

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: P950649

Luminaire Tested: **GALN-SB5A-750-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950649  
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-SB5A-750-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

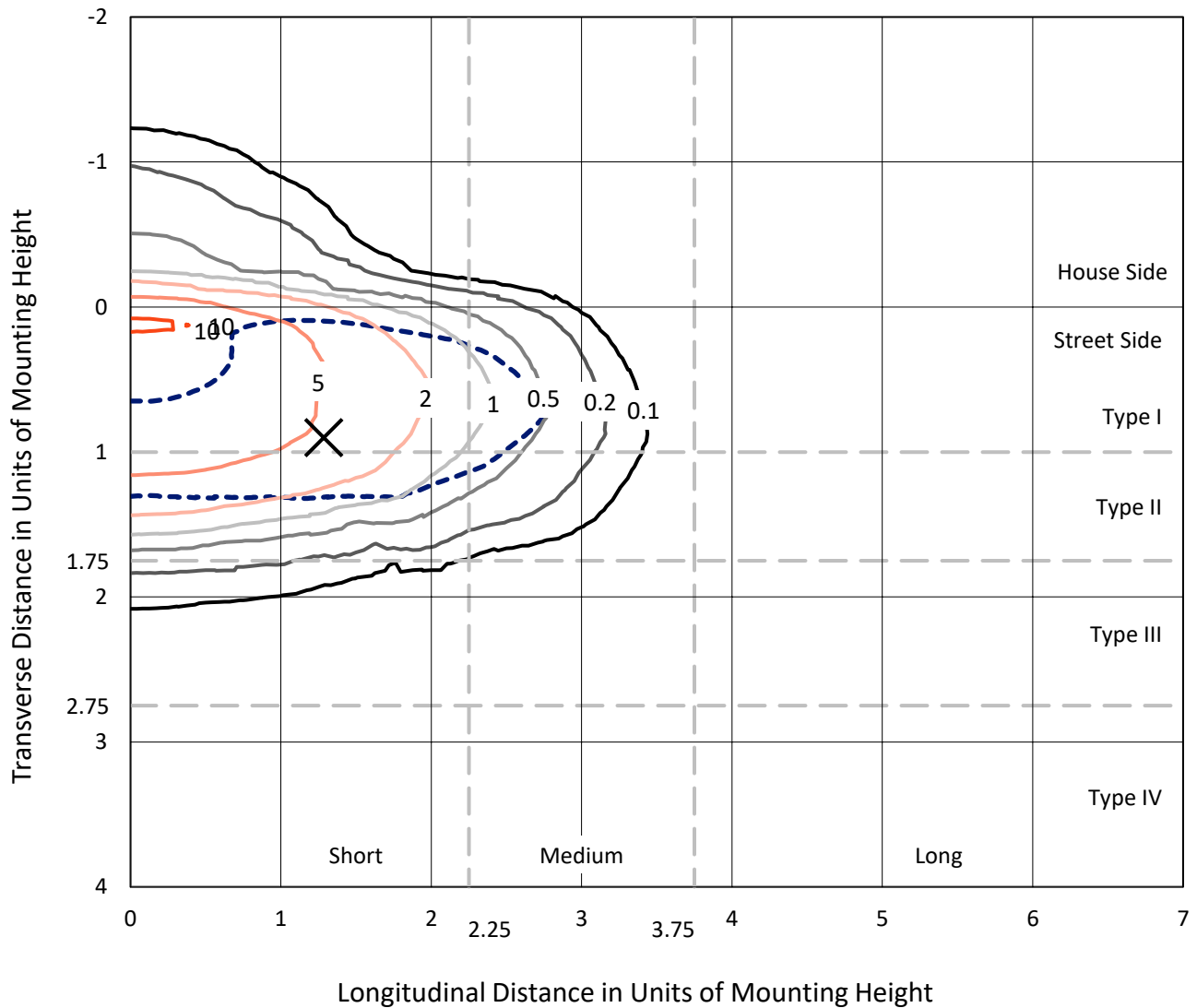
Lumens per Lamp: N/A  
Luminaire Lumens: 20440 lumens  
Efficiency: N/A  
Efficacy: 144.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

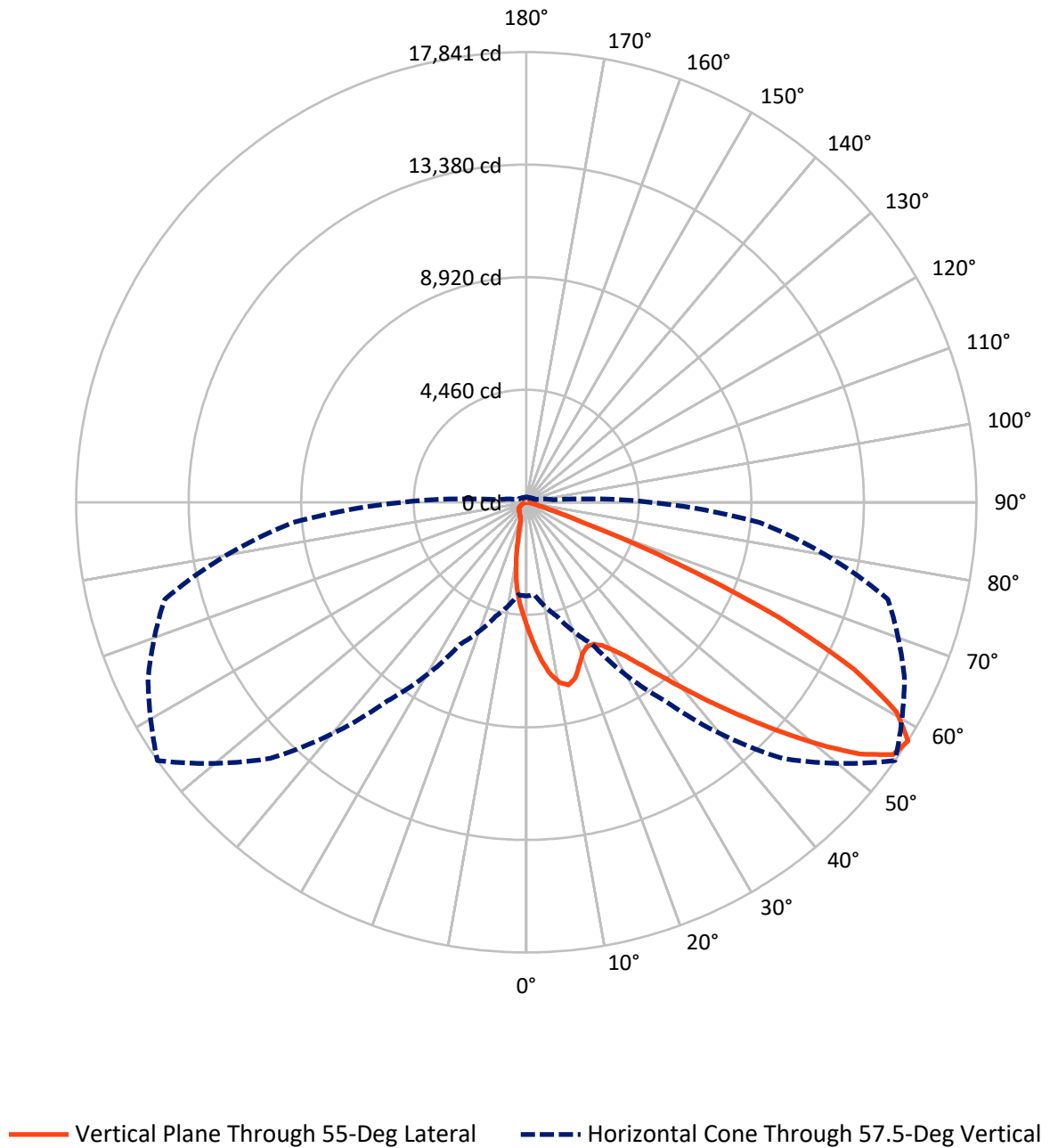
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1596.3	0.0	1596.3
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	18843.7	0.0	18843.7
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	20440.0	0.0	20440.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	458.3	2.2
10°-20°	1107.0	5.4
20°-30°	1771.2	8.7
30°-40°	2997.9	14.7
40°-50°	4921.9	24.1
50°-60°	5409.5	26.5
60°-70°	3102.9	15.2
70°-80°	634.0	3.1
80°-90°	37.4	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°	20440.0	100.0
0°-180°	20440.0	100.0

**Coefficient of Utilization**



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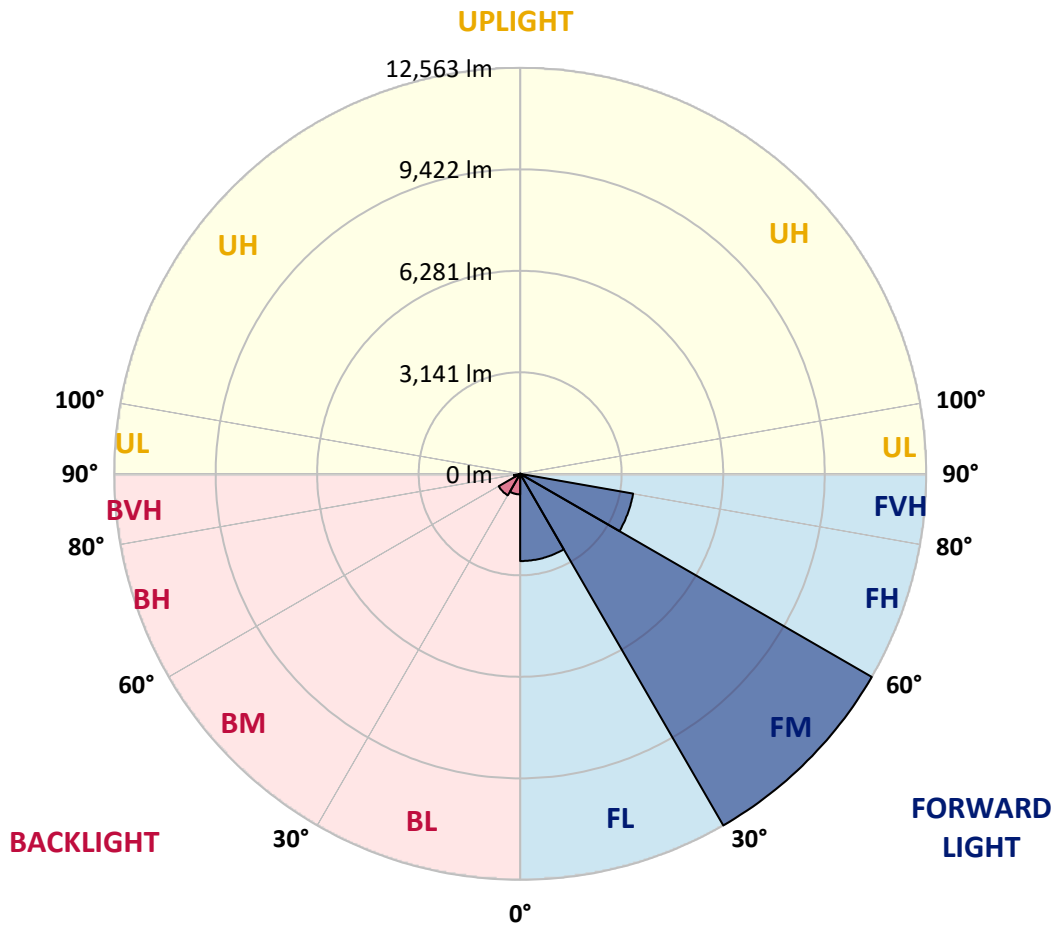
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2699.2	13.2			
FM (30°-60°)	12562.6	61.5			
FH (60°-80°)	3547.0	17.4			G2/5000
FVH (80°-90°)	34.9	0.2			G1/100
BL (0°-30°)	637.3	3.1	B2/1000		
BM (30°-60°)	766.6	3.8	B1/1000		
BH (60°-80°)	189.8	0.9	B1/500		G1/500
BVH (80°-90°)	2.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4925.5	4925.5	4925.5	4925.5	4925.5	4925.5	4925.5	4925.5	4925.5	4925.5
2.5°	6111.5	6034.7	6023.3	6008.2	5862.0	5752.3	5593.5	5419.6	5224.2	5025.1
5°	7060.6	7000.1	6988.8	6918.2	6751.8	6565.3	6283.0	5926.3	5562.0	5133.5
7.5°	7244.6	7233.3	7285.0	7282.4	7259.7	7112.3	6874.1	6449.3	5902.3	5267.1
10°	6424.1	6453.1	6606.9	6741.7	7106.0	7317.7	7266.0	6915.7	6252.7	5419.6
12.5°	5676.7	5642.7	5752.3	5904.8	6328.3	6958.5	7428.6	7305.1	6653.5	5592.3
15°	5207.9	5194.0	5255.8	5326.3	5649.0	6284.2	7239.6	7621.5	7039.2	5796.5
17.5°	5057.9	5046.5	5065.4	5083.1	5292.3	5783.9	6789.6	7815.6	7408.5	6029.6
20°	5180.1	5165.0	5162.5	5148.6	5235.6	5570.8	6382.5	7829.4	7739.9	6241.4
22.5°	5536.8	5519.2	5457.4	5402.0	5409.5	5599.8	6201.0	7690.8	7989.5	6439.2
25°	6183.4	6154.4	6025.8	5839.3	5720.8	5801.5	6228.8	7508.0	8227.7	6594.3
27.5°	6992.5	6954.7	6789.6	6512.3	6241.4	6143.1	6429.2	7382.0	8425.6	6712.7
30°	7785.3	7736.2	7573.6	7358.1	6962.3	6652.2	6790.9	7437.5	8661.3	6836.3
32.5°	8641.1	8594.5	8379.0	8111.8	7784.1	7366.9	7286.2	7708.4	8949.9	7008.9
35°	9723.8	9650.7	9344.4	8980.2	8632.3	8210.1	7956.7	8176.0	9334.3	7272.4
37.5°	10956.4	10858.1	10527.9	10025.0	9571.3	9098.6	8773.5	8818.8	9897.7	7625.3
40°	12118.5	12029.0	11724.0	11250.1	10680.4	10106.9	9760.3	9659.5	10675.4	8055.0
42.5°	12815.5	12734.8	12606.2	12405.8	11925.6	11340.8	10903.5	10685.4	11595.4	8569.3
45°	12854.5	12784.0	12956.6	13189.8	13095.3	12705.8	12172.7	11773.1	12519.3	9052.0
47.5°	12229.4	12181.5	12705.8	13520.0	13925.9	14089.7	13598.2	12770.1	13281.8	9398.6
50°	10525.4	10507.7	11586.6	13081.4	14242.2	15302.2	15101.8	13697.7	13872.9	9577.6
52.5°	9126.4	9062.1	9691.0	11677.4	13782.2	15939.9	16571.4	14607.7	14286.3	9611.6
55°	6922.0	6865.2	7654.2	9328.0	12298.7	15713.1	17646.5	15546.7	14582.5	9524.6
57.5°	3713.1	3677.8	4674.7	6208.6	9614.1	14351.9	17840.6	16539.9	14832.1	9294.0
60°	1445.6	1439.3	1812.4	3012.3	5843.1	11676.1	16861.3	17136.0	14988.4	9010.4
62.5°	874.7	893.6	954.1	1352.4	2581.2	7253.4	14603.9	16457.9	15093.0	8750.8
65°	723.5	724.7	732.3	928.9	1236.4	3035.0	10994.2	14227.1	14834.6	8288.2
67.5°	620.1	631.4	660.4	737.3	872.2	1331.0	6329.6	11020.7	13262.9	7211.9
70°	489.0	504.1	540.7	606.2	673.0	833.1	2339.3	7332.8	10132.1	5436.0
72.5°	412.1	410.9	429.8	492.8	534.4	586.1	899.9	4108.8	5888.5	2595.1
75°	318.9	331.5	355.4	412.1	437.3	424.7	487.8	1501.1	2109.9	786.5
77.5°	249.6	259.6	281.1	336.5	361.7	301.2	281.1	536.9	678.1	282.3
80°	112.2	121.0	191.6	248.3	294.9	208.0	152.5	274.8	301.2	128.6
82.5°	20.2	34.0	112.2	131.1	151.2	134.9	79.4	142.4	147.5	51.7
85°	1.3	2.5	39.1	47.9	60.5	44.1	23.9	56.7	49.2	17.6
87.5°	0.0	0.0	0.0	1.3	1.3	6.3	7.6	10.1	7.6	6.3
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°
4925.5	0°	4925.5	4925.5	4925.5	4925.5	4925.5	4925.5	4925.5	4925.5	4925.5	4925.5
4936.9	2.5°	4846.1	4667.2	4493.2	4350.8	4267.6	4126.5	4033.2	4018.1	3979.0	4013.0
4949.5	5°	4752.9	4432.7	4108.8	3818.9	3580.7	3273.2	3043.8	2946.8	2862.3	2891.3
4982.3	7.5°	4708.8	4203.3	3699.2	3203.9	2694.7	2203.1	1837.6	1685.1	1569.2	1585.5
5018.8	10°	4649.5	3965.1	3174.9	2418.7	1736.8	1251.6	999.5	906.2	854.5	855.8
5073.0	12.5°	4604.1	3680.3	2566.1	1639.7	1057.5	799.1	720.9	698.2	683.1	684.4
5154.9	15°	4581.5	3345.0	1964.9	1092.7	756.2	676.8	657.9	647.8	637.7	636.5
5245.7	17.5°	4543.6	2972.0	1438.1	797.8	661.7	634.0	617.6	606.2	593.6	591.1
5323.8	20°	4486.9	2548.5	1051.2	674.3	620.1	598.7	576.0	560.9	545.7	543.2
5373.0	22.5°	4382.3	2101.0	807.9	623.9	589.9	565.9	538.2	520.5	505.4	502.9
5349.0	25°	4188.2	1681.3	680.6	592.4	563.4	534.4	504.1	480.2	466.3	463.8
5297.3	27.5°	3942.4	1320.9	617.6	563.4	529.4	502.9	468.9	446.2	433.6	431.0
5229.3	30°	3652.6	1017.1	581.0	530.6	489.0	466.3	436.1	417.2	409.6	409.6
5181.4	32.5°	3340.0	812.9	565.9	497.8	453.7	428.5	404.6	397.0	394.5	393.2
5207.9	35°	3046.3	705.8	558.3	471.4	422.2	398.3	388.2	389.5	394.5	394.5
5289.8	37.5°	2785.4	671.8	554.6	452.5	394.5	373.1	379.4	390.7	385.7	385.7
5433.5	40°	2549.7	675.6	552.0	438.6	371.8	359.2	371.8	363.0	350.4	349.1
5608.7	42.5°	2369.5	707.1	547.0	427.3	357.9	349.1	344.1	330.2	329.0	331.5
5790.2	45°	2238.4	734.8	545.7	422.2	342.8	326.4	320.1	306.3	331.5	337.8
5864.5	47.5°	2083.4	734.8	545.7	404.6	317.6	311.3	301.2	286.1	311.3	317.6
5793.9	50°	1883.0	688.2	524.3	384.4	297.4	293.7	276.0	257.1	252.1	255.9
5628.8	52.5°	1629.7	603.7	470.1	356.7	277.3	269.7	248.3	234.4	230.6	230.6
5332.6	55°	1341.0	505.4	397.0	316.4	255.9	242.0	226.9	220.6	216.8	214.3
4918.0	57.5°	1090.2	414.7	318.9	281.1	235.7	218.0	213.0	205.4	199.1	195.4
4571.4	60°	894.9	326.4	263.4	249.6	215.5	199.1	197.9	187.8	171.4	168.9
4285.3	62.5°	690.7	239.5	221.8	216.8	195.4	181.5	179.0	158.8	133.6	128.6
3879.4	65°	487.8	186.5	179.0	190.3	173.9	161.3	155.0	124.8	98.3	94.5
3246.7	67.5°	342.8	156.3	141.2	166.4	151.2	134.9	131.1	105.9	81.9	79.4
2455.2	70°	244.5	127.3	116.0	142.4	121.0	118.5	110.9	88.2	66.8	64.3
1215.0	72.5°	172.7	97.0	89.5	123.5	83.2	102.1	90.7	68.1	50.4	47.9
413.4	75°	127.3	69.3	63.0	71.8	60.5	76.9	64.3	45.4	31.5	30.2
186.5	77.5°	93.3	44.1	37.8	35.3	35.3	47.9	35.3	18.9	13.9	12.6
94.5	80°	65.5	20.2	17.6	15.1	13.9	11.3	5.0	2.5	1.3	1.3
32.8	82.5°	39.1	8.8	8.8	6.3	3.8	0.0	0.0	0.0	0.0	0.0
12.6	85°	8.8	3.8	3.8	1.3	0.0	0.0	0.0	0.0	0.0	0.0
5.0	87.5°	1.3	1.3	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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