

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: P948633

Luminaire Tested: **GALN-SB3C-850-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948633
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-SB3C-850-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 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: 18325 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

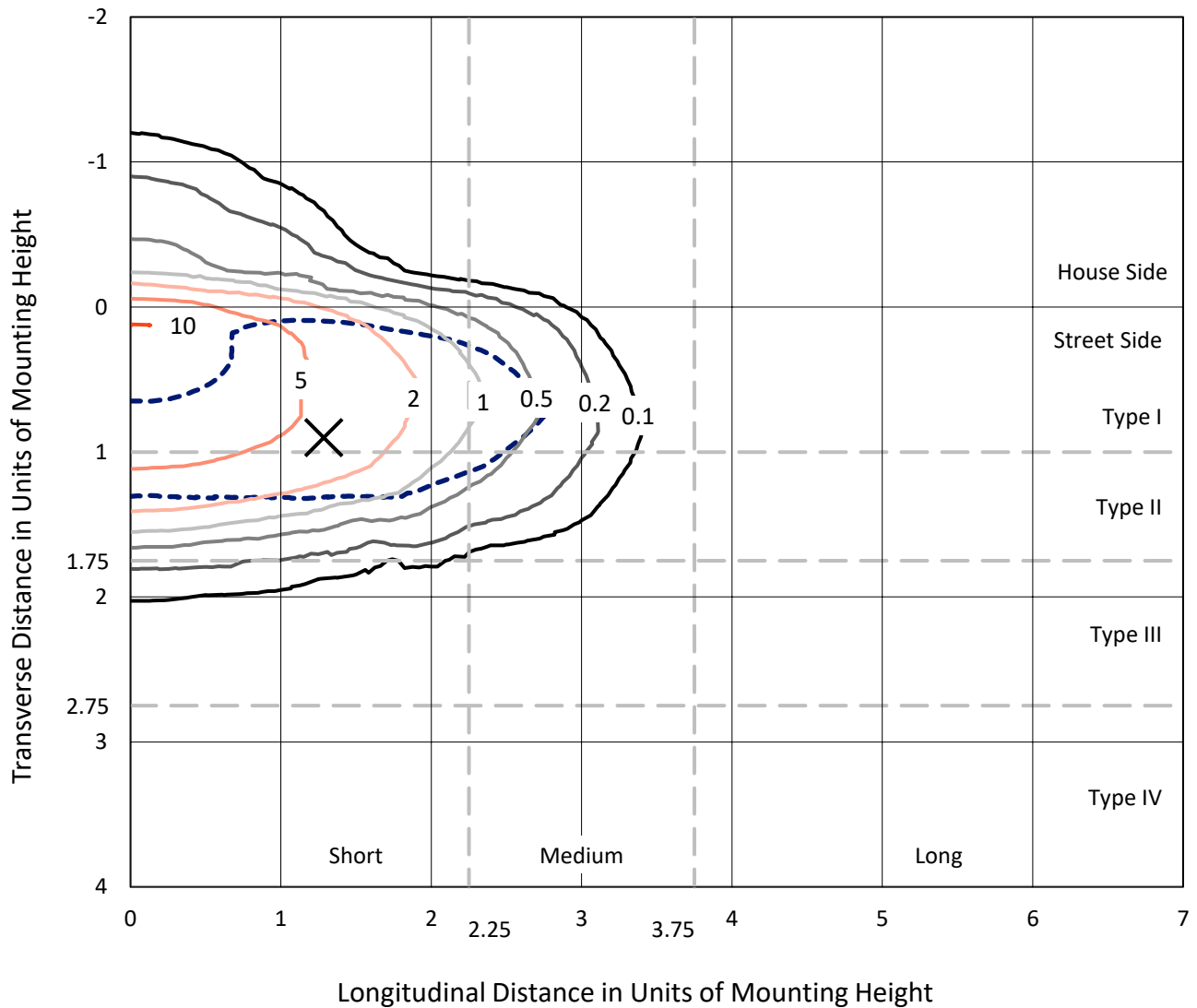
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

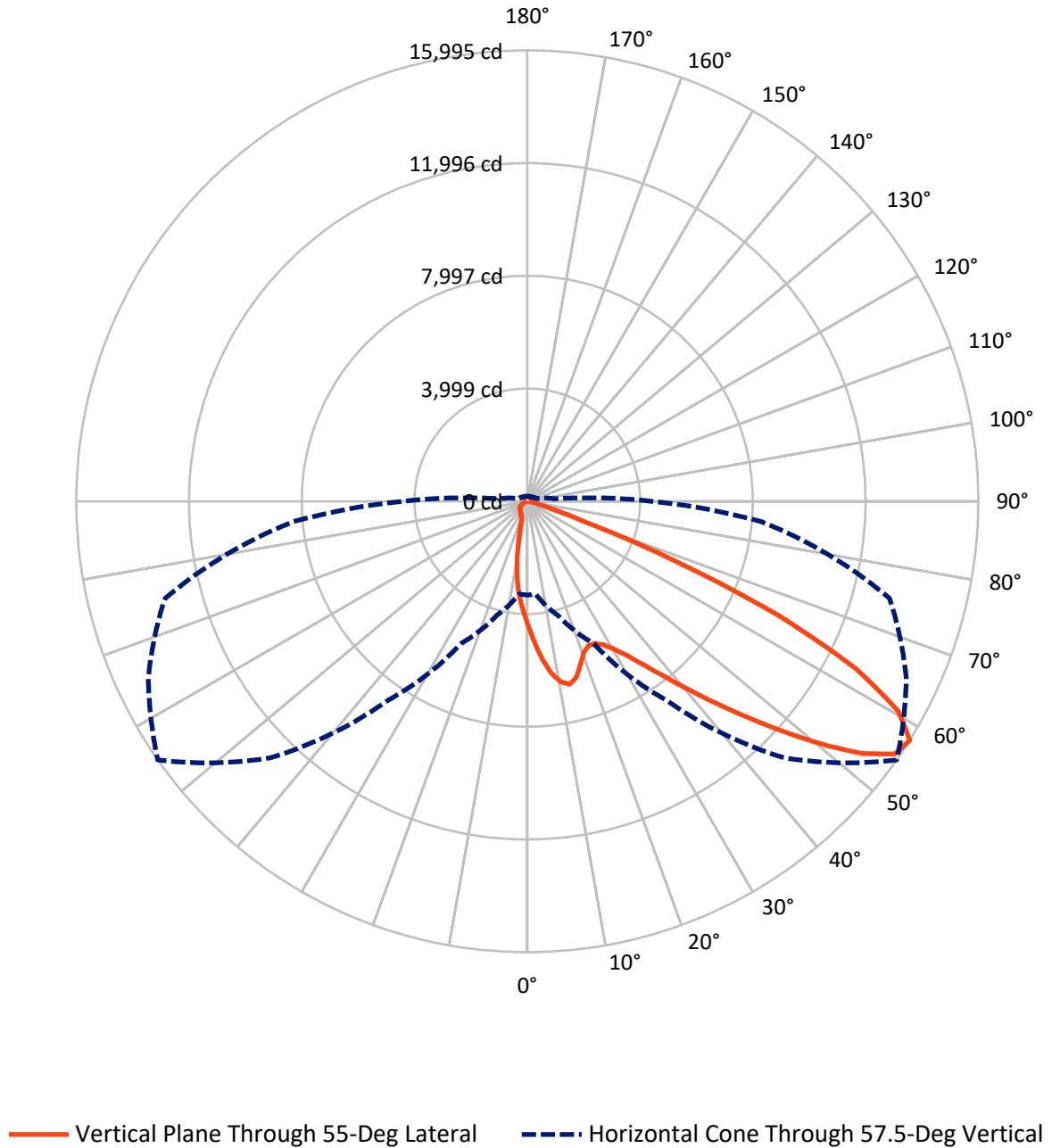
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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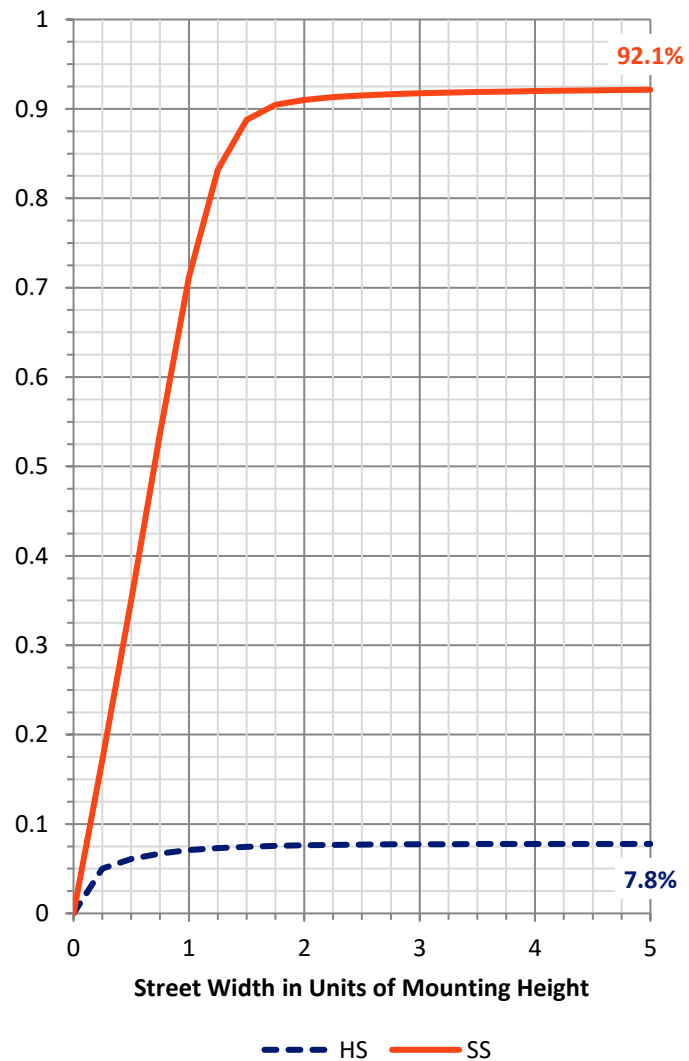
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1431.1	0.0	1431.1
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	16893.9	0.0	16893.9
	% Fixture	92.2	0.0	92.2
Total	Lumens	18325.0	0.0	18325.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.9	2.2
10°-20°	992.5	5.4
20°-30°	1587.9	8.7
30°-40°	2687.7	14.7
40°-50°	4412.6	24.1
50°-60°	4849.7	26.5
60°-70°	2781.8	15.2
70°-80°	568.4	3.1
80°-90°	33.5	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°	18325.0	100.0
0°-180°	18325.0	100.0

Coefficient of Utilization



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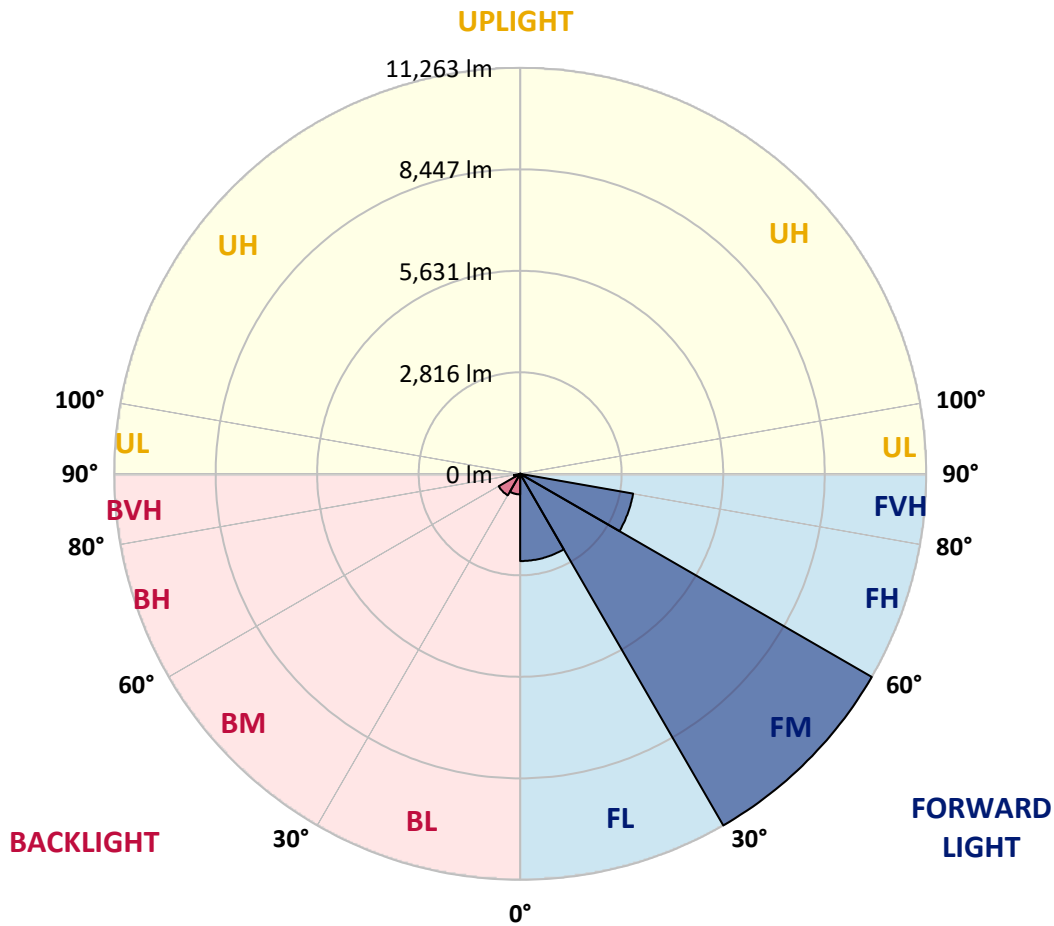
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2419.9	13.2			
FM (30°-60°)	11262.7	61.5			
FH (60°-80°)	3180.0	17.4			G2/5000
FVH (80°-90°)	31.3	0.2			G1/100
BL (0°-30°)	571.3	3.1	B2/1000		
BM (30°-60°)	687.3	3.8	B1/1000		
BH (60°-80°)	170.2	0.9	B1/500		G1/500
BVH (80°-90°)	2.3	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°	4415.9	4415.9	4415.9	4415.9	4415.9	4415.9	4415.9	4415.9	4415.9	4415.9
2.5°	5479.2	5410.2	5400.1	5386.5	5255.4	5157.1	5014.8	4858.8	4683.7	4505.1
5°	6330.0	6275.8	6265.6	6202.3	6053.2	5885.9	5632.8	5313.1	4986.5	4602.3
7.5°	6495.0	6484.8	6531.2	6528.9	6508.6	6376.3	6162.8	5782.0	5291.6	4722.1
10°	5759.4	5785.4	5923.2	6044.1	6370.7	6560.5	6514.2	6200.1	5605.7	4858.8
12.5°	5089.3	5058.8	5157.1	5293.9	5673.5	6238.5	6660.0	6549.2	5965.0	5013.6
15°	4669.0	4656.6	4711.9	4775.2	5064.5	5634.0	6490.5	6832.9	6310.8	5196.7
17.5°	4534.5	4524.3	4541.3	4557.1	4744.7	5185.4	6087.1	7006.9	6641.9	5405.7
20°	4644.1	4630.6	4628.3	4615.9	4693.8	4994.4	5722.1	7019.3	6939.1	5595.5
22.5°	4963.9	4948.1	4892.7	4843.0	4849.8	5020.4	5559.4	6895.0	7162.8	5773.0
25°	5543.6	5517.6	5402.3	5235.1	5128.9	5201.2	5584.2	6731.2	7376.4	5911.9
27.5°	6269.0	6235.1	6087.1	5838.5	5595.5	5507.4	5763.9	6618.2	7553.8	6018.2
30°	6979.7	6935.7	6789.9	6596.7	6241.9	5963.9	6088.2	6667.9	7765.1	6128.9
32.5°	7747.0	7705.2	7512.0	7272.4	6978.6	6604.6	6532.3	6910.8	8023.8	6283.7
35°	8717.6	8652.1	8377.5	8050.9	7739.1	7360.5	7133.4	7330.0	8368.5	6519.9
37.5°	9822.7	9734.6	9438.5	8987.7	8580.9	8157.2	7865.6	7906.3	8873.6	6836.2
40°	10864.5	10784.3	10510.9	10086.0	9575.3	9061.1	8750.4	8660.0	9570.7	7221.6
42.5°	11489.4	11417.1	11301.8	11122.2	10691.7	10167.4	9775.3	9579.8	10395.6	7682.6
45°	11524.4	11461.2	11616.0	11825.0	11740.3	11391.1	10913.1	10554.9	11223.9	8115.4
47.5°	10964.0	10921.0	11391.1	12121.1	12484.9	12631.8	12191.1	11448.7	11907.5	8426.1
50°	9436.3	9420.5	10387.7	11727.8	12768.5	13718.8	13539.1	12280.4	12437.4	8586.5
52.5°	8182.0	8124.4	8688.2	10469.1	12356.1	14290.6	14856.7	13096.2	12808.1	8617.1
55°	6205.7	6154.9	6862.2	8362.8	11026.1	14087.2	15820.5	13938.0	13073.6	8539.1
57.5°	3328.9	3297.2	4191.0	5566.2	8619.3	12866.8	15994.5	14828.4	13297.3	8332.3
60°	1296.1	1290.4	1624.9	2700.6	5238.5	10467.9	15116.6	15362.9	13437.5	8078.1
62.5°	784.2	801.1	855.4	1212.4	2314.2	6502.9	13092.8	14755.0	13531.2	7845.3
65°	648.6	649.7	656.5	832.8	1108.5	2720.9	9856.6	12755.0	13299.6	7430.6
67.5°	555.9	566.1	592.1	661.0	781.9	1193.2	5674.6	9880.3	11890.5	6465.6
70°	438.4	452.0	484.8	543.5	603.4	746.9	2097.2	6574.1	9083.7	4873.5
72.5°	369.5	368.4	385.3	441.8	479.1	525.4	806.8	3683.7	5279.2	2326.6
75°	285.9	297.2	318.6	369.5	392.1	380.8	437.3	1345.8	1891.5	705.1
77.5°	223.7	232.8	252.0	301.7	324.3	270.1	252.0	481.4	607.9	253.1
80°	100.6	108.5	171.8	222.6	264.4	186.4	136.7	246.3	270.1	115.3
82.5°	18.1	30.5	100.6	117.5	135.6	120.9	71.2	127.7	132.2	46.3
85°	1.1	2.3	35.0	42.9	54.2	39.5	21.5	50.8	44.1	15.8
87.5°	0.0	0.0	0.0	1.1	1.1	5.6	6.8	9.0	6.8	5.6
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°
4415.9	0°	4415.9	4415.9	4415.9	4415.9	4415.9	4415.9	4415.9	4415.9	4415.9	4415.9
4426.0	2.5°	4344.7	4184.2	4028.3	3900.6	3826.0	3699.5	3615.9	3602.3	3567.3	3597.8
4437.3	5°	4261.1	3974.1	3683.7	3423.8	3210.2	2934.5	2728.8	2641.8	2566.1	2592.1
4466.7	7.5°	4221.5	3768.4	3316.4	2872.4	2415.8	1975.2	1647.5	1510.8	1406.8	1421.5
4499.5	10°	4168.4	3554.8	2846.4	2168.4	1557.1	1122.0	896.1	812.4	766.1	767.2
4548.1	12.5°	4127.7	3299.5	2300.6	1470.1	948.0	716.4	646.3	626.0	612.4	613.6
4621.5	15°	4107.4	2998.9	1761.6	979.7	678.0	606.8	589.8	580.8	571.8	570.6
4702.9	17.5°	4073.5	2664.4	1289.3	715.3	593.2	568.4	553.7	543.5	532.2	530.0
4772.9	20°	4022.6	2284.8	942.4	604.5	555.9	536.7	516.4	502.8	489.3	487.0
4817.0	22.5°	3928.9	1883.6	724.3	559.3	528.8	507.4	482.5	466.7	453.1	450.9
4795.5	25°	3754.8	1507.4	610.2	531.1	505.1	479.1	452.0	430.5	418.1	415.8
4749.2	27.5°	3534.5	1184.2	553.7	505.1	474.6	450.9	420.3	400.0	388.7	386.4
4688.2	30°	3274.6	911.9	520.9	475.7	438.4	418.1	391.0	374.0	367.2	367.2
4645.3	32.5°	2994.4	728.8	507.4	446.3	406.8	384.2	362.7	355.9	353.7	352.5
4669.0	35°	2731.1	632.8	500.6	422.6	378.5	357.1	348.0	349.2	353.7	353.7
4742.4	37.5°	2497.2	602.3	497.2	405.7	353.7	334.5	340.1	350.3	345.8	345.8
4871.2	40°	2285.9	605.7	494.9	393.2	333.3	322.0	333.3	325.4	314.1	313.0
5028.3	42.5°	2124.3	633.9	490.4	383.1	320.9	313.0	308.5	296.0	294.9	297.2
5191.0	45°	2006.8	658.8	489.3	378.5	307.3	292.7	287.0	274.6	297.2	302.8
5257.7	47.5°	1867.8	658.8	489.3	362.7	284.7	279.1	270.1	256.5	279.1	284.7
5194.4	50°	1688.2	617.0	470.1	344.6	266.7	263.3	247.5	230.5	226.0	229.4
5046.4	52.5°	1461.0	541.2	421.5	319.8	248.6	241.8	222.6	210.2	206.8	206.8
4780.8	55°	1202.3	453.1	355.9	283.6	229.4	217.0	203.4	197.7	194.4	192.1
4409.1	57.5°	977.4	371.8	285.9	252.0	211.3	195.5	191.0	184.2	178.5	175.1
4098.4	60°	802.3	292.7	236.2	223.7	193.2	178.5	177.4	168.4	153.7	151.4
3841.9	62.5°	619.2	214.7	198.9	194.4	175.1	162.7	160.5	142.4	119.8	115.3
3478.0	65°	437.3	167.2	160.5	170.6	155.9	144.6	139.0	111.9	88.1	84.7
2910.8	67.5°	307.3	140.1	126.6	149.2	135.6	120.9	117.5	94.9	73.4	71.2
2201.2	70°	219.2	114.1	104.0	127.7	108.5	106.2	99.4	79.1	59.9	57.6
1089.3	72.5°	154.8	87.0	80.2	110.7	74.6	91.5	81.4	61.0	45.2	42.9
370.6	75°	114.1	62.1	56.5	64.4	54.2	68.9	57.6	40.7	28.2	27.1
167.2	77.5°	83.6	39.5	33.9	31.6	31.6	42.9	31.6	16.9	12.4	11.3
84.7	80°	58.8	18.1	15.8	13.6	12.4	10.2	4.5	2.3	1.1	1.1
29.4	82.5°	35.0	7.9	7.9	5.6	3.4	0.0	0.0	0.0	0.0	0.0
11.3	85°	7.9	3.4	3.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0
4.5	87.5°	1.1	1.1	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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