

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: P954450

Luminaire Tested: **GALN-SB7C-950-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954450
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-SB7C-950-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 5000K, 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: 31590 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

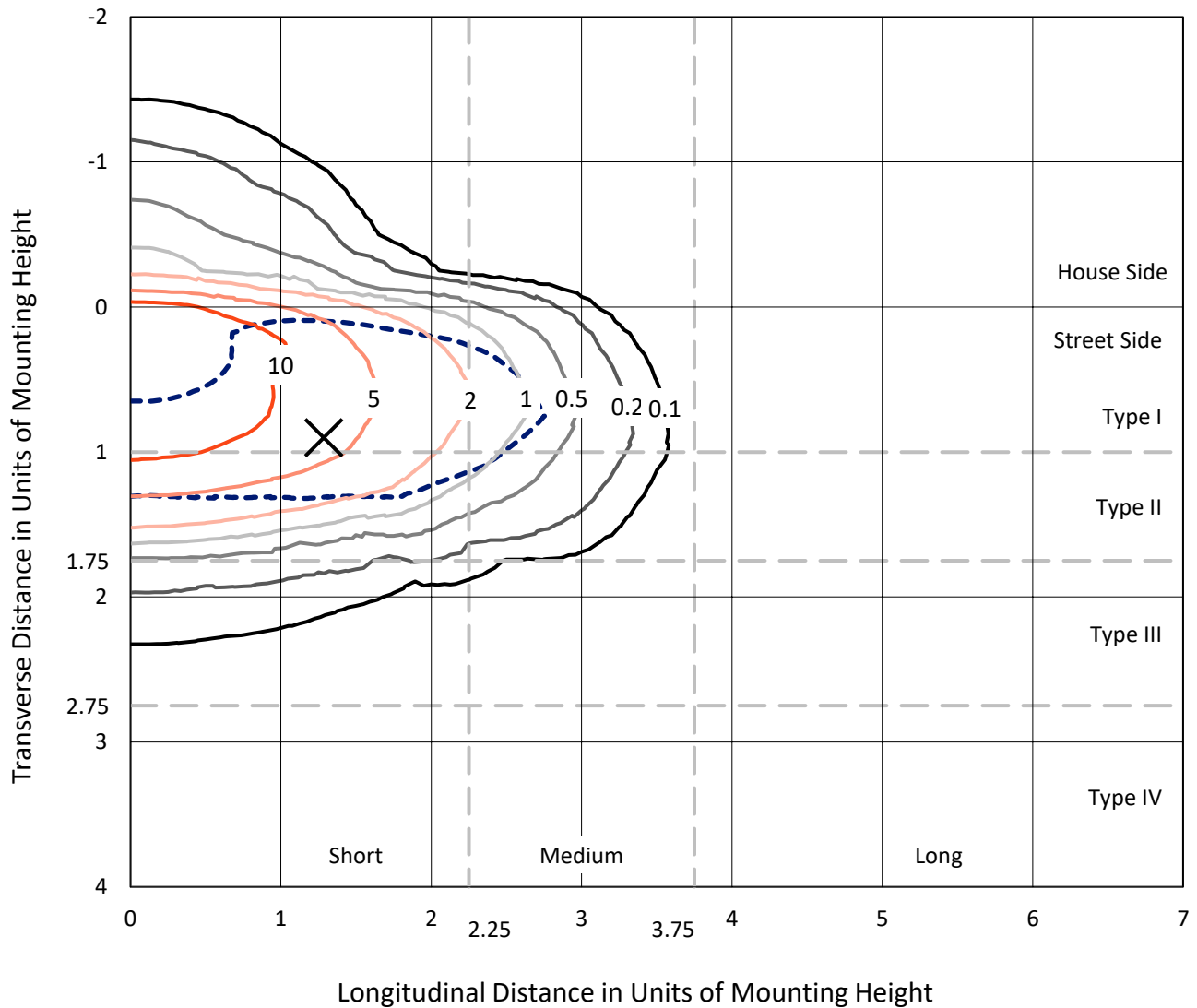
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

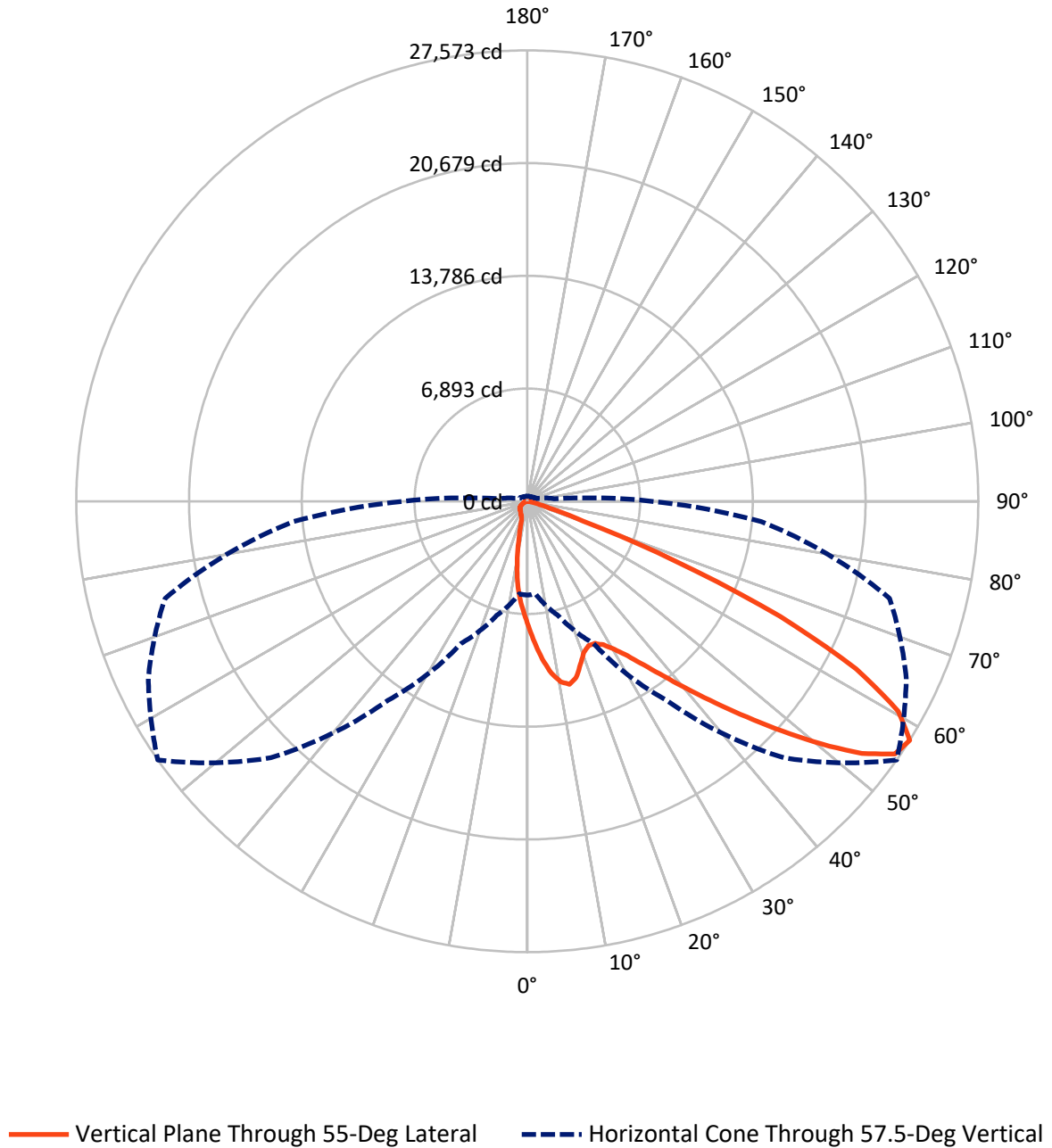
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.4 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	2467.0	0.0	2467.0
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	29122.9	0.0	29122.9
	% Fixture	92.2	0.0	92.2
Total	Lumens	31590.0	0.0	31590.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	708.3	2.2
10°-20°	1710.9	5.4
20°-30°	2737.4	8.7
30°-40°	4633.2	14.7
40°-50°	7606.7	24.1
50°-60°	8360.3	26.5
60°-70°	4795.5	15.2
70°-80°	979.9	3.1
80°-90°	57.8	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°	31590.0	100.0
0°-180°	31590.0	100.0

Coefficient of Utilization



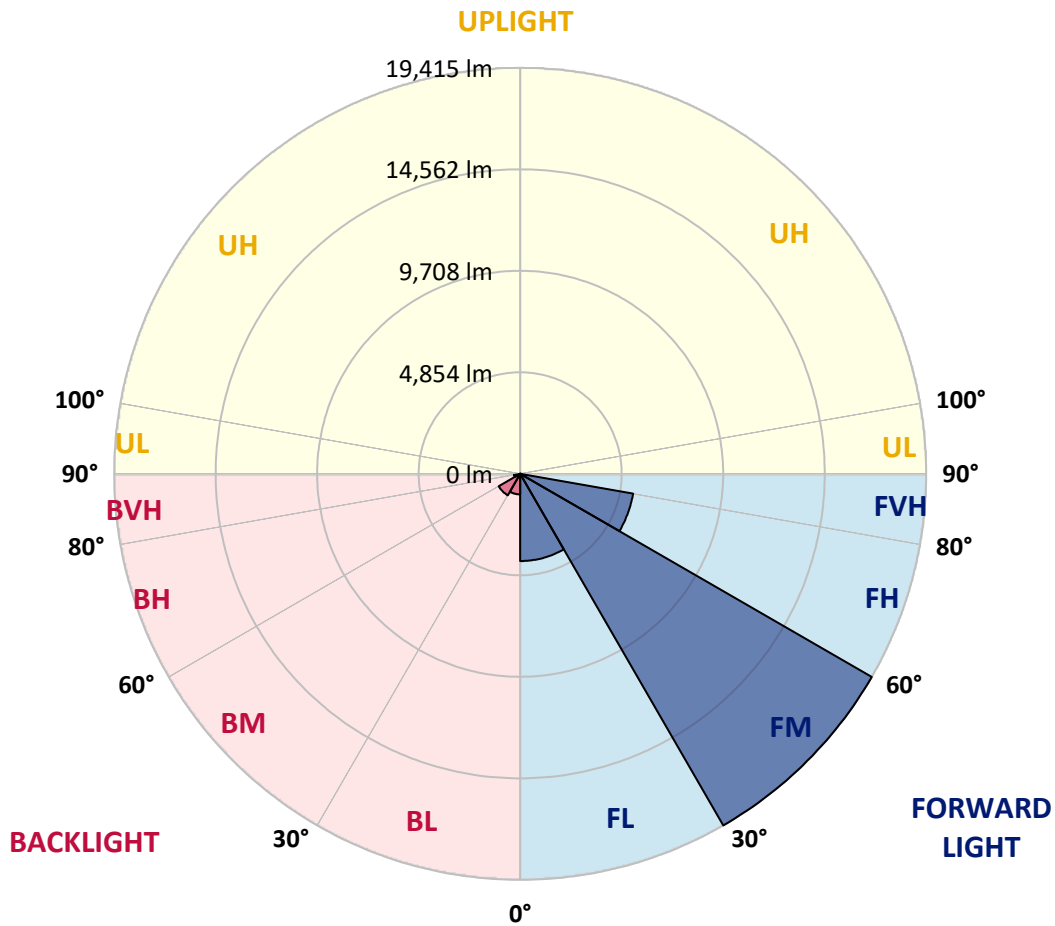
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4171.7	13.2			
FM (30°-60°)	19415.4	61.5			
FH (60°-80°)	5482.0	17.4			G3/7500
FVH (80°-90°)	53.9	0.2			G1/100
BL (0°-30°)	984.9	3.1	B2/1000		
BM (30°-60°)	1184.8	3.8	B2/2500		
BH (60°-80°)	293.4	0.9	B1/500		G1/500
BVH (80°-90°)	3.9	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7612.4	7612.4	7612.4	7612.4	7612.4	7612.4	7612.4	7612.4	7612.4	7612.4
2.5°	9445.4	9326.6	9309.0	9285.7	9059.7	8890.2	8644.8	8376.0	8074.1	7766.3
5°	10912.2	10818.7	10801.1	10692.0	10434.9	10146.6	9710.3	9159.0	8596.1	7933.8
7.5°	11196.6	11179.0	11258.9	11255.0	11219.9	10992.0	10623.9	9967.4	9122.0	8140.3
10°	9928.5	9973.3	10210.9	10419.3	10982.3	11309.5	11229.7	10688.2	9663.6	8376.0
12.5°	8773.4	8720.8	8890.2	9125.9	9780.4	10754.4	11481.0	11290.1	10283.0	8642.9
15°	8048.7	8027.3	8122.8	8231.8	8730.5	9712.3	11188.8	11779.0	10879.0	8958.4
17.5°	7816.9	7799.4	7828.6	7855.9	8179.3	8938.9	10493.4	12079.0	11449.8	9318.8
20°	8005.9	7982.5	7978.6	7957.2	8091.6	8609.7	9864.2	12100.4	11962.1	9646.0
22.5°	8557.1	8529.9	8434.4	8348.7	8360.4	8654.5	9583.7	11886.1	12347.8	9951.8
25°	9556.4	9511.6	9312.9	9024.6	8841.5	8966.2	9626.5	11603.7	12715.9	10191.4
27.5°	10807.0	10748.5	10493.4	10064.8	9646.0	9494.1	9936.3	11408.9	13021.7	10374.5
30°	12032.2	11956.2	11705.0	11371.9	10760.2	10281.0	10495.3	11494.6	13386.0	10565.4
32.5°	13354.8	13282.8	12949.7	12536.7	12030.3	11385.5	11260.8	11913.4	13832.1	10832.3
35°	15028.1	14915.1	14441.8	13878.8	13341.2	12688.7	12297.1	12636.1	14426.2	11239.4
37.5°	16933.1	16781.2	16270.8	15493.6	14792.4	14061.9	13559.4	13629.5	15296.9	11784.8
40°	18729.1	18590.8	18119.4	17387.0	16506.5	15620.2	15084.6	14928.7	16498.8	12449.1
42.5°	19806.3	19681.6	19482.9	19173.2	18431.1	17527.2	16851.3	16514.3	17920.7	13243.8
45°	19866.7	19757.6	20024.5	20384.8	20238.7	19636.8	18812.9	18195.4	19348.5	13989.9
47.5°	18900.5	18826.5	19636.8	20895.2	21522.4	21775.6	21015.9	19736.2	20527.0	14525.5
50°	16267.0	16239.7	17907.1	20217.3	22011.3	23649.5	23339.8	21169.8	21440.6	14802.1
52.5°	14104.8	14005.4	14977.4	18047.3	21300.3	24635.2	25611.1	22576.2	22079.5	14854.7
55°	10697.9	10610.2	11829.6	14416.4	19007.7	24284.5	27272.6	24027.4	22537.3	14720.3
57.5°	5738.5	5684.0	7224.8	9595.4	14858.6	22180.8	27572.6	25562.4	22922.9	14363.8
60°	2234.2	2224.5	2801.1	4655.5	9030.5	18045.4	26059.1	26483.7	23164.5	13925.6
62.5°	1351.8	1381.1	1474.6	2090.1	3989.3	11210.2	22570.4	25435.7	23326.2	13524.3
65°	1118.1	1120.0	1131.7	1435.6	1910.9	4690.6	16991.6	21987.9	22926.8	12809.4
67.5°	958.4	975.9	1020.7	1139.5	1348.0	2057.0	9782.4	17032.5	20497.8	11145.9
70°	755.8	779.2	835.7	936.9	1040.2	1287.6	3615.3	11332.9	15659.2	8401.3
72.5°	637.0	635.0	664.2	761.6	825.9	905.8	1390.8	6350.2	9100.6	4010.7
75°	492.8	512.3	549.3	637.0	675.9	656.4	753.8	2320.0	3260.8	1215.5
77.5°	385.7	401.3	434.4	520.1	559.0	465.5	434.4	829.8	1048.0	436.3
80°	173.4	187.0	296.1	383.7	455.8	321.4	235.7	424.6	465.5	198.7
82.5°	31.2	52.6	173.4	202.6	233.7	208.4	122.7	220.1	227.9	79.9
85°	1.9	3.9	60.4	74.0	93.5	68.2	37.0	87.7	76.0	27.3
87.5°	0.0	0.0	0.0	1.9	1.9	9.7	11.7	15.6	11.7	9.7
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°
7612.4	0°	7612.4	7612.4	7612.4	7612.4	7612.4	7612.4	7612.4	7612.4	7612.4	7612.4
7629.9	2.5°	7489.7	7213.1	6944.3	6724.2	6595.6	6377.4	6233.3	6209.9	6149.5	6202.1
7649.4	5°	7345.5	6850.8	6350.2	5902.2	5534.0	5058.7	4704.2	4554.2	4423.7	4468.5
7700.1	7.5°	7277.4	6496.3	5717.1	4951.6	4164.6	3404.9	2840.0	2604.3	2425.1	2450.5
7756.6	10°	7185.8	6128.1	4906.8	3738.0	2684.2	1934.3	1544.7	1400.5	1320.7	1322.6
7840.3	12.5°	7115.7	5687.9	3965.9	2534.2	1634.3	1235.0	1114.2	1079.1	1055.8	1057.7
7966.9	15°	7080.6	5169.7	3036.8	1688.8	1168.7	1046.0	1016.8	1001.2	985.6	983.7
8107.2	17.5°	7022.2	4593.2	2222.6	1233.0	1022.6	979.8	954.5	936.9	917.5	913.6
8227.9	20°	6934.5	3938.7	1624.6	1042.1	958.4	925.3	890.2	866.8	843.4	839.5
8303.9	22.5°	6772.9	3247.2	1248.6	964.2	911.6	874.6	831.8	804.5	781.1	777.2
8266.9	25°	6472.9	2598.5	1051.9	915.5	870.7	825.9	779.2	742.2	720.7	716.8
8187.0	27.5°	6093.0	2041.4	954.5	870.7	818.1	777.2	724.6	689.6	670.1	666.2
8081.9	30°	5645.0	1572.0	898.0	820.1	755.8	720.7	674.0	644.8	633.1	633.1
8007.8	32.5°	5161.9	1256.4	874.6	769.4	701.2	662.3	625.3	613.6	609.7	607.7
8048.7	35°	4708.1	1090.8	862.9	728.5	652.5	615.5	600.0	601.9	609.7	609.7
8175.4	37.5°	4304.9	1038.2	857.1	699.3	609.7	576.6	586.3	603.9	596.1	596.1
8397.4	40°	3940.6	1044.1	853.2	677.9	574.6	555.2	574.6	561.0	541.5	539.6
8668.2	42.5°	3662.1	1092.8	845.4	660.3	553.2	539.6	531.8	510.4	508.4	512.3
8948.7	45°	3459.5	1135.6	843.4	652.5	529.8	504.5	494.8	473.3	512.3	522.0
9063.6	47.5°	3219.9	1135.6	843.4	625.3	490.9	481.1	465.5	442.2	481.1	490.9
8954.5	50°	2910.2	1063.6	810.3	594.1	459.7	453.9	426.6	397.4	389.6	395.4
8699.3	52.5°	2518.6	933.0	726.6	551.3	428.5	416.9	383.7	362.3	356.5	356.5
8241.6	55°	2072.6	781.1	613.6	488.9	395.4	374.0	350.6	340.9	335.0	331.1
7600.7	57.5°	1684.9	640.9	492.8	434.4	364.3	337.0	329.2	317.5	307.8	301.9
7065.1	60°	1383.0	504.5	407.1	385.7	333.1	307.8	305.8	290.2	264.9	261.0
6622.9	62.5°	1067.5	370.1	342.8	335.0	301.9	280.5	276.6	245.4	206.5	198.7
5995.7	65°	753.8	288.3	276.6	294.1	268.8	249.3	239.6	192.8	151.9	146.1
5017.8	67.5°	529.8	241.5	218.2	257.1	233.7	208.4	202.6	163.6	126.6	122.7
3794.5	70°	377.9	196.7	179.2	220.1	187.0	183.1	171.4	136.4	103.2	99.3
1877.8	72.5°	266.9	150.0	138.3	190.9	128.6	157.8	140.2	105.2	77.9	74.0
638.9	75°	196.7	107.1	97.4	111.0	93.5	118.8	99.3	70.1	48.7	46.7
288.3	77.5°	144.1	68.2	58.4	54.5	54.5	74.0	54.5	29.2	21.4	19.5
146.1	80°	101.3	31.2	27.3	23.4	21.4	17.5	7.8	3.9	1.9	1.9
50.6	82.5°	60.4	13.6	13.6	9.7	5.8	0.0	0.0	0.0	0.0	0.0
19.5	85°	13.6	5.8	5.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0
7.8	87.5°	1.9	1.9	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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