

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: P953631

Luminaire Tested: **GALN-SB7A-850-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953631  
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-SB7A-850-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

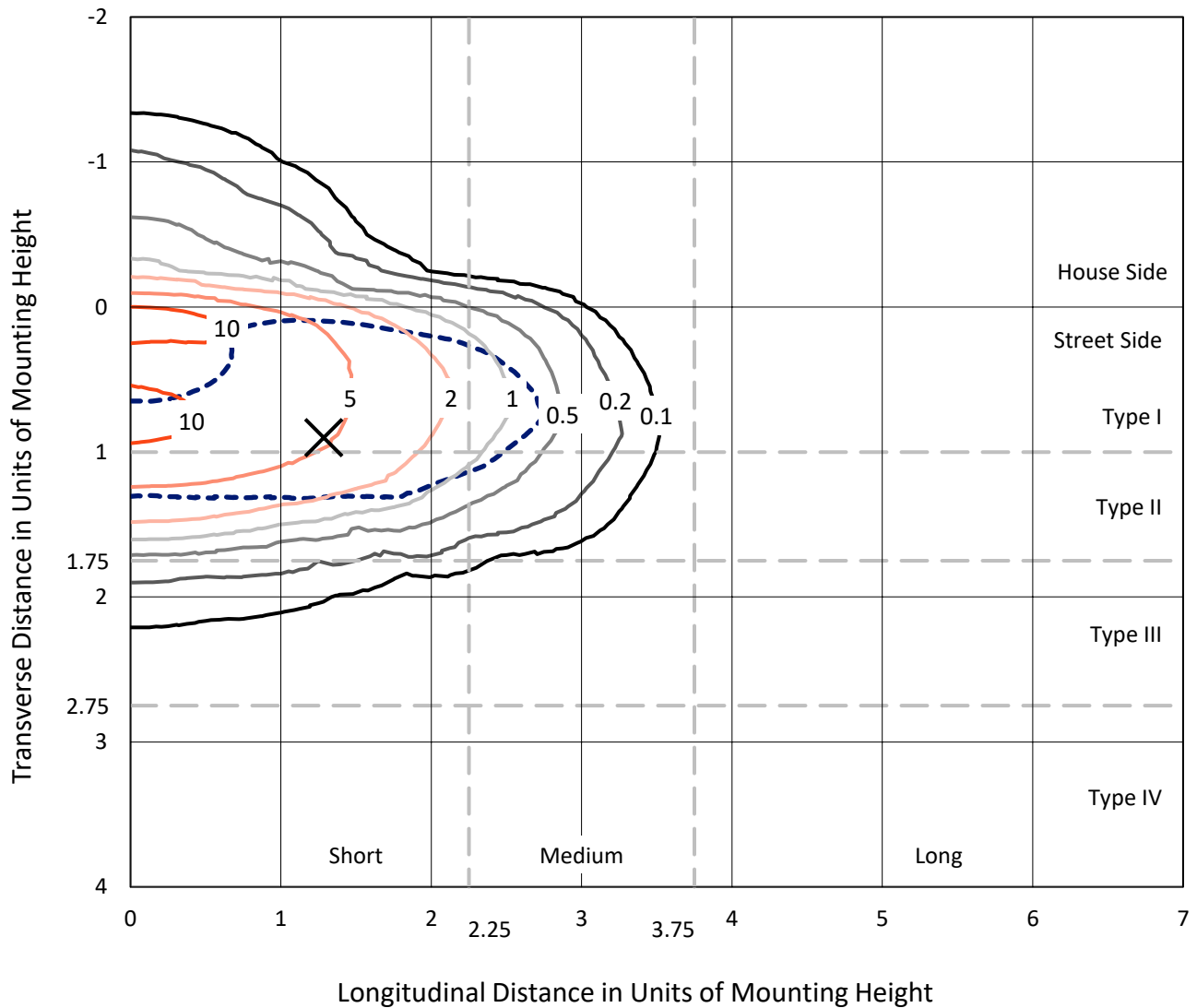
Lumens per Lamp: N/A  
Luminaire Lumens: 26017 lumens  
Efficiency: N/A  
Efficacy: 130.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 199.1  
Input Voltage (V): NR  
Input Current (Ain): 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

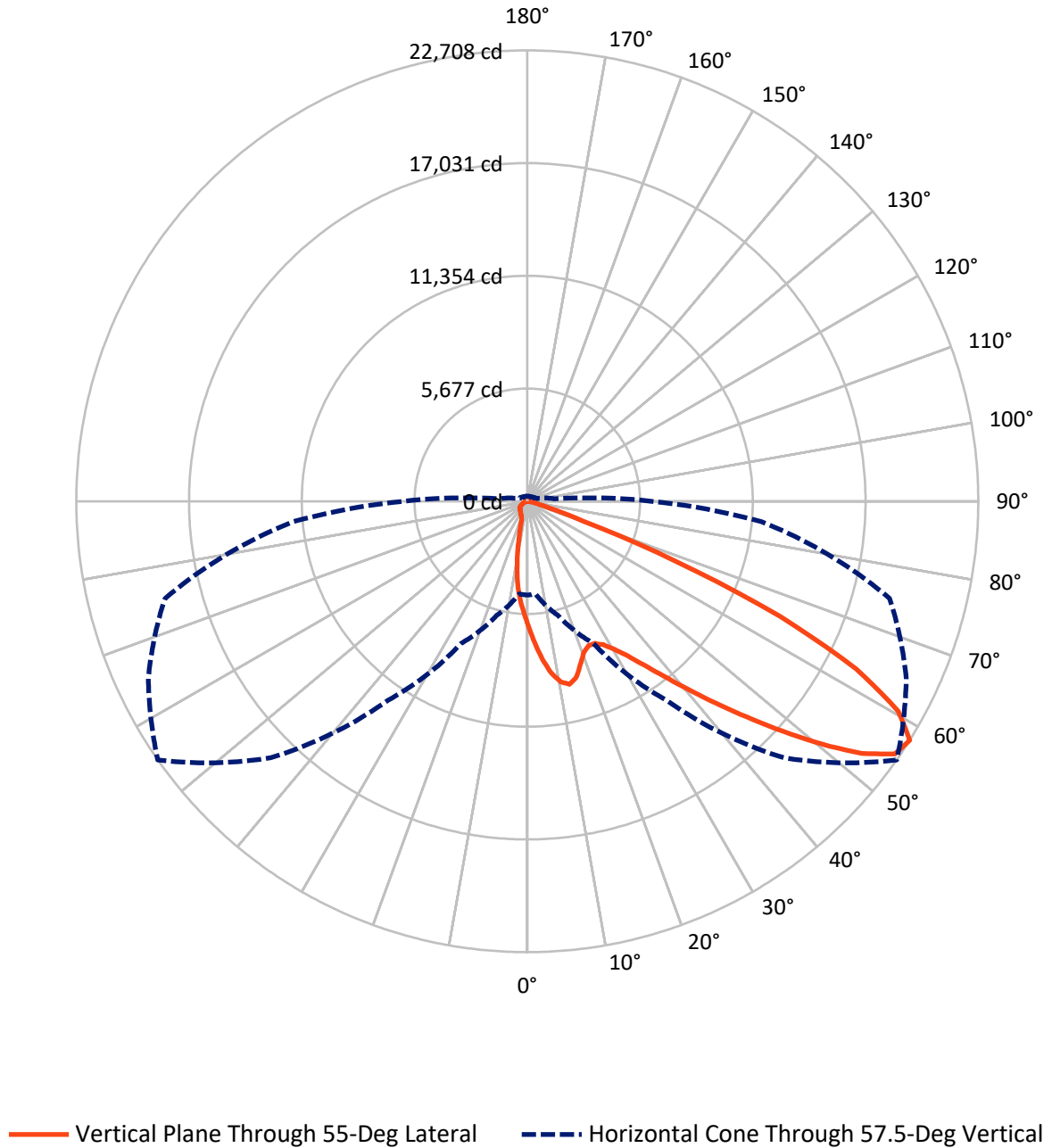
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 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	2031.8	0.0	2031.8
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	23985.2	0.0	23985.2
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	26017.0	0.0	26017.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	583.3	2.2
10°-20°	1409.1	5.4
20°-30°	2254.5	8.7
30°-40°	3815.8	14.7
40°-50°	6264.8	24.1
50°-60°	6885.4	26.5
60°-70°	3949.5	15.2
70°-80°	807.0	3.1
80°-90°	47.6	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°	26017.0	100.0
0°-180°	26017.0	100.0

**Coefficient of Utilization**



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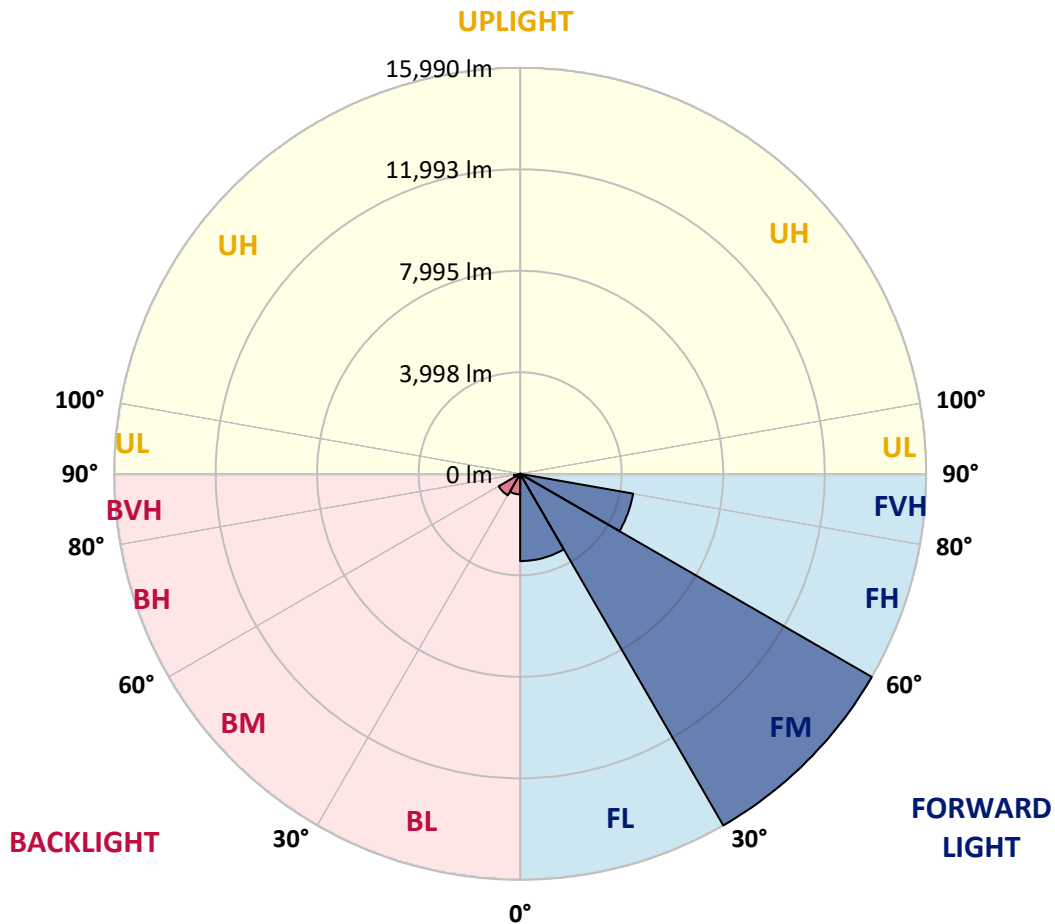
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3435.7	13.2			
FM (30°-60°)	15990.2	61.5			
FH (60°-80°)	4514.8	17.4			G2/5000
FVH (80°-90°)	44.4	0.2			G1/100
BL (0°-30°)	811.2	3.1	B2/1000		
BM (30°-60°)	975.8	3.8	B1/1000		
BH (60°-80°)	241.6	0.9	B1/500		G1/500
BVH (80°-90°)	3.2	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°	6269.5	6269.5	6269.5	6269.5	6269.5	6269.5	6269.5	6269.5	6269.5	6269.5
2.5°	7779.1	7681.2	7666.8	7647.5	7461.4	7321.9	7119.7	6898.3	6649.7	6396.2
5°	8987.1	8910.1	8895.6	8805.8	8594.0	8356.6	7997.2	7543.2	7079.6	6534.2
7.5°	9221.3	9206.9	9272.6	9269.4	9240.5	9052.9	8749.6	8209.0	7512.8	6704.2
10°	8176.9	8213.8	8409.5	8581.2	9044.8	9314.3	9248.6	8802.6	7958.7	6898.3
12.5°	7225.6	7182.3	7321.9	7516.0	8055.0	8857.1	9455.5	9298.3	8468.9	7118.1
15°	6628.8	6611.2	6689.8	6779.6	7190.3	7998.9	9214.9	9701.0	8959.8	7378.0
17.5°	6437.9	6423.5	6447.5	6470.0	6736.3	7362.0	8642.2	9948.0	9429.9	7674.8
20°	6593.5	6574.3	6571.1	6553.4	6664.1	7090.8	8124.0	9965.7	9851.8	7944.3
22.5°	7047.5	7025.1	6946.5	6875.9	6885.5	7127.7	7893.0	9789.2	10169.4	8196.2
25°	7870.5	7833.6	7670.0	7432.5	7281.7	7384.4	7928.3	9556.6	10472.6	8393.5
27.5°	8900.4	8852.3	8642.2	8289.2	7944.3	7819.2	8183.3	9396.2	10724.5	8544.3
30°	9909.5	9847.0	9640.0	9365.7	8861.9	8467.3	8643.8	9466.7	11024.5	8701.5
32.5°	10998.8	10939.5	10665.1	10325.0	9907.9	9376.9	9274.2	9811.7	11391.9	8921.3
35°	12376.9	12283.8	11894.0	11430.4	10987.6	10450.2	10127.7	10406.8	11881.2	9256.6
37.5°	13945.8	13820.7	13400.4	12760.3	12182.8	11581.2	11167.3	11225.0	12598.3	9705.8
40°	15425.0	15311.1	14922.8	14319.6	13594.5	12864.6	12423.4	12295.1	13588.1	10252.8
42.5°	16312.1	16209.5	16045.8	15790.8	15179.5	14435.1	13878.5	13600.9	14759.2	10907.4
45°	16361.9	16272.0	16491.8	16788.6	16668.3	16172.6	15494.0	14985.4	15935.1	11521.8
47.5°	15566.2	15505.2	16172.6	17208.9	17725.5	17934.0	17308.4	16254.4	16905.7	11963.0
50°	13397.2	13374.7	14748.0	16650.6	18128.2	19477.3	19222.3	17435.1	17658.1	12190.8
52.5°	11616.5	11534.6	12335.2	14863.5	17542.6	20289.1	21092.8	18593.4	18184.3	12234.1
55°	8810.6	8738.4	9742.7	11873.1	15654.4	20000.3	22461.3	19788.6	18561.3	12123.4
57.5°	4726.2	4681.2	5950.2	7902.6	12237.3	18267.7	22708.3	21052.7	18879.0	11829.8
60°	1840.1	1832.1	2306.9	3834.2	7437.4	14861.9	21461.8	21811.5	19077.9	11468.9
62.5°	1113.4	1137.4	1214.4	1721.4	3285.5	9232.5	18588.6	20948.5	19211.0	11138.4
65°	920.8	922.5	932.1	1182.3	1573.8	3863.1	13994.0	18108.9	18882.2	10549.6
67.5°	789.3	803.7	840.6	938.5	1110.1	1694.1	8056.6	14027.7	16881.6	9179.6
70°	622.5	641.7	688.2	771.7	856.7	1060.4	2977.5	9333.6	12896.7	6919.2
72.5°	524.6	523.0	547.1	627.3	680.2	746.0	1145.4	5229.9	7495.1	3303.2
75°	405.9	421.9	452.4	524.6	556.7	540.6	620.8	1910.7	2685.5	1001.1
77.5°	317.6	330.5	357.8	428.3	460.4	383.4	357.8	683.4	863.1	359.4
80°	142.8	154.0	243.8	316.0	375.4	264.7	194.1	349.7	383.4	163.6
82.5°	25.7	43.3	142.8	166.8	192.5	171.7	101.1	181.3	187.7	65.8
85°	1.6	3.2	49.7	61.0	77.0	56.1	30.5	72.2	62.6	22.5
87.5°	0.0	0.0	0.0	1.6	1.6	8.0	9.6	12.8	9.6	8.0
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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**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
6269.5	0°	6269.5	6269.5	6269.5	6269.5	6269.5	6269.5	6269.5	6269.5	6269.5	6269.5
6283.9	2.5°	6168.4	5940.6	5719.2	5537.9	5432.0	5252.4	5133.6	5114.4	5064.7	5108.0
6299.9	5°	6049.7	5642.2	5229.9	4860.9	4557.7	4166.3	3874.3	3750.8	3643.3	3680.2
6341.6	7.5°	5993.5	5350.2	4708.5	4078.0	3429.9	2804.2	2339.0	2144.9	1997.3	2018.2
6388.2	10°	5918.1	5047.0	4041.1	3078.6	2210.7	1593.0	1272.2	1153.5	1087.7	1089.3
6457.2	12.5°	5860.4	4684.4	3266.3	2087.1	1346.0	1017.1	917.6	888.8	869.5	871.1
6561.4	15°	5831.5	4257.7	2501.0	1390.9	962.6	861.5	837.4	824.6	811.8	810.2
6676.9	17.5°	5783.4	3782.8	1830.5	1015.5	842.2	806.9	786.1	771.7	755.6	752.4
6776.4	20°	5711.2	3243.8	1338.0	858.3	789.3	762.0	733.1	713.9	694.6	691.4
6839.0	22.5°	5578.0	2674.3	1028.3	794.1	750.8	720.3	685.0	662.6	643.3	640.1
6808.5	25°	5331.0	2140.1	866.3	754.0	717.1	680.2	641.7	611.2	593.6	590.4
6742.7	27.5°	5018.1	1681.3	786.1	717.1	673.8	640.1	596.8	567.9	551.9	548.7
6656.1	30°	4649.2	1294.6	739.6	675.4	622.5	593.6	555.1	531.0	521.4	521.4
6595.1	32.5°	4251.3	1034.7	720.3	633.7	577.5	545.4	515.0	505.3	502.1	500.5
6628.8	35°	3877.5	898.4	710.7	600.0	537.4	506.9	494.1	495.7	502.1	502.1
6733.1	37.5°	3545.4	855.1	705.9	575.9	502.1	474.9	482.9	497.3	490.9	490.9
6916.0	40°	3245.4	859.9	702.7	558.3	473.3	457.2	473.3	462.0	446.0	444.4
7139.0	42.5°	3016.0	900.0	696.2	543.8	455.6	444.4	438.0	420.3	418.7	421.9
7370.0	45°	2849.2	935.3	694.6	537.4	436.4	415.5	407.5	389.8	421.9	429.9
7464.6	47.5°	2651.8	935.3	694.6	515.0	404.3	396.3	383.4	364.2	396.3	404.3
7374.8	50°	2396.8	875.9	667.4	489.3	378.6	373.8	351.3	327.3	320.9	325.7
7164.6	52.5°	2074.3	768.4	598.4	454.0	352.9	343.3	316.0	298.4	293.6	293.6
6787.6	55°	1706.9	643.3	505.3	402.7	325.7	308.0	288.8	280.7	275.9	272.7
6259.8	57.5°	1387.7	527.8	405.9	357.8	300.0	277.5	271.1	261.5	253.5	248.7
5818.7	60°	1139.0	415.5	335.3	317.6	274.3	253.5	251.9	239.0	218.2	215.0
5454.5	62.5°	879.1	304.8	282.4	275.9	248.7	231.0	227.8	202.1	170.1	163.6
4937.9	65°	620.8	237.4	227.8	242.2	221.4	205.3	197.3	158.8	125.1	120.3
4132.6	67.5°	436.4	198.9	179.7	211.8	192.5	171.7	166.8	134.8	104.3	101.1
3125.1	70°	311.2	162.0	147.6	181.3	154.0	150.8	141.2	112.3	85.0	81.8
1546.5	72.5°	219.8	123.5	113.9	157.2	105.9	129.9	115.5	86.6	64.2	61.0
526.2	75°	162.0	88.2	80.2	91.4	77.0	97.9	81.8	57.8	40.1	38.5
237.4	77.5°	118.7	56.1	48.1	44.9	44.9	61.0	44.9	24.1	17.6	16.0
120.3	80°	83.4	25.7	22.5	19.3	17.6	14.4	6.4	3.2	1.6	1.6
41.7	82.5°	49.7	11.2	11.2	8.0	4.8	0.0	0.0	0.0	0.0	0.0
16.0	85°	11.2	4.8	4.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0
6.4	87.5°	1.6	1.6	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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