

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: P947143

Luminaire Tested: **GALN-SB2C-830-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947143  
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-830-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

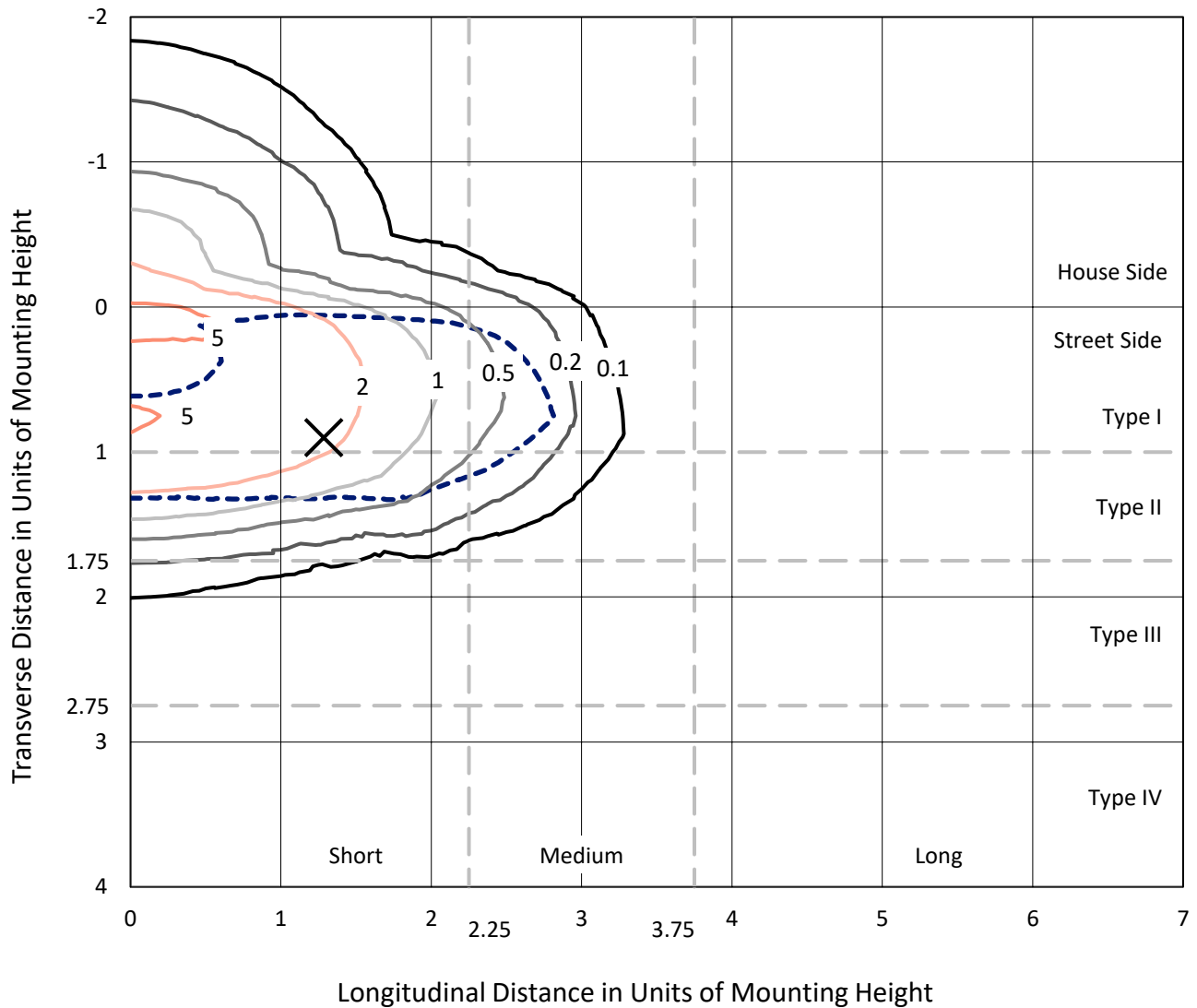
Lumens per Lamp: N/A  
Luminaire Lumens: 13687 lumens  
Efficiency: N/A  
Efficacy: 135.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 100.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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



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### Iso-Footcandle Lines of Horizontal Illumination

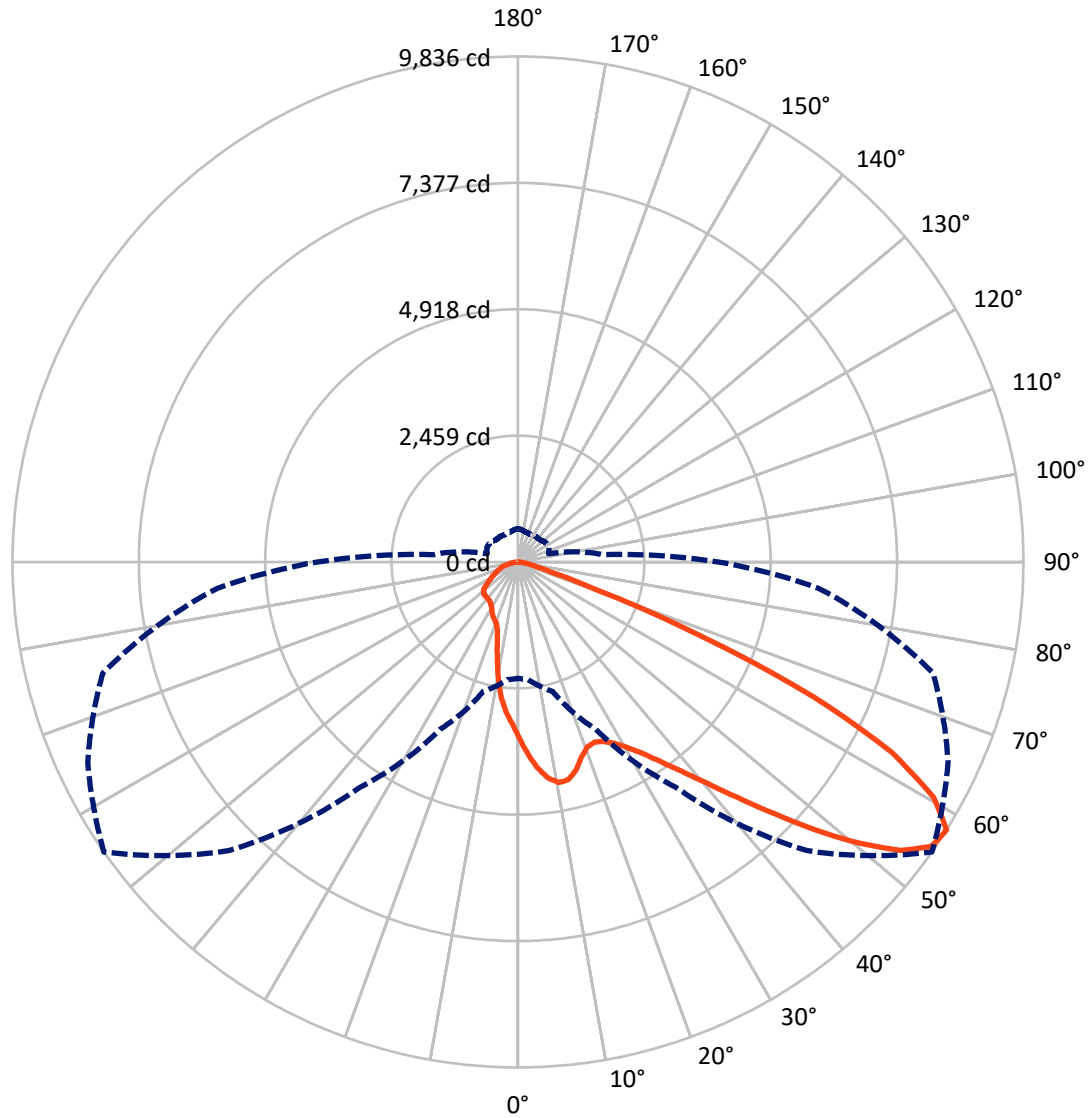
✕ Max cd  
 - - - 1/2 Max cd



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
<b>House Side</b>	Lumens	2476.6	0.0	2476.6
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	11210.4	0.0	11210.4
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	13687.0	0.0	13687.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	318.2	2.3
10°-20°	803.3	5.9
20°-30°	1281.8	9.4
30°-40°	2029.3	14.8
40°-50°	3106.1	22.7
50°-60°	3326.9	24.3
60°-70°	2093.0	15.3
70°-80°	618.9	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°	13687.0	100.0
0°-180°	13687.0	100.0

**Coefficient of Utilization**



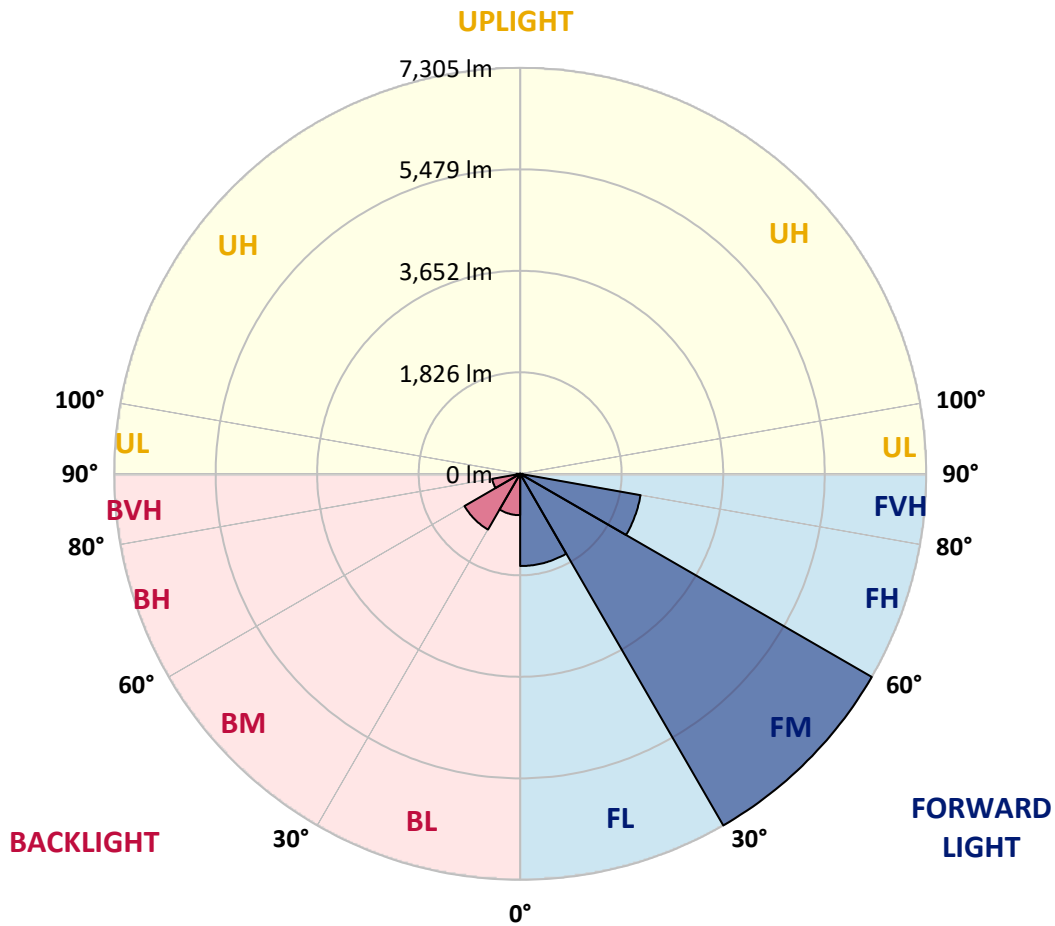
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1658.9	12.1			
FM (30°-60°)	7304.9	53.4			
FH (60°-80°)	2200.5	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°)	1157.5	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°	3429.5	3429.5	3429.5	3429.5	3429.5	3429.5	3429.5	3429.5	3429.5	3429.5
2.5°	3934.7	3931.9	3947.4	3894.4	3858.3	3809.5	3745.1	3663.0	3574.6	3481.2
5°	4289.2	4264.4	4280.7	4241.1	4201.5	4127.9	4032.4	3898.6	3735.2	3549.1
7.5°	4233.3	4216.3	4258.1	4293.4	4323.2	4314.0	4243.9	4103.8	3893.0	3622.7
10°	3782.6	3763.5	3822.2	3944.6	4124.3	4280.7	4365.6	4278.6	4054.3	3703.3
12.5°	3384.9	3375.7	3414.7	3513.7	3713.2	4013.3	4350.0	4431.4	4222.0	3798.9
15°	3215.1	3203.8	3228.6	3278.8	3406.2	3685.7	4208.5	4536.1	4386.8	3909.2
17.5°	3177.6	3164.9	3175.5	3201.7	3283.8	3496.7	3994.9	4587.8	4558.8	4032.4
20°	3247.0	3236.4	3237.8	3236.4	3293.7	3462.8	3846.3	4568.0	4708.8	4145.6
22.5°	3414.7	3397.0	3397.7	3360.2	3391.3	3522.2	3807.4	4514.9	4842.5	4244.6
25°	3687.8	3655.9	3662.3	3566.8	3558.3	3655.2	3868.2	4473.9	4975.5	4323.9
27.5°	4061.4	4025.3	4006.2	3864.0	3796.0	3844.1	3992.0	4488.0	5101.5	4392.5
30°	4528.4	4484.5	4445.6	4243.9	4120.8	4103.1	4184.5	4581.4	5250.1	4464.7
32.5°	5100.8	5049.8	4979.1	4711.6	4538.3	4445.6	4433.5	4747.7	5424.1	4556.7
35°	5782.1	5715.6	5615.2	5269.2	5049.8	4860.2	4761.8	4987.6	5662.6	4695.3
37.5°	6484.0	6409.0	6317.0	5905.3	5635.7	5356.2	5162.3	5313.0	5980.3	4883.5
40°	7131.4	7047.2	6961.6	6595.1	6305.7	5968.9	5652.7	5724.8	6368.7	5108.5
42.5°	7513.5	7451.3	7418.7	7220.6	6997.0	6655.3	6262.6	6213.0	6805.3	5367.5
45°	7496.5	7471.1	7571.5	7653.6	7600.6	7410.9	6977.2	6752.9	7243.2	5591.8
47.5°	7096.1	7113.0	7337.3	7798.7	8001.7	8100.8	7790.9	7282.9	7623.9	5759.5
50°	6006.4	6020.6	6539.9	7534.8	8105.0	8663.3	8598.2	7800.1	7919.0	5862.1
52.5°	5143.9	5153.1	5376.0	6752.2	7764.0	8946.3	9325.6	8287.6	8134.8	5890.4
55°	3874.6	3906.4	4156.2	5297.5	6876.7	8722.0	9768.5	8790.0	8271.3	5893.2
57.5°	2263.5	2298.1	2606.6	3595.8	5344.9	7940.2	9835.7	9235.7	8364.0	5870.6
60°	1108.7	1123.6	1258.0	1889.9	3295.8	6433.8	9295.1	9451.5	8415.7	5858.6
62.5°	747.2	745.1	750.7	932.6	1623.8	4133.5	8168.7	9073.7	8388.1	5812.6
65°	642.5	634.7	613.4	654.5	841.3	1890.6	6311.4	7945.8	8177.9	5697.2
67.5°	555.4	556.1	556.8	544.1	600.7	872.4	3856.9	6259.0	7423.7	5151.0
70°	459.9	466.3	469.1	469.1	489.6	572.4	1646.5	4289.9	5855.7	4038.7
72.5°	418.9	405.4	406.8	399.8	399.8	435.9	663.0	2431.9	3689.2	2272.0
75°	341.7	350.2	351.7	346.7	330.4	332.6	393.4	1020.3	1578.6	942.5
77.5°	295.1	295.1	297.9	294.3	281.6	249.1	262.5	395.5	537.0	386.3
80°	237.0	236.3	248.4	255.4	235.6	184.0	167.7	218.6	238.4	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°
3429.5	0°	3429.5	3429.5	3429.5	3429.5	3429.5	3429.5	3429.5	3429.5	3429.5	3429.5
3440.8	2.5°	3390.6	3307.1	3224.3	3148.6	3102.6	3072.9	3043.2	3009.9	2997.2	2978.1
3450.0	5°	3356.6	3195.3	3051.7	2927.9	2815.4	2726.9	2637.8	2565.6	2533.0	2555.0
3479.0	7.5°	3336.8	3103.3	2881.9	2654.7	2436.1	2261.3	2109.2	2002.4	1954.3	1966.3
3507.3	10°	3319.1	2999.3	2661.8	2303.1	1988.9	1772.4	1616.8	1535.4	1505.0	1511.3
3545.6	12.5°	3302.9	2882.6	2396.5	1924.5	1590.6	1447.7	1403.1	1403.8	1409.4	1413.7
3606.4	15°	3300.0	2741.8	2100.0	1593.4	1375.5	1366.3	1414.4	1444.8	1461.1	1466.1
3657.4	17.5°	3295.8	2573.4	1797.9	1367.7	1323.1	1385.4	1430.0	1449.8	1462.5	1463.2
3706.9	20°	3278.8	2359.7	1519.1	1260.2	1311.8	1365.6	1393.2	1408.7	1419.4	1422.9
3744.4	22.5°	3226.4	2122.0	1301.9	1212.0	1266.5	1309.7	1342.2	1359.9	1366.3	1370.5
3751.5	25°	3132.3	1855.9	1151.9	1166.1	1203.6	1258.0	1284.2	1287.7	1285.6	1292.0
3733.8	27.5°	3009.2	1570.8	1058.5	1103.8	1151.9	1198.6	1212.7	1210.6	1206.4	1213.5
3703.3	30°	2860.6	1314.6	999.1	1033.7	1099.5	1142.0	1154.7	1149.8	1141.3	1149.1
3687.8	32.5°	2703.6	1105.2	950.2	984.9	1056.4	1098.1	1110.9	1105.9	1099.5	1105.9
3705.5	35°	2557.1	958.7	905.0	952.4	1022.4	1063.5	1079.7	1080.4	1080.4	1088.2
3752.2	37.5°	2422.7	873.1	867.5	931.8	999.1	1035.9	1059.2	1060.6	1030.2	1032.3
3831.4	40°	2298.1	837.0	850.5	918.4	976.4	1011.8	1013.2	934.0	878.1	876.7
3922.0	42.5°	2196.2	830.0	855.4	917.0	960.2	961.6	861.8	800.2	784.7	785.4
4005.5	45°	2100.7	827.8	866.8	917.0	936.1	830.7	763.5	747.2	748.6	754.3
4043.0	47.5°	1993.9	819.3	868.9	904.3	866.8	738.7	718.9	711.8	709.0	710.4
4034.5	50°	1877.1	788.9	842.0	878.8	747.9	699.1	674.3	672.2	675.7	677.8
3987.1	52.5°	1754.0	739.4	796.0	832.8	693.4	664.4	636.8	641.8	657.3	662.3
3937.5	55°	1673.4	681.4	735.1	740.8	655.2	631.8	608.5	619.8	648.8	658.0
3907.8	57.5°	1652.1	619.8	665.8	659.4	606.4	603.5	589.4	599.3	636.1	649.5
3906.4	60°	1645.8	564.6	597.9	592.9	559.0	572.4	568.9	573.8	586.6	590.8
3892.3	62.5°	1596.2	520.8	537.0	530.0	516.5	539.9	548.4	537.7	547.6	552.6
3795.3	65°	1470.3	485.4	477.6	472.6	478.3	499.5	516.5	495.3	504.5	518.6
3421.7	67.5°	1262.3	437.3	416.0	421.7	439.4	450.7	472.6	448.6	456.4	480.4
2755.9	70°	1021.0	376.4	357.3	373.6	390.6	413.9	417.5	401.2	419.6	446.5
1681.9	72.5°	722.4	314.9	301.4	334.7	340.3	370.8	363.0	355.2	380.7	389.9
831.4	75°	500.9	254.0	246.2	271.7	292.2	318.4	312.7	321.9	375.7	380.0
415.3	77.5°	317.0	197.4	192.5	208.7	237.0	266.0	275.2	380.0	641.8	667.2
215.8	80°	184.0	147.2	141.5	154.2	179.0	205.9	265.3	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	266.7	275.2
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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