

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: P947121

Luminaire Tested: **GALN-SB2C-827-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947121
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2C-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11104 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

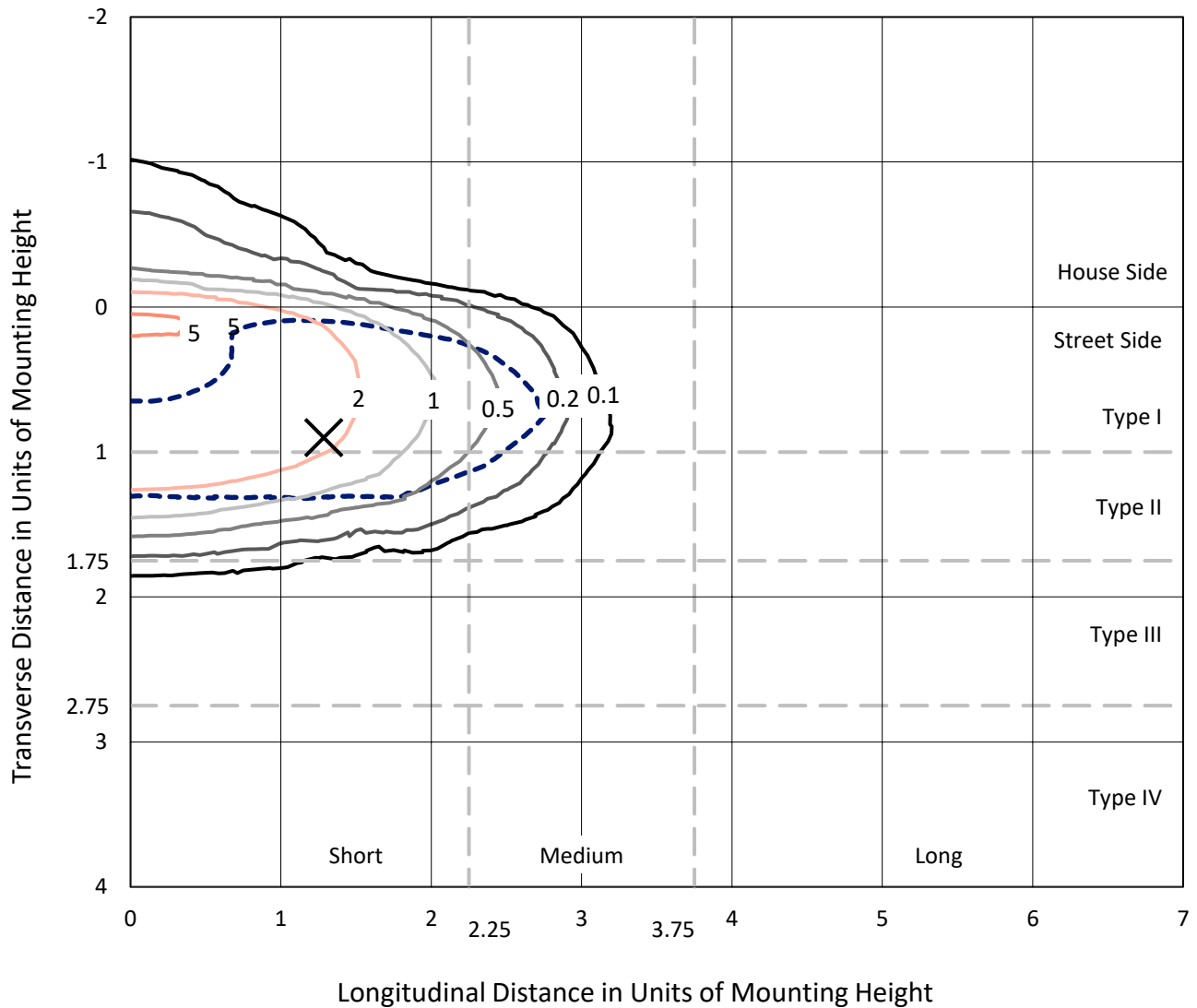
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

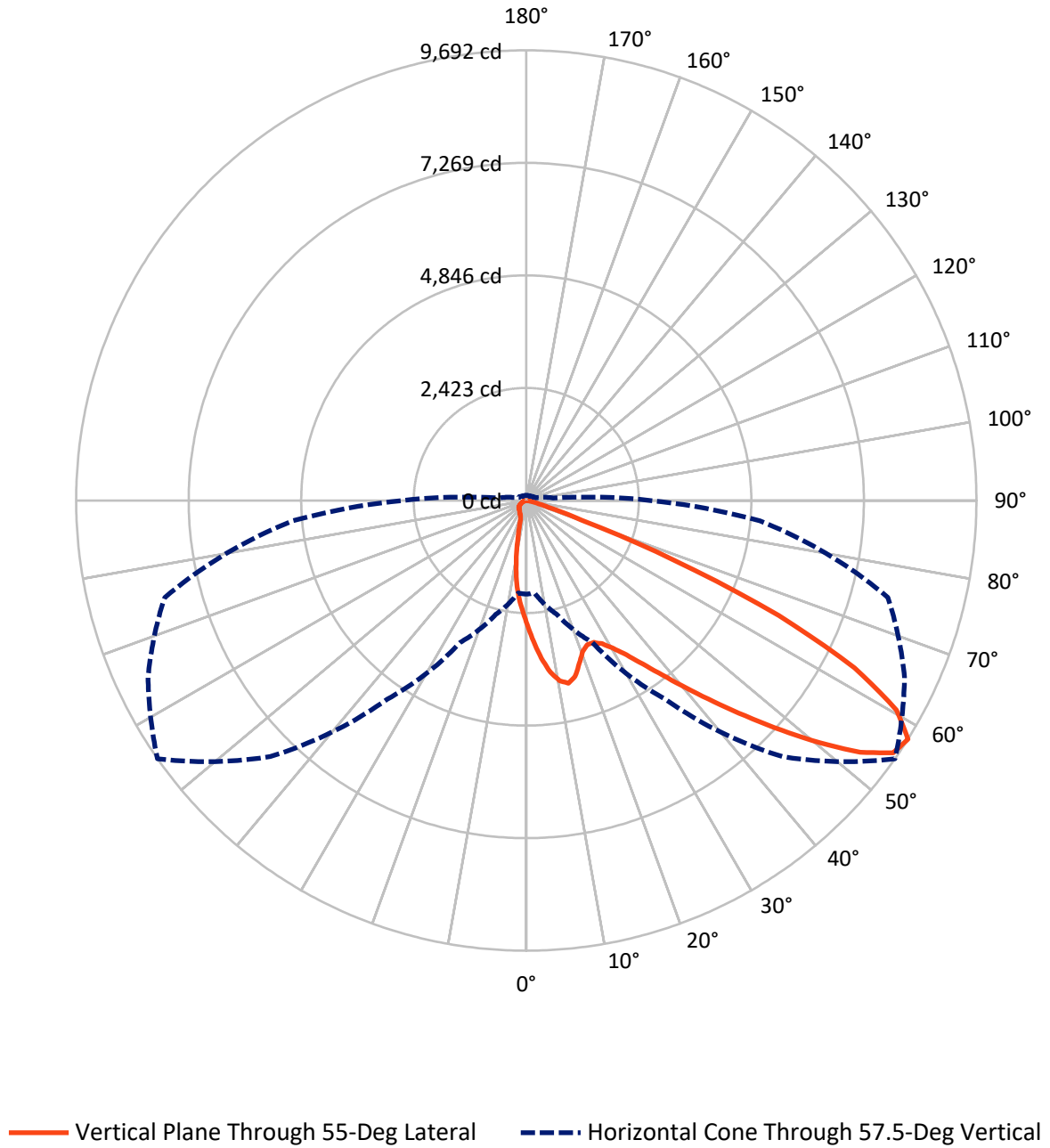
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	867.2	0.0	867.2
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	10236.8	0.0	10236.8
	% Fixture	92.2	0.0	92.2
Total	Lumens	11104.0	0.0	11104.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.0	2.2
10°-20°	601.4	5.4
20°-30°	962.2	8.7
30°-40°	1628.6	14.7
40°-50°	2673.8	24.1
50°-60°	2938.7	26.5
60°-70°	1685.6	15.2
70°-80°	344.4	3.1
80°-90°	20.3	0.2
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°	11104.0	100.0
0°-180°	11104.0	100.0

Coefficient of Utilization



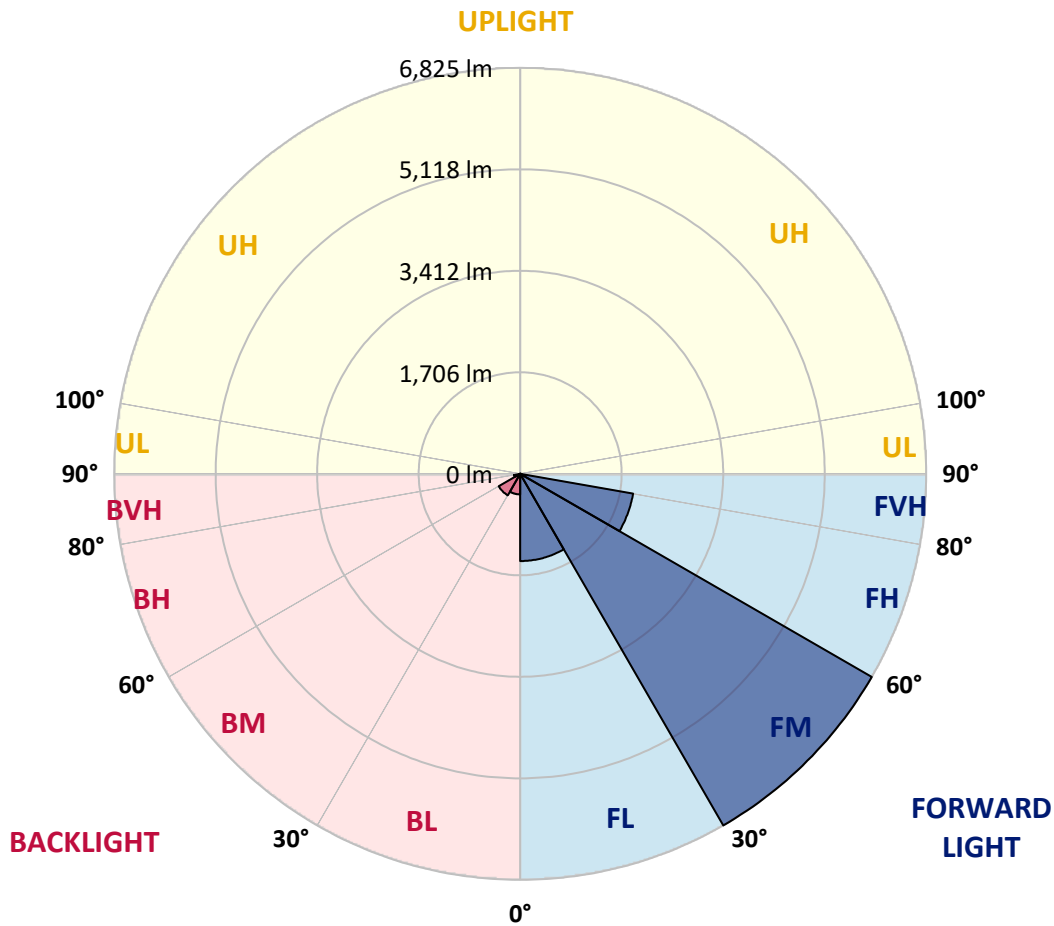
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1466.4	13.2			
FM (30°-60°)	6824.6	61.5			
FH (60°-80°)	1926.9	17.4			G2/5000
FVH (80°-90°)	18.9	0.2			G1/100
BL (0°-30°)	346.2	3.1	B1/500		
BM (30°-60°)	416.5	3.8	B1/1000		
BH (60°-80°)	103.1	0.9	B0/110		G0/110
BVH (80°-90°)	1.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2675.8	2675.8	2675.8	2675.8	2675.8	2675.8	2675.8	2675.8	2675.8	2675.8
2.5°	3320.1	3278.3	3272.2	3263.9	3184.5	3125.0	3038.7	2944.2	2838.1	2729.9
5°	3835.7	3802.8	3796.6	3758.3	3667.9	3566.6	3413.2	3219.4	3021.6	2788.8
7.5°	3935.6	3929.5	3957.5	3956.2	3943.8	3863.7	3734.3	3503.6	3206.4	2861.3
10°	3489.9	3505.6	3589.2	3662.4	3860.3	3975.3	3947.3	3756.9	3396.8	2944.2
12.5°	3083.9	3065.4	3125.0	3207.8	3437.9	3780.2	4035.6	3968.5	3614.5	3038.0
15°	2829.2	2821.6	2855.2	2893.5	3068.8	3413.9	3932.9	4140.4	3824.0	3148.9
17.5°	2747.7	2741.5	2751.8	2761.4	2875.0	3142.1	3688.5	4245.8	4024.6	3275.6
20°	2814.1	2805.9	2804.5	2797.0	2844.2	3026.4	3467.3	4253.3	4204.7	3390.6
22.5°	3007.9	2998.3	2964.7	2934.6	2938.7	3042.1	3368.7	4178.0	4340.3	3498.1
25°	3359.1	3343.4	3273.5	3172.2	3107.8	3151.7	3383.8	4078.7	4469.7	3582.3
27.5°	3798.7	3778.2	3688.5	3537.8	3390.6	3337.2	3492.6	4010.3	4577.2	3646.7
30°	4229.4	4202.7	4114.3	3997.3	3782.3	3613.8	3689.1	4040.4	4705.2	3713.8
32.5°	4694.3	4668.9	4551.9	4406.7	4228.7	4002.0	3958.2	4187.6	4862.0	3807.6
35°	5282.4	5242.7	5076.3	4878.5	4689.5	4460.1	4322.5	4441.6	5070.9	3950.7
37.5°	5952.1	5898.7	5719.3	5446.1	5199.6	4942.8	4766.2	4790.8	5376.9	4142.4
40°	6583.3	6534.7	6369.0	6111.6	5802.1	5490.6	5302.3	5247.5	5799.4	4375.9
42.5°	6962.0	6918.2	6848.3	6739.5	6478.6	6160.9	5923.3	5804.8	6299.2	4655.2
45°	6983.2	6944.9	7038.7	7165.3	7114.0	6902.4	6612.8	6395.7	6801.1	4917.5
47.5°	6643.6	6617.6	6902.4	7344.7	7565.2	7654.2	7387.2	6937.3	7215.3	5105.8
50°	5717.9	5708.3	6294.4	7106.5	7737.1	8312.9	8204.0	7441.3	7536.4	5203.0
52.5°	4957.9	4923.0	5264.6	6343.7	7487.1	8659.3	9002.4	7935.6	7761.0	5221.5
55°	3760.3	3729.5	4158.2	5067.4	6681.3	8536.1	9586.4	8445.7	7921.9	5174.2
57.5°	2017.1	1997.9	2539.5	3372.8	5222.9	7796.6	9691.9	8985.3	8057.5	5048.9
60°	785.3	781.9	984.6	1636.4	3174.2	6343.0	9159.9	9309.1	8142.4	4894.9
62.5°	475.2	485.4	518.3	734.7	1402.3	3940.4	7933.6	8940.8	8199.2	4753.8
65°	393.0	393.7	397.8	504.6	671.7	1648.7	5972.6	7728.8	8058.9	4502.6
67.5°	336.9	343.0	358.8	400.5	473.8	723.0	3438.5	5987.0	7205.1	3917.8
70°	265.7	273.9	293.7	329.3	365.6	452.6	1270.8	3983.6	5504.3	2953.1
72.5°	223.9	223.2	233.5	267.7	290.3	318.4	488.9	2232.1	3198.9	1409.8
75°	173.2	180.1	193.1	223.9	237.6	230.7	265.0	815.5	1146.2	427.3
77.5°	135.6	141.0	152.7	182.8	196.5	163.6	152.7	291.7	368.4	153.4
80°	60.9	65.7	104.1	134.9	160.2	113.0	82.8	149.3	163.6	69.8
82.5°	11.0	18.5	60.9	71.2	82.2	73.3	43.1	77.4	80.1	28.1
85°	0.7	1.4	21.2	26.0	32.9	24.0	13.0	30.8	26.7	9.6
87.5°	0.0	0.0	0.0	0.7	0.7	3.4	4.1	5.5	4.1	3.4
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°
2675.8	0°	2675.8	2675.8	2675.8	2675.8	2675.8	2675.8	2675.8	2675.8	2675.8	2675.8
2682.0	2.5°	2632.7	2535.4	2440.9	2363.6	2318.4	2241.7	2191.0	2182.8	2161.6	2180.1
2688.8	5°	2582.0	2408.1	2232.1	2074.6	1945.2	1778.2	1653.5	1600.8	1554.9	1570.7
2706.6	7.5°	2558.0	2283.5	2009.6	1740.5	1463.9	1196.8	998.3	915.4	852.4	861.3
2726.5	10°	2525.8	2154.1	1724.7	1313.9	943.5	679.9	543.0	492.3	464.2	464.9
2755.9	12.5°	2501.2	1999.3	1394.0	890.8	574.5	434.1	391.6	379.3	371.1	371.8
2800.4	15°	2488.9	1817.2	1067.4	593.6	410.8	367.7	357.4	351.9	346.5	345.8
2849.7	17.5°	2468.3	1614.5	781.2	433.4	359.5	344.4	335.5	329.3	322.5	321.1
2892.2	20°	2437.5	1384.5	571.0	366.3	336.9	325.2	312.9	304.7	296.5	295.1
2918.9	22.5°	2380.7	1141.4	438.9	338.9	320.4	307.4	292.4	282.8	274.6	273.2
2905.8	25°	2275.2	913.4	369.7	321.8	306.1	290.3	273.9	260.9	253.3	252.0
2877.8	27.5°	2141.7	717.6	335.5	306.1	287.6	273.2	254.7	242.4	235.5	234.2
2840.8	30°	1984.2	552.5	315.6	288.3	265.7	253.3	236.9	226.6	222.5	222.5
2814.8	32.5°	1814.4	441.6	307.4	270.5	246.5	232.8	219.8	215.7	214.3	213.6
2829.2	35°	1654.9	383.4	303.3	256.1	229.4	216.4	210.9	211.6	214.3	214.3
2873.7	37.5°	1513.2	364.9	301.3	245.8	214.3	202.7	206.1	212.3	209.5	209.5
2951.7	40°	1385.1	367.0	299.9	238.3	202.0	195.1	202.0	197.2	190.3	189.7
3046.9	42.5°	1287.2	384.1	297.2	232.1	194.5	189.7	186.9	179.4	178.7	180.1
3145.5	45°	1216.0	399.2	296.5	229.4	186.2	177.3	173.9	166.4	180.1	183.5
3185.9	47.5°	1131.8	399.2	296.5	219.8	172.5	169.1	163.6	155.4	169.1	172.5
3147.5	50°	1022.9	373.8	284.8	208.8	161.6	159.5	149.9	139.7	136.9	139.0
3057.9	52.5°	885.3	328.0	255.4	193.8	150.6	146.5	134.9	127.4	125.3	125.3
2896.9	55°	728.5	274.6	215.7	171.9	139.0	131.5	123.2	119.8	117.8	116.4
2671.7	57.5°	592.3	225.3	173.2	152.7	128.0	118.5	115.7	111.6	108.2	106.1
2483.4	60°	486.1	177.3	143.1	135.6	117.1	108.2	107.5	102.0	93.1	91.7
2328.0	62.5°	375.2	130.1	120.5	117.8	106.1	98.6	97.2	86.3	72.6	69.8
2107.5	65°	265.0	101.3	97.2	103.4	94.5	87.6	84.2	67.8	53.4	51.4
1763.8	67.5°	186.2	84.9	76.7	90.4	82.2	73.3	71.2	57.5	44.5	43.1
1333.8	70°	132.8	69.2	63.0	77.4	65.7	64.4	60.3	47.9	36.3	34.9
660.0	72.5°	93.8	52.7	48.6	67.1	45.2	55.5	49.3	37.0	27.4	26.0
224.6	75°	69.2	37.7	34.2	39.0	32.9	41.8	34.9	24.6	17.1	16.4
101.3	77.5°	50.7	24.0	20.5	19.2	19.2	26.0	19.2	10.3	7.5	6.8
51.4	80°	35.6	11.0	9.6	8.2	7.5	6.2	2.7	1.4	0.7	0.7
17.8	82.5°	21.2	4.8	4.8	3.4	2.1	0.0	0.0	0.0	0.0	0.0
6.8	85°	4.8	2.1	2.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0
2.7	87.5°	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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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