

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: P949263

Luminaire Tested: **GALN-SB4A-827-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949263
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-SB4A-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 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: 13329 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

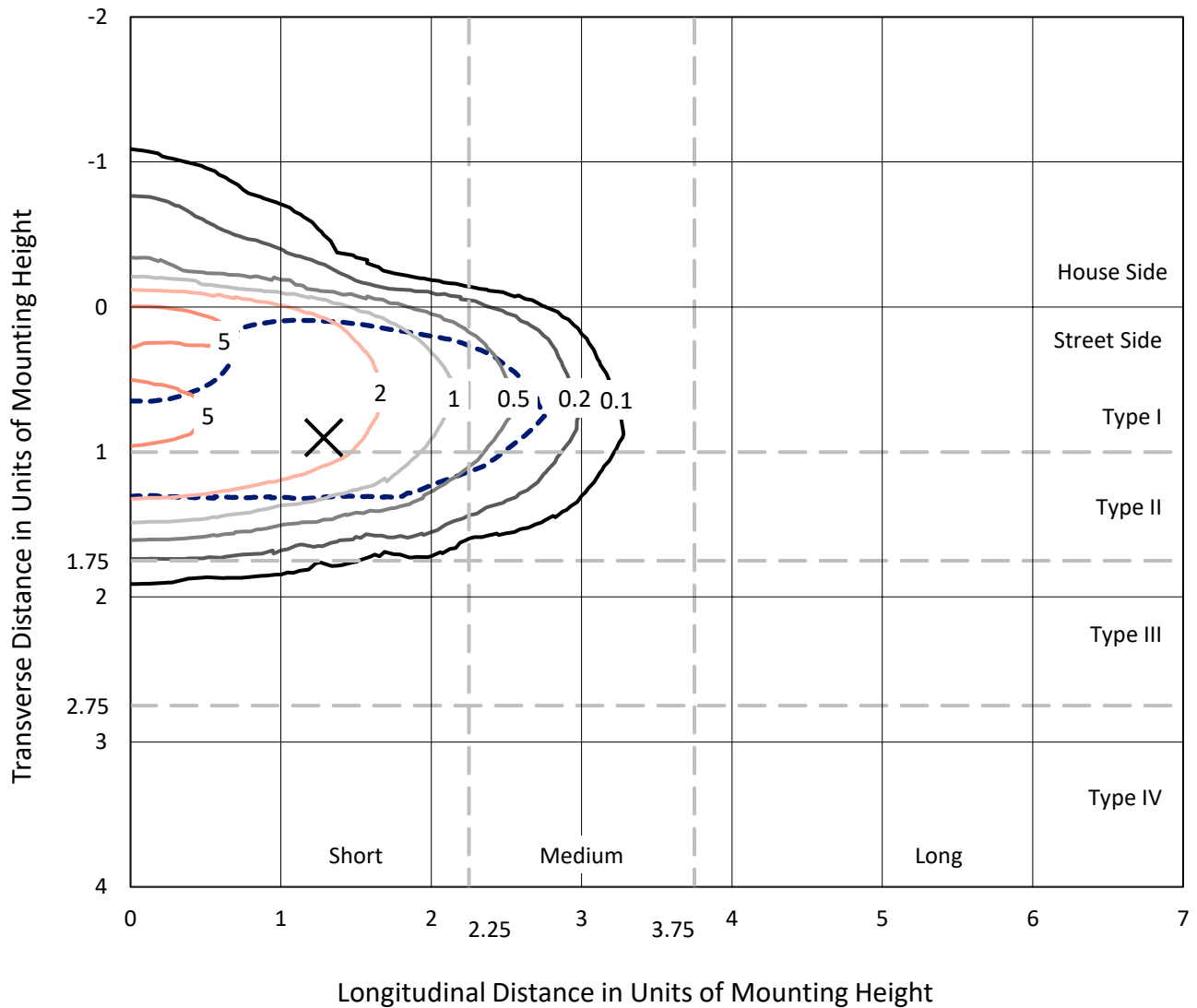
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

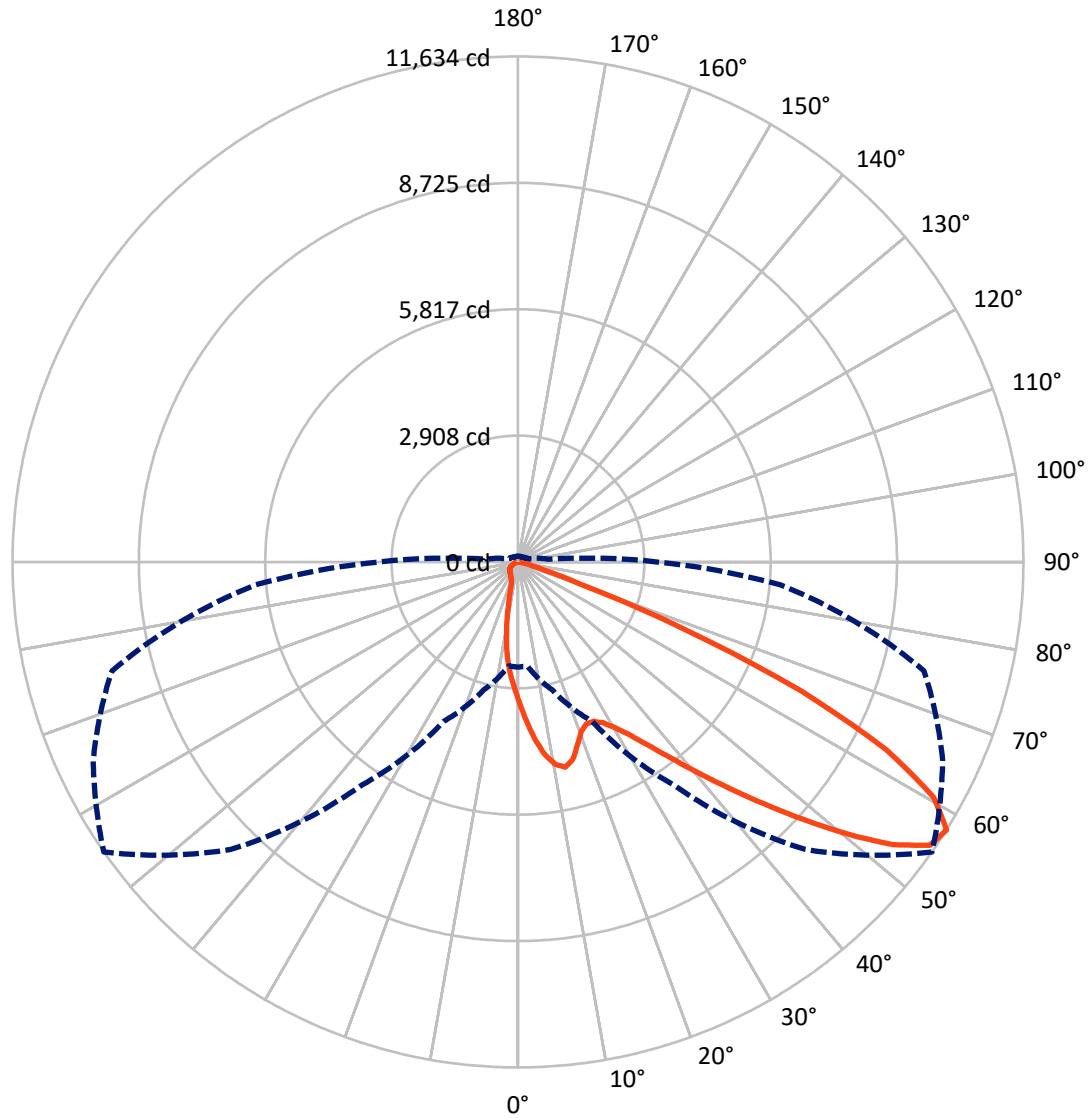
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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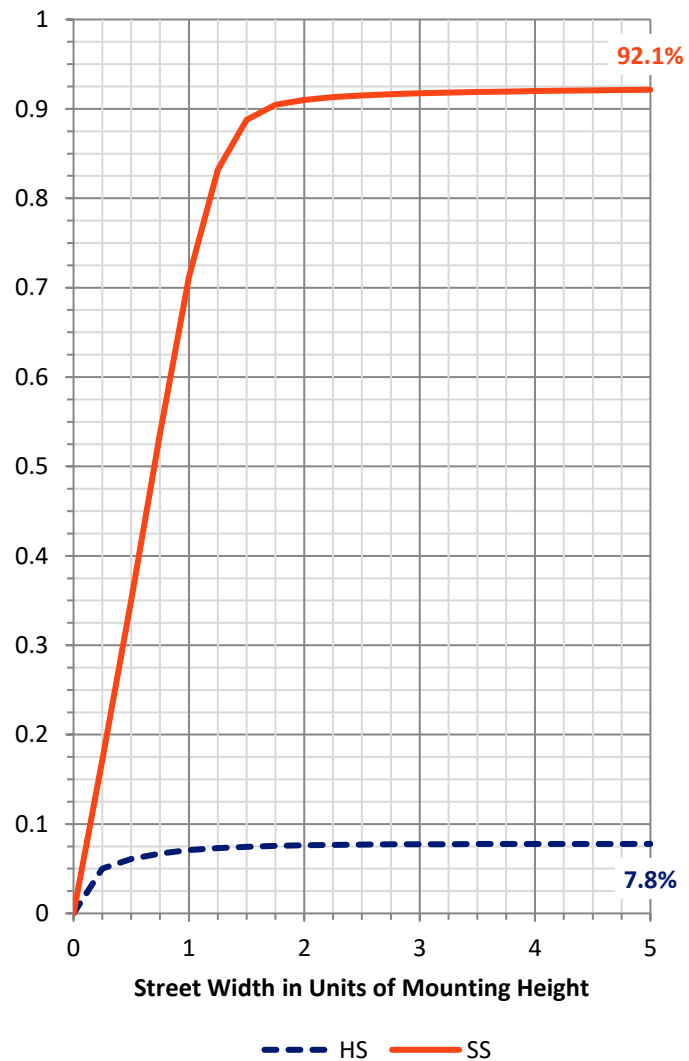
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1040.9	0.0	1040.9
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	12288.1	0.0	12288.1
	% Fixture	92.2	0.0	92.2
Total	Lumens	13329.0	0.0	13329.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.9	2.2
10°-20°	721.9	5.4
20°-30°	1155.0	8.7
30°-40°	1954.9	14.7
40°-50°	3209.6	24.1
50°-60°	3527.5	26.5
60°-70°	2023.4	15.2
70°-80°	413.4	3.1
80°-90°	24.4	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°	13329.0	100.0
0°-180°	13329.0	100.0

Coefficient of Utilization



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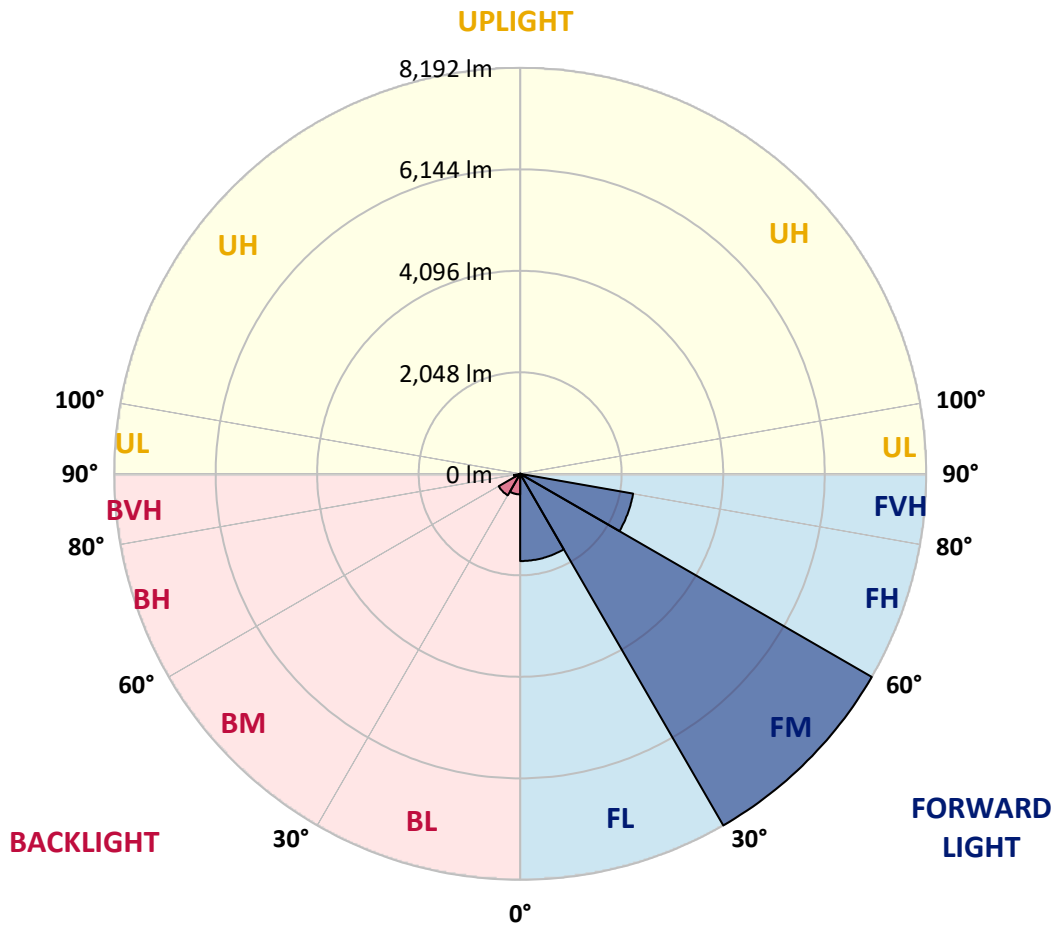
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1760.2	13.2			
FM (30°-60°)	8192.1	61.5			
FH (60°-80°)	2313.0	17.4			G2/5000
FVH (80°-90°)	22.7	0.2			G1/100
BL (0°-30°)	415.6	3.1	B1/500		
BM (30°-60°)	499.9	3.8	B1/1000		
BH (60°-80°)	123.8	0.9	B1/500		G1/500
BVH (80°-90°)	1.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3212.0	3212.0	3212.0	3212.0	3212.0	3212.0	3212.0	3212.0	3212.0	3212.0
2.5°	3985.4	3935.2	3927.8	3918.0	3822.6	3751.1	3647.6	3534.1	3406.7	3276.9
5°	4604.2	4564.8	4557.4	4511.4	4402.9	4281.2	4097.1	3864.5	3627.0	3347.6
7.5°	4724.2	4716.8	4750.5	4748.9	4734.1	4637.9	4482.6	4205.6	3848.9	3434.7
10°	4189.2	4208.1	4308.4	4396.3	4633.8	4771.9	4738.2	4509.7	4077.4	3534.1
12.5°	3701.8	3679.6	3751.1	3850.6	4126.7	4537.7	4844.2	4763.7	4338.8	3646.7
15°	3396.1	3387.0	3427.3	3473.3	3683.7	4098.0	4721.0	4970.0	4590.3	3779.9
17.5°	3298.3	3290.9	3303.2	3314.7	3451.1	3771.7	4427.5	5096.6	4831.1	3931.9
20°	3378.0	3368.1	3366.5	3357.4	3414.1	3632.8	4162.1	5105.6	5047.2	4070.0
22.5°	3610.6	3599.1	3558.8	3522.6	3527.6	3651.7	4043.7	5015.2	5210.0	4199.1
25°	4032.2	4013.3	3929.5	3807.8	3730.6	3783.2	4061.8	4896.0	5365.3	4300.1
27.5°	4559.9	4535.2	4427.5	4246.7	4070.0	4005.9	4192.5	4813.8	5494.4	4377.4
30°	5076.8	5044.8	4938.8	4798.2	4540.1	4338.0	4428.4	4850.0	5648.1	4458.0
32.5°	5634.9	5604.5	5463.9	5289.7	5076.0	4804.0	4751.4	5026.7	5836.3	4570.6
35°	6340.9	6293.2	6093.5	5856.0	5629.1	5353.8	5188.6	5331.6	6086.9	4742.3
37.5°	7144.7	7080.6	6865.3	6537.3	6241.5	5933.3	5721.2	5750.8	6454.3	4972.5
40°	7902.5	7844.2	7645.3	7336.2	6964.7	6590.8	6364.7	6299.0	6961.4	5252.7
42.5°	8357.0	8304.4	8220.6	8089.9	7776.8	7395.4	7110.2	6968.0	7561.4	5588.1
45°	8382.5	8336.5	8449.1	8601.1	8539.5	8285.5	7937.8	7677.3	8163.9	5902.8
47.5°	7974.8	7943.6	8285.5	8816.5	9081.1	9187.9	8867.4	8327.4	8661.1	6128.9
50°	6863.6	6852.1	7555.7	8530.4	9287.4	9978.6	9847.9	8932.3	9046.6	6245.6
52.5°	5951.3	5909.4	6319.5	7614.8	8987.4	10394.5	10806.3	9525.7	9316.2	6267.8
55°	4513.8	4476.9	4991.4	6082.8	8020.0	10246.5	11507.3	10138.1	9509.3	6211.1
57.5°	2421.3	2398.3	3048.4	4048.6	6269.4	9358.9	11633.9	10785.7	9672.0	6060.6
60°	942.7	938.6	1181.9	1964.3	3810.3	7614.0	10995.3	11174.5	9774.0	5875.7
62.5°	570.4	582.7	622.2	881.9	1683.2	4730.0	9523.3	10732.3	9842.2	5706.4
65°	471.8	472.6	477.5	605.7	806.3	1979.1	7169.4	9277.5	9673.7	5404.8
67.5°	404.4	411.8	430.7	480.8	568.8	867.9	4127.6	7186.6	8648.8	4702.9
70°	318.9	328.8	352.6	395.3	438.9	543.3	1525.4	4781.8	6607.2	3544.8
72.5°	268.8	267.9	280.3	321.4	348.5	382.2	586.8	2679.4	3839.9	1692.3
75°	207.9	216.2	231.8	268.8	285.2	277.0	318.1	978.9	1375.9	512.9
77.5°	162.7	169.3	183.3	219.4	235.9	196.4	183.3	350.1	442.2	184.1
80°	73.1	78.9	124.9	161.9	192.3	135.6	99.4	179.2	196.4	83.8
82.5°	13.2	22.2	73.1	85.5	98.6	87.9	51.8	92.9	96.2	33.7
85°	0.8	1.6	25.5	31.2	39.5	28.8	15.6	37.0	32.1	11.5
87.5°	0.0	0.0	0.0	0.8	0.8	4.1	4.9	6.6	4.9	4.1
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°
3212.0	0°	3212.0	3212.0	3212.0	3212.0	3212.0	3212.0	3212.0	3212.0	3212.0	3212.0
3219.4	2.5°	3160.2	3043.5	2930.1	2837.2	2782.9	2690.9	2630.1	2620.2	2594.7	2616.9
3227.6	5°	3099.4	2890.6	2679.4	2490.3	2335.0	2134.5	1984.9	1921.6	1866.5	1885.4
3248.9	7.5°	3070.6	2741.0	2412.3	2089.3	1757.2	1436.7	1198.3	1098.9	1023.3	1033.9
3272.8	10°	3032.0	2585.7	2070.4	1577.2	1132.6	816.1	651.8	590.9	557.2	558.1
3308.1	12.5°	3002.4	2399.9	1673.4	1069.3	689.6	521.1	470.1	455.3	445.5	446.3
3361.5	15°	2987.6	2181.3	1281.3	712.6	493.1	441.4	429.0	422.5	415.9	415.1
3420.7	17.5°	2962.9	1938.0	937.8	520.3	431.5	413.4	402.7	395.3	387.1	385.5
3471.7	20°	2925.9	1661.9	685.5	439.7	404.4	390.4	375.6	365.7	355.9	354.2
3503.7	22.5°	2857.7	1370.1	526.8	406.8	384.6	369.0	350.9	339.4	329.6	327.9
3488.1	25°	2731.2	1096.4	443.8	386.3	367.4	348.5	328.8	313.1	304.1	302.5
3454.4	27.5°	2570.9	861.3	402.7	367.4	345.2	327.9	305.7	291.0	282.7	281.1
3410.0	30°	2381.8	663.3	378.9	346.0	318.9	304.1	284.4	272.0	267.1	267.1
3378.8	32.5°	2178.0	530.1	369.0	324.6	295.9	279.4	263.8	258.9	257.3	256.4
3396.1	35°	1986.5	460.3	364.1	307.4	275.3	259.7	253.1	254.0	257.3	257.3
3449.5	37.5°	1816.4	438.1	361.6	295.1	257.3	243.3	247.4	254.8	251.5	251.5
3543.2	40°	1662.7	440.5	360.0	286.0	242.5	234.2	242.5	236.7	228.5	227.7
3657.4	42.5°	1545.2	461.1	356.7	278.6	233.4	227.7	224.4	215.3	214.5	216.2
3775.8	45°	1459.7	479.2	355.9	275.3	223.6	212.9	208.8	199.7	216.2	220.3
3824.3	47.5°	1358.6	479.2	355.9	263.8	207.1	203.0	196.4	186.6	203.0	207.1
3778.2	50°	1227.9	448.8	341.9	250.7	194.0	191.5	180.0	167.7	164.4	166.8
3670.6	52.5°	1062.7	393.7	306.6	232.6	180.8	175.9	161.9	152.9	150.4	150.4
3477.4	55°	874.5	329.6	258.9	206.3	166.8	157.8	147.9	143.8	141.4	139.7
3207.0	57.5°	710.9	270.4	207.9	183.3	153.7	142.2	138.9	134.0	129.9	127.4
2981.0	60°	583.5	212.9	171.8	162.7	140.5	129.9	129.0	122.5	111.8	110.1
2794.4	62.5°	450.4	156.2	144.7	141.4	127.4	118.4	116.7	103.6	87.1	83.8
2529.8	65°	318.1	121.6	116.7	124.1	113.4	105.2	101.1	81.4	64.1	61.6
2117.2	67.5°	223.6	101.9	92.1	108.5	98.6	87.9	85.5	69.0	53.4	51.8
1601.0	70°	159.4	83.0	75.6	92.9	78.9	77.3	72.3	57.5	43.6	41.9
792.3	72.5°	112.6	63.3	58.4	80.5	54.2	66.6	59.2	44.4	32.9	31.2
269.6	75°	83.0	45.2	41.1	46.8	39.5	50.1	41.9	29.6	20.5	19.7
121.6	77.5°	60.8	28.8	24.7	23.0	23.0	31.2	23.0	12.3	9.0	8.2
61.6	80°	42.7	13.2	11.5	9.9	9.0	7.4	3.3	1.6	0.8	0.8
21.4	82.5°	25.5	5.8	5.8	4.1	2.5	0.0	0.0	0.0	0.0	0.0
8.2	85°	5.8	2.5	2.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0
3.3	87.5°	0.8	0.8	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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