

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: P955500

Luminaire Tested: **GALN-SB8B-940-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955500  
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-SB8B-940-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

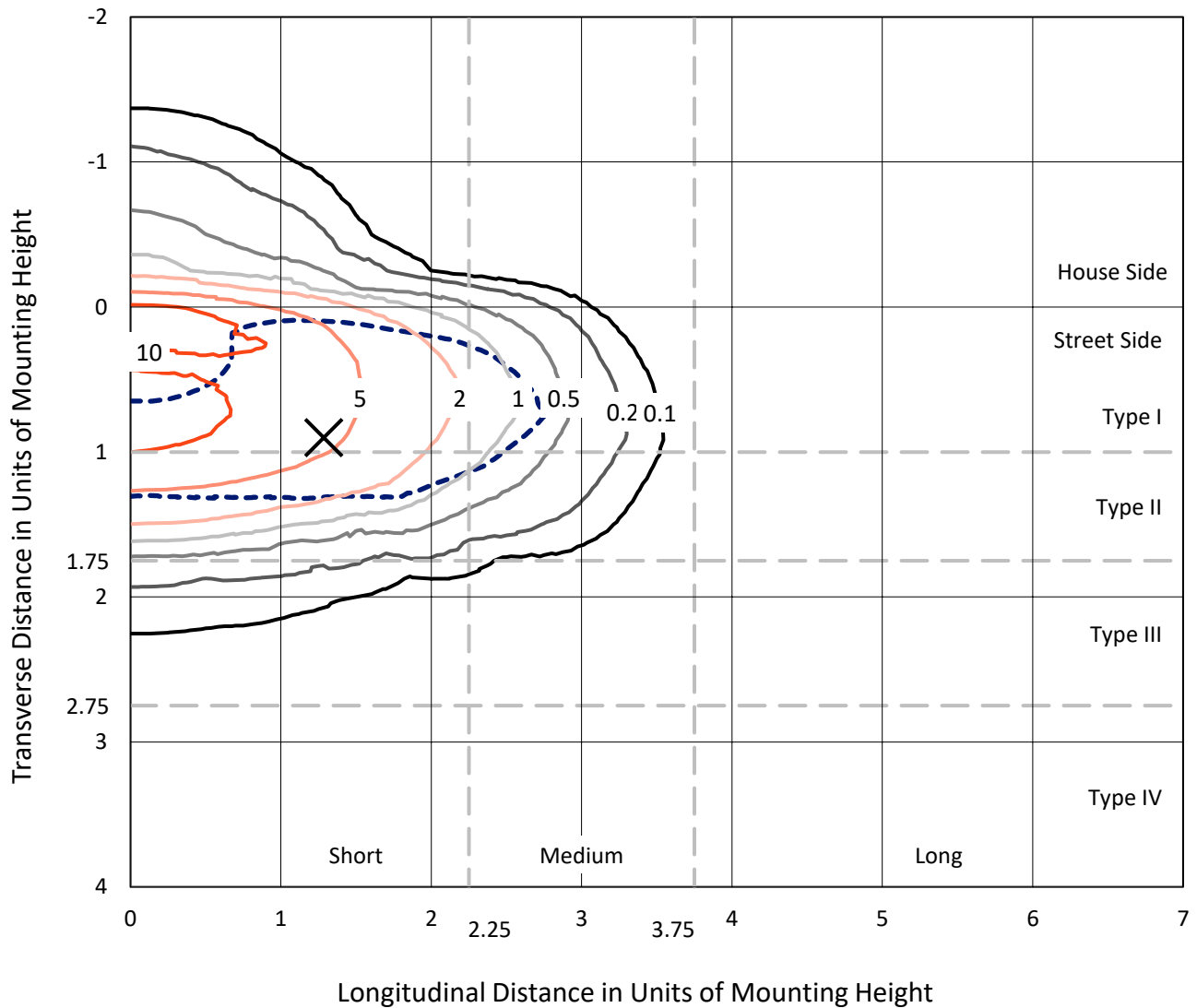
Lumens per Lamp: N/A  
Luminaire Lumens: 28133 lumens  
Efficiency: N/A  
Efficacy: 96.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 292.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

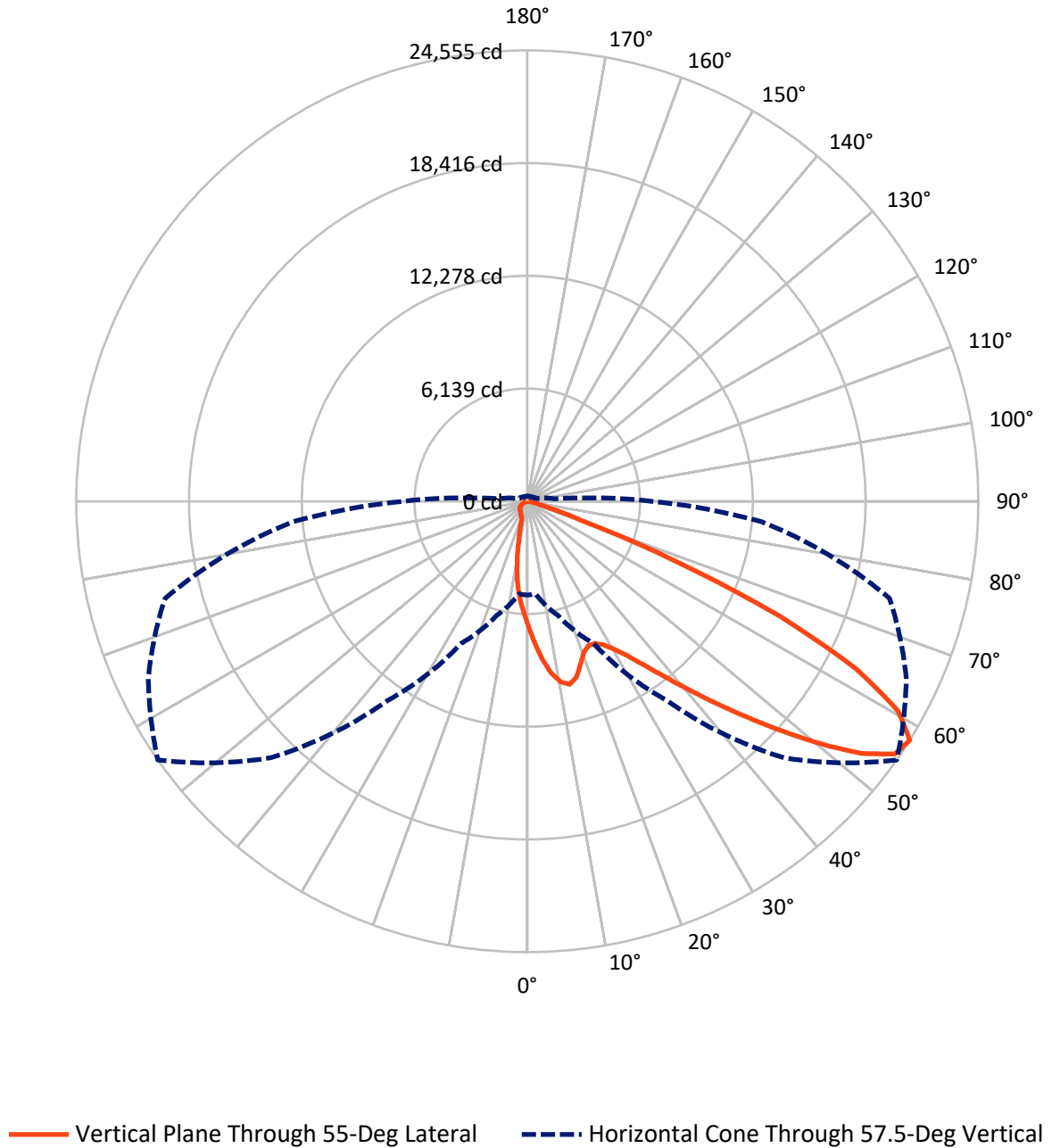
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.5 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	2197.1	0.0	2197.1
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	25935.9	0.0	25935.9
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	28133.0	0.0	28133.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	630.8	2.2
10°-20°	1523.7	5.4
20°-30°	2437.8	8.7
30°-40°	4126.2	14.7
40°-50°	6774.3	24.1
50°-60°	7445.4	26.5
60°-70°	4270.7	15.2
70°-80°	872.6	3.1
80°-90°	51.5	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°	28133.0	100.0
0°-180°	28133.0	100.0

**Coefficient of Utilization**



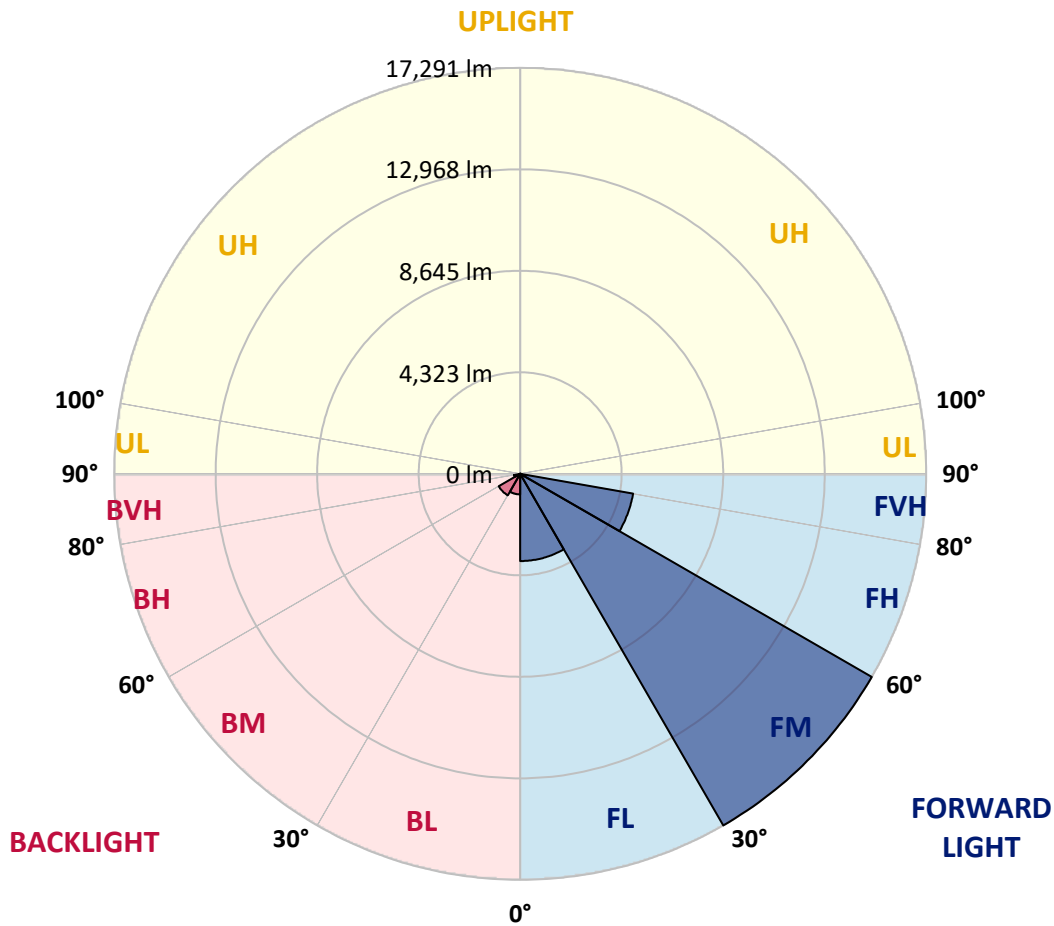
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3715.1	13.2			
FM (30°-60°)	17290.7	61.5			
FH (60°-80°)	4882.0	17.4			G2/5000
FVH (80°-90°)	48.0	0.2			G1/100
BL (0°-30°)	877.1	3.1	B2/1000		
BM (30°-60°)	1055.2	3.8	B2/2500		
BH (60°-80°)	261.3	0.9	B1/500		G1/500
BVH (80°-90°)	3.5	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°	6779.4	6779.4	6779.4	6779.4	6779.4	6779.4	6779.4	6779.4	6779.4	6779.4
2.5°	8411.7	8305.9	8290.3	8269.5	8068.3	7917.3	7698.8	7459.4	7190.5	6916.4
5°	9718.0	9634.7	9619.1	9522.0	9293.0	9036.3	8647.7	8156.7	7655.4	7065.6
7.5°	9971.3	9955.7	10026.8	10023.3	9992.1	9789.1	9461.3	8876.7	8123.8	7249.5
10°	8842.0	8881.9	9093.5	9279.1	9780.5	10071.9	10000.8	9518.5	8606.0	7459.4
12.5°	7813.3	7766.4	7917.3	8127.3	8710.1	9577.5	10224.6	10054.5	9157.7	7697.0
15°	7167.9	7148.9	7233.9	7331.0	7775.1	8649.4	9964.3	10490.0	9688.5	7978.1
17.5°	6961.5	6945.9	6971.9	6996.2	7284.2	7960.7	9345.0	10757.1	10196.8	8299.0
20°	7129.8	7109.0	7105.5	7086.4	7206.1	7667.5	8784.7	10776.2	10653.0	8590.4
22.5°	7620.7	7596.4	7511.4	7435.1	7445.5	7707.4	8534.9	10585.4	10996.5	8862.8
25°	8510.6	8470.7	8293.8	8037.0	7874.0	7985.0	8573.1	10333.8	11324.4	9076.2
27.5°	9624.3	9572.3	9345.0	8963.4	8590.4	8455.1	8848.9	10160.4	11596.7	9239.2
30°	10715.5	10647.8	10424.0	10127.4	9582.7	9156.0	9346.8	10236.7	11921.1	9409.2
32.5°	11893.4	11829.2	11532.5	11164.8	10713.7	10139.5	10028.5	10609.7	12318.4	9646.9
35°	13383.5	13282.9	12861.4	12360.0	11881.2	11300.1	10951.4	11253.3	12847.5	10009.4
37.5°	15080.1	14944.8	14490.3	13798.1	13173.6	12523.1	12075.5	12138.0	13622.9	10495.2
40°	16679.5	16556.3	16136.5	15484.3	14700.2	13910.9	13433.8	13295.0	14693.2	11086.7
42.5°	17638.8	17527.8	17350.9	17075.0	16414.1	15609.2	15007.2	14707.1	15959.6	11794.5
45°	17692.6	17595.5	17833.1	18154.0	18023.9	17487.9	16754.1	16204.2	17231.2	12458.9
47.5°	16832.2	16766.3	17487.9	18608.5	19167.1	19392.6	18716.1	17576.4	18280.7	12935.9
50°	14486.8	14462.5	15947.5	18004.9	19602.5	21061.5	20785.6	18853.1	19094.3	13182.3
52.5°	12561.2	12472.8	13338.4	16072.4	18969.4	21939.2	22808.3	20105.6	19663.3	13229.1
55°	9527.2	9449.1	10535.1	12838.8	16927.6	21627.0	24288.1	21398.0	20070.9	13109.4
57.5°	5110.5	5062.0	6434.1	8545.3	13232.6	19753.5	24555.2	22765.0	20414.4	12792.0
60°	1989.7	1981.1	2494.6	4146.0	8042.2	16070.6	23207.3	23585.5	20629.5	12401.6
62.5°	1203.9	1229.9	1313.2	1861.4	3552.7	9983.4	20100.4	22652.2	20773.5	12044.3
65°	995.7	997.5	1007.9	1278.5	1701.8	4177.3	15132.1	19581.7	20417.9	11407.6
67.5°	853.5	869.1	909.0	1014.8	1200.4	1831.9	8711.9	15168.6	18254.7	9926.2
70°	673.1	693.9	744.2	834.4	926.4	1146.7	3219.7	10092.7	13945.6	7481.9
72.5°	567.3	565.5	591.5	678.3	735.5	806.7	1238.6	5655.2	8104.7	3571.8
75°	438.9	456.2	489.2	567.3	602.0	584.6	671.3	2066.1	2904.0	1082.5
77.5°	343.5	357.4	386.8	463.2	497.9	414.6	386.8	739.0	933.3	388.6
80°	154.4	166.5	263.7	341.7	405.9	286.2	209.9	378.2	414.6	176.9
82.5°	27.8	46.8	154.4	180.4	208.2	185.6	109.3	196.0	203.0	71.1
85°	1.7	3.5	53.8	65.9	83.3	60.7	33.0	78.1	67.7	24.3
87.5°	0.0	0.0	0.0	1.7	1.7	8.7	10.4	13.9	10.4	8.7
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°
6779.4	0°	6779.4	6779.4	6779.4	6779.4	6779.4	6779.4	6779.4	6779.4	6779.4	6779.4
6795.0	2.5°	6670.1	6423.7	6184.3	5988.3	5873.8	5679.5	5551.2	5530.3	5476.6	5523.4
6812.3	5°	6541.7	6101.1	5655.2	5256.3	4928.4	4505.1	4189.4	4055.8	3939.6	3979.5
6857.4	7.5°	6481.0	5785.4	5091.5	4409.7	3708.9	3032.3	2529.2	2319.3	2159.7	2182.3
6907.7	10°	6399.5	5457.5	4369.8	3329.0	2390.5	1722.6	1375.6	1247.3	1176.2	1177.9
6982.3	12.5°	6337.0	5065.4	3531.9	2256.9	1455.4	1099.8	992.3	961.0	940.2	942.0
7095.1	15°	6305.8	4604.0	2704.5	1504.0	1040.8	931.6	905.5	891.7	877.8	876.0
7220.0	17.5°	6253.7	4090.5	1979.3	1098.1	910.7	872.6	850.0	834.4	817.1	813.6
7327.5	20°	6175.7	3507.6	1446.8	928.1	853.5	824.0	792.8	772.0	751.1	747.7
7395.2	22.5°	6031.7	2891.8	1112.0	858.7	811.9	778.9	740.7	716.4	695.6	692.2
7362.2	25°	5764.5	2314.1	936.8	815.3	775.4	735.5	693.9	660.9	641.9	638.4
7291.1	27.5°	5426.3	1818.0	850.0	775.4	728.6	692.2	645.3	614.1	596.8	593.3
7197.4	30°	5027.3	1399.9	799.7	730.3	673.1	641.9	600.2	574.2	563.8	563.8
7131.5	32.5°	4597.1	1118.9	778.9	685.2	624.5	589.8	556.9	546.4	543.0	541.2
7167.9	35°	4192.9	971.5	768.5	648.8	581.1	548.2	534.3	536.0	543.0	543.0
7280.7	37.5°	3833.8	924.6	763.3	622.8	543.0	513.5	522.2	537.8	530.8	530.8
7478.5	40°	3509.4	929.8	759.8	603.7	511.7	494.4	511.7	499.6	482.3	480.5
7719.6	42.5°	3261.3	973.2	752.9	588.1	492.7	480.5	473.6	454.5	452.8	456.2
7969.4	45°	3080.9	1011.4	751.1	581.1	471.8	449.3	440.6	421.5	456.2	464.9
8071.7	47.5°	2867.5	1011.4	751.1	556.9	437.2	428.5	414.6	393.8	428.5	437.2
7974.6	50°	2591.7	947.2	721.7	529.1	409.4	404.2	379.9	353.9	346.9	352.2
7747.3	52.5°	2243.0	830.9	647.1	490.9	381.6	371.2	341.7	322.7	317.5	317.5
7339.7	55°	1845.8	695.6	546.4	435.4	352.2	333.1	312.3	303.6	298.4	294.9
6769.0	57.5°	1500.5	570.7	438.9	386.8	324.4	300.1	293.2	282.8	274.1	268.9
6291.9	60°	1231.7	449.3	362.6	343.5	296.6	274.1	272.4	258.5	235.9	232.5
5898.1	62.5°	950.6	329.6	305.3	298.4	268.9	249.8	246.3	218.6	183.9	176.9
5339.5	65°	671.3	256.7	246.3	261.9	239.4	222.0	213.4	171.7	135.3	130.1
4468.7	67.5°	471.8	215.1	194.3	229.0	208.2	185.6	180.4	145.7	112.8	109.3
3379.3	70°	336.5	175.2	159.6	196.0	166.5	163.1	152.7	121.4	91.9	88.5
1672.3	72.5°	237.7	133.6	123.2	170.0	114.5	140.5	124.9	93.7	69.4	65.9
569.0	75°	175.2	95.4	86.7	98.9	83.3	105.8	88.5	62.5	43.4	41.6
256.7	77.5°	128.4	60.7	52.0	48.6	48.6	65.9	48.6	26.0	19.1	17.3
130.1	80°	90.2	27.8	24.3	20.8	19.1	15.6	6.9	3.5	1.7	1.7
45.1	82.5°	53.8	12.1	12.1	8.7	5.2	0.0	0.0	0.0	0.0	0.0
17.3	85°	12.1	5.2	5.2	1.7	0.0	0.0	0.0	0.0	0.0	0.0
6.9	87.5°	1.7	1.7	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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