

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: P947584

Luminaire Tested: **GALN-SB2D-927-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947584
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-SB2D-927-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12598 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

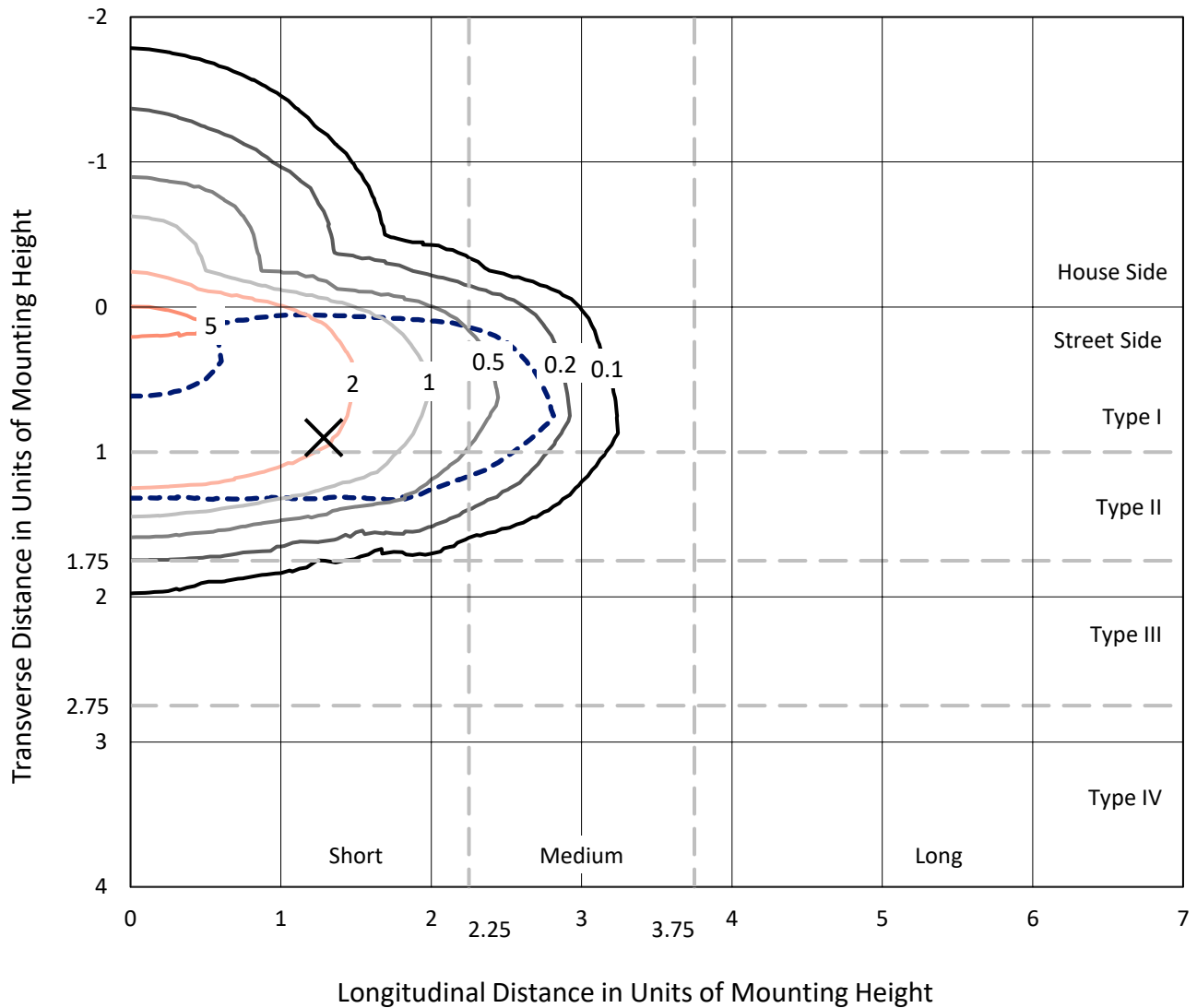
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

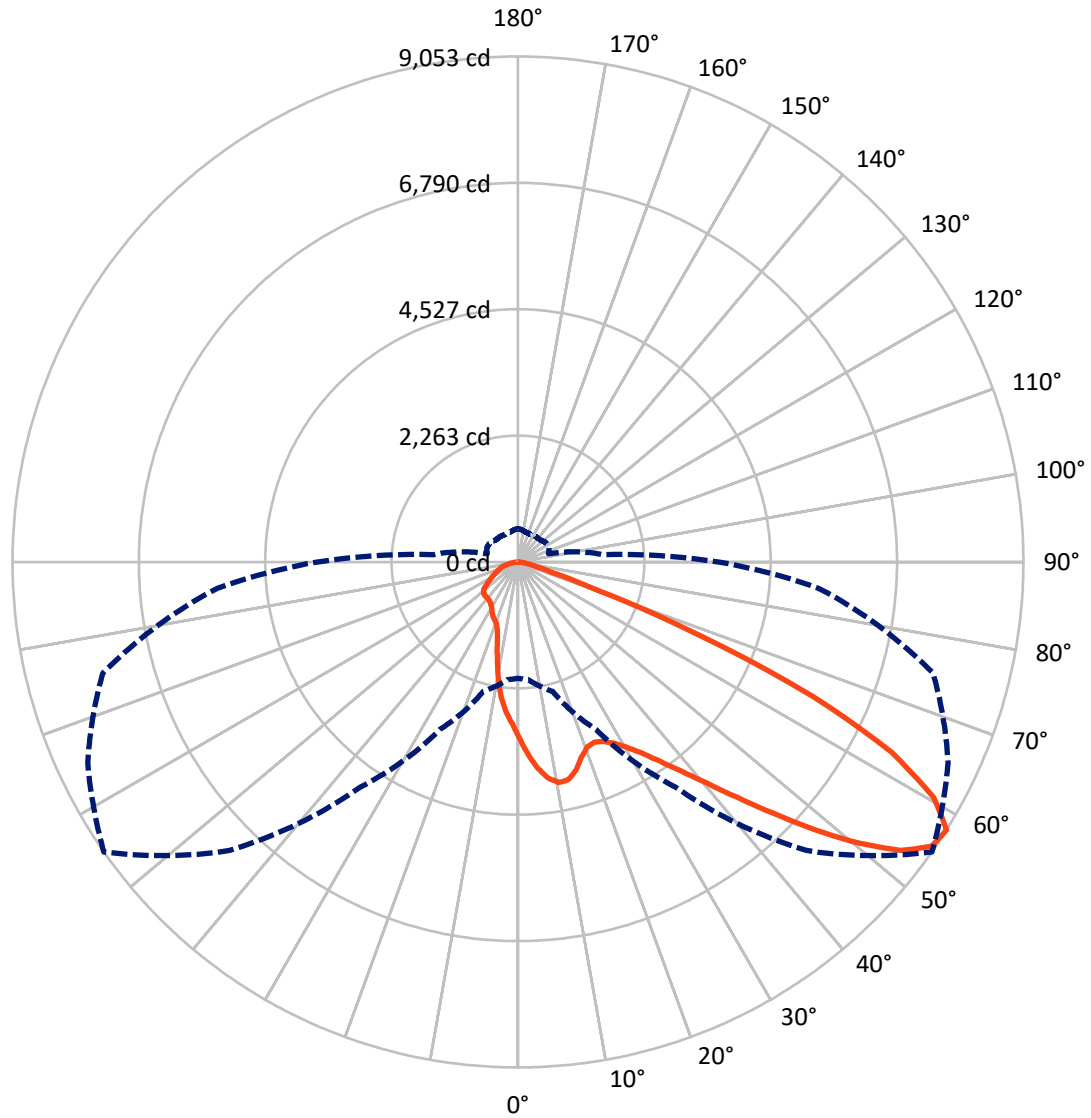
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	2279.5	0.0	2279.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	10318.5	0.0	10318.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	12598.0	0.0	12598.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.9	2.3
10°-20°	739.3	5.9
20°-30°	1179.8	9.4
30°-40°	1867.9	14.8
40°-50°	2859.0	22.7
50°-60°	3062.2	24.3
60°-70°	1926.5	15.3
70°-80°	569.7	4.5
80°-90°	100.7	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°	12598.0	100.0
0°-180°	12598.0	100.0

Coefficient of Utilization



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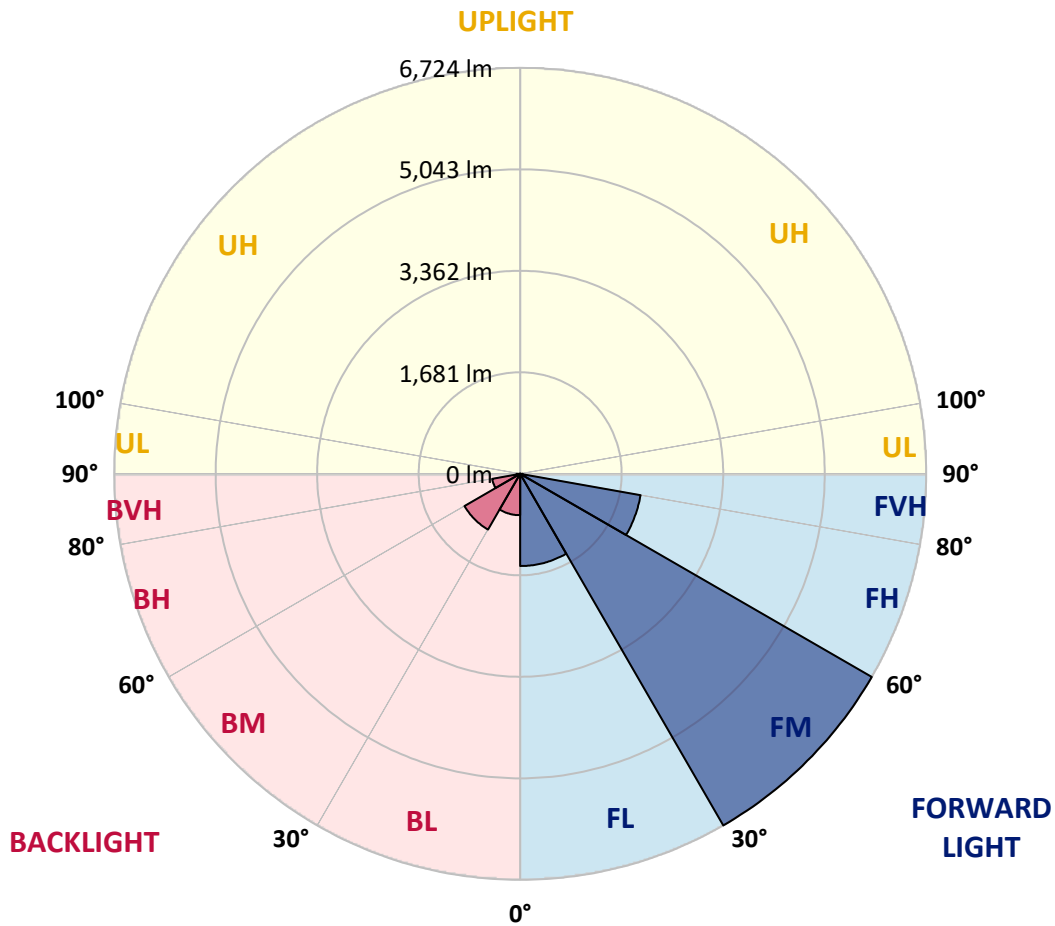
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1526.9	12.1			
FM (30°-60°)	6723.6	53.4			
FH (60°-80°)	2025.4	16.1			G2/5000
FVH (80°-90°)	42.6	0.3			G1/100
BL (0°-30°)	685.2	5.4	B2/1000		
BM (30°-60°)	1065.4	8.5	B2/2500		
BH (60°-80°)	470.8	3.7	B1/500		G1/500
BVH (80°-90°)	58.2	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3156.6	3156.6	3156.6	3156.6	3156.6	3156.6	3156.6	3156.6	3156.6	3156.6
2.5°	3621.6	3619.0	3633.4	3584.5	3551.3	3506.4	3447.1	3371.6	3290.2	3204.2
5°	3947.9	3925.1	3940.1	3903.6	3867.2	3799.4	3711.5	3588.4	3438.0	3266.7
7.5°	3896.5	3880.8	3919.3	3951.8	3979.2	3970.7	3906.2	3777.3	3583.2	3334.4
10°	3481.6	3464.0	3518.1	3630.8	3796.2	3940.1	4018.3	3938.2	3731.7	3408.7
12.5°	3115.6	3107.2	3143.0	3234.1	3417.8	3693.9	4003.9	4078.8	3886.1	3496.6
15°	2959.3	2948.9	2971.7	3017.9	3135.2	3392.4	3873.7	4175.2	4037.8	3598.2
17.5°	2924.8	2913.1	2922.8	2946.9	3022.5	3218.5	3677.0	4222.8	4196.1	3711.5
20°	2988.6	2978.9	2980.2	2978.9	3031.6	3187.3	3540.2	4204.5	4334.1	3815.7
22.5°	3143.0	3126.7	3127.3	3092.8	3121.5	3242.0	3504.4	4155.7	4457.2	3906.9
25°	3394.4	3365.1	3370.9	3283.0	3275.2	3364.4	3560.4	4117.9	4579.6	3979.8
27.5°	3738.2	3705.0	3687.4	3556.5	3494.0	3538.3	3674.4	4130.9	4695.6	4043.0
30°	4168.1	4127.7	4091.9	3906.2	3792.9	3776.6	3851.5	4216.9	4832.3	4109.4
32.5°	4694.9	4648.0	4582.9	4336.7	4177.2	4091.9	4080.8	4369.9	4992.5	4194.1
35°	5322.1	5260.9	5168.4	4849.9	4648.0	4473.5	4383.0	4590.7	5212.0	4321.8
37.5°	5968.1	5899.1	5814.4	5435.4	5187.3	4930.0	4751.6	4890.3	5504.4	4495.0
40°	6564.0	6486.5	6407.7	6070.4	5804.0	5494.0	5202.9	5269.3	5862.0	4702.1
42.5°	6915.7	6858.4	6828.4	6646.1	6440.3	6125.7	5764.3	5718.7	6263.8	4940.4
45°	6900.1	6876.6	6969.1	7044.7	6995.8	6821.3	6422.1	6215.6	6666.9	5146.9
47.5°	6531.5	6547.1	6753.6	7178.2	7365.1	7456.3	7171.0	6703.4	7017.3	5301.2
50°	5528.5	5541.6	6019.6	6935.3	7460.2	7974.0	7914.1	7179.5	7288.9	5395.7
52.5°	4734.6	4743.1	4948.3	6215.0	7146.3	8234.5	8583.6	7628.2	7487.5	5421.7
55°	3566.3	3595.6	3825.5	4876.0	6329.6	8028.1	8991.3	8090.6	7613.2	5424.3
57.5°	2083.4	2115.3	2399.2	3309.7	4919.6	7308.4	9053.1	8500.9	7698.5	5403.5
60°	1020.5	1034.2	1157.9	1739.5	3033.6	5921.9	8555.6	8699.5	7746.1	5392.4
62.5°	687.7	685.8	691.0	858.4	1494.6	3804.7	7518.8	8351.7	7720.7	5350.1
65°	591.3	584.2	564.6	602.4	774.3	1740.2	5809.2	7313.6	7527.2	5243.9
67.5°	511.2	511.9	512.5	500.8	552.9	803.0	3550.0	5761.0	6833.0	4741.2
70°	423.3	429.2	431.8	431.8	450.7	526.9	1515.5	3948.6	5389.8	3717.4
72.5°	385.5	373.2	374.5	368.0	368.0	401.2	610.2	2238.4	3395.7	2091.2
75°	314.6	322.4	323.7	319.1	304.1	306.1	362.1	939.1	1453.0	867.5
77.5°	271.6	271.6	274.2	270.9	259.2	229.2	241.6	364.1	494.3	355.6
80°	218.2	217.5	228.6	235.1	216.9	169.3	154.3	201.2	219.5	156.3
82.5°	106.2	112.7	157.0	179.1	164.8	122.4	94.4	125.0	117.2	69.0
85°	61.9	58.6	70.3	99.6	94.4	67.7	45.6	65.1	61.2	35.2
87.5°	19.5	18.2	14.3	33.9	27.4	18.9	12.4	18.9	16.9	7.8
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°
3156.6	0°	3156.6	3156.6	3156.6	3156.6	3156.6	3156.6	3156.6	3156.6	3156.6	3156.6
3167.1	2.5°	3120.8	3044.0	2967.8	2898.1	2855.8	2828.4	2801.1	2770.5	2758.7	2741.1
3175.5	5°	3089.6	2941.1	2808.9	2694.9	2591.4	2510.0	2427.9	2361.5	2331.5	2351.7
3202.2	7.5°	3071.3	2856.4	2652.6	2443.5	2242.3	2081.4	1941.4	1843.1	1798.8	1809.8
3228.3	10°	3055.1	2760.7	2450.0	2119.8	1830.7	1631.4	1488.1	1413.2	1385.2	1391.1
3263.5	12.5°	3040.1	2653.2	2205.8	1771.4	1464.0	1332.5	1291.4	1292.1	1297.3	1301.2
3319.5	15°	3037.5	2523.6	1932.9	1466.6	1266.0	1257.6	1301.9	1329.9	1344.8	1349.4
3366.4	17.5°	3033.6	2368.6	1654.8	1258.9	1217.9	1275.2	1316.2	1334.4	1346.2	1346.8
3411.9	20°	3017.9	2171.9	1398.3	1159.9	1207.4	1256.9	1282.3	1296.7	1306.4	1309.7
3446.5	22.5°	2969.7	1953.1	1198.3	1115.6	1165.8	1205.5	1235.4	1251.7	1257.6	1261.5
3453.0	25°	2883.1	1708.3	1060.2	1073.3	1107.8	1157.9	1182.0	1185.3	1183.3	1189.2
3436.7	27.5°	2769.8	1445.8	974.3	1016.0	1060.2	1103.2	1116.3	1114.3	1110.4	1116.9
3408.7	30°	2633.0	1210.0	919.6	951.5	1012.1	1051.1	1062.9	1058.3	1050.5	1057.6
3394.4	32.5°	2488.5	1017.3	874.6	906.6	972.3	1010.8	1022.5	1017.9	1012.1	1017.9
3410.6	35°	2353.6	882.5	833.0	876.6	941.1	978.8	993.8	994.5	994.5	1001.6
3453.6	37.5°	2229.9	803.7	798.4	857.7	919.6	953.4	974.9	976.2	948.2	950.2
3526.6	40°	2115.3	770.4	782.8	845.3	898.7	931.3	932.6	859.7	808.2	806.9
3609.9	42.5°	2021.5	763.9	787.4	844.0	883.8	885.1	793.2	736.6	722.2	722.9
3686.8	45°	1933.6	762.0	797.8	844.0	861.6	764.6	702.7	687.7	689.0	694.2
3721.3	47.5°	1835.2	754.2	799.7	832.3	797.8	679.9	661.7	655.2	652.6	653.9
3713.5	50°	1727.8	726.2	775.0	808.9	688.4	643.4	620.6	618.7	622.0	623.9
3669.8	52.5°	1614.5	680.6	732.7	766.5	638.2	611.5	586.1	590.7	605.0	609.6
3624.3	55°	1540.2	627.2	676.7	681.9	603.1	581.6	560.1	570.5	597.2	605.7
3596.9	57.5°	1520.7	570.5	612.8	607.0	558.1	555.5	542.5	551.6	585.5	597.9
3595.6	60°	1514.8	519.7	550.3	545.8	514.5	526.9	523.6	528.2	539.9	543.8
3582.6	62.5°	1469.2	479.3	494.3	487.8	475.4	496.9	504.7	495.0	504.1	508.6
3493.4	65°	1353.3	446.8	439.6	435.0	440.3	459.8	475.4	455.9	464.3	477.4
3149.5	67.5°	1161.8	402.5	382.9	388.2	404.4	414.9	435.0	412.9	420.1	442.2
2536.7	70°	939.8	346.5	328.9	343.9	359.5	381.0	384.2	369.3	386.2	410.9
1548.0	72.5°	664.9	289.8	277.4	308.0	313.3	341.3	334.1	326.9	350.4	358.8
765.2	75°	461.1	233.8	226.6	250.1	269.0	293.1	287.9	296.3	345.8	349.7
382.3	77.5°	291.8	181.7	177.1	192.1	218.2	244.9	253.3	349.7	590.7	614.1
198.6	80°	169.3	135.5	130.3	142.0	164.8	189.5	244.2	429.2	389.5	384.9
89.2	82.5°	94.4	93.1	86.6	89.9	110.1	136.8	345.2	302.2	245.5	253.3
35.8	85°	44.3	54.7	46.9	44.9	61.9	160.2	230.5	172.6	114.6	112.0
7.8	87.5°	11.7	10.4	10.4	11.7	26.1	138.1	91.8	73.6	43.6	42.3
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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