

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: P955521

Luminaire Tested: **GALN-SB8B-950-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955521
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-950-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 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: 27007 lumens
Efficiency: N/A
Efficacy: 92.2 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

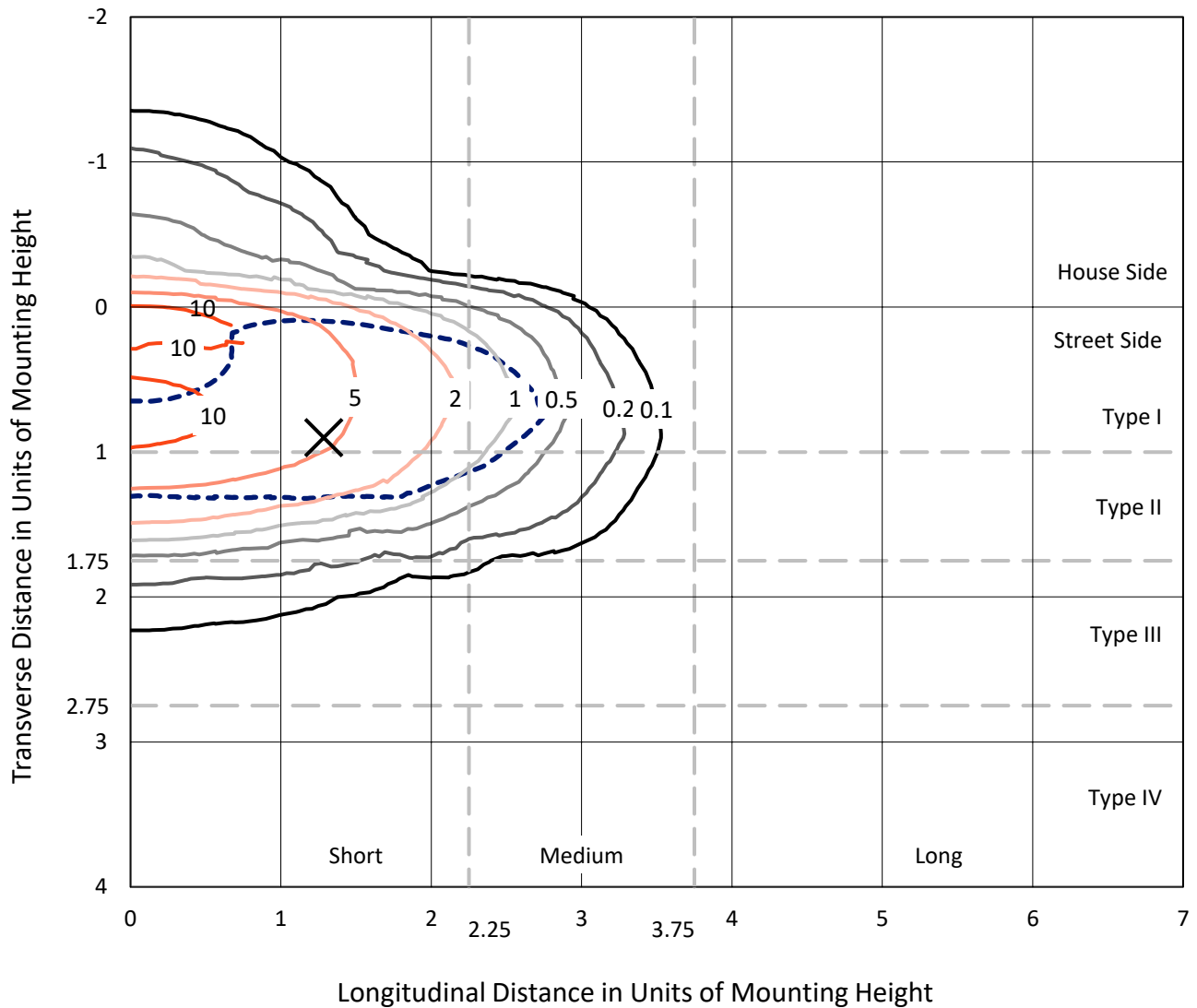
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

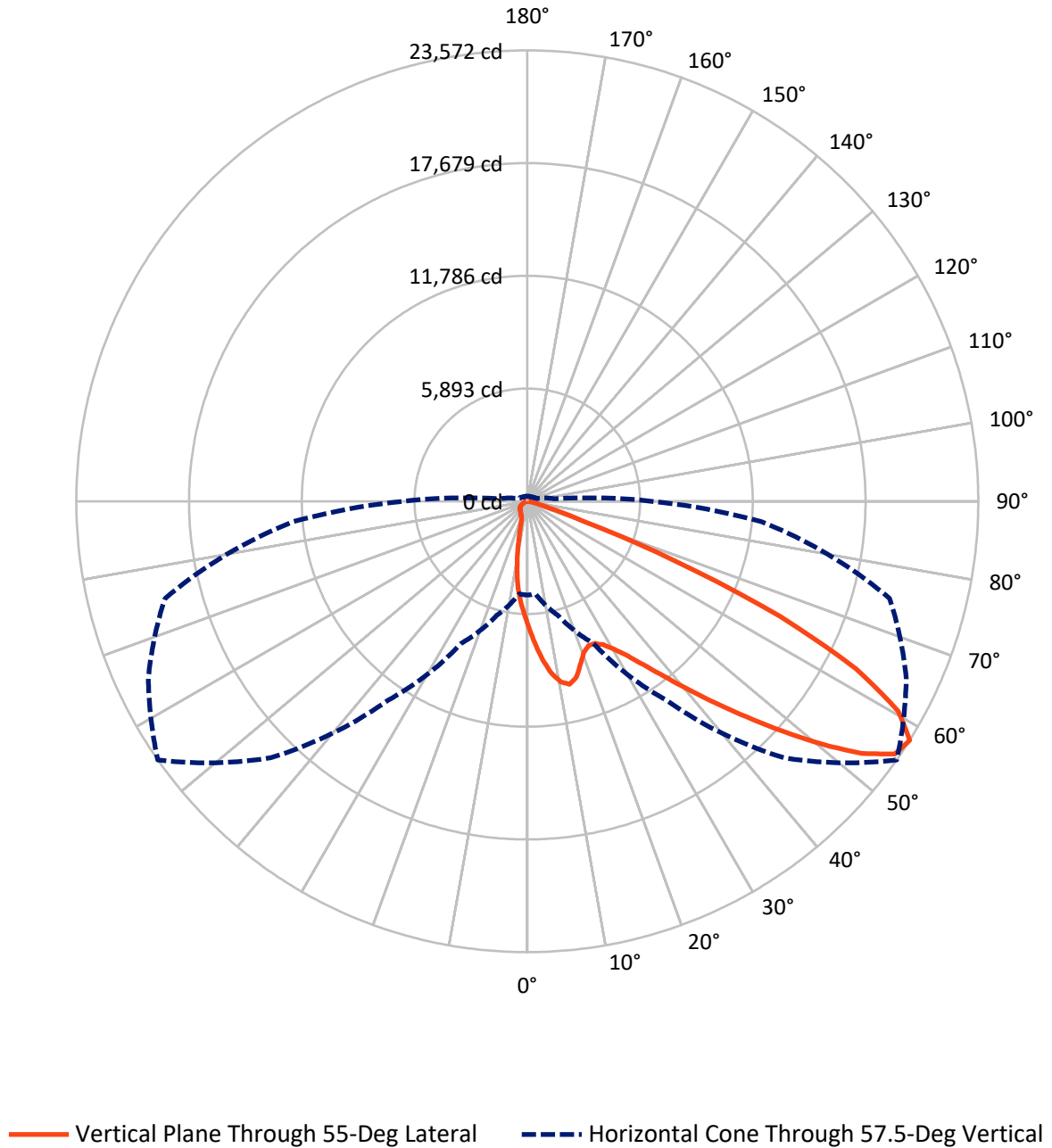
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 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	2109.1	0.0	2109.1
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	24897.9	0.0	24897.9
	% Fixture	92.2	0.0	92.2
Total	Lumens	27007.0	0.0	27007.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	605.5	2.2
10°-20°	1462.7	5.4
20°-30°	2340.3	8.7
30°-40°	3961.0	14.7
40°-50°	6503.2	24.1
50°-60°	7147.4	26.5
60°-70°	4099.8	15.2
70°-80°	837.7	3.1
80°-90°	49.4	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°	27007.0	100.0
0°-180°	27007.0	100.0

Coefficient of Utilization



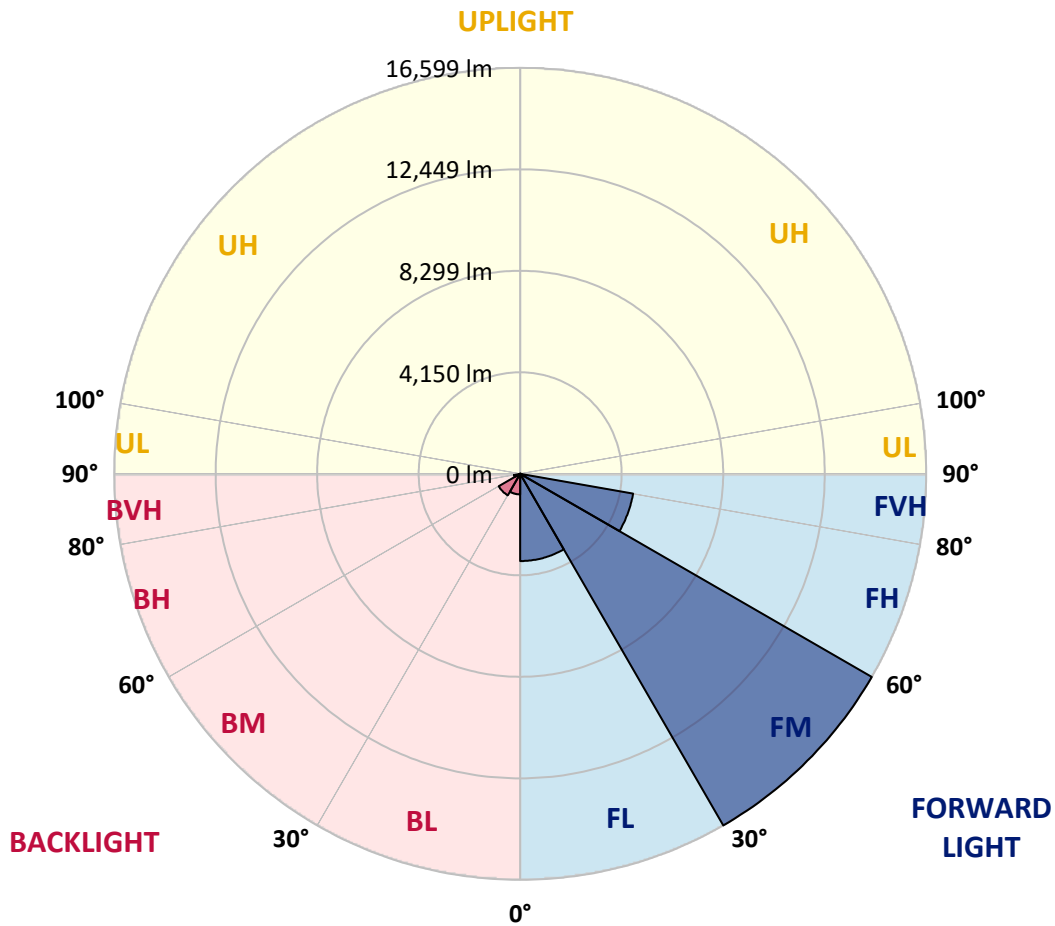
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3566.4	13.2			
FM (30°-60°)	16598.7	61.5			
FH (60°-80°)	4686.6	17.4			G2/5000
FVH (80°-90°)	46.1	0.2			G1/100
BL (0°-30°)	842.0	3.1	B2/1000		
BM (30°-60°)	1012.9	3.8	B2/2500		
BH (60°-80°)	250.8	0.9	B1/500		G1/500
BVH (80°-90°)	3.3	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°	6508.0	6508.0	6508.0	6508.0	6508.0	6508.0	6508.0	6508.0	6508.0	6508.0
2.5°	8075.1	7973.5	7958.5	7938.5	7745.3	7600.5	7390.6	7160.8	6902.7	6639.6
5°	9329.1	9249.1	9234.1	9140.9	8921.1	8674.6	8301.6	7830.3	7349.0	6782.8
7.5°	9572.2	9557.2	9625.5	9622.1	9592.2	9397.3	9082.6	8521.4	7798.6	6959.3
10°	8488.1	8526.4	8729.5	8907.7	9389.0	9668.8	9600.5	9137.5	8261.6	7160.8
12.5°	7500.5	7455.6	7600.5	7802.0	8361.5	9194.2	9815.3	9652.1	8791.2	7389.0
15°	6881.1	6862.7	6944.3	7037.6	7463.9	8303.2	9565.5	10070.1	9300.7	7658.7
17.5°	6682.9	6667.9	6692.9	6716.2	6992.6	7642.1	8971.0	10326.6	9788.7	7966.8
20°	6844.4	6824.4	6821.1	6802.8	6917.7	7360.7	8433.1	10344.9	10226.7	8246.6
22.5°	7315.7	7292.4	7210.8	7137.5	7147.5	7399.0	8193.3	10161.7	10556.4	8508.1
25°	8170.0	8131.7	7961.8	7715.4	7558.8	7665.4	8229.9	9920.2	10871.1	8712.9
27.5°	9239.1	9189.2	8971.0	8604.6	8246.6	8116.7	8494.7	9753.7	11132.6	8869.4
30°	10286.6	10221.7	10006.8	9722.1	9199.2	8789.5	8972.7	9827.0	11444.0	9032.6
32.5°	11417.3	11355.7	11071.0	10717.9	10284.9	9733.7	9627.1	10185.0	11825.3	9260.8
35°	12847.8	12751.3	12346.6	11865.3	11405.7	10847.8	10513.1	10802.8	12333.3	9608.8
37.5°	14476.5	14346.6	13910.3	13245.9	12646.3	12021.9	11592.2	11652.2	13077.7	10075.1
40°	16011.9	15893.7	15490.7	14864.5	14111.8	13354.1	12896.1	12762.9	14105.2	10643.0
42.5°	16932.8	16826.3	16656.4	16391.6	15757.1	14984.4	14406.6	14118.5	15320.8	11322.4
45°	16984.5	16891.2	17119.4	17427.4	17302.5	16788.0	16083.5	15555.6	16541.5	11960.2
47.5°	16158.5	16095.2	16788.0	17863.8	18400.0	18616.5	17967.0	16872.9	17549.0	12418.2
50°	13907.0	13883.7	15309.2	17284.2	18818.0	20218.5	19953.7	18098.6	18330.0	12654.7
52.5°	12058.5	11973.6	12804.5	15429.1	18210.1	21061.1	21895.5	19300.9	18876.3	12699.6
55°	9145.9	9070.9	10113.4	12324.9	16250.1	20761.4	23316.0	20541.6	19267.6	12584.7
57.5°	4906.0	4859.4	6176.6	8203.3	12703.0	18962.9	23572.4	21853.8	19597.3	12280.0
60°	1910.1	1901.8	2394.7	3980.1	7720.4	15427.4	22278.5	22641.5	19803.8	11905.3
62.5°	1155.7	1180.7	1260.6	1786.9	3410.5	9583.8	19295.9	21745.6	19942.1	11562.2
65°	955.9	957.6	967.5	1227.3	1633.7	4010.1	14526.5	18798.0	19600.7	10951.1
67.5°	819.3	834.3	872.6	974.2	1152.4	1758.6	8363.2	14561.4	17524.0	9528.9
70°	646.1	666.1	714.4	801.0	889.3	1100.8	3090.8	9688.8	13387.4	7182.5
72.5°	544.6	542.9	567.9	651.1	706.1	774.4	1189.0	5428.9	7780.3	3428.9
75°	421.3	438.0	469.6	544.6	577.9	561.2	644.5	1983.4	2787.7	1039.2
77.5°	329.7	343.1	371.4	444.6	477.9	398.0	371.4	709.4	895.9	373.0
80°	148.2	159.9	253.1	328.1	389.7	274.8	201.5	363.0	398.0	169.9
82.5°	26.6	45.0	148.2	173.2	199.8	178.2	104.9	188.2	194.8	68.3
85°	1.7	3.3	51.6	63.3	79.9	58.3	31.6	74.9	64.9	23.3
87.5°	0.0	0.0	0.0	1.7	1.7	8.3	10.0	13.3	10.0	8.3
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°
6508.0	0°	6508.0	6508.0	6508.0	6508.0	6508.0	6508.0	6508.0	6508.0	6508.0	6508.0
6523.0	2.5°	6403.1	6166.6	5936.8	5748.6	5638.7	5452.2	5329.0	5309.0	5257.4	5302.3
6539.7	5°	6279.9	5856.9	5428.9	5045.9	4731.1	4324.8	4021.7	3893.5	3781.9	3820.2
6583.0	7.5°	6221.6	5553.8	4887.7	4233.2	3560.4	2911.0	2428.0	2226.5	2073.3	2095.0
6631.3	10°	6143.3	5239.1	4194.9	3195.7	2294.8	1653.7	1320.6	1197.4	1129.1	1130.7
6702.9	12.5°	6083.4	4862.7	3390.6	2166.6	1397.2	1055.8	952.6	922.6	902.6	904.3
6811.1	15°	6053.4	4419.7	2596.2	1443.8	999.2	894.3	869.3	856.0	842.6	841.0
6931.0	17.5°	6003.4	3926.8	1900.1	1054.1	874.3	837.6	816.0	801.0	784.4	781.0
7034.3	20°	5928.5	3367.3	1388.9	890.9	819.3	791.0	761.0	741.1	721.1	717.7
7099.2	22.5°	5790.3	2776.1	1067.5	824.3	779.4	747.7	711.1	687.8	667.8	664.5
7067.6	25°	5533.8	2221.5	899.3	782.7	744.4	706.1	666.1	634.5	616.2	612.8
6999.3	27.5°	5209.1	1745.2	816.0	744.4	699.4	664.5	619.5	589.5	572.9	569.5
6909.4	30°	4826.1	1343.9	767.7	701.1	646.1	616.2	576.2	551.2	541.2	541.2
6846.1	32.5°	4413.1	1074.1	747.7	657.8	599.5	566.2	534.6	524.6	521.2	519.6
6881.1	35°	4025.0	932.6	737.7	622.8	557.9	526.2	512.9	514.6	521.2	521.2
6989.3	37.5°	3680.3	887.6	732.7	597.8	521.2	492.9	501.3	516.2	509.6	509.6
7179.1	40°	3368.9	892.6	729.4	579.5	491.3	474.6	491.3	479.6	463.0	461.3
7410.6	42.5°	3130.8	934.2	722.7	564.5	472.9	461.3	454.6	436.3	434.6	438.0
7650.4	45°	2957.6	970.9	721.1	557.9	453.0	431.3	423.0	404.7	438.0	446.3
7748.7	47.5°	2752.8	970.9	721.1	534.6	419.7	411.3	398.0	378.0	411.3	419.7
7655.4	50°	2488.0	909.3	692.8	507.9	393.0	388.0	364.7	339.7	333.1	338.1
7437.3	52.5°	2153.2	797.7	621.2	471.3	366.4	356.4	328.1	309.7	304.8	304.8
7045.9	55°	1771.9	667.8	524.6	418.0	338.1	319.7	299.8	291.4	286.4	283.1
6498.0	57.5°	1440.5	547.9	421.3	371.4	311.4	288.1	281.4	271.4	263.1	258.1
6040.1	60°	1182.4	431.3	348.0	329.7	284.8	263.1	261.5	248.1	226.5	223.2
5662.0	62.5°	912.6	316.4	293.1	286.4	258.1	239.8	236.5	209.8	176.5	169.9
5125.8	65°	644.5	246.5	236.5	251.5	229.8	213.2	204.8	164.9	129.9	124.9
4289.8	67.5°	453.0	206.5	186.5	219.8	199.8	178.2	173.2	139.9	108.2	104.9
3244.0	70°	323.1	168.2	153.2	188.2	159.9	156.5	146.5	116.6	88.3	84.9
1605.4	72.5°	228.1	128.2	118.2	163.2	109.9	134.9	119.9	89.9	66.6	63.3
546.2	75°	168.2	91.6	83.3	94.9	79.9	101.6	84.9	60.0	41.6	40.0
246.5	77.5°	123.2	58.3	50.0	46.6	46.6	63.3	46.6	25.0	18.3	16.7
124.9	80°	86.6	26.6	23.3	20.0	18.3	15.0	6.7	3.3	1.7	1.7
43.3	82.5°	51.6	11.7	11.7	8.3	5.0	0.0	0.0	0.0	0.0	0.0
16.7	85°	11.7	5.0	5.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0
6.7	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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