

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: P946827

Luminaire Tested: **GALN-SB2B-840-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946827  
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-SB2B-840-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

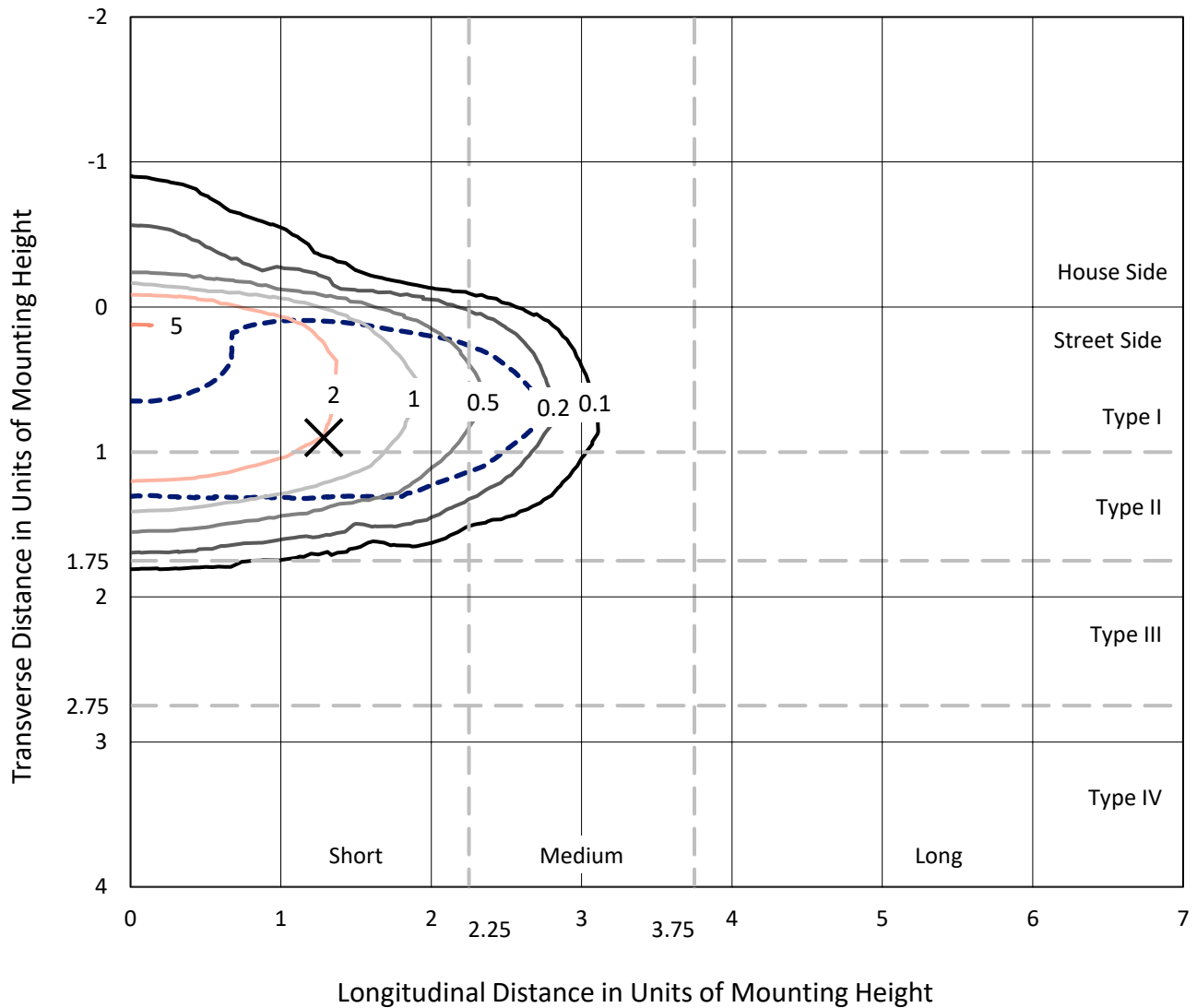
Lumens per Lamp: N/A  
Luminaire Lumens: 9184 lumens  
Efficiency: N/A  
Efficacy: 124.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

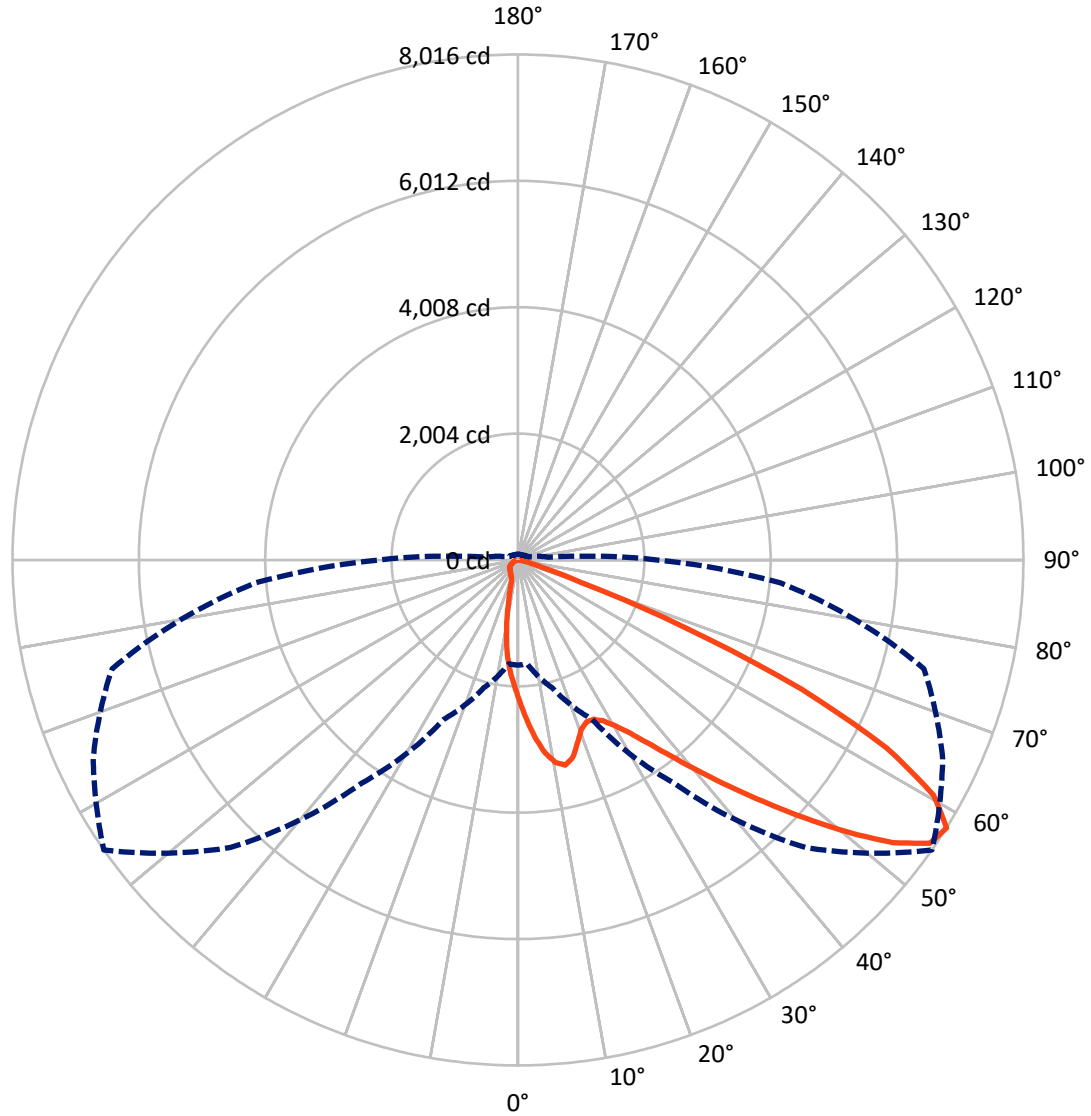
✕ Max cd  
 - - - 1/2 Max cd



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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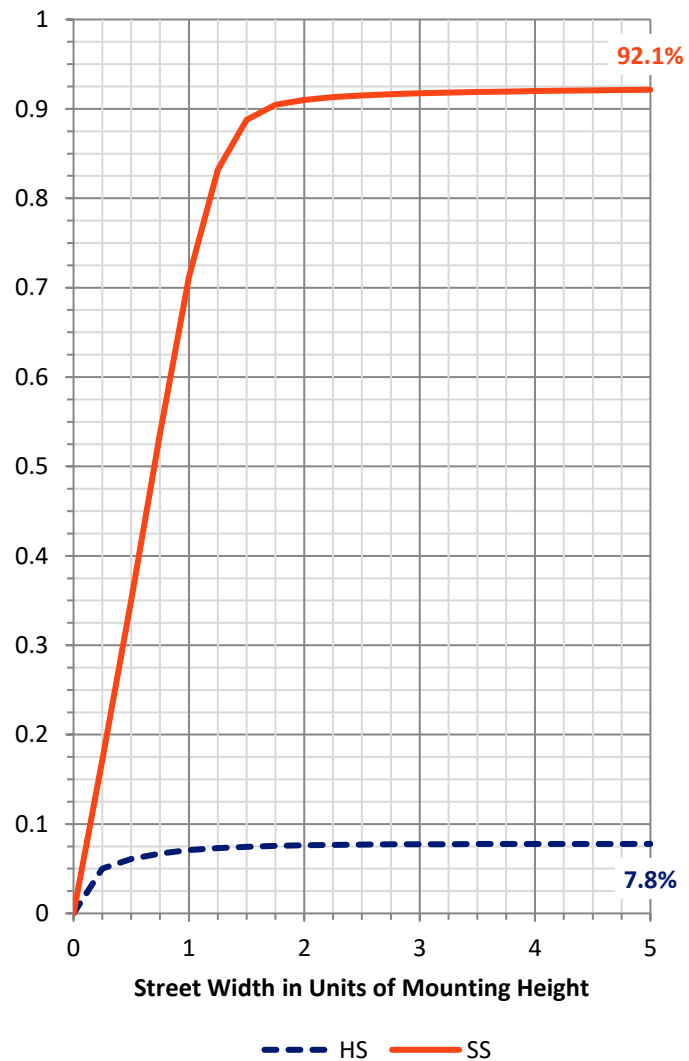
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	717.2	0.0	717.2
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	8466.8	0.0	8466.8
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	9184.0	0.0	9184.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	205.9	2.2
10°-20°	497.4	5.4
20°-30°	795.8	8.7
30°-40°	1347.0	14.7
40°-50°	2211.5	24.1
50°-60°	2430.6	26.5
60°-70°	1394.2	15.2
70°-80°	284.9	3.1
80°-90°	16.8	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°	9184.0	100.0
0°-180°	9184.0	100.0

**Coefficient of Utilization**



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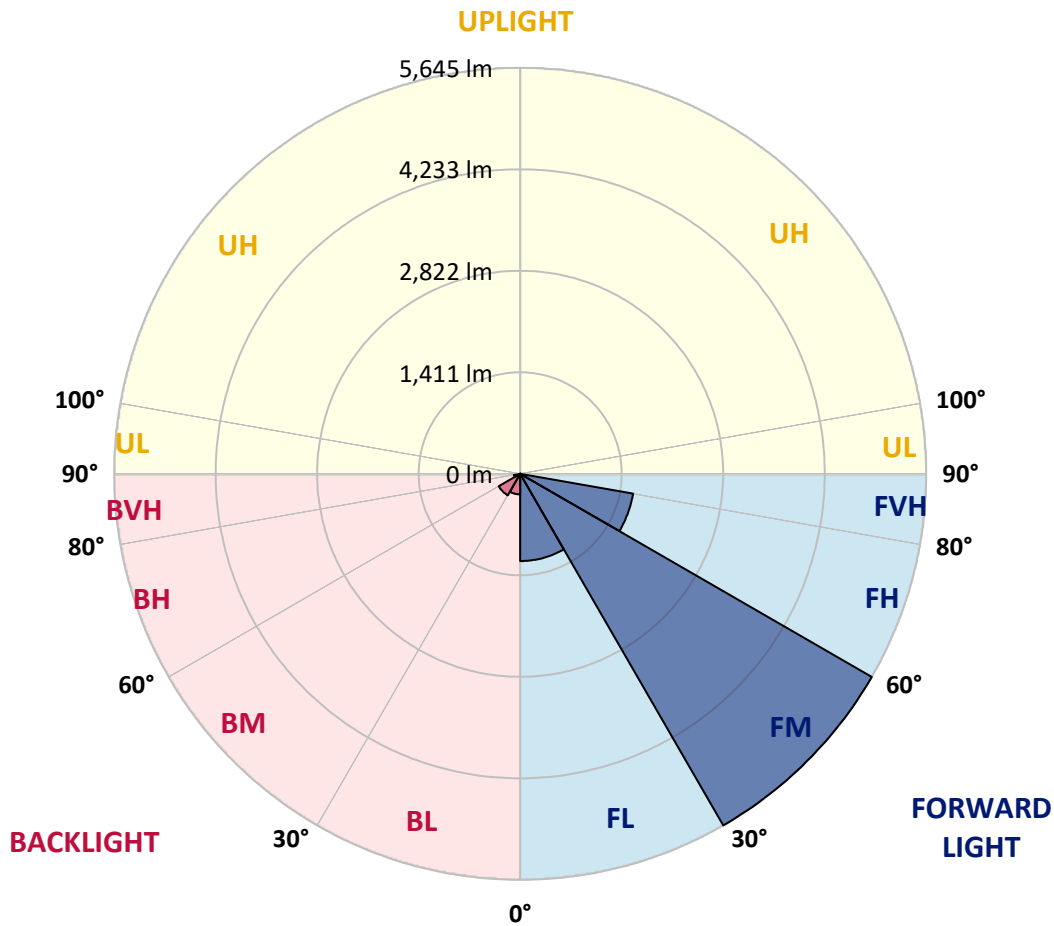
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1212.8	13.2			
FM (30°-60°)	5644.5	61.5			
FH (60°-80°)	1593.7	17.4			G1/1800
FVH (80°-90°)	15.7	0.2			G1/100
BL (0°-30°)	286.3	3.1	B1/500		
BM (30°-60°)	344.5	3.8	B1/1000		
BH (60°-80°)	85.3	0.9	B0/110		G0/110
BVH (80°-90°)	1.1	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-G1**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2213.1	2213.1	2213.1	2213.1	2213.1	2213.1	2213.1	2213.1	2213.1	2213.1
2.5°	2746.0	2711.5	2706.4	2699.6	2633.9	2584.6	2513.3	2435.1	2347.3	2257.9
5°	3172.4	3145.3	3140.2	3108.4	3033.7	2949.9	2823.0	2662.8	2499.1	2306.6
7.5°	3255.1	3250.0	3273.2	3272.1	3261.9	3195.7	3088.6	2897.8	2652.0	2366.6
10°	2886.5	2899.5	2968.6	3029.2	3192.8	3288.0	3264.7	3107.3	2809.4	2435.1
12.5°	2550.6	2535.3	2584.6	2653.1	2843.4	3126.6	3337.8	3282.3	2989.5	2512.7
15°	2340.0	2333.7	2361.5	2393.2	2538.2	2823.6	3252.9	3424.4	3162.8	2604.4
17.5°	2272.6	2267.5	2276.0	2283.9	2377.9	2598.8	3050.7	3511.7	3328.7	2709.2
20°	2327.5	2320.7	2319.6	2313.4	2352.4	2503.1	2867.8	3517.9	3477.7	2804.3
22.5°	2487.8	2479.8	2452.1	2427.2	2430.6	2516.1	2786.2	3455.6	3589.8	2893.2
25°	2778.3	2765.3	2707.5	2623.7	2570.5	2606.7	2798.7	3373.5	3696.8	2962.9
27.5°	3141.9	3124.9	3050.7	2926.1	2804.3	2760.2	2888.7	3316.8	3785.7	3016.1
30°	3498.1	3476.0	3402.9	3306.1	3128.3	2989.0	3051.2	3341.8	3891.6	3071.6
32.5°	3882.6	3861.6	3764.8	3644.7	3497.5	3310.0	3273.8	3463.5	4021.3	3149.2
35°	4369.0	4336.2	4198.6	4034.9	3878.6	3688.9	3575.1	3673.6	4194.1	3267.6
37.5°	4922.9	4878.7	4730.3	4504.4	4300.5	4088.2	3942.0	3962.4	4447.2	3426.1
40°	5445.0	5404.8	5267.8	5054.8	4798.9	4541.2	4385.5	4340.2	4796.6	3619.3
42.5°	5758.2	5721.9	5664.2	5574.1	5358.4	5095.6	4899.1	4801.1	5210.0	3850.3
45°	5775.7	5744.0	5821.6	5926.4	5883.9	5708.9	5469.4	5289.8	5625.1	4067.2
47.5°	5494.9	5473.3	5708.9	6074.7	6257.1	6330.7	6109.9	5737.8	5967.7	4222.9
50°	4729.2	4721.3	5206.0	5877.7	6399.2	6875.5	6785.5	6154.6	6233.3	4303.3
52.5°	4100.6	4071.7	4354.3	5246.8	6192.5	7162.1	7445.8	6563.5	6419.1	4318.6
55°	3110.1	3084.7	3439.2	4191.2	5526.0	7060.1	7928.8	6985.4	6552.1	4279.6
57.5°	1668.3	1652.5	2100.4	2789.6	4319.8	6448.5	8016.0	7431.6	6664.3	4175.9
60°	649.6	646.7	814.3	1353.5	2625.4	5246.2	7576.0	7699.5	6734.5	4048.5
62.5°	393.0	401.5	428.7	607.6	1159.8	3259.1	6561.8	7394.8	6781.5	3931.9
65°	325.1	325.6	329.0	417.4	555.5	1363.7	4939.9	6392.4	6665.4	3724.0
67.5°	278.6	283.7	296.7	331.3	391.9	598.0	2844.0	4951.8	5959.2	3240.4
70°	219.7	226.5	242.9	272.4	302.4	374.3	1051.1	3294.8	4552.5	2442.5
72.5°	185.2	184.6	193.1	221.4	240.1	263.3	404.3	1846.2	2645.8	1166.0
75°	143.3	148.9	159.7	185.2	196.5	190.8	219.2	674.5	948.0	353.4
77.5°	112.1	116.7	126.3	151.2	162.5	135.3	126.3	241.2	304.7	126.9
80°	50.4	54.4	86.1	111.6	132.5	93.4	68.5	123.5	135.3	57.8
82.5°	9.1	15.3	50.4	58.9	68.0	60.6	35.7	64.0	66.3	23.2
85°	0.6	1.1	17.6	21.5	27.2	19.8	10.8	25.5	22.1	7.9
87.5°	0.0	0.0	0.0	0.6	0.6	2.8	3.4	4.5	3.4	2.8
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°
2213.1	0°	2213.1	2213.1	2213.1	2213.1	2213.1	2213.1	2213.1	2213.1	2213.1	2213.1
2218.2	2.5°	2177.4	2097.0	2018.9	1954.9	1917.5	1854.1	1812.2	1805.4	1787.8	1803.1
2223.9	5°	2135.5	1991.7	1846.2	1715.9	1608.9	1470.7	1367.6	1324.0	1286.1	1299.1
2238.6	7.5°	2115.7	1888.6	1662.1	1439.5	1210.8	989.9	825.7	757.1	705.0	712.4
2255.0	10°	2089.1	1781.6	1426.5	1086.7	780.4	562.3	449.1	407.2	384.0	384.5
2279.4	12.5°	2068.7	1653.6	1153.0	736.8	475.1	359.0	323.9	313.7	306.9	307.5
2316.2	15°	2058.5	1503.0	882.9	491.0	339.8	304.1	295.6	291.1	286.6	286.0
2357.0	17.5°	2041.5	1335.3	646.2	358.5	297.3	284.9	277.5	272.4	266.7	265.6
2392.1	20°	2016.0	1145.1	472.3	303.0	278.6	269.0	258.8	252.0	245.2	244.1
2414.2	22.5°	1969.0	944.0	363.0	280.3	265.0	254.3	241.8	233.9	227.1	226.0
2403.4	25°	1881.8	755.5	305.8	266.2	253.1	240.1	226.5	215.8	209.5	208.4
2380.2	27.5°	1771.4	593.5	277.5	253.1	237.8	226.0	210.7	200.5	194.8	193.7
2349.6	30°	1641.2	457.0	261.1	238.4	219.7	209.5	195.9	187.4	184.0	184.0
2328.1	32.5°	1500.7	365.3	254.3	223.7	203.9	192.5	181.8	178.4	177.3	176.7
2340.0	35°	1368.8	317.1	250.9	211.8	189.7	179.0	174.4	175.0	177.3	177.3
2376.8	37.5°	1251.5	301.8	249.2	203.3	177.3	167.6	170.5	175.6	173.3	173.3
2441.3	40°	1145.6	303.5	248.0	197.1	167.1	161.4	167.1	163.1	157.4	156.9
2520.1	42.5°	1064.7	317.7	245.8	192.0	160.8	156.9	154.6	148.4	147.8	148.9
2601.6	45°	1005.8	330.2	245.2	189.7	154.0	146.7	143.8	137.6	148.9	151.8
2635.0	47.5°	936.1	330.2	245.2	181.8	142.7	139.9	135.3	128.6	139.9	142.7
2603.3	50°	846.1	309.2	235.6	172.7	133.6	131.9	124.0	115.5	113.3	115.0
2529.1	52.5°	732.2	271.3	211.2	160.3	124.6	121.2	111.6	105.3	103.6	103.6
2396.0	55°	602.5	227.1	178.4	142.1	115.0	108.7	101.9	99.1	97.4	96.3
2209.7	57.5°	489.9	186.3	143.3	126.3	105.9	98.0	95.7	92.3	89.5	87.8
2054.0	60°	402.1	146.7	118.4	112.1	96.8	89.5	88.9	84.4	77.0	75.9
1925.4	62.5°	310.3	107.6	99.7	97.4	87.8	81.5	80.4	71.4	60.0	57.8
1743.1	65°	219.2	83.8	80.4	85.5	78.2	72.5	69.7	56.1	44.2	42.5
1458.8	67.5°	154.0	70.2	63.4	74.8	68.0	60.6	58.9	47.6	36.8	35.7
1103.2	70°	109.9	57.2	52.1	64.0	54.4	53.2	49.8	39.6	30.0	28.9
545.9	72.5°	77.6	43.6	40.2	55.5	37.4	45.9	40.8	30.6	22.7	21.5
185.7	75°	57.2	31.1	28.3	32.3	27.2	34.5	28.9	20.4	14.2	13.6
83.8	77.5°	41.9	19.8	17.0	15.9	15.9	21.5	15.9	8.5	6.2	5.7
42.5	80°	29.4	9.1	7.9	6.8	6.2	5.1	2.3	1.1	0.6	0.6
14.7	82.5°	17.6	4.0	4.0	2.8	1.7	0.0	0.0	0.0	0.0	0.0
5.7	85°	4.0	1.7	1.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0
2.3	87.5°	0.6	0.6	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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