

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: P953547

Luminaire Tested: **GALN-SB7A-827-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953547
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-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 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: 23652 lumens
Efficiency: N/A
Efficacy: 118.8 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

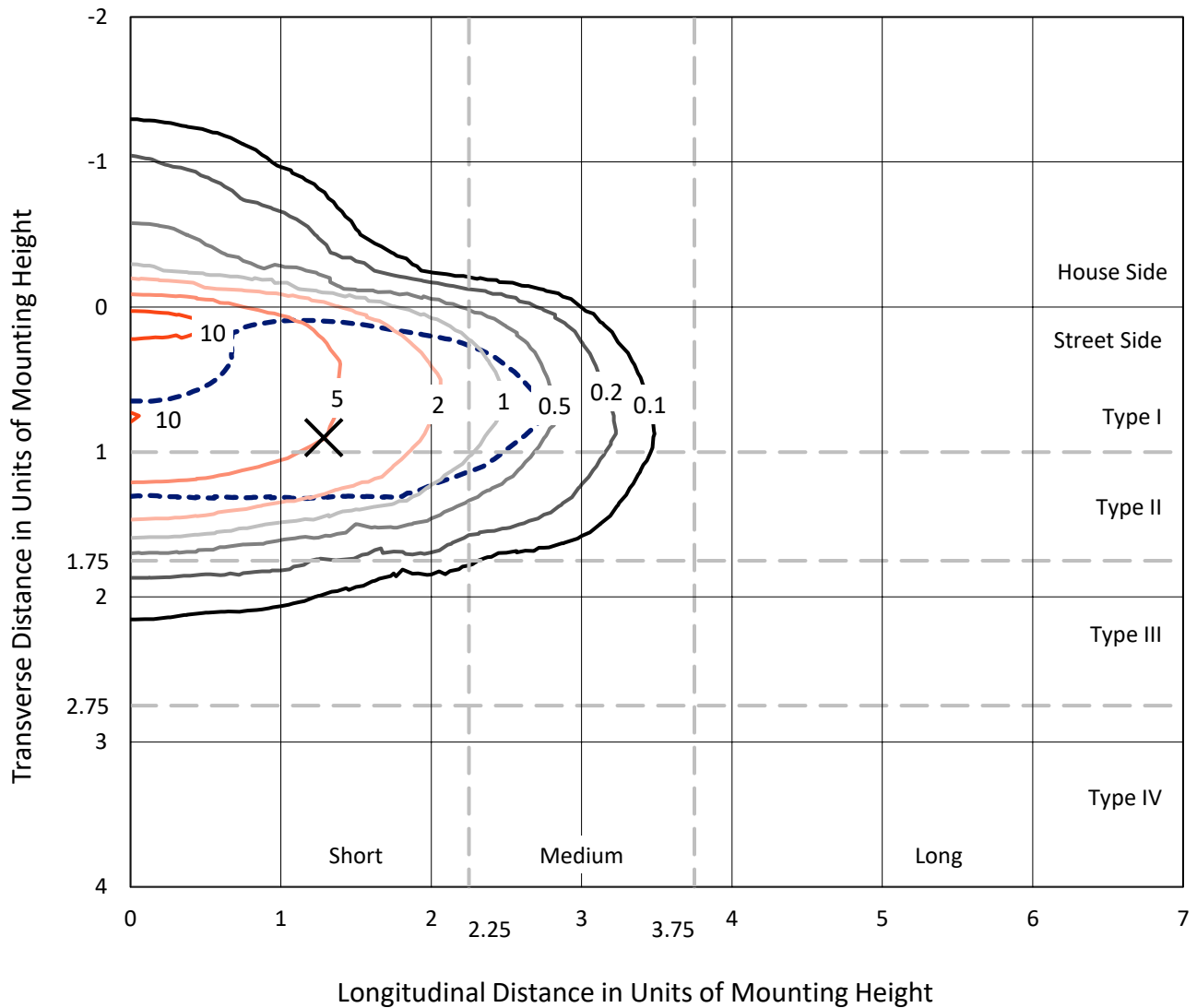
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

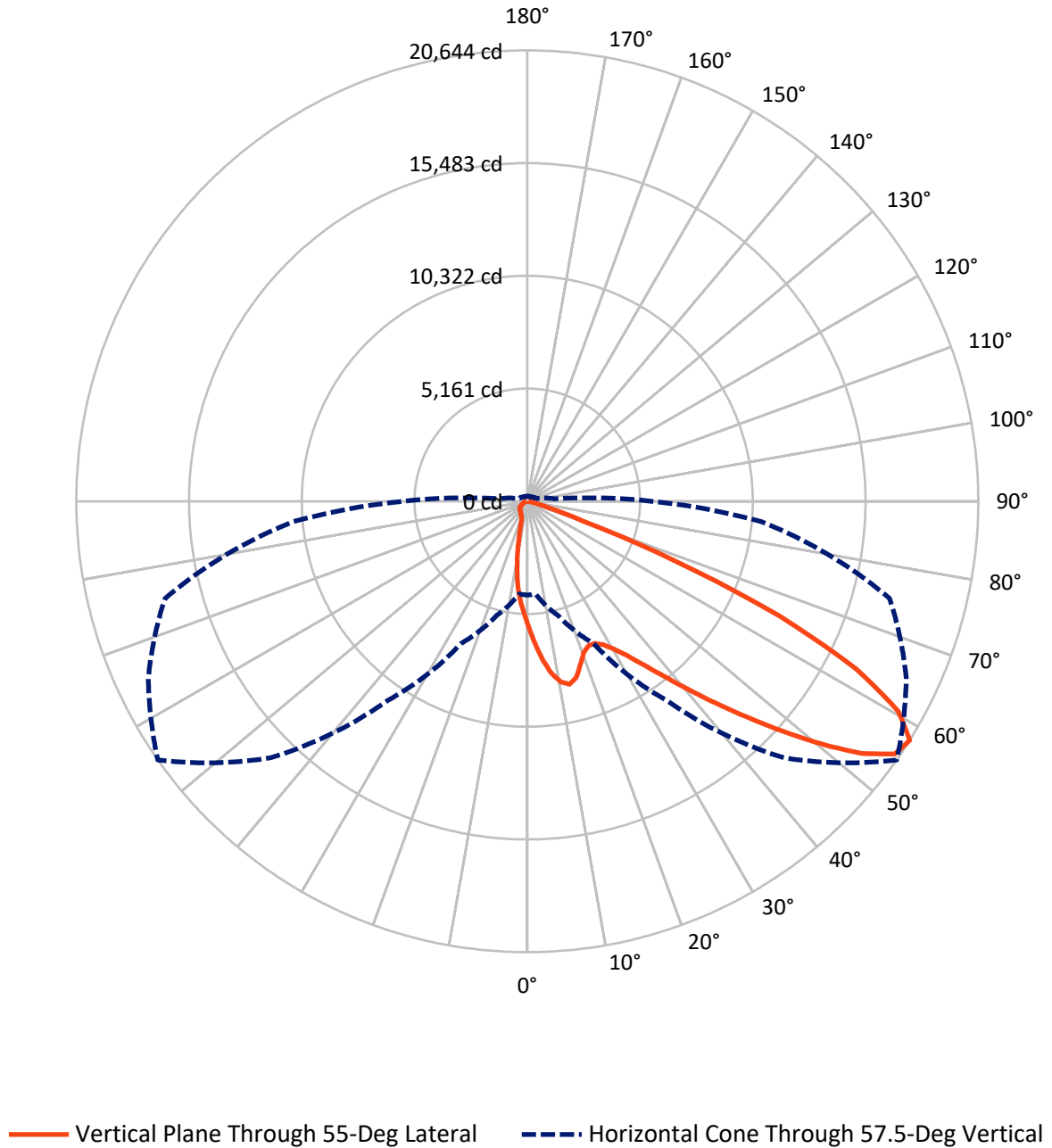
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1847.1	0.0	1847.1
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	21804.9	0.0	21804.9
	% Fixture	92.2	0.0	92.2
Total	Lumens	23652.0	0.0	23652.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	530.3	2.2
10°-20°	1281.0	5.4
20°-30°	2049.5	8.7
30°-40°	3469.0	14.7
40°-50°	5695.3	24.1
50°-60°	6259.5	26.5
60°-70°	3590.5	15.2
70°-80°	733.6	3.1
80°-90°	43.3	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°	23652.0	100.0
0°-180°	23652.0	100.0

Coefficient of Utilization



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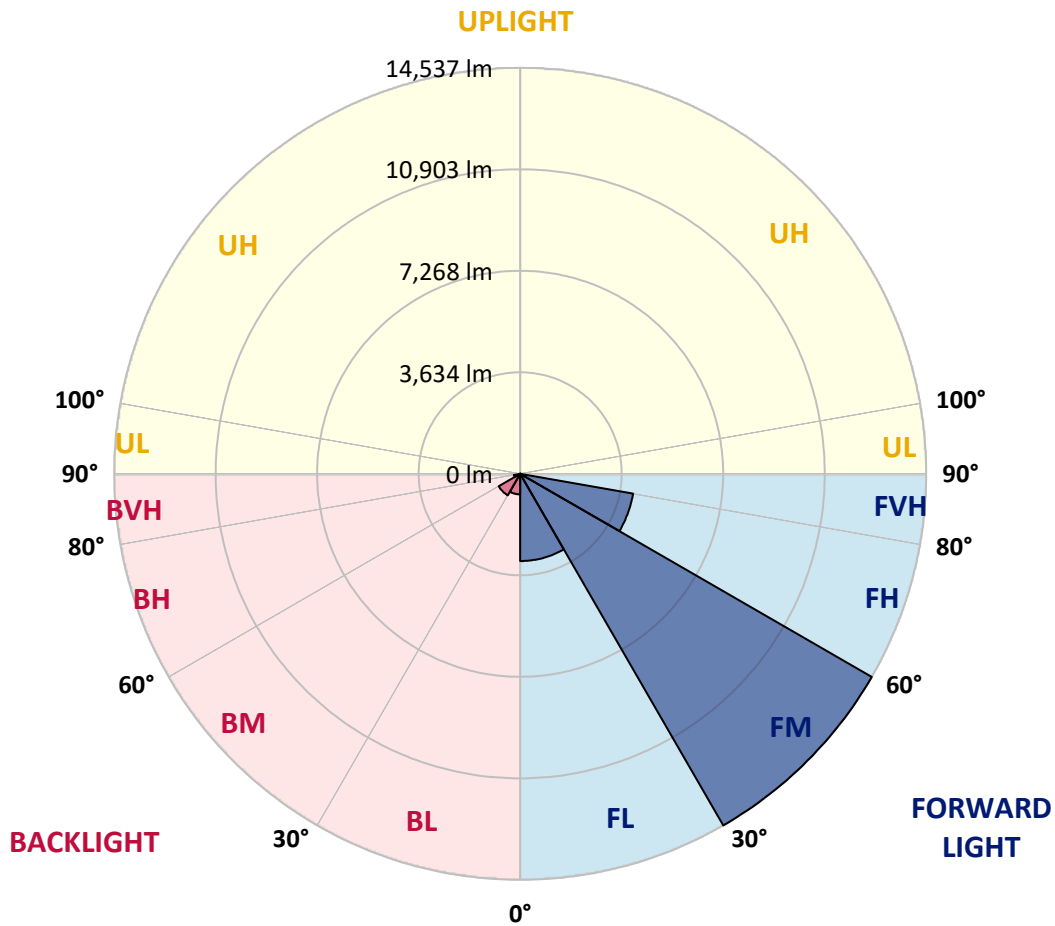
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3123.4	13.2			
FM (30°-60°)	14536.7	61.5			
FH (60°-80°)	4104.4	17.4			G2/5000
FVH (80°-90°)	40.4	0.2			G1/100
BL (0°-30°)	737.4	3.1	B2/1000		
BM (30°-60°)	887.1	3.8	B1/1000		
BH (60°-80°)	219.7	0.9	B1/500		G1/500
BVH (80°-90°)	2.9	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°	5699.5	5699.5	5699.5	5699.5	5699.5	5699.5	5699.5	5699.5	5699.5	5699.5
2.5°	7071.9	6983.0	6969.8	6952.3	6783.2	6656.3	6472.5	6271.3	6045.2	5814.8
5°	8170.1	8100.1	8087.0	8005.3	7812.8	7597.0	7270.3	6857.5	6436.1	5940.2
7.5°	8383.1	8369.9	8429.7	8426.8	8400.6	8229.9	7954.3	7462.8	6829.8	6094.8
10°	7433.6	7467.2	7645.1	7801.1	8222.6	8467.7	8407.9	8002.4	7235.3	6271.3
12.5°	6568.8	6529.4	6656.3	6832.8	7322.8	8052.0	8596.0	8453.1	7699.1	6471.1
15°	6026.2	6010.2	6081.7	6163.3	6536.7	7271.7	8377.2	8819.1	8145.3	6707.3
17.5°	5852.7	5839.6	5861.4	5881.9	6124.0	6692.7	7856.6	9043.7	8572.7	6977.1
20°	5994.2	5976.7	5973.7	5957.7	6058.3	6446.3	7385.5	9059.8	8956.2	7222.2
22.5°	6406.9	6386.5	6315.0	6250.8	6259.6	6479.8	7175.5	8899.3	9245.0	7451.1
25°	7155.1	7121.5	6972.8	6756.9	6619.8	6713.2	7207.6	8687.9	9520.6	7630.5
27.5°	8091.4	8047.6	7856.6	7535.7	7222.2	7108.4	7439.5	8542.0	9749.6	7767.6
30°	9008.7	8951.9	8763.7	8514.3	8056.4	7697.6	7858.0	8606.2	10022.3	7910.5
32.5°	9999.0	9945.0	9695.7	9386.5	9007.3	8524.5	8431.2	8919.8	10356.3	8110.3
35°	11251.8	11167.2	10812.8	10391.3	9988.8	9500.2	9207.1	9460.8	10801.1	8415.1
37.5°	12678.1	12564.4	12182.3	11600.4	11075.3	10528.4	10152.1	10204.6	11453.1	8823.5
40°	14022.8	13919.3	13566.3	13018.0	12358.7	11695.2	11294.1	11177.4	12352.9	9320.8
42.5°	14829.3	14736.0	14587.2	14355.3	13799.7	13123.0	12616.9	12364.6	13417.6	9915.9
45°	14874.5	14792.9	14992.7	15262.5	15153.1	14702.4	14085.5	13623.2	14486.6	10474.5
47.5°	14151.2	14095.7	14702.4	15644.6	16114.2	16303.8	15735.0	14776.8	15368.9	10875.5
50°	12179.4	12158.9	13407.4	15137.1	16480.3	17706.8	17474.9	15850.2	16053.0	11082.6
52.5°	10560.5	10486.1	11213.9	13512.4	15947.9	18444.8	19175.5	16903.2	16531.3	11122.0
55°	8009.7	7944.1	8857.1	10793.8	14231.4	18182.3	20419.5	17989.7	16874.0	11021.4
57.5°	4296.5	4255.7	5409.3	7184.2	11124.9	16607.2	20644.1	19139.0	17162.8	10754.5
60°	1672.8	1665.5	2097.2	3485.7	6761.3	13510.9	19510.9	19828.8	17343.7	10426.3
62.5°	1012.2	1034.0	1104.0	1564.9	2986.9	8393.3	16898.8	19044.2	17464.7	10125.9
65°	837.1	838.6	847.3	1074.9	1430.7	3511.9	12721.9	16462.8	17165.7	9590.6
67.5°	717.5	730.7	764.2	853.2	1009.2	1540.1	7324.2	12752.5	15347.1	8345.1
70°	565.9	583.4	625.7	701.5	778.8	964.0	2706.8	8485.2	11724.3	6290.2
72.5°	476.9	475.4	497.3	570.2	618.4	678.2	1041.3	4754.5	6813.8	3002.9
75°	369.0	383.6	411.3	476.9	506.1	491.5	564.4	1737.0	2441.4	910.1
77.5°	288.8	300.4	325.2	389.4	418.6	348.6	325.2	621.3	784.6	326.7
80°	129.8	140.0	221.7	287.3	341.3	240.6	176.5	317.9	348.6	148.8
82.5°	23.3	39.4	129.8	151.7	175.0	156.1	91.9	164.8	170.6	59.8
85°	1.5	2.9	45.2	55.4	70.0	51.0	27.7	65.6	56.9	20.4
87.5°	0.0	0.0	0.0	1.5	1.5	7.3	8.8	11.7	8.8	7.3
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°
5699.5	0°	5699.5	5699.5	5699.5	5699.5	5699.5	5699.5	5699.5	5699.5	5699.5	5699.5
5712.7	2.5°	5607.7	5400.6	5199.3	5034.5	4938.2	4774.9	4667.0	4649.5	4604.3	4643.6
5727.3	5°	5499.7	5129.3	4754.5	4419.0	4143.4	3787.5	3522.1	3409.8	3312.1	3345.6
5765.2	7.5°	5448.7	4863.9	4280.5	3707.3	3118.1	2549.3	2126.4	1949.9	1815.7	1834.7
5807.5	10°	5380.2	4588.2	3673.8	2798.7	2009.7	1448.2	1156.5	1048.6	988.8	990.3
5870.2	12.5°	5327.6	4258.6	2969.4	1897.4	1223.6	924.6	834.2	808.0	790.5	791.9
5965.0	15°	5301.4	3870.7	2273.7	1264.5	875.1	783.2	761.3	749.6	738.0	736.5
6070.0	17.5°	5257.6	3439.0	1664.1	923.2	765.7	733.6	714.6	701.5	686.9	684.0
6160.4	20°	5192.0	2948.9	1216.3	780.3	717.5	692.8	666.5	649.0	631.5	628.6
6217.3	22.5°	5071.0	2431.2	934.9	721.9	682.5	654.8	622.8	602.3	584.8	581.9
6189.6	25°	4846.4	1945.5	787.6	685.5	651.9	618.4	583.4	555.7	539.6	536.7
6129.8	27.5°	4562.0	1528.4	714.6	651.9	612.5	581.9	542.5	516.3	501.7	498.8
6051.0	30°	4226.5	1177.0	672.3	614.0	565.9	539.6	504.6	482.7	474.0	474.0
5995.6	32.5°	3864.8	940.7	654.8	576.1	525.0	495.9	468.2	459.4	456.5	455.0
6026.2	35°	3525.0	816.7	646.1	545.5	488.6	460.9	449.2	450.7	456.5	456.5
6121.0	37.5°	3223.1	777.3	641.7	523.6	456.5	431.7	439.0	452.1	446.3	446.3
6287.3	40°	2950.4	781.7	638.8	507.5	430.2	415.7	430.2	420.0	405.4	404.0
6490.0	42.5°	2741.9	818.2	633.0	494.4	414.2	404.0	398.2	382.1	380.7	383.6
6700.0	45°	2590.2	850.3	631.5	488.6	396.7	377.7	370.4	354.4	383.6	390.9
6786.1	47.5°	2410.8	850.3	631.5	468.2	367.5	360.2	348.6	331.1	360.2	367.5
6704.4	50°	2178.9	796.3	606.7	444.8	344.2	339.8	319.4	297.5	291.7	296.1
6513.4	52.5°	1885.8	698.6	544.0	412.7	320.9	312.1	287.3	271.3	266.9	266.9
6170.6	55°	1551.8	584.8	459.4	366.1	296.1	280.0	262.5	255.2	250.9	247.9
5690.8	57.5°	1261.5	479.8	369.0	325.2	272.7	252.3	246.5	237.7	230.4	226.1
5289.7	60°	1035.5	377.7	304.8	288.8	249.4	230.4	229.0	217.3	198.3	195.4
4958.7	62.5°	799.2	277.1	256.7	250.9	226.1	210.0	207.1	183.8	154.6	148.8
4489.1	65°	564.4	215.8	207.1	220.2	201.3	186.7	179.4	144.4	113.8	109.4
3756.9	67.5°	396.7	180.8	163.3	192.5	175.0	156.1	151.7	122.5	94.8	91.9
2841.0	70°	282.9	147.3	134.2	164.8	140.0	137.1	128.3	102.1	77.3	74.4
1405.9	72.5°	199.8	112.3	103.5	142.9	96.3	118.1	105.0	78.8	58.3	55.4
478.4	75°	147.3	80.2	72.9	83.1	70.0	89.0	74.4	52.5	36.5	35.0
215.8	77.5°	107.9	51.0	43.8	40.8	40.8	55.4	40.8	21.9	16.0	14.6
109.4	80°	75.8	23.3	20.4	17.5	16.0	13.1	5.8	2.9	1.5	1.5
37.9	82.5°	45.2	10.2	10.2	7.3	4.4	0.0	0.0	0.0	0.0	0.0
14.6	85°	10.2	4.4	4.4	1.5	0.0	0.0	0.0	0.0	0.0	0.0
5.8	87.5°	1.5	1.5	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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