

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: P946807

Luminaire Tested: **GALN-SB2B-835-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946807
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-SB2B-835-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10623 lumens
Efficiency: N/A
Efficacy: 143.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

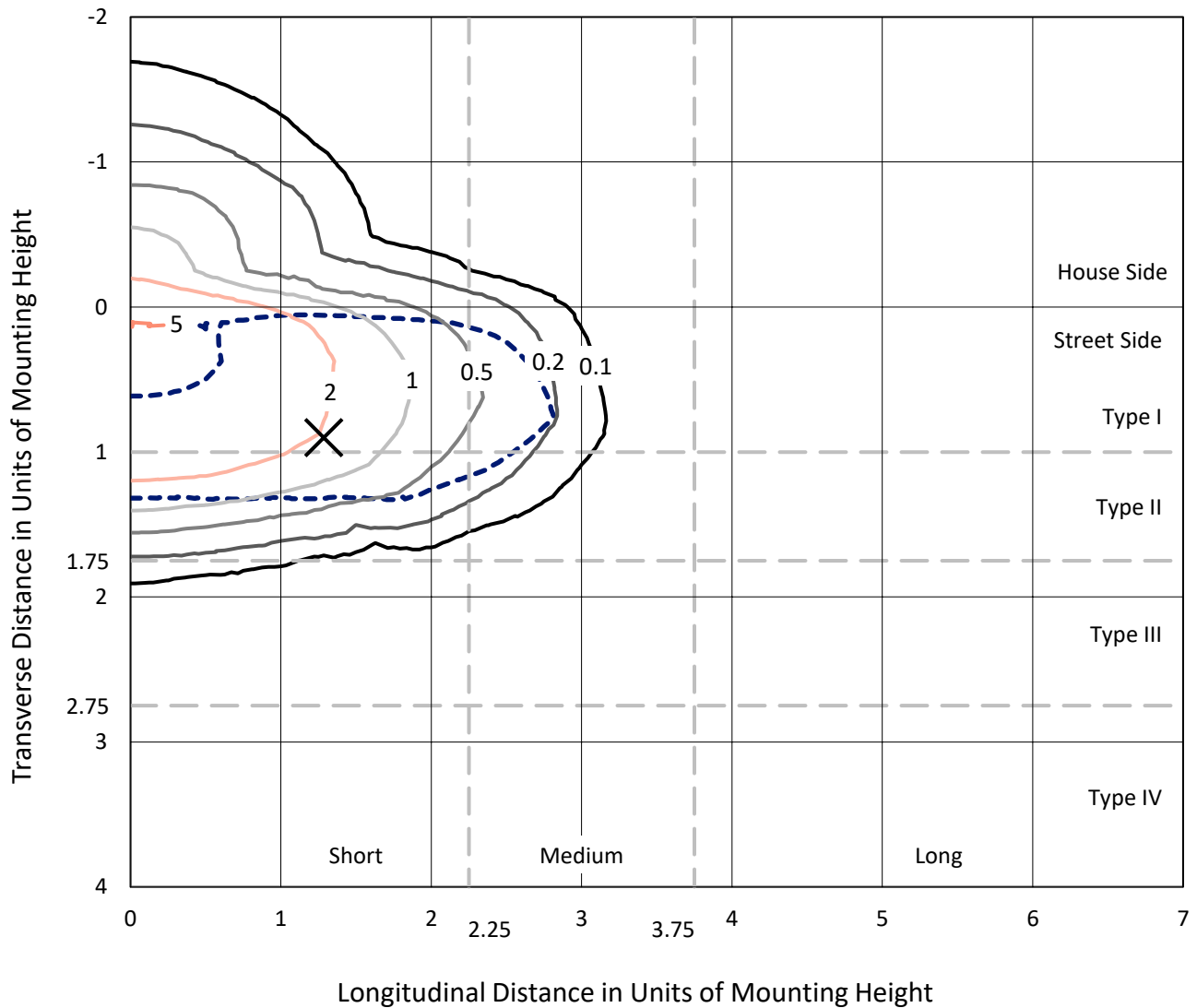
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

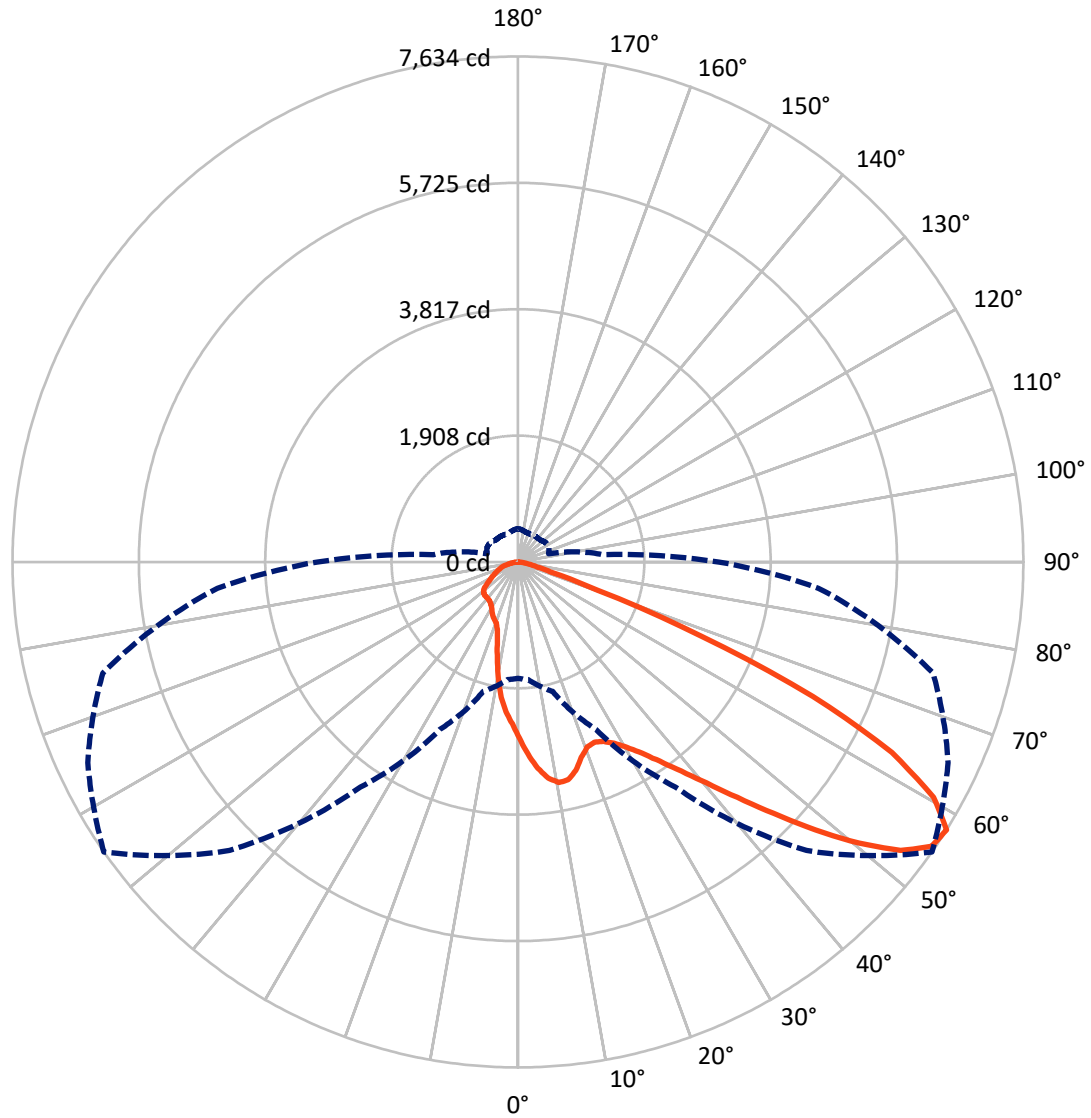
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	1922.2	0.0	1922.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	8700.8	0.0	8700.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	10623.0	0.0	10623.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.0	2.3
10°-20°	623.4	5.9
20°-30°	994.8	9.4
30°-40°	1575.0	14.8
40°-50°	2410.8	22.7
50°-60°	2582.2	24.3
60°-70°	1624.5	15.3
70°-80°	480.4	4.5
80°-90°	84.9	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°	10623.0	100.0
0°-180°	10623.0	100.0

Coefficient of Utilization



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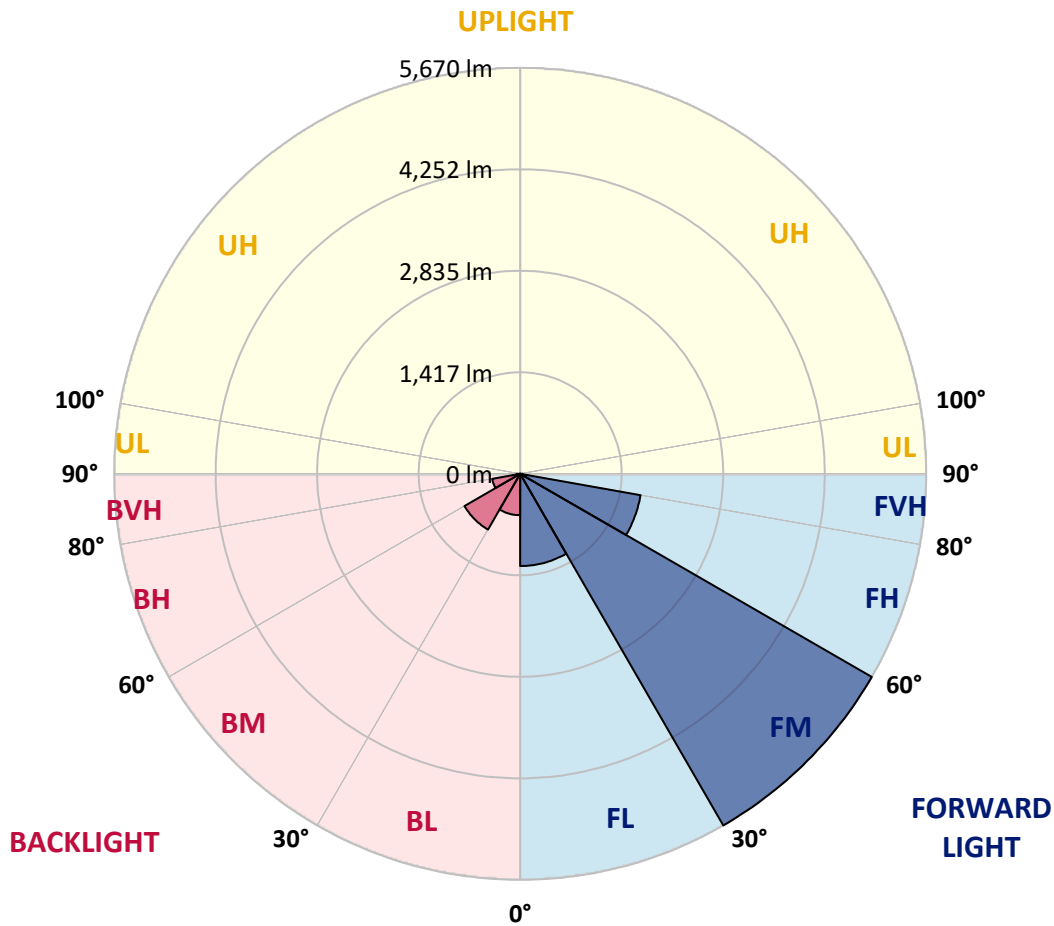
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1287.5	12.1			
FM (30°-60°)	5669.6	53.4			
FH (60°-80°)	1707.9	16.1			G1/1800
FVH (80°-90°)	35.9	0.3			G1/100
BL (0°-30°)	577.7	5.4	B2/1000		
BM (30°-60°)	898.4	8.5	B1/1000		
BH (60°-80°)	397.0	3.7	B1/500		G1/500
BVH (80°-90°)	49.0	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2661.8	2661.8	2661.8	2661.8	2661.8	2661.8	2661.8	2661.8	2661.8	2661.8
2.5°	3053.9	3051.7	3063.8	3022.6	2994.6	2956.7	2906.7	2843.0	2774.4	2701.9
5°	3329.0	3309.8	3322.4	3291.7	3260.9	3203.8	3129.7	3025.9	2899.0	2754.6
7.5°	3285.6	3272.4	3304.8	3332.3	3355.4	3348.2	3293.9	3185.1	3021.5	2811.7
10°	2935.8	2921.0	2966.6	3061.6	3201.1	3322.4	3388.3	3320.8	3146.7	2874.3
12.5°	2627.2	2620.0	2650.2	2727.1	2882.0	3114.8	3376.2	3439.4	3276.8	2948.4
15°	2495.4	2486.6	2505.8	2544.8	2643.7	2860.6	3266.4	3520.7	3404.8	3034.1
17.5°	2466.3	2456.4	2464.6	2484.9	2548.7	2713.9	3100.6	3560.8	3538.2	3129.7
20°	2520.1	2511.9	2513.0	2511.9	2556.3	2687.6	2985.2	3545.4	3654.7	3217.5
22.5°	2650.2	2636.5	2637.1	2608.0	2632.1	2733.7	2955.0	3504.2	3758.5	3294.4
25°	2862.2	2837.5	2842.5	2768.3	2761.7	2837.0	3002.3	3472.3	3861.7	3355.9
27.5°	3152.2	3124.2	3109.3	2999.0	2946.2	2983.6	3098.4	3483.3	3959.4	3409.2
30°	3514.6	3480.6	3450.4	3293.9	3198.3	3184.6	3247.7	3555.8	4074.8	3465.2
32.5°	3958.9	3919.4	3864.4	3656.9	3522.3	3450.4	3441.0	3684.9	4209.9	3536.6
35°	4487.7	4436.1	4358.1	4089.6	3919.4	3772.2	3695.8	3871.0	4394.9	3644.2
37.5°	5032.5	4974.3	4902.9	4583.3	4374.1	4157.1	4006.7	4123.6	4641.5	3790.3
40°	5535.0	5469.6	5403.2	5118.7	4894.1	4632.7	4387.2	4443.3	4943.0	3964.9
42.5°	5831.5	5783.2	5757.9	5604.2	5430.6	5165.4	4860.6	4822.2	5281.8	4165.9
45°	5818.4	5798.6	5876.6	5940.3	5899.1	5751.9	5415.3	5241.2	5621.8	4340.0
47.5°	5507.5	5520.7	5694.8	6052.8	6210.5	6287.3	6046.8	5652.5	5917.2	4470.2
50°	4661.8	4672.8	5075.9	5848.0	6290.6	6723.9	6673.4	6053.9	6146.2	4549.8
52.5°	3992.4	3999.5	4172.5	5240.6	6025.9	6943.6	7237.9	6432.3	6313.7	4571.8
55°	3007.2	3031.9	3225.8	4111.6	5337.3	6769.5	7581.7	6822.2	6419.7	4574.0
57.5°	1756.8	1783.7	2023.1	2790.8	4148.4	6162.7	7633.9	7168.2	6491.6	4556.4
60°	860.5	872.1	976.4	1466.8	2558.0	4993.5	7214.3	7335.7	6531.7	4547.0
62.5°	579.9	578.3	582.7	723.8	1260.3	3208.2	6340.1	7042.4	6510.3	4511.4
65°	498.6	492.6	476.1	508.0	653.0	1467.4	4898.5	6167.1	6347.2	4421.8
67.5°	431.1	431.6	432.2	422.3	466.2	677.1	2993.5	4857.9	5761.8	3997.9
70°	357.0	361.9	364.1	364.1	380.0	444.3	1277.9	3329.6	4544.8	3134.6
72.5°	325.1	314.7	315.8	310.3	310.3	338.3	514.6	1887.5	2863.3	1763.4
75°	265.2	271.8	272.9	269.1	256.5	258.1	305.3	791.9	1225.2	731.5
77.5°	229.0	229.0	231.2	228.5	218.6	193.3	203.7	307.0	416.8	299.8
80°	184.0	183.4	192.8	198.2	182.9	142.8	130.2	169.7	185.1	131.8
82.5°	89.5	95.0	132.3	151.0	138.9	103.2	79.6	105.4	98.8	58.2
85°	52.2	49.4	59.3	84.0	79.6	57.1	38.4	54.9	51.6	29.7
87.5°	16.5	15.4	12.1	28.6	23.1	15.9	10.4	15.9	14.3	6.6
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°
2661.8	0°	2661.8	2661.8	2661.8	2661.8	2661.8	2661.8	2661.8	2661.8	2661.8	2661.8
2670.6	2.5°	2631.6	2566.8	2502.5	2443.8	2408.1	2385.0	2361.9	2336.1	2326.2	2311.4
2677.7	5°	2605.2	2480.0	2368.5	2272.4	2185.1	2116.5	2047.3	1991.3	1966.0	1983.0
2700.2	7.5°	2589.8	2408.6	2236.7	2060.4	1890.8	1755.1	1637.0	1554.1	1516.8	1526.1
2722.2	10°	2576.1	2327.9	2065.9	1787.5	1543.7	1375.6	1254.8	1191.7	1168.1	1173.0
2751.8	12.5°	2563.5	2237.3	1860.0	1493.7	1234.5	1123.6	1089.0	1089.5	1093.9	1097.2
2799.1	15°	2561.3	2128.0	1629.9	1236.7	1067.6	1060.4	1097.8	1121.4	1134.0	1137.9
2838.6	17.5°	2558.0	1997.3	1395.4	1061.5	1026.9	1075.3	1109.9	1125.2	1135.1	1135.7
2877.0	20°	2544.8	1831.4	1179.0	978.1	1018.1	1059.9	1081.3	1093.4	1101.6	1104.4
2906.2	22.5°	2504.2	1646.9	1010.5	940.7	983.0	1016.5	1041.8	1055.5	1060.4	1063.7
2911.6	25°	2431.1	1440.4	894.0	905.0	934.1	976.4	996.7	999.5	997.8	1002.8
2897.9	27.5°	2335.6	1219.1	821.5	856.7	894.0	930.3	941.3	939.6	936.3	941.8
2874.3	30°	2220.3	1020.3	775.4	802.3	853.4	886.3	896.2	892.4	885.8	891.8
2862.2	32.5°	2098.3	857.8	737.5	764.4	819.9	852.3	862.2	858.3	853.4	858.3
2876.0	35°	1984.7	744.1	702.4	739.2	793.5	825.4	838.0	838.6	838.6	844.6
2912.2	37.5°	1880.3	677.7	673.3	723.2	775.4	804.0	822.1	823.2	799.6	801.2
2973.7	40°	1783.7	649.7	660.1	712.8	757.8	785.3	786.4	724.9	681.5	680.4
3044.0	42.5°	1704.6	644.2	663.9	711.7	745.2	746.3	668.9	621.1	609.0	609.6
3108.8	45°	1630.5	642.5	672.7	711.7	726.5	644.7	592.5	579.9	581.0	585.4
3137.9	47.5°	1547.5	635.9	674.4	701.8	672.7	573.3	557.9	552.5	550.3	551.4
3131.3	50°	1456.9	612.3	653.5	682.1	580.5	542.6	523.3	521.7	524.4	526.1
3094.5	52.5°	1361.4	573.9	617.8	646.4	538.2	515.7	494.2	498.1	510.2	514.0
3056.1	55°	1298.8	528.8	570.6	575.0	508.5	490.4	472.3	481.1	503.6	510.7
3033.0	57.5°	1282.3	481.1	516.8	511.8	470.6	468.4	457.5	465.1	493.7	504.1
3031.9	60°	1277.3	438.2	464.0	460.2	433.8	444.3	441.5	445.4	455.3	458.5
3020.9	62.5°	1238.9	404.2	416.8	411.3	400.9	419.0	425.6	417.4	425.0	428.9
2945.7	65°	1141.2	376.7	370.7	366.8	371.2	387.7	400.9	384.4	391.6	402.5
2655.7	67.5°	979.7	339.4	322.9	327.3	341.0	349.8	366.8	348.2	354.2	372.9
2139.0	70°	792.4	292.2	277.3	290.0	303.1	321.3	324.0	311.4	325.7	346.5
1305.4	72.5°	560.7	244.4	233.9	259.8	264.1	287.8	281.7	275.7	295.4	302.6
645.3	75°	388.8	197.1	191.1	210.9	226.8	247.1	242.7	249.9	291.6	294.9
322.4	77.5°	246.0	153.2	149.4	162.0	184.0	206.5	213.6	294.9	498.1	517.9
167.5	80°	142.8	114.2	109.8	119.7	138.9	159.8	205.9	361.9	328.4	324.6
75.2	82.5°	79.6	78.5	73.0	75.8	92.8	115.3	291.1	254.8	207.0	213.6
30.2	85°	37.3	46.1	39.5	37.9	52.2	135.1	194.4	145.5	96.7	94.5
6.6	87.5°	9.9	8.8	8.8	9.9	22.0	116.4	77.4	62.1	36.8	35.7
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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