

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: P947038

Luminaire Tested: **GALN-SB2C-735-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947038
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-SB2C-735-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15232 lumens
Efficiency: N/A
Efficacy: 151.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

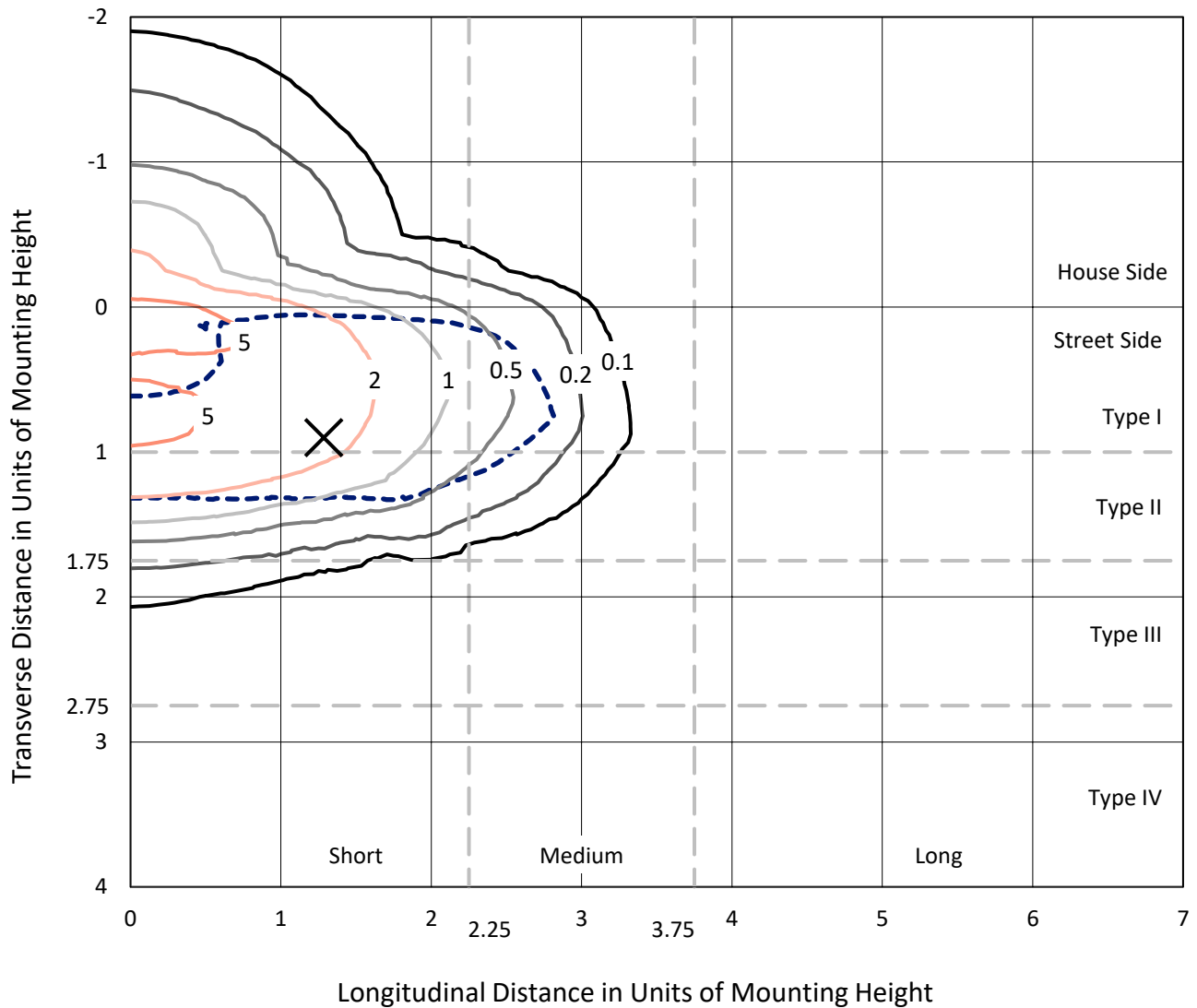
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P947038
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Iso-Footcandle Lines of Horizontal Illumination

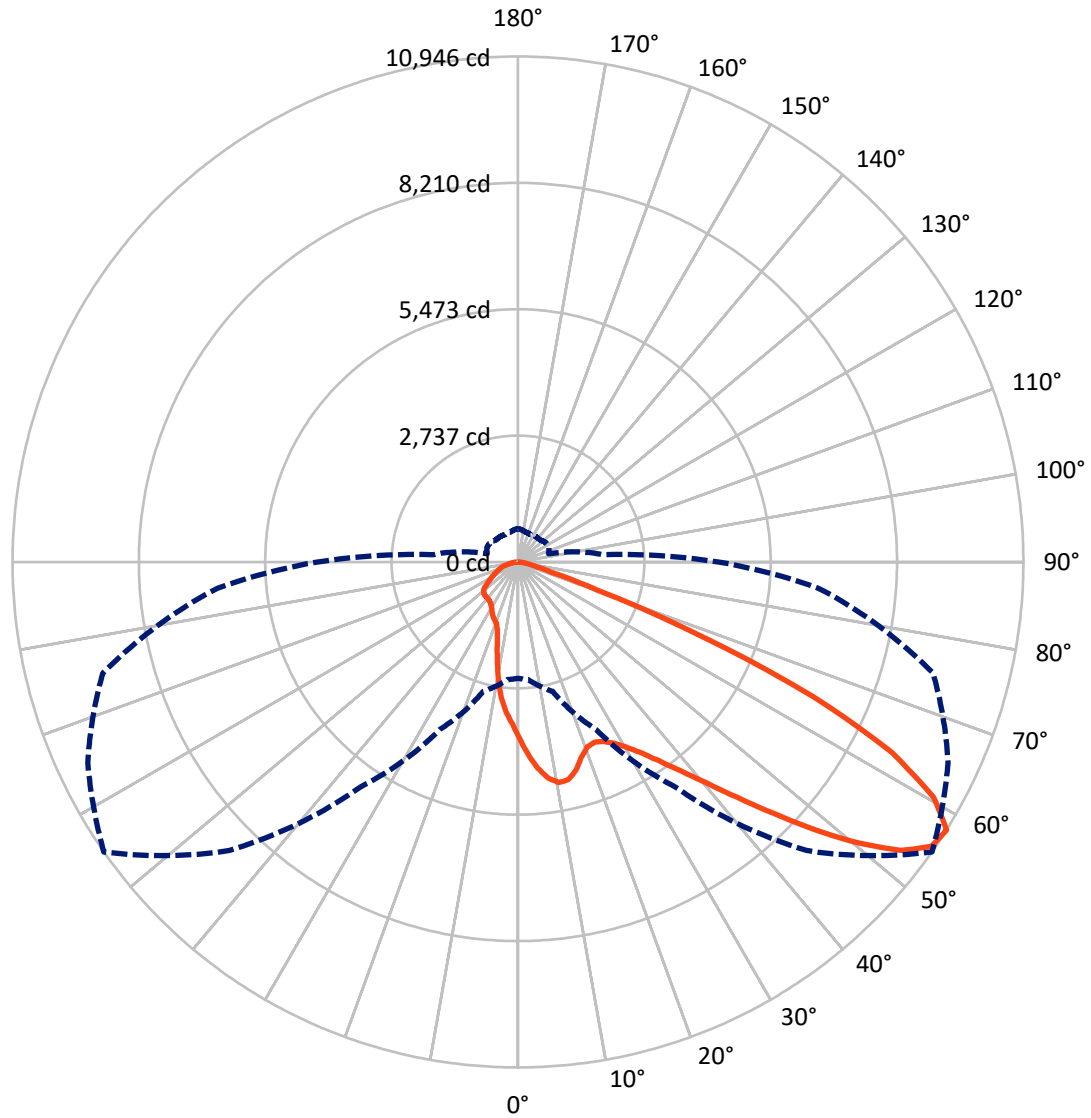
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type II - Short - N/A

REPORT NUMBER: P947038
CATALOG NUMBER: GALN-SB2C-735-U-AFL

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P947038

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2756.2	0.0	2756.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	12475.8	0.0	12475.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	15232.0	0.0	15232.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.2	2.3
10°-20°	893.9	5.9
20°-30°	1426.4	9.4
30°-40°	2258.4	14.8
40°-50°	3456.7	22.7
50°-60°	3702.5	24.3
60°-70°	2329.2	15.3
70°-80°	688.8	4.5
80°-90°	121.8	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°	15232.0	100.0
0°-180°	15232.0	100.0

Coefficient of Utilization



REPORT NUMBER: P947038

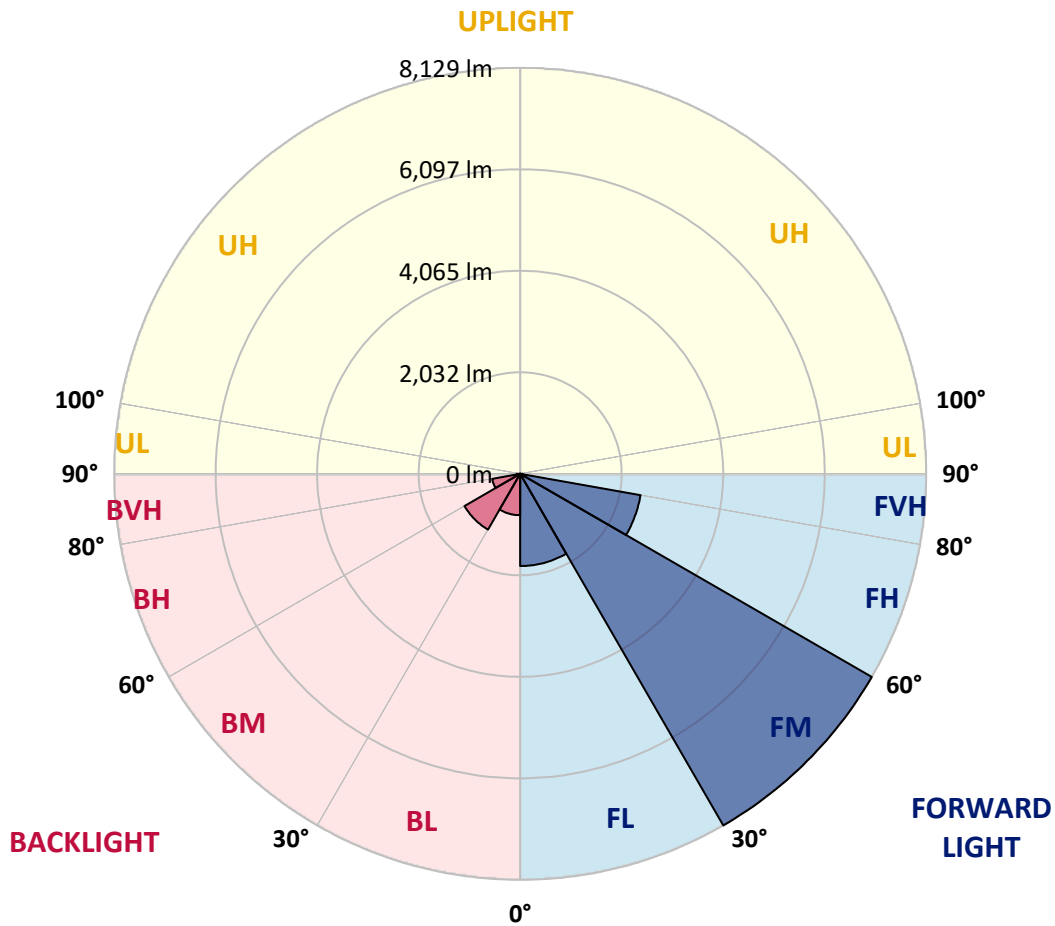
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1846.1	12.1			
FM (30°-60°)	8129.4	53.4			
FH (60°-80°)	2448.8	16.1			G2/5000
FVH (80°-90°)	51.5	0.3			G1/100
BL (0°-30°)	828.4	5.4	B2/1000		
BM (30°-60°)	1288.2	8.5	B2/2500		
BH (60°-80°)	569.2	3.7	B2/1000		G2/1000
BVH (80°-90°)	70.3	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



REPORT NUMBER: P947038
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3816.6	3816.6	3816.6	3816.6	3816.6	3816.6	3816.6	3816.6	3816.6	3816.6
2.5°	4378.9	4375.7	4393.0	4334.0	4293.8	4239.5	4167.8	4076.5	3978.1	3874.1
5°	4773.4	4745.8	4763.9	4719.8	4675.7	4593.8	4487.5	4338.7	4156.8	3949.7
7.5°	4711.2	4692.3	4738.7	4778.1	4811.2	4800.9	4723.0	4567.1	4332.4	4031.6
10°	4209.6	4188.3	4253.7	4389.9	4589.9	4763.9	4858.4	4761.6	4511.9	4121.4
12.5°	3767.0	3756.8	3800.1	3910.3	4132.4	4466.3	4841.1	4931.6	4698.6	4227.7
15°	3578.1	3565.5	3593.0	3648.9	3790.7	4101.7	4683.6	5048.2	4882.0	4350.5
17.5°	3536.3	3522.1	3534.0	3563.1	3654.4	3891.5	4445.8	5105.7	5073.4	4487.5
20°	3613.5	3601.7	3603.3	3601.7	3665.5	3853.7	4280.4	5083.6	5240.3	4613.5
22.5°	3800.1	3780.4	3781.2	3739.5	3774.1	3919.8	4237.1	5024.6	5389.1	4723.8
25°	4104.1	4068.6	4075.7	3969.4	3960.0	4067.8	4304.8	4978.9	5537.2	4811.9
27.5°	4519.8	4479.7	4458.4	4300.1	4224.5	4278.1	4442.6	4994.6	5677.3	4888.3
30°	5039.5	4990.7	4947.4	4723.0	4586.0	4566.3	4656.8	5098.6	5842.7	4968.6
32.5°	5676.5	5619.8	5541.1	5243.5	5050.5	4947.4	4934.0	5283.6	6036.4	5071.0
35°	6434.8	6360.8	6249.0	5863.9	5619.8	5408.8	5299.4	5550.6	6301.8	5225.3
37.5°	7216.0	7132.5	7030.1	6571.8	6271.8	5960.8	5745.0	5912.8	6655.3	5434.8
40°	7936.4	7842.7	7747.5	7339.6	7017.5	6642.7	6290.7	6371.0	7087.6	5685.2
42.5°	8361.7	8292.4	8256.1	8035.7	7786.8	7406.5	6969.5	6914.4	7573.4	5973.4
45°	8342.8	8314.4	8426.2	8517.6	8458.5	8247.5	7764.8	7515.2	8060.9	6223.0
47.5°	7897.1	7916.0	8165.6	8679.0	8905.0	9015.2	8670.3	8105.0	8484.5	6409.6
50°	6684.4	6700.2	7278.2	8385.3	9019.9	9641.2	9568.8	8680.6	8812.9	6523.8
52.5°	5724.6	5734.8	5982.8	7514.4	8640.4	9956.2	10378.3	9223.1	9053.0	6555.3
55°	4311.9	4347.4	4625.3	5895.4	7653.0	9706.6	10871.2	9782.2	9205.0	6558.5
57.5°	2519.0	2557.6	2900.9	4001.7	5948.2	8836.5	10946.0	10278.2	9308.1	6533.3
60°	1233.9	1250.4	1400.0	2103.2	3667.8	7160.0	10344.4	10518.4	9365.6	6519.9
62.5°	831.5	829.2	835.5	1037.8	1807.1	4600.1	9090.8	10097.9	9334.9	6468.7
65°	715.0	706.3	682.7	728.4	936.2	2104.0	7023.8	8842.8	9101.0	6340.3
67.5°	618.1	618.9	619.7	605.5	668.5	970.9	4292.2	6965.6	8261.7	5732.4
70°	511.8	518.9	522.1	522.1	544.9	637.0	1832.3	4774.2	6516.7	4494.6
72.5°	466.2	451.2	452.8	444.9	444.9	485.1	737.8	2706.4	4105.6	2528.4
75°	380.3	389.8	391.3	385.8	367.7	370.1	437.8	1135.5	1756.7	1048.8
77.5°	328.4	328.4	331.5	327.6	313.4	277.2	292.1	440.2	597.7	429.9
80°	263.8	263.0	276.4	284.3	262.2	204.7	186.6	243.3	265.4	189.0
82.5°	128.4	136.2	189.8	216.5	199.2	148.0	114.2	151.2	141.7	83.5
85°	74.8	70.9	85.0	120.5	114.2	81.9	55.1	78.7	74.0	42.5
87.5°	23.6	22.0	17.3	40.9	33.1	22.8	15.0	22.8	20.5	9.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P947038
 CATALOG NUMBER: GALN-SB2C-735-U-AFL

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
3816.6	0°	3816.6	3816.6	3816.6	3816.6	3816.6	3816.6	3816.6	3816.6	3816.6	3816.6
3829.2	2.5°	3773.3	3680.4	3588.3	3504.0	3452.9	3419.8	3386.7	3349.7	3335.5	3314.3
3839.5	5°	3735.5	3556.0	3396.2	3258.4	3133.2	3034.7	2935.5	2855.2	2819.0	2843.4
3871.8	7.5°	3713.5	3453.6	3207.2	2954.4	2711.1	2516.6	2347.3	2228.4	2174.9	2188.3
3903.3	10°	3693.8	3337.9	2962.3	2563.1	2213.4	1972.5	1799.3	1708.7	1674.9	1681.9
3945.8	12.5°	3675.7	3208.0	2667.0	2141.8	1770.1	1611.1	1561.5	1562.2	1568.5	1573.3
4013.5	15°	3672.5	3051.3	2337.1	1773.3	1530.8	1520.5	1574.1	1607.9	1626.0	1631.5
4070.2	17.5°	3667.8	2863.9	2000.8	1522.1	1472.5	1541.8	1591.4	1613.4	1627.6	1628.4
4125.3	20°	3648.9	2626.1	1690.6	1402.4	1459.9	1519.7	1550.4	1567.8	1579.6	1583.5
4167.0	22.5°	3590.7	2361.5	1448.9	1348.9	1409.5	1457.5	1493.7	1513.4	1520.5	1525.2
4174.9	25°	3485.9	2065.4	1281.9	1297.7	1339.4	1400.0	1429.2	1433.1	1430.7	1437.8
4155.2	27.5°	3348.9	1748.1	1178.0	1228.4	1281.9	1333.9	1349.6	1347.3	1342.6	1350.4
4121.4	30°	3183.6	1463.0	1111.8	1150.4	1223.7	1270.9	1285.1	1279.6	1270.1	1278.8
4104.1	32.5°	3008.7	1230.0	1057.5	1096.1	1175.6	1222.1	1236.3	1230.7	1223.7	1230.7
4123.7	35°	2845.8	1067.0	1007.1	1059.9	1137.8	1183.5	1201.6	1202.4	1202.4	1211.1
4175.7	37.5°	2696.1	971.7	965.4	1037.0	1111.8	1152.8	1178.8	1180.3	1146.5	1148.9
4263.9	40°	2557.6	931.5	946.5	1022.1	1086.6	1126.0	1127.6	1039.4	977.2	975.6
4364.7	42.5°	2444.2	923.6	952.0	1020.5	1068.5	1070.1	959.1	890.6	873.3	874.0
4457.6	45°	2337.9	921.3	964.6	1020.5	1041.8	924.4	849.6	831.5	833.1	839.4
4499.3	47.5°	2219.0	911.8	967.0	1006.3	964.6	822.1	800.0	792.1	789.0	790.6
4489.9	50°	2089.0	878.0	937.0	978.0	832.3	778.0	750.4	748.1	752.0	754.4
4437.1	52.5°	1952.0	822.9	885.9	926.8	771.7	739.4	708.7	714.2	731.5	737.0
4382.0	55°	1862.3	758.3	818.1	824.4	729.2	703.2	677.2	689.8	722.1	732.3
4348.9	57.5°	1838.6	689.8	741.0	733.9	674.8	671.7	655.9	666.9	707.9	722.9
4347.4	60°	1831.5	628.4	665.4	659.9	622.1	637.0	633.1	638.6	652.8	657.5
4331.6	62.5°	1776.4	579.5	597.7	589.8	574.8	600.8	610.3	598.4	609.5	615.0
4223.7	65°	1636.3	540.2	531.5	526.0	532.3	555.9	574.8	551.2	561.4	577.2
3808.0	67.5°	1404.8	486.6	463.0	469.3	489.0	501.6	526.0	499.2	507.9	534.7
3067.0	70°	1136.3	418.9	397.6	415.8	434.7	460.6	464.6	446.5	466.9	496.9
1871.7	72.5°	804.0	350.4	335.4	372.5	378.8	412.6	403.9	395.3	423.6	433.9
925.2	75°	557.5	282.7	274.0	302.4	325.2	354.3	348.0	358.3	418.1	422.8
462.2	77.5°	352.8	219.7	214.2	232.3	263.8	296.1	306.3	422.8	714.2	742.5
240.2	80°	204.7	163.8	157.5	171.7	199.2	229.1	295.3	518.9	470.9	465.4
107.9	82.5°	114.2	112.6	104.7	108.7	133.1	165.4	417.3	365.4	296.9	306.3
43.3	85°	53.5	66.1	56.7	54.3	74.8	193.7	278.7	208.7	138.6	135.4
9.4	87.5°	14.2	12.6	12.6	14.2	31.5	166.9	111.0	89.0	52.8	51.2
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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