

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: P951237

Luminaire Tested: **GALN-SB5B-950-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951237
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-SB5B-950-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 5000K, 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: 16871 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

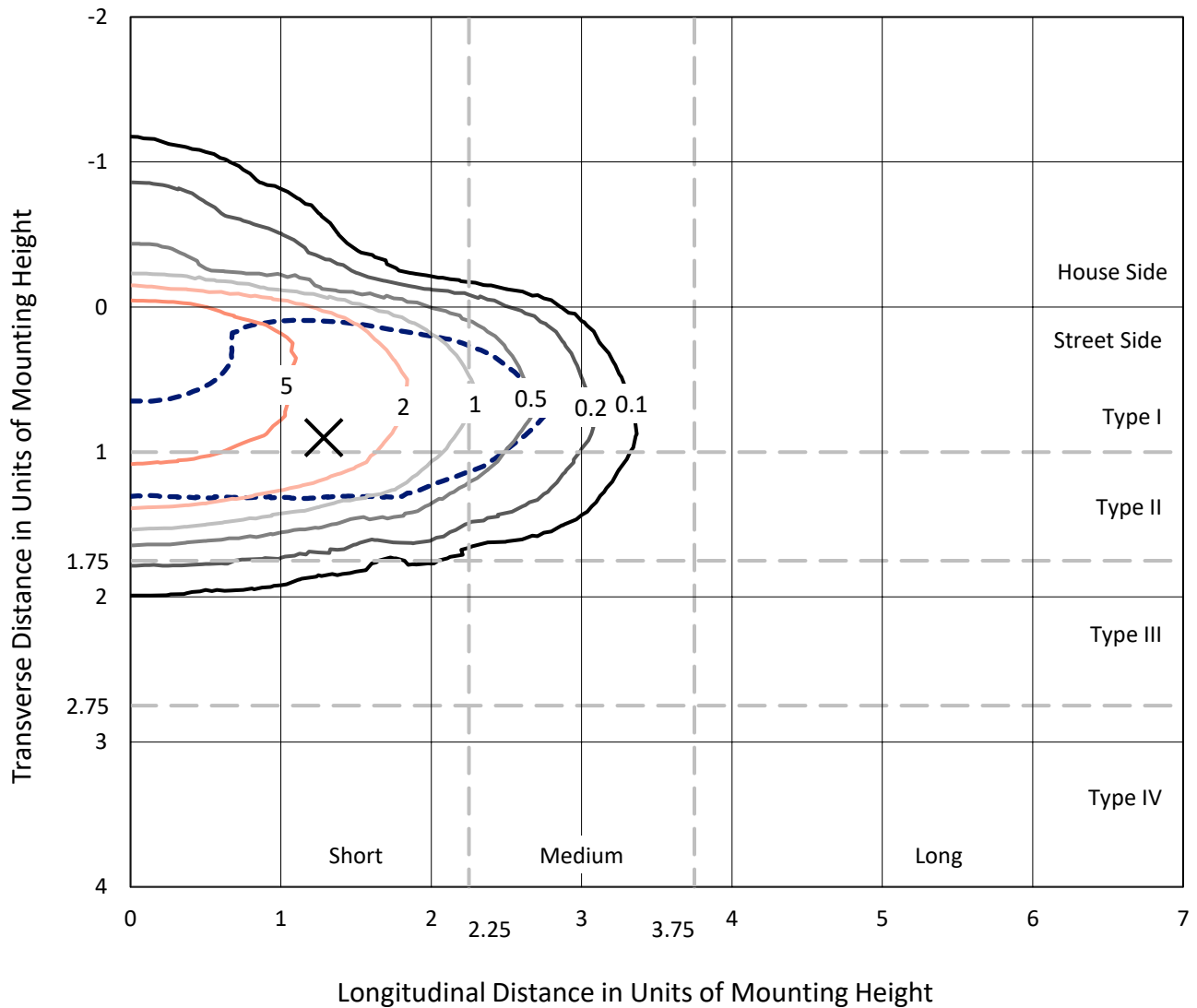
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

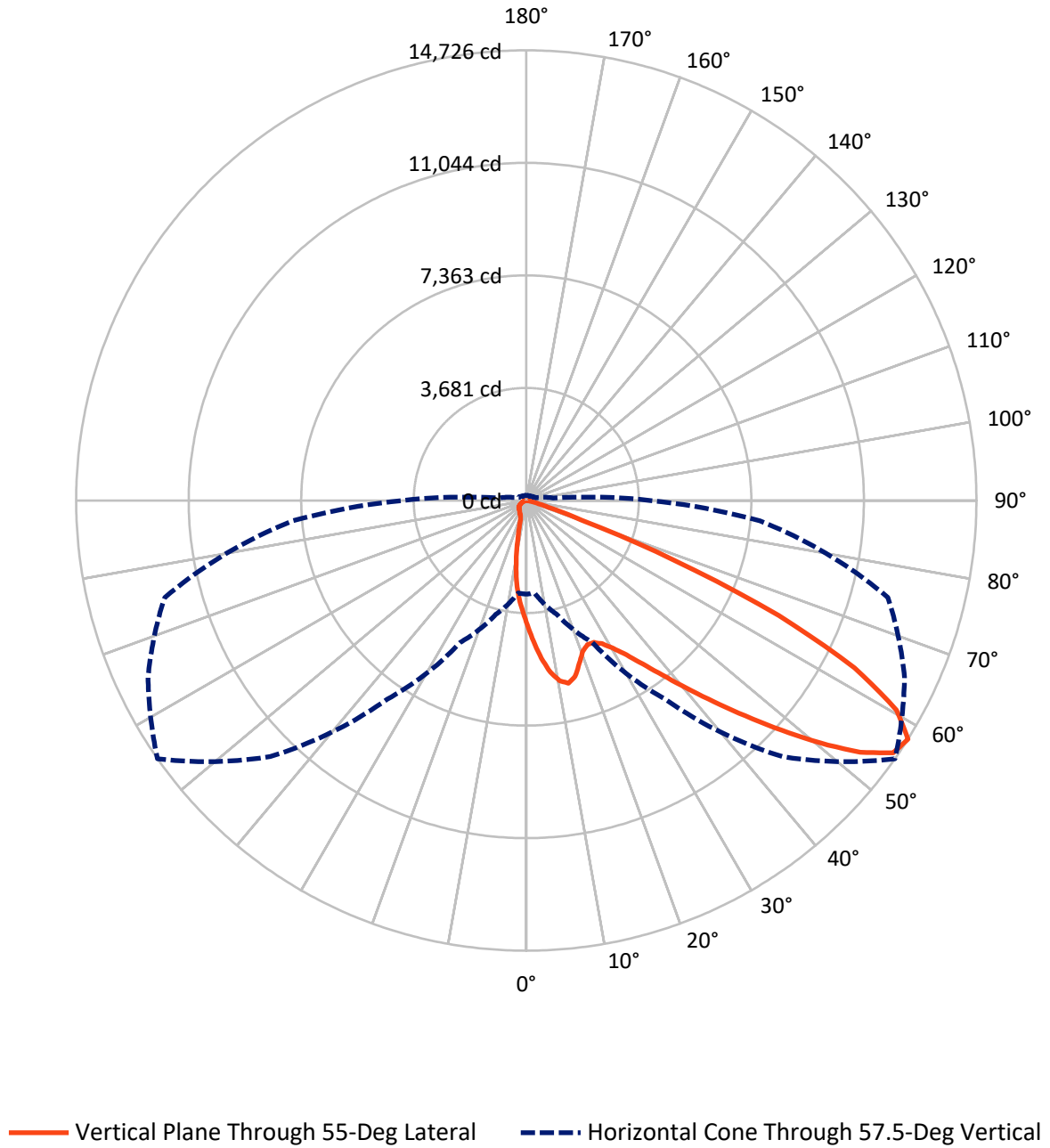
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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	1317.6	0.0	1317.6
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	15553.4	0.0	15553.4
	% Fixture	92.2	0.0	92.2
Total	Lumens	16871.0	0.0	16871.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.3	2.2
10°-20°	913.7	5.4
20°-30°	1461.9	8.7
30°-40°	2474.4	14.7
40°-50°	4062.5	24.1
50°-60°	4464.9	26.5
60°-70°	2561.1	15.2
70°-80°	523.3	3.1
80°-90°	30.9	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°	16871.0	100.0
0°-180°	16871.0	100.0

Coefficient of Utilization



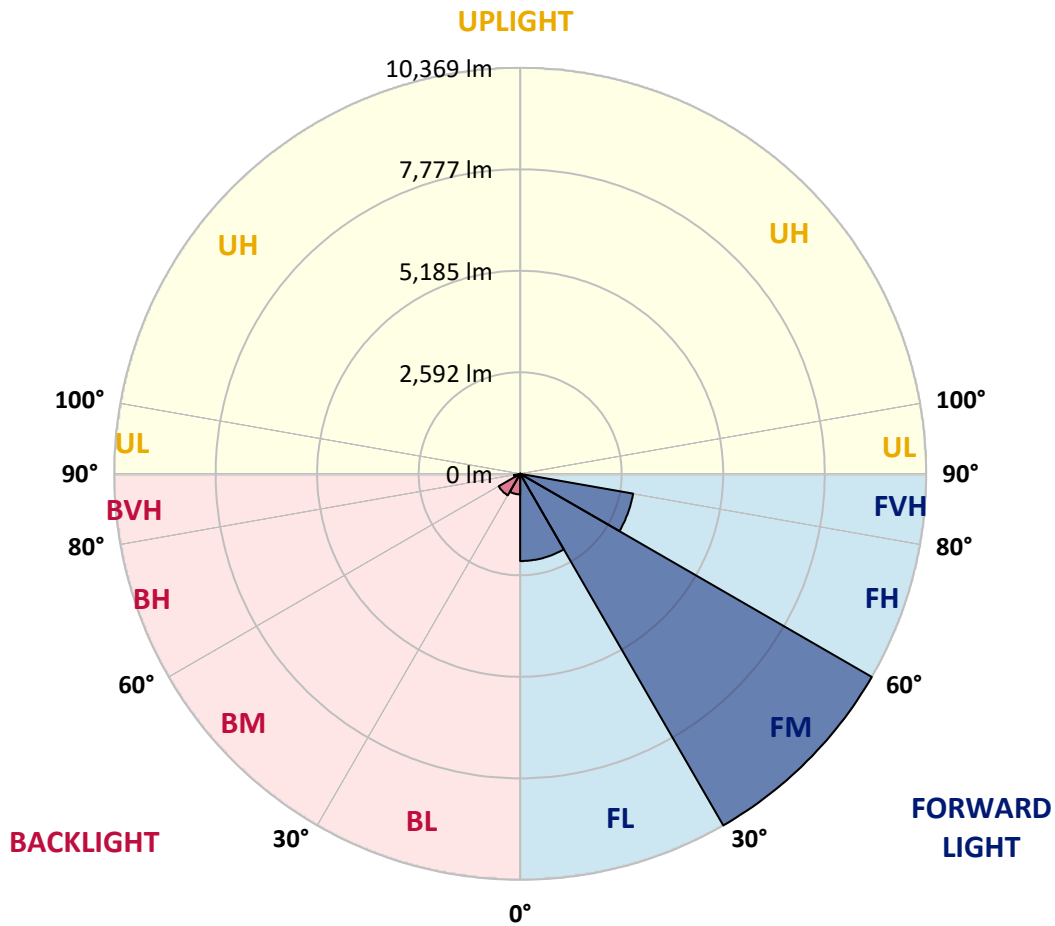
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2227.9	13.2			
FM (30°-60°)	10369.0	61.5			
FH (60°-80°)	2927.7	17.4			G2/5000
FVH (80°-90°)	28.8	0.2			G1/100
BL (0°-30°)	526.0	3.1	B2/1000		
BM (30°-60°)	632.8	3.8	B1/1000		
BH (60°-80°)	156.7	0.9	B1/500		G1/500
BVH (80°-90°)	2.1	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°	4065.5	4065.5	4065.5	4065.5	4065.5	4065.5	4065.5	4065.5	4065.5	4065.5
2.5°	5044.4	4981.0	4971.6	4959.1	4838.4	4747.9	4616.9	4473.3	4312.0	4147.7
5°	5827.8	5777.8	5768.5	5710.2	5572.9	5418.9	5185.9	4891.5	4590.8	4237.1
7.5°	5979.6	5970.3	6012.9	6010.9	5992.1	5870.4	5673.8	5323.2	4871.7	4347.4
10°	5302.4	5326.3	5453.3	5564.6	5865.2	6040.0	5997.3	5708.1	5160.9	4473.3
12.5°	4685.5	4657.4	4747.9	4873.8	5223.3	5743.5	6131.5	6029.6	5491.7	4615.8
15°	4298.5	4287.1	4338.1	4396.3	4662.6	5186.9	5975.5	6290.7	5810.1	4784.3
17.5°	4174.7	4165.4	4181.0	4195.5	4368.2	4773.9	5604.1	6450.9	6114.9	4976.8
20°	4275.6	4263.2	4261.1	4249.6	4321.4	4598.1	5268.1	6462.3	6388.5	5151.6
22.5°	4570.0	4555.5	4504.5	4458.7	4465.0	4622.1	5118.3	6347.9	6594.5	5314.9
25°	5103.7	5079.8	4973.7	4819.7	4721.9	4788.5	5141.2	6197.1	6791.1	5442.9
27.5°	5771.6	5740.4	5604.1	5375.2	5151.6	5070.4	5306.6	6093.0	6954.4	5540.6
30°	6425.9	6385.4	6251.2	6073.3	5746.6	5490.7	5605.1	6138.8	7148.9	5642.6
32.5°	7132.3	7093.8	6915.9	6695.4	6424.9	6080.6	6014.0	6362.5	7387.2	5785.1
35°	8025.9	7965.6	7712.8	7412.1	7125.0	6776.5	6567.4	6748.4	7704.5	6002.5
37.5°	9043.3	8962.2	8689.6	8274.6	7900.0	7509.9	7241.5	7279.0	8169.5	6293.8
40°	10002.5	9928.6	9676.9	9285.7	8815.5	8342.2	8056.1	7972.9	8811.3	6648.6
42.5°	10577.8	10511.2	10405.1	10239.7	9843.3	9360.6	8999.6	8819.7	9570.8	7073.0
45°	10610.0	10551.8	10694.3	10886.7	10808.7	10487.3	10047.2	9717.4	10333.3	7471.4
47.5°	10094.0	10054.5	10487.3	11159.3	11494.3	11629.5	11223.8	10540.3	10962.7	7757.5
50°	8687.6	8673.0	9563.5	10797.3	11755.4	12630.3	12464.9	11306.0	11450.6	7905.2
52.5°	7532.8	7479.8	7998.9	9638.4	11375.7	13156.7	13677.9	12057.1	11791.8	7933.3
55°	5713.3	5666.5	6317.7	7699.3	10151.3	12969.4	14565.3	12832.1	12036.3	7861.6
57.5°	3064.7	3035.6	3858.5	5124.5	7935.4	11845.9	14725.5	13651.9	12242.3	7671.2
60°	1193.2	1188.0	1496.0	2486.3	4822.8	9637.3	13917.1	14143.9	12371.3	7437.1
62.5°	722.0	737.6	787.5	1116.2	2130.5	5986.9	12054.0	13584.2	12457.6	7222.8
65°	597.1	598.2	604.4	766.7	1020.5	2505.0	9074.5	11742.9	12244.3	6841.0
67.5°	511.8	521.2	545.1	608.6	719.9	1098.6	5224.4	9096.4	10947.1	5952.6
70°	403.6	416.1	446.3	500.4	555.5	687.6	1930.8	6052.5	8363.0	4486.8
72.5°	340.2	339.1	354.7	406.8	441.1	483.7	742.8	3391.4	4860.3	2142.0
75°	263.2	273.6	293.4	340.2	361.0	350.6	402.6	1239.0	1741.5	649.1
77.5°	206.0	214.3	232.0	277.8	298.6	248.6	232.0	443.2	559.7	233.0
80°	92.6	99.9	158.1	204.9	243.4	171.6	125.9	226.8	248.6	106.1
82.5°	16.6	28.1	92.6	108.2	124.8	111.3	65.5	117.6	121.7	42.7
85°	1.0	2.1	32.2	39.5	49.9	36.4	19.8	46.8	40.6	14.6
87.5°	0.0	0.0	0.0	1.0	1.0	5.2	6.2	8.3	6.2	5.2
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°
4065.5	0°	4065.5	4065.5	4065.5	4065.5	4065.5	4065.5	4065.5	4065.5	4065.5	4065.5
4074.9	2.5°	4000.0	3852.2	3708.7	3591.1	3522.5	3405.9	3329.0	3316.5	3284.2	3312.3
4085.3	5°	3923.0	3658.7	3391.4	3152.1	2955.5	2701.7	2512.3	2432.2	2362.5	2386.4
4112.3	7.5°	3886.6	3469.4	3053.3	2644.4	2224.2	1818.4	1516.8	1390.9	1295.2	1308.7
4142.5	10°	3837.7	3272.8	2620.5	1996.3	1433.5	1033.0	825.0	748.0	705.3	706.4
4187.2	12.5°	3800.2	3037.7	2118.1	1353.4	872.8	659.6	595.1	576.3	563.8	564.9
4254.8	15°	3781.5	2761.0	1621.8	901.9	624.2	558.6	543.0	534.7	526.4	525.4
4329.7	17.5°	3750.3	2453.0	1187.0	658.5	546.2	523.3	509.7	500.4	490.0	487.9
4394.2	20°	3703.5	2103.5	867.6	556.6	511.8	494.1	475.4	462.9	450.5	448.4
4434.8	22.5°	3617.1	1734.2	666.8	514.9	486.9	467.1	444.2	429.6	417.2	415.1
4415.0	25°	3456.9	1387.8	561.8	488.9	465.0	441.1	416.1	396.4	384.9	382.8
4372.4	27.5°	3254.1	1090.2	509.7	465.0	436.9	415.1	387.0	368.3	357.9	355.8
4316.2	30°	3014.8	839.5	479.6	438.0	403.6	384.9	359.9	344.3	338.1	338.1
4276.7	32.5°	2756.8	671.0	467.1	410.9	374.5	353.7	333.9	327.7	325.6	324.6
4298.5	35°	2514.4	582.6	460.9	389.1	348.5	328.7	320.4	321.5	325.6	325.6
4366.1	37.5°	2299.1	554.5	457.7	373.5	325.6	307.9	313.1	322.5	318.3	318.3
4484.7	40°	2104.5	557.6	455.7	362.0	306.9	296.5	306.9	299.6	289.2	288.2
4629.3	42.5°	1955.8	583.6	451.5	352.7	295.4	288.2	284.0	272.6	271.5	273.6
4779.1	45°	1847.6	606.5	450.5	348.5	283.0	269.4	264.2	252.8	273.6	278.8
4840.5	47.5°	1719.6	606.5	450.5	333.9	262.2	257.0	248.6	236.1	257.0	262.2
4782.3	50°	1554.2	568.0	432.8	317.3	245.5	242.4	227.8	212.2	208.1	211.2
4646.0	52.5°	1345.1	498.3	388.0	294.4	228.9	222.6	204.9	193.5	190.4	190.4
4401.5	55°	1106.9	417.2	327.7	261.1	211.2	199.7	187.3	182.1	178.9	176.9
4059.3	57.5°	899.9	342.3	263.2	232.0	194.5	180.0	175.8	169.6	164.4	161.2
3773.2	60°	738.6	269.4	217.4	206.0	177.9	164.4	163.3	155.0	141.5	139.4
3537.0	62.5°	570.1	197.7	183.1	178.9	161.2	149.8	147.7	131.1	110.3	106.1
3202.0	65°	402.6	154.0	147.7	157.1	143.6	133.2	128.0	103.0	81.1	78.0
2679.8	67.5°	283.0	129.0	116.5	137.3	124.8	111.3	108.2	87.4	67.6	65.5
2026.5	70°	201.8	105.1	95.7	117.6	99.9	97.8	91.5	72.8	55.1	53.1
1002.8	72.5°	142.5	80.1	73.9	101.9	68.7	84.3	74.9	56.2	41.6	39.5
341.2	75°	105.1	57.2	52.0	59.3	49.9	63.5	53.1	37.5	26.0	25.0
154.0	77.5°	77.0	36.4	31.2	29.1	29.1	39.5	29.1	15.6	11.4	10.4
78.0	80°	54.1	16.6	14.6	12.5	11.4	9.4	4.2	2.1	1.0	1.0
27.0	82.5°	32.2	7.3	7.3	5.2	3.1	0.0	0.0	0.0	0.0	0.0
10.4	85°	7.3	3.1	3.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
4.2	87.5°	1.0	1.0	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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