

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: P947752

Luminaire Tested: **GALN-SB3A-735-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947752
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-SB3A-735-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13688 lumens
Efficiency: N/A
Efficacy: 161.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

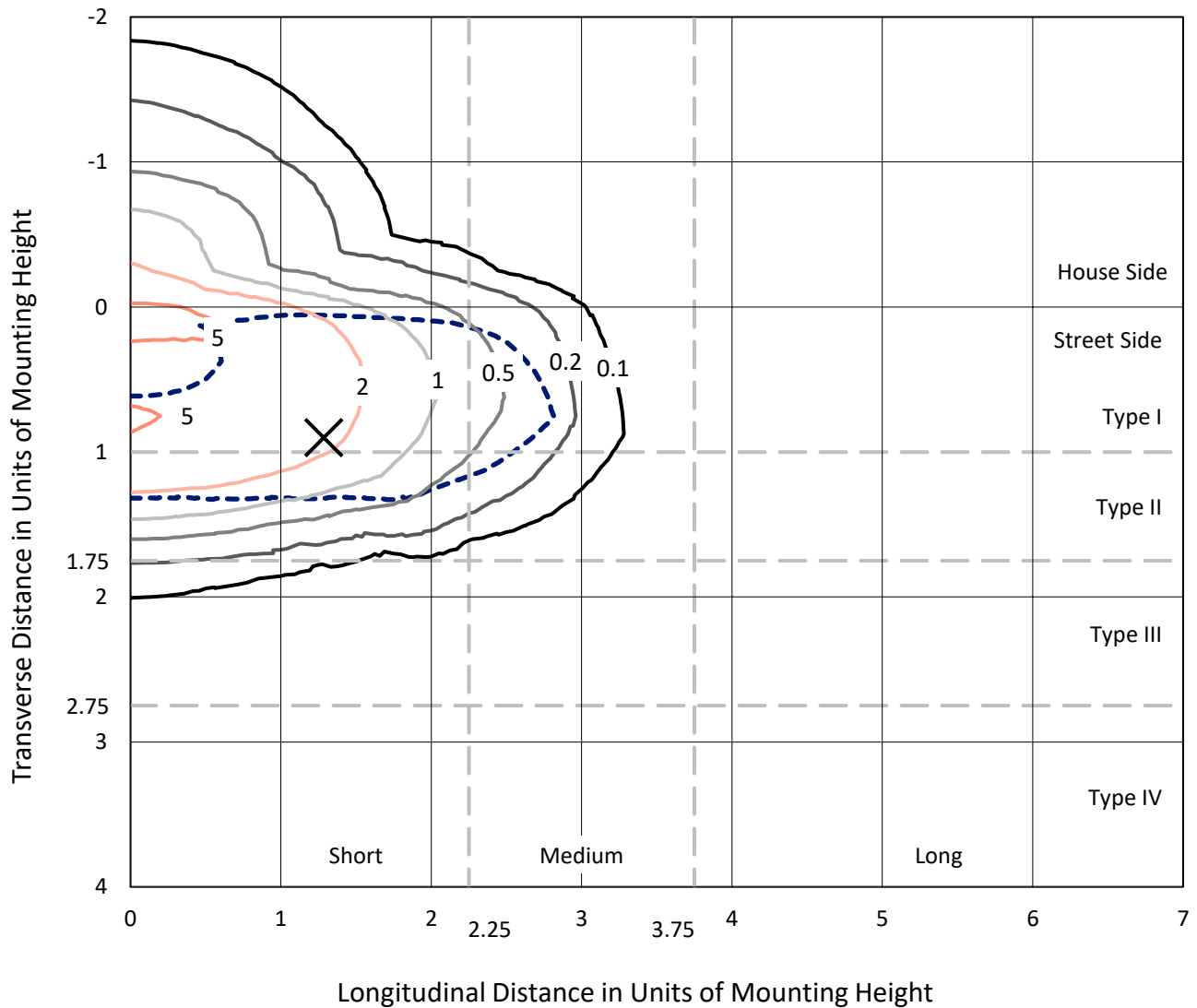
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

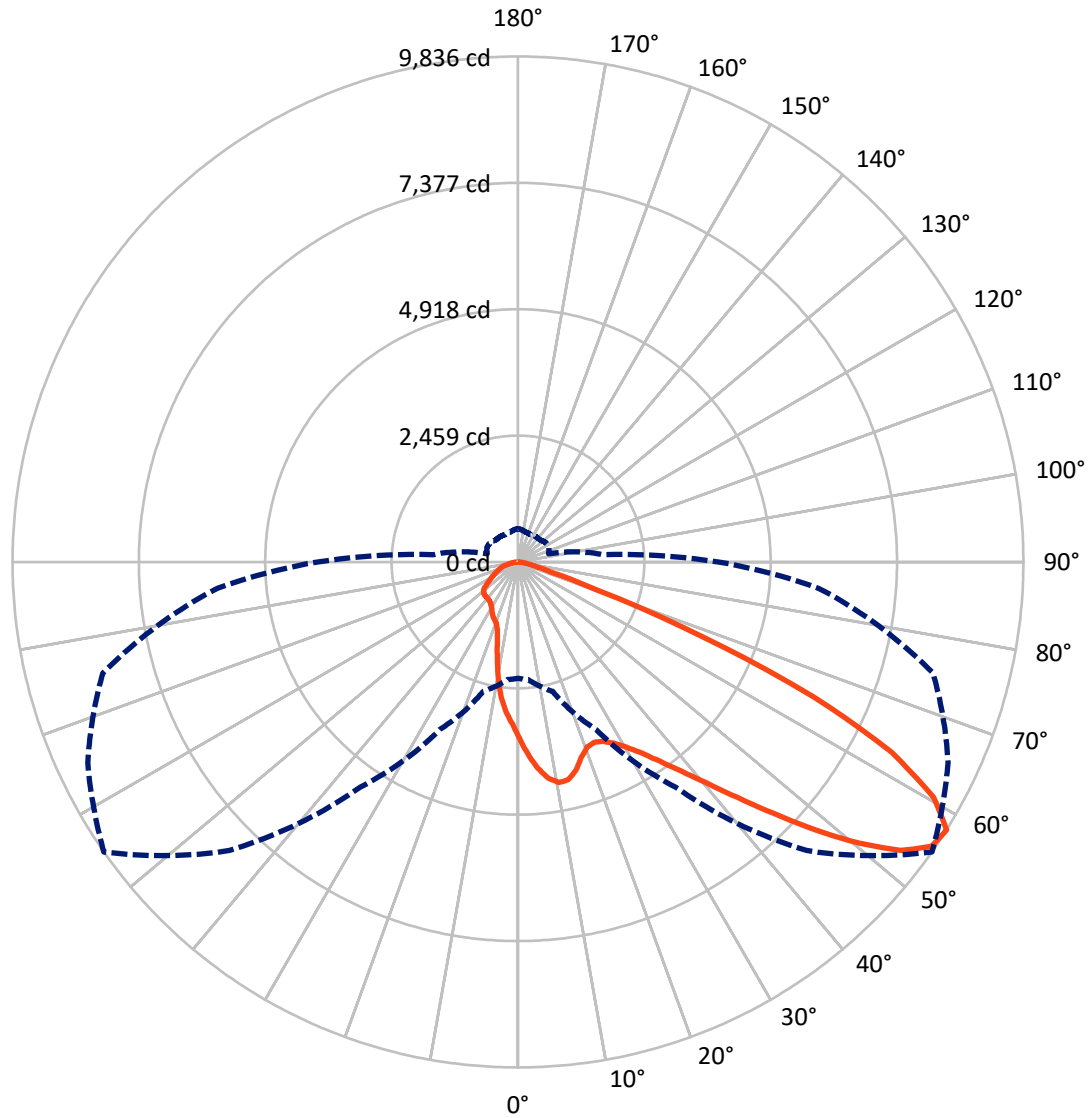
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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	2476.8	0.0	2476.8
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	11211.2	0.0	11211.2
	% Fixture	81.9	0.0	81.9
Total	Lumens	13688.0	0.0	13688.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.3	2.3
10°-20°	803.3	5.9
20°-30°	1281.9	9.4
30°-40°	2029.5	14.8
40°-50°	3106.3	22.7
50°-60°	3327.2	24.3
60°-70°	2093.1	15.3
70°-80°	619.0	4.5
80°-90°	109.4	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°	13688.0	100.0
0°-180°	13688.0	100.0

Coefficient of Utilization



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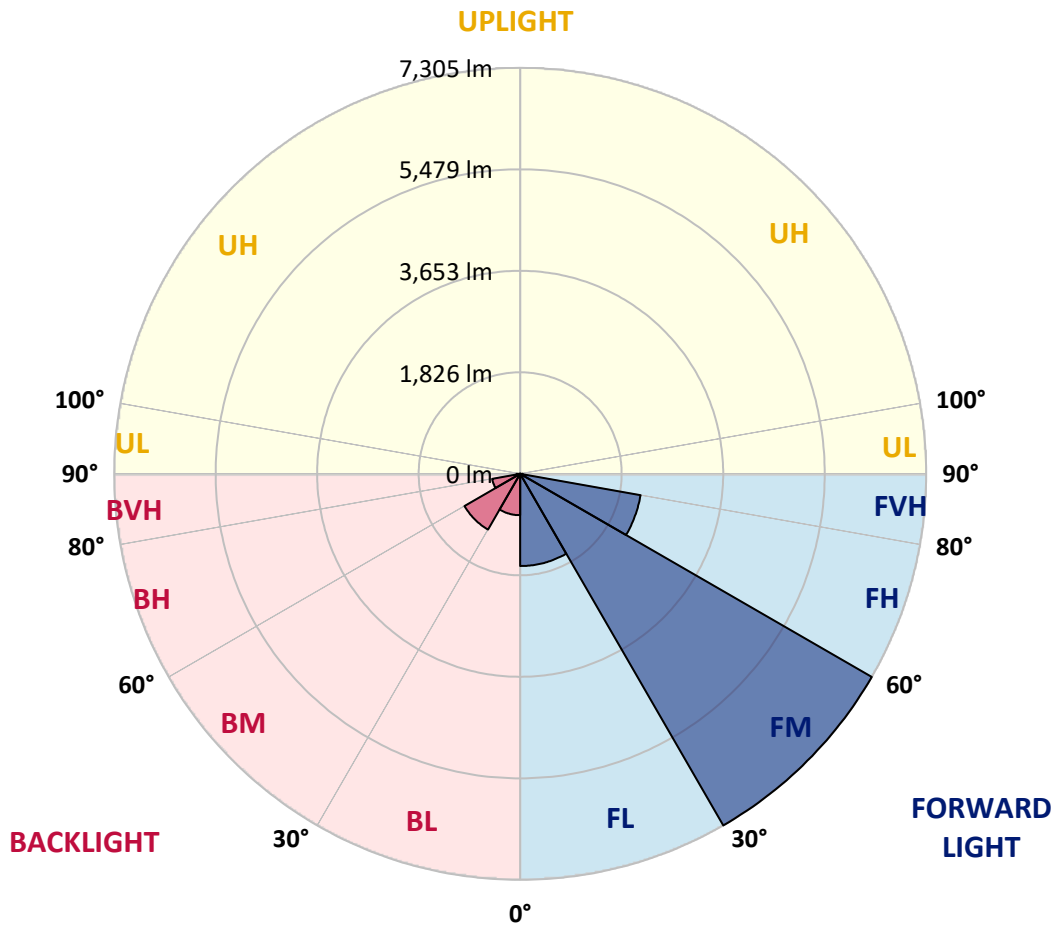
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1659.0	12.1			
FM (30°-60°)	7305.4	53.4			
FH (60°-80°)	2200.6	16.1			G2/5000
FVH (80°-90°)	46.2	0.3			G1/100
BL (0°-30°)	744.4	5.4	B2/1000		
BM (30°-60°)	1157.6	8.5	B2/2500		
BH (60°-80°)	511.5	3.7	B2/1000		G2/1000
BVH (80°-90°)	63.2	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°	3429.8	3429.8	3429.8	3429.8	3429.8	3429.8	3429.8	3429.8	3429.8	3429.8
2.5°	3935.0	3932.2	3947.7	3894.7	3858.6	3809.8	3745.4	3663.3	3574.8	3481.4
5°	4289.5	4264.7	4281.0	4241.4	4201.8	4128.2	4032.6	3898.9	3735.5	3549.4
7.5°	4233.6	4216.6	4258.4	4293.8	4323.5	4314.3	4244.2	4104.1	3893.3	3622.9
10°	3782.9	3763.8	3822.5	3944.9	4124.6	4281.0	4365.9	4278.9	4054.6	3703.6
12.5°	3385.2	3376.0	3414.9	3514.0	3713.5	4013.5	4350.4	4431.7	4222.3	3799.1
15°	3215.4	3204.0	3228.8	3279.0	3406.4	3685.9	4208.8	4536.5	4387.2	3909.5
17.5°	3177.9	3165.1	3175.7	3201.9	3284.0	3497.0	3995.1	4588.1	4559.1	4032.6
20°	3247.2	3236.6	3238.0	3236.6	3293.9	3463.0	3846.5	4568.3	4709.1	4145.9
22.5°	3414.9	3397.2	3397.9	3360.4	3391.6	3522.5	3807.6	4515.2	4842.9	4244.9
25°	3688.0	3656.2	3662.6	3567.0	3558.6	3655.5	3868.5	4474.2	4975.9	4324.2
27.5°	4061.7	4025.6	4006.5	3864.2	3796.3	3844.4	3992.3	4488.3	5101.8	4392.8
30°	4528.7	4484.8	4445.9	4244.2	4121.1	4103.4	4184.8	4581.8	5250.4	4465.0
32.5°	5101.1	5050.2	4979.4	4712.0	4538.6	4445.9	4433.9	4748.0	5424.5	4557.0
35°	5782.6	5716.0	5615.6	5269.5	5050.2	4860.5	4762.2	4987.9	5663.0	4695.7
37.5°	6484.5	6409.5	6317.5	5905.7	5636.1	5356.6	5162.7	5313.4	5980.7	4883.9
40°	7132.0	7047.8	6962.1	6595.6	6306.2	5969.4	5653.1	5725.2	6369.2	5108.9
42.5°	7514.1	7451.8	7419.3	7221.1	6997.5	6655.7	6263.0	6213.5	6805.8	5367.9
45°	7497.1	7471.6	7572.1	7654.2	7601.1	7411.5	6977.7	6753.4	7243.8	5592.2
47.5°	7096.6	7113.6	7337.9	7799.2	8002.3	8101.4	7791.5	7283.4	7624.5	5759.9
50°	6006.9	6021.0	6540.4	7535.3	8105.6	8663.9	8598.8	7800.7	7919.5	5862.5
52.5°	5144.3	5153.5	5376.4	6752.7	7764.6	8947.0	9326.3	8288.2	8135.4	5890.8
55°	3874.9	3906.7	4156.5	5297.8	6877.2	8722.7	9769.2	8790.6	8271.9	5893.7
57.5°	2263.6	2298.3	2606.8	3596.1	5345.3	7940.8	9836.4	9236.4	8364.6	5871.0
60°	1108.8	1123.7	1258.1	1890.0	3296.0	6434.3	9295.8	9452.2	8416.3	5859.0
62.5°	747.2	745.1	750.8	932.6	1624.0	4133.8	8169.3	9074.3	8388.7	5813.0
65°	642.5	634.7	613.5	654.5	841.3	1890.7	6311.8	7946.4	8178.5	5697.6
67.5°	555.5	556.2	556.9	544.1	600.8	872.5	3857.2	6259.5	7424.2	5151.4
70°	459.9	466.3	469.1	469.1	489.7	572.5	1646.6	4290.2	5856.2	4039.0
72.5°	418.9	405.5	406.9	399.8	399.8	435.9	663.0	2432.0	3689.5	2272.1
75°	341.8	350.3	351.7	346.7	330.5	332.6	393.4	1020.4	1578.7	942.5
77.5°	295.1	295.1	297.9	294.4	281.6	249.1	262.5	395.6	537.1	386.4
80°	237.0	236.3	248.4	255.4	235.6	184.0	167.7	218.7	238.5	169.8
82.5°	115.3	122.4	170.5	194.6	179.0	133.0	102.6	135.9	127.4	75.0
85°	67.2	63.7	76.4	108.3	102.6	73.6	49.5	70.8	66.5	38.2
87.5°	21.2	19.8	15.6	36.8	29.7	20.5	13.4	20.5	18.4	8.5
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°
3429.8	0°	3429.8	3429.8	3429.8	3429.8	3429.8	3429.8	3429.8	3429.8	3429.8	3429.8
3441.1	2.5°	3390.9	3307.4	3224.6	3148.8	3102.9	3073.1	3043.4	3010.2	2997.4	2978.3
3450.3	5°	3356.9	3195.6	3051.9	2928.1	2815.6	2727.1	2638.0	2565.8	2533.2	2555.2
3479.3	7.5°	3337.1	3103.6	2882.1	2654.9	2436.3	2261.5	2109.4	2002.5	1954.4	1966.4
3507.6	10°	3319.4	2999.5	2662.0	2303.3	1989.1	1772.6	1616.9	1535.5	1505.1	1511.4
3545.8	12.5°	3303.1	2882.8	2396.7	1924.7	1590.7	1447.8	1403.2	1403.9	1409.6	1413.8
3606.7	15°	3300.3	2742.0	2100.2	1593.5	1375.6	1366.4	1414.5	1444.9	1461.2	1466.2
3657.6	17.5°	3296.0	2573.6	1798.0	1367.8	1323.2	1385.5	1430.1	1449.9	1462.6	1463.3
3707.2	20°	3279.0	2359.9	1519.2	1260.2	1311.9	1365.7	1393.3	1408.8	1419.5	1423.0
3744.7	22.5°	3226.7	2122.1	1302.0	1212.1	1266.6	1309.8	1342.3	1360.0	1366.4	1370.6
3751.7	25°	3132.6	1856.1	1152.0	1166.1	1203.6	1258.1	1284.3	1287.8	1285.7	1292.1
3734.0	27.5°	3009.5	1570.9	1058.6	1103.9	1152.0	1198.7	1212.8	1210.7	1206.5	1213.5
3703.6	30°	2860.9	1314.7	999.1	1033.8	1099.6	1142.1	1154.8	1149.9	1141.4	1149.2
3688.0	32.5°	2703.8	1105.3	950.3	985.0	1056.5	1098.2	1110.9	1106.0	1099.6	1106.0
3705.7	35°	2557.3	958.8	905.0	952.4	1022.5	1063.5	1079.8	1080.5	1080.5	1088.3
3752.4	37.5°	2422.8	873.2	867.5	931.9	999.1	1035.9	1059.3	1060.7	1030.3	1032.4
3831.7	40°	2298.3	837.1	850.5	918.5	976.5	1011.9	1013.3	934.0	878.1	876.7
3922.3	42.5°	2196.4	830.0	855.5	917.1	960.2	961.6	861.9	800.3	784.7	785.4
4005.8	45°	2100.9	827.9	866.8	917.1	936.2	830.7	763.5	747.2	748.6	754.3
4043.3	47.5°	1994.0	819.4	868.9	904.3	866.8	738.7	718.9	711.9	709.0	710.4
4034.8	50°	1877.3	789.0	842.1	878.8	747.9	699.1	674.3	672.2	675.8	677.9
3987.4	52.5°	1754.2	739.4	796.1	832.9	693.5	664.4	636.8	641.8	657.4	662.3
3937.8	55°	1673.5	681.4	735.2	740.9	655.2	631.9	608.5	619.9	648.9	658.1
3908.1	57.5°	1652.3	619.9	665.9	659.5	606.4	603.6	589.4	599.3	636.1	649.6
3906.7	60°	1645.9	564.7	597.9	593.0	559.0	572.5	568.9	573.9	586.6	590.9
3892.5	62.5°	1596.4	520.8	537.1	530.0	516.6	539.9	548.4	537.8	547.7	552.6
3795.6	65°	1470.4	485.4	477.6	472.7	478.3	499.6	516.6	495.3	504.5	518.7
3422.0	67.5°	1262.4	437.3	416.1	421.7	439.4	450.7	472.7	448.6	456.4	480.5
2756.1	70°	1021.1	376.4	357.3	373.6	390.6	413.9	417.5	401.2	419.6	446.5
1682.0	72.5°	722.5	314.9	301.4	334.7	340.4	370.8	363.0	355.2	380.7	389.9
831.4	75°	501.0	254.0	246.2	271.7	292.2	318.4	312.8	322.0	375.7	380.0
415.4	77.5°	317.0	197.4	192.5	208.7	237.0	266.1	275.3	380.0	641.8	667.3
215.8	80°	184.0	147.2	141.5	154.3	179.0	205.9	265.4	466.3	423.1	418.2
96.9	82.5°	102.6	101.2	94.1	97.6	119.6	148.6	375.0	328.3	266.8	275.3
38.9	85°	48.1	59.4	50.9	48.8	67.2	174.1	250.5	187.5	124.5	121.7
8.5	87.5°	12.7	11.3	11.3	12.7	28.3	150.0	99.8	80.0	47.4	46.0
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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