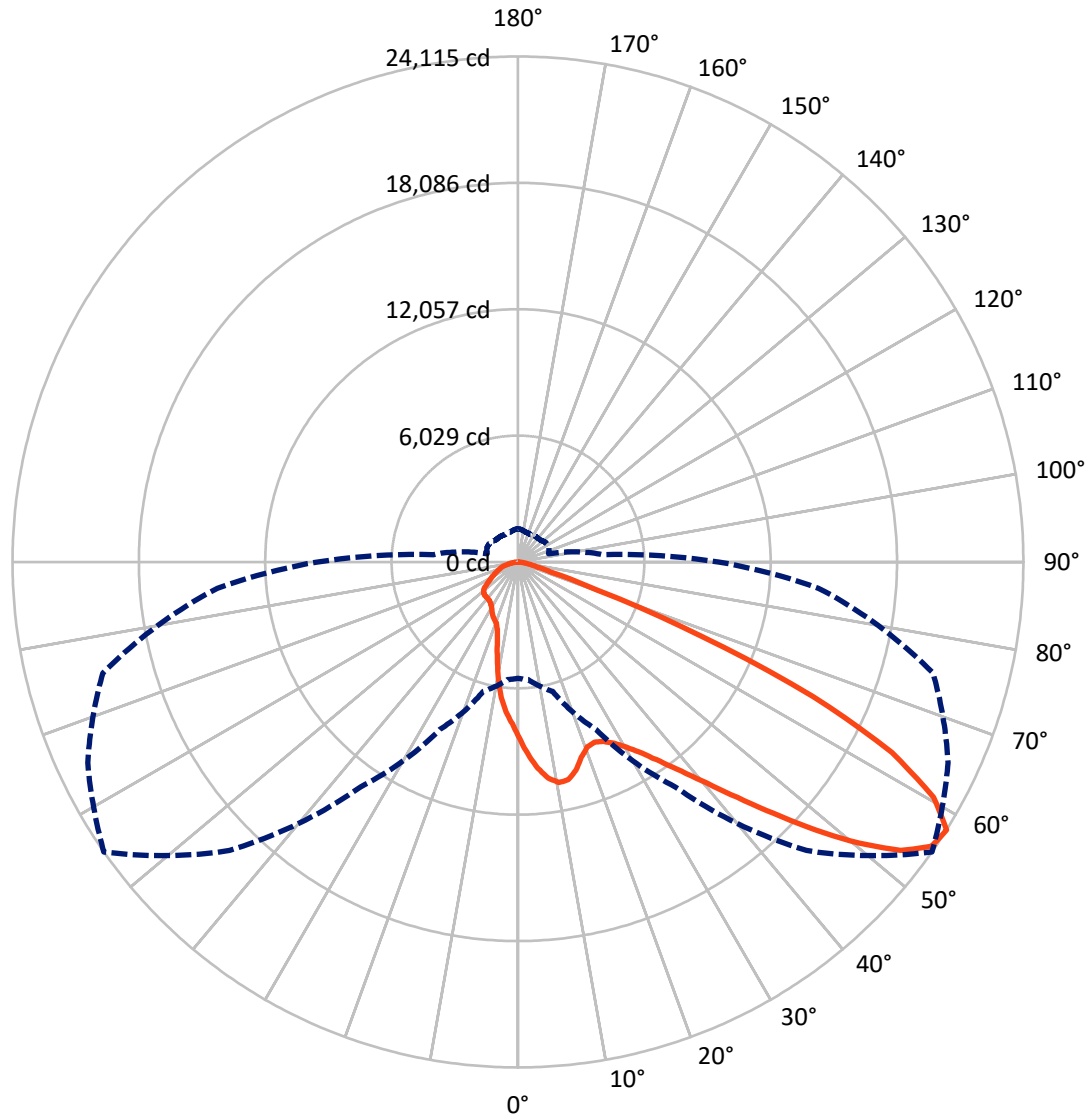
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.3 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	6072.0	0.0	6072.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	27485.0	0.0	27485.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	33557.0	0.0	33557.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	780.2	2.3
10°-20°	1969.4	5.9
20°-30°	3142.5	9.4
30°-40°	4975.4	14.8
40°-50°	7615.4	22.7
50°-60°	8156.8	24.3
60°-70°	5131.5	15.3
70°-80°	1517.5	4.5
80°-90°	268.3	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°	33557.0	100.0
0°-180°	33557.0	100.0



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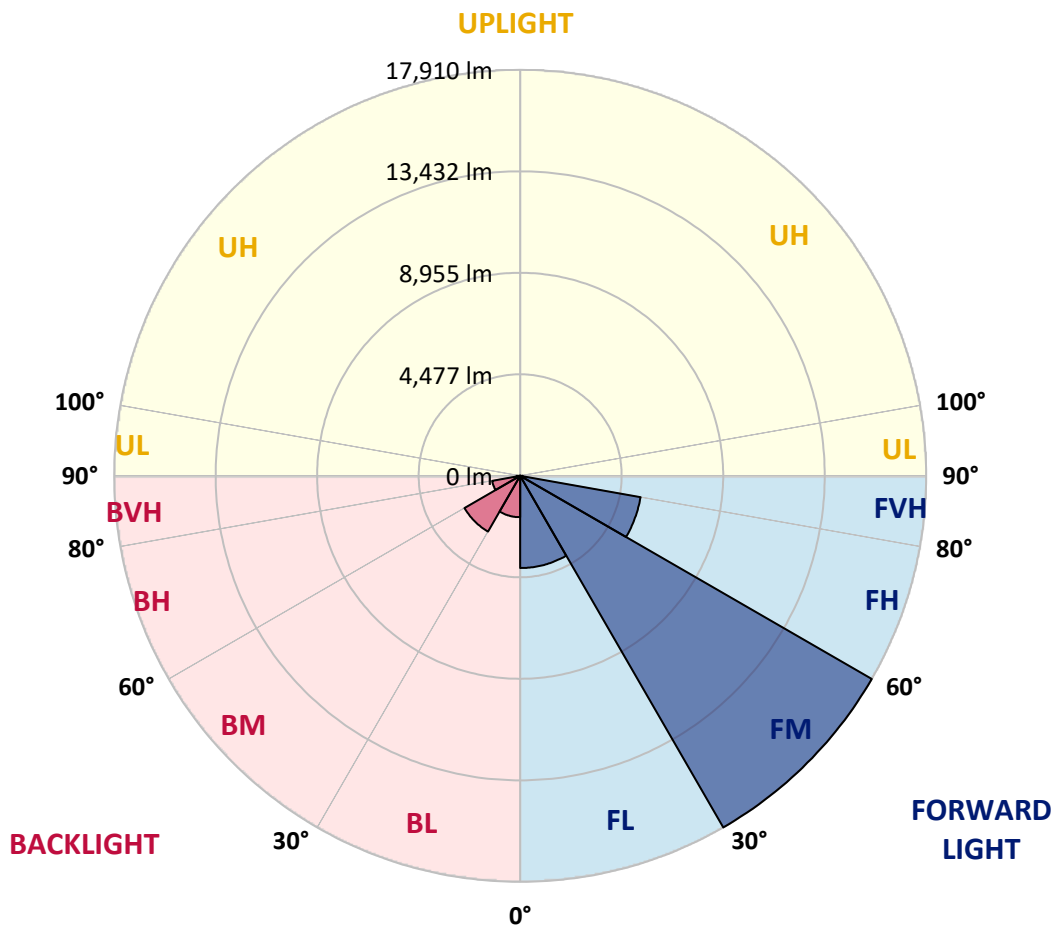
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4067.1	12.1			
FM (30°-60°)	17909.6	53.4			
FH (60°-80°)	5394.9	16.1			G3/7500
FVH (80°-90°)	113.4	0.3			G2/225
BL (0°-30°)	1825.0	5.4	B3/2500		
BM (30°-60°)	2838.0	8.5	B3/5000		
BH (60°-80°)	1254.0	3.7	B3/2500		G3/2500
BVH (80°-90°)	154.9	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°	8408.3	8408.3	8408.3	8408.3	8408.3	8408.3	8408.3	8408.3	8408.3	8408.3
2.5°	9646.9	9640.0	9678.1	9548.0	9459.5	9339.9	9182.0	8980.8	8763.9	8534.9
5°	10516.0	10455.3	10495.2	10398.0	10300.9	10120.5	9886.3	9558.4	9157.7	8701.5
7.5°	10379.0	10337.3	10439.7	10526.4	10599.3	10576.7	10405.0	10061.5	9544.6	8881.9
10°	9273.9	9227.1	9371.1	9671.2	10111.8	10495.2	10703.4	10490.0	9940.1	9079.6
12.5°	8299.0	8276.5	8371.9	8614.7	9103.9	9839.5	10665.2	10864.7	10351.2	9313.8
15°	7882.7	7854.9	7915.6	8038.8	8351.0	9036.3	10318.2	11121.4	10755.4	9584.5
17.5°	7790.7	7759.5	7785.5	7849.7	8050.9	8573.1	9794.4	11248.1	11176.9	9886.3
20°	7960.7	7934.7	7938.2	7934.7	8075.2	8489.8	9430.1	11199.5	11544.7	10163.9
22.5°	8371.9	8328.5	8330.2	8238.3	8314.6	8635.5	9334.6	11069.4	11872.6	10406.7
25°	9041.5	8963.4	8979.0	8744.8	8724.0	8961.7	9483.8	10968.8	12198.7	10601.0
27.5°	9957.4	9868.9	9822.1	9473.4	9306.9	9424.9	9787.4	11003.5	12507.5	10769.3
30°	11102.3	10994.8	10899.4	10405.0	10103.1	10059.8	10259.3	11232.5	12871.8	10946.2
32.5°	12505.8	12380.9	12207.4	11551.6	11126.6	10899.4	10869.9	11640.1	13298.5	11171.7
35°	14176.3	14013.2	13766.9	12918.6	12380.9	11915.9	11674.8	12228.2	13883.1	11511.7
37.5°	15897.2	15713.3	15487.8	14478.2	13817.2	13132.0	12656.7	13026.2	14662.0	11973.2
40°	17484.5	17278.0	17068.1	16169.5	15460.0	14634.3	13858.9	14035.8	15614.4	12524.8
42.5°	18421.2	18268.6	18188.8	17703.0	17154.9	16317.0	15354.2	15232.8	16684.7	13159.8
45°	18379.6	18317.1	18563.5	18764.7	18634.6	18169.7	17106.3	16556.4	17758.6	13709.7
47.5°	17397.7	17439.4	17989.3	19120.3	19618.2	19861.1	19101.2	17855.7	18691.8	14120.8
50°	14726.2	14760.9	16034.2	18473.3	19871.5	21240.2	21080.6	19123.8	19415.2	14372.3
52.5°	12611.6	12634.1	13180.6	16554.6	19035.3	21934.1	22863.9	20319.0	19944.3	14441.7
55°	9499.4	9577.5	10189.9	12988.0	16860.0	21384.2	23949.8	21550.7	20279.1	14448.7
57.5°	5549.4	5634.4	6390.8	8816.0	13104.2	19467.3	24114.6	22643.6	20506.4	14393.2
60°	2718.3	2754.8	3084.4	4633.5	8080.4	15774.0	22789.3	23172.7	20633.0	14363.7
62.5°	1831.9	1826.7	1840.6	2286.4	3981.2	10134.4	20027.6	22246.3	20565.4	14250.9
65°	1575.1	1556.1	1504.0	1604.6	2062.6	4635.2	15473.9	19481.2	20050.1	13968.1
67.5°	1361.8	1363.5	1365.2	1334.0	1472.8	2138.9	9456.1	15345.5	18200.9	12628.9
70°	1127.6	1143.2	1150.1	1150.1	1200.4	1403.4	4036.7	10517.7	14356.7	9901.9
72.5°	1027.0	994.0	997.5	980.1	980.1	1068.6	1625.5	5962.3	9044.9	5570.3
75°	837.9	858.7	862.2	850.0	810.1	815.3	964.5	2501.5	3870.2	2310.7
77.5°	723.4	723.4	730.3	721.7	690.4	610.6	643.6	969.7	1316.7	947.2
80°	581.1	579.4	608.9	626.2	577.7	451.0	411.1	536.0	584.6	416.3
82.5°	282.8	300.1	418.1	477.1	438.9	326.1	251.5	333.1	312.3	183.9
85°	164.8	156.1	187.4	265.4	251.5	180.4	121.4	173.5	163.1	93.7
87.5°	52.0	48.6	38.2	90.2	72.9	50.3	33.0	50.3	45.1	20.8
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°
8408.3	0°	8408.3	8408.3	8408.3	8408.3	8408.3	8408.3	8408.3	8408.3	8408.3	8408.3
8436.1	2.5°	8312.9	8108.2	7905.2	7719.6	7606.8	7534.0	7461.1	7379.6	7348.4	7301.5
8458.6	5°	8229.6	7834.1	7481.9	7178.4	6902.5	6685.7	6467.1	6290.2	6210.4	6264.2
8529.7	7.5°	8181.0	7608.6	7065.6	6508.8	5972.7	5544.2	5171.3	4909.3	4791.4	4820.8
8599.1	10°	8137.7	7353.6	6526.1	5646.6	4876.4	4345.5	3963.9	3764.4	3689.8	3705.4
8692.8	12.5°	8097.8	7067.3	5875.6	4718.5	3899.7	3549.3	3440.0	3441.7	3455.6	3466.0
8842.0	15°	8090.8	6722.1	5148.7	3906.6	3372.3	3349.8	3467.7	3542.3	3582.2	3594.4
8966.9	17.5°	8080.4	6309.3	4408.0	3353.3	3244.0	3396.6	3505.9	3554.5	3585.7	3587.4
9088.3	20°	8038.8	5785.4	3724.5	3089.6	3216.2	3348.1	3415.7	3453.9	3479.9	3488.6
9180.3	22.5°	7910.4	5202.5	3191.9	2971.6	3105.2	3211.0	3290.8	3334.2	3349.8	3360.2
9197.6	25°	7679.7	4550.2	2824.2	2858.9	2950.8	3084.4	3148.6	3157.2	3152.0	3167.6
9154.2	27.5°	7377.9	3851.1	2595.2	2706.2	2824.2	2938.7	2973.3	2968.1	2957.7	2975.1
9079.6	30°	7013.6	3223.2	2449.5	2534.5	2695.8	2799.9	2831.1	2819.0	2798.1	2817.2
9041.5	32.5°	6628.4	2709.7	2329.8	2414.8	2590.0	2692.3	2723.5	2711.4	2695.8	2711.4
9084.8	35°	6269.4	2350.6	2218.7	2335.0	2506.7	2607.3	2647.2	2649.0	2649.0	2668.0
9199.3	37.5°	5939.8	2140.7	2126.8	2284.7	2449.5	2539.7	2596.9	2600.4	2525.8	2531.0
9393.6	40°	5634.4	2052.2	2085.2	2251.7	2393.9	2480.7	2484.2	2289.9	2152.8	2149.3
9615.7	42.5°	5384.6	2034.9	2097.3	2248.2	2354.0	2357.5	2112.9	1962.0	1923.8	1925.6
9820.4	45°	5150.4	2029.6	2125.1	2248.2	2295.1	2036.6	1871.8	1831.9	1835.4	1849.2
9912.3	47.5°	4888.5	2008.8	2130.3	2217.0	2125.1	1811.1	1762.5	1745.2	1738.2	1741.7
9891.5	50°	4602.3	1934.2	2064.3	2154.5	1833.6	1713.9	1653.2	1648.0	1656.7	1661.9
9775.3	52.5°	4300.4	1812.8	1951.6	2041.8	1700.0	1628.9	1561.3	1573.4	1611.6	1623.7
9653.8	55°	4102.7	1670.6	1802.4	1816.3	1606.4	1549.1	1491.9	1519.6	1590.8	1613.3
9581.0	57.5°	4050.6	1519.6	1632.4	1616.8	1486.7	1479.7	1445.0	1469.3	1559.5	1592.5
9577.5	60°	4035.0	1384.3	1465.9	1453.7	1370.4	1403.4	1394.7	1406.9	1438.1	1448.5
9542.8	62.5°	3913.6	1276.8	1316.7	1299.3	1266.4	1323.6	1344.4	1318.4	1342.7	1354.8
9305.2	65°	3604.8	1190.0	1171.0	1158.8	1172.7	1224.7	1266.4	1214.3	1236.9	1271.6
8389.2	67.5°	3094.8	1072.1	1020.0	1033.9	1077.3	1105.0	1158.8	1099.8	1118.9	1177.9
6756.8	70°	2503.2	922.9	876.0	915.9	957.6	1014.8	1023.5	983.6	1028.7	1094.6
4123.5	72.5°	1771.2	772.0	739.0	820.5	834.4	909.0	889.9	870.8	933.3	955.8
2038.3	75°	1228.2	622.8	603.7	666.1	716.4	780.6	766.8	789.3	921.1	931.6
1018.3	77.5°	777.2	484.0	471.8	511.7	581.1	652.3	674.8	931.6	1573.4	1635.9
529.1	80°	451.0	360.8	346.9	378.2	438.9	504.8	650.5	1143.2	1037.4	1025.2
237.7	82.5°	251.5	248.1	230.7	239.4	293.2	364.3	919.4	804.9	654.0	674.8
95.4	85°	118.0	145.7	124.9	119.7	164.8	426.7	614.1	459.7	305.3	298.4
20.8	87.5°	31.2	27.8	27.8	31.2	69.4	367.8	244.6	196.0	116.2	112.8
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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