

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: P947184

Luminaire Tested: **GALN-SB2C-840-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947184  
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-840-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

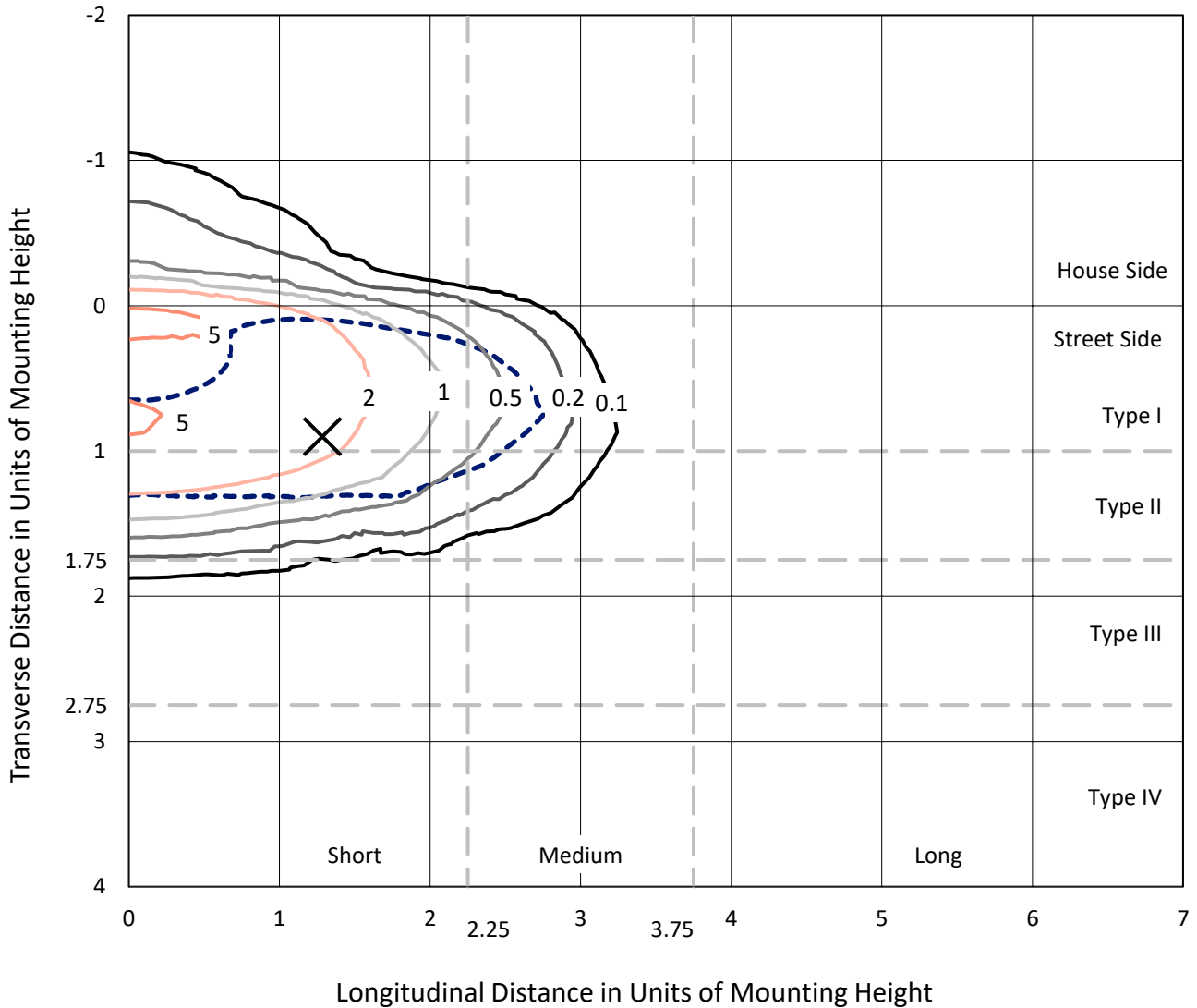
Lumens per Lamp: N/A  
Luminaire Lumens: 12214 lumens  
Efficiency: N/A  
Efficacy: 121.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 100.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

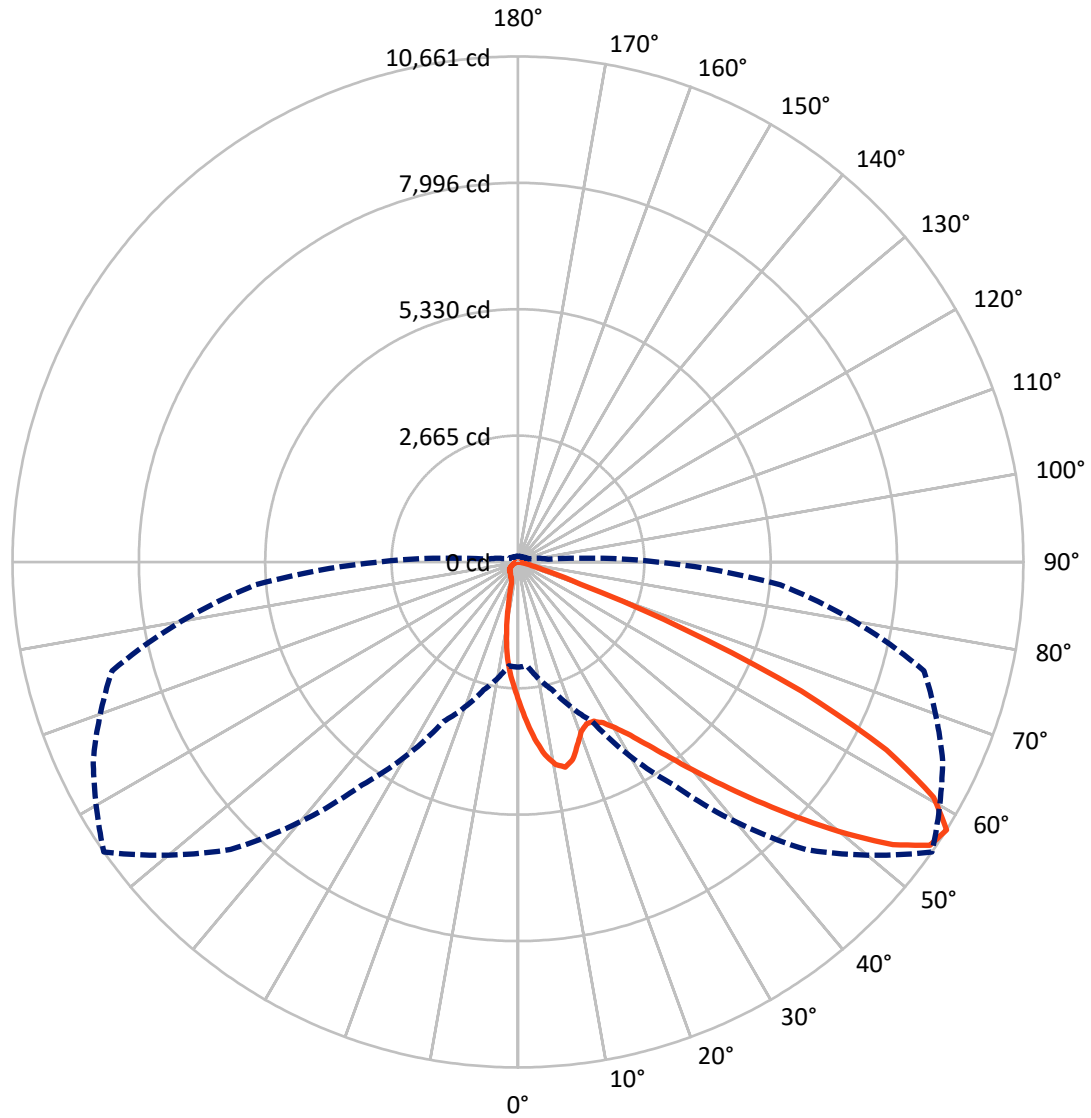
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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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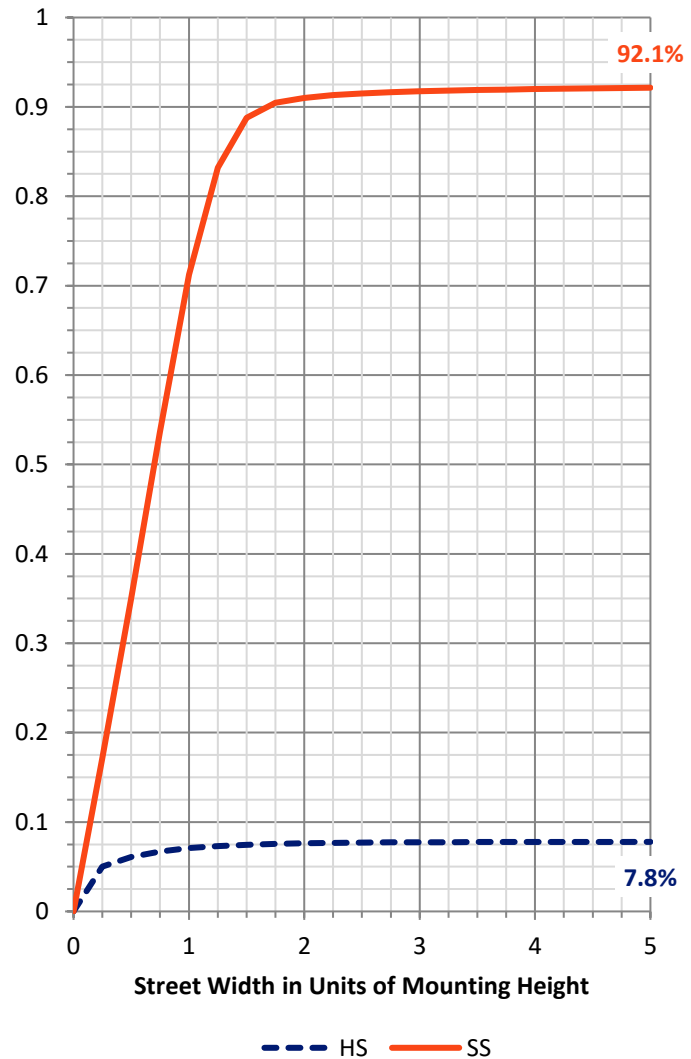
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	953.9	0.0	953.9
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	11260.1	0.0	11260.1
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	12214.0	0.0	12214.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	273.9	2.2
10°-20°	661.5	5.4
20°-30°	1058.4	8.7
30°-40°	1791.4	14.7
40°-50°	2941.1	24.1
50°-60°	3232.5	26.5
60°-70°	1854.1	15.2
70°-80°	378.9	3.1
80°-90°	22.4	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°	12214.0	100.0
0°-180°	12214.0	100.0

**Coefficient of Utilization**



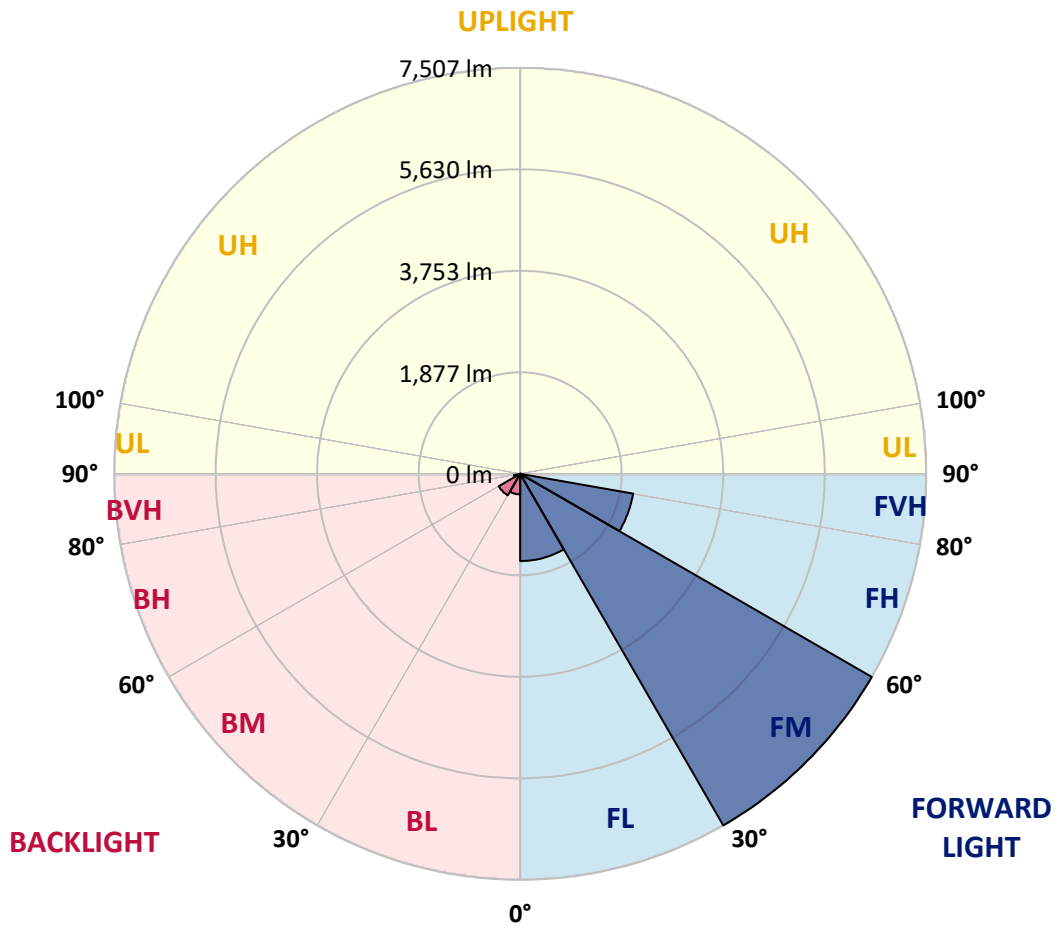
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1612.9	13.2			
FM (30°-60°)	7506.8	61.5			
FH (60°-80°)	2119.6	17.4			G2/5000
FVH (80°-90°)	20.8	0.2			G1/100
BL (0°-30°)	380.8	3.1	B1/500		
BM (30°-60°)	458.1	3.8	B1/1000		
BH (60°-80°)	113.4	0.9	B1/500		G1/500
BVH (80°-90°)	1.5	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°	2943.3	2943.3	2943.3	2943.3	2943.3	2943.3	2943.3	2943.3	2943.3	2943.3
2.5°	3652.0	3606.0	3599.3	3590.2	3502.9	3437.3	3342.4	3238.5	3121.8	3002.8
5°	4219.1	4182.9	4176.2	4134.0	4034.6	3923.1	3754.4	3541.3	3323.6	3067.5
7.5°	4329.1	4322.3	4353.2	4351.6	4338.1	4250.0	4107.6	3853.8	3527.0	3147.4
10°	3838.8	3856.1	3948.0	4028.5	4246.2	4372.7	4341.9	4132.5	3736.3	3238.5
12.5°	3392.1	3371.8	3437.3	3528.5	3781.5	4158.1	4439.0	4365.2	3975.8	3341.7
15°	3112.0	3103.7	3140.6	3182.8	3375.6	3755.2	4326.0	4554.2	4206.3	3463.7
17.5°	3022.4	3015.6	3026.9	3037.4	3162.4	3456.2	4057.2	4670.2	4427.0	3603.0
20°	3095.4	3086.4	3084.9	3076.6	3128.5	3328.9	3813.9	4678.5	4625.0	3729.6
22.5°	3308.5	3298.0	3261.1	3228.0	3232.5	3346.2	3705.5	4595.7	4774.2	3847.8
25°	3694.9	3677.6	3600.8	3489.3	3418.5	3466.7	3722.0	4486.5	4916.5	3940.4
27.5°	4178.4	4155.8	4057.2	3891.5	3729.6	3670.8	3841.8	4411.1	5034.7	4011.2
30°	4652.1	4622.8	4525.6	4396.8	4160.3	3975.1	4057.9	4444.3	5175.6	4085.0
32.5°	5163.5	5135.7	5006.9	4847.2	4651.4	4402.1	4353.9	4606.2	5348.1	4188.2
35°	5810.5	5766.8	5583.8	5366.1	5158.3	4906.0	4754.6	4885.6	5577.8	4345.6
37.5°	6547.1	6488.3	6291.0	5990.5	5719.3	5436.9	5242.6	5269.7	5914.4	4556.5
40°	7241.4	7188.0	7005.7	6722.5	6382.1	6039.4	5832.3	5772.1	6379.1	4813.3
42.5°	7657.9	7609.7	7532.9	7413.2	7126.2	6776.8	6515.4	6385.1	6928.9	5120.6
45°	7681.3	7639.1	7742.3	7881.6	7825.1	7592.4	7273.8	7035.1	7480.9	5409.1
47.5°	7307.7	7279.1	7592.4	8078.9	8321.4	8419.4	8125.6	7630.8	7936.6	5616.2
50°	6289.5	6278.9	6923.6	7816.8	8510.5	9143.9	9024.1	8185.1	8289.8	5723.1
52.5°	5453.5	5415.1	5790.9	6977.8	8235.6	9525.0	9902.3	8728.9	8536.8	5743.4
55°	4136.2	4102.4	4573.8	5574.0	7349.1	9389.4	10544.7	9290.0	8713.8	5691.5
57.5°	2218.8	2197.7	2793.4	3710.0	5745.0	8576.0	10660.7	9883.5	8863.0	5553.7
60°	863.9	860.1	1083.0	1800.0	3491.6	6977.1	10075.5	10239.7	8956.3	5384.2
62.5°	522.7	534.0	570.1	808.1	1542.4	4334.3	8726.6	9834.5	9018.9	5229.1
65°	432.3	433.1	437.6	555.1	738.8	1813.6	6569.6	8501.4	8864.5	4952.7
67.5°	370.5	377.3	394.6	440.6	521.2	795.3	3782.3	6585.5	7925.3	4309.5
70°	292.2	301.3	323.1	362.3	402.2	497.8	1397.8	4381.8	6054.5	3248.3
72.5°	246.3	245.5	256.8	294.5	319.3	350.2	537.7	2455.2	3518.7	1550.7
75°	190.5	198.1	212.4	246.3	261.3	253.8	291.5	897.0	1260.8	470.0
77.5°	149.1	155.1	168.0	201.1	216.2	180.0	168.0	320.8	405.2	168.7
80°	67.0	72.3	114.5	148.4	176.2	124.3	91.1	164.2	180.0	76.8
82.5°	12.1	20.3	67.0	78.3	90.4	80.6	47.4	85.1	88.1	30.9
85°	0.8	1.5	23.3	28.6	36.2	26.4	14.3	33.9	29.4	10.5
87.5°	0.0	0.0	0.0	0.8	0.8	3.8	4.5	6.0	4.5	3.8
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°
2943.3	0°	2943.3	2943.3	2943.3	2943.3	2943.3	2943.3	2943.3	2943.3	2943.3	2943.3
2950.1	2.5°	2895.8	2788.9	2684.9	2599.8	2550.1	2465.8	2410.0	2401.0	2377.7	2398.0
2957.6	5°	2840.1	2648.8	2455.2	2282.0	2139.7	1955.9	1818.8	1760.8	1710.4	1727.7
2977.2	7.5°	2813.7	2511.7	2210.5	1914.5	1610.2	1316.5	1098.1	1006.9	937.7	947.5
2999.0	10°	2778.3	2369.4	1897.2	1445.3	1037.8	747.9	597.2	541.5	510.6	511.4
3031.4	12.5°	2751.2	2199.2	1533.4	979.8	631.9	477.5	430.8	417.2	408.2	409.0
3080.3	15°	2737.7	1998.8	1174.1	653.0	451.9	404.4	393.1	387.1	381.1	380.3
3134.6	17.5°	2715.1	1775.9	859.3	476.7	395.4	378.8	369.0	362.3	354.7	353.2
3181.3	20°	2681.2	1522.9	628.1	402.9	370.5	357.7	344.2	335.1	326.1	324.6
3210.6	22.5°	2618.7	1255.5	482.8	372.8	352.5	338.2	321.6	311.0	302.0	300.5
3196.3	25°	2502.7	1004.7	406.7	354.0	336.7	319.3	301.3	286.9	278.7	277.2
3165.4	27.5°	2355.8	789.3	369.0	336.7	316.3	300.5	280.2	266.6	259.1	257.6
3124.8	30°	2182.6	607.8	347.2	317.1	292.2	278.7	260.6	249.3	244.8	244.8
3096.2	32.5°	1995.8	485.8	338.2	297.5	271.1	256.1	241.8	237.2	235.7	235.0
3112.0	35°	1820.3	421.8	333.6	281.7	252.3	238.0	232.0	232.7	235.7	235.7
3160.9	37.5°	1664.4	401.4	331.4	270.4	235.7	222.9	226.7	233.5	230.5	230.5
3246.8	40°	1523.6	403.7	329.9	262.1	222.2	214.6	222.2	216.9	209.4	208.6
3351.5	42.5°	1415.9	422.5	326.9	255.3	213.9	208.6	205.6	197.3	196.6	198.1
3459.9	45°	1337.6	439.1	326.1	252.3	204.9	195.1	191.3	183.0	198.1	201.8
3504.4	47.5°	1244.9	439.1	326.1	241.8	189.8	186.0	180.0	171.0	186.0	189.8
3462.2	50°	1125.2	411.2	313.3	229.7	177.7	175.5	164.9	153.6	150.6	152.9
3363.5	52.5°	973.8	360.8	280.9	213.1	165.7	161.2	148.4	140.1	137.8	137.8
3186.5	55°	801.3	302.0	237.2	189.0	152.9	144.6	135.6	131.8	129.5	128.0
2938.8	57.5°	651.5	247.8	190.5	168.0	140.8	130.3	127.3	122.8	119.0	116.7
2731.6	60°	534.7	195.1	157.4	149.1	128.8	119.0	118.2	112.2	102.4	100.9
2560.7	62.5°	412.7	143.1	132.6	129.5	116.7	108.5	106.9	94.9	79.8	76.8
2318.2	65°	291.5	111.5	106.9	113.7	103.9	96.4	92.6	74.6	58.7	56.5
1940.1	67.5°	204.9	93.4	84.4	99.4	90.4	80.6	78.3	63.3	49.0	47.4
1467.1	70°	146.1	76.1	69.3	85.1	72.3	70.8	66.3	52.7	39.9	38.4
726.0	72.5°	103.2	58.0	53.5	73.8	49.7	61.0	54.2	40.7	30.1	28.6
247.0	75°	76.1	41.4	37.7	42.9	36.2	45.9	38.4	27.1	18.8	18.1
111.5	77.5°	55.7	26.4	22.6	21.1	21.1	28.6	21.1	11.3	8.3	7.5
56.5	80°	39.2	12.1	10.5	9.0	8.3	6.8	3.0	1.5	0.8	0.8
19.6	82.5°	23.3	5.3	5.3	3.8	2.3	0.0	0.0	0.0	0.0	0.0
7.5	85°	5.3	2.3	2.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0
3.0	87.5°	0.8	0.8	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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