

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: P955794

Luminaire Tested: **GALN-SB8C-927-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955794
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-SB8C-927-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 2700K, 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: 31429 lumens
Efficiency: N/A
Efficacy: 78.6 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

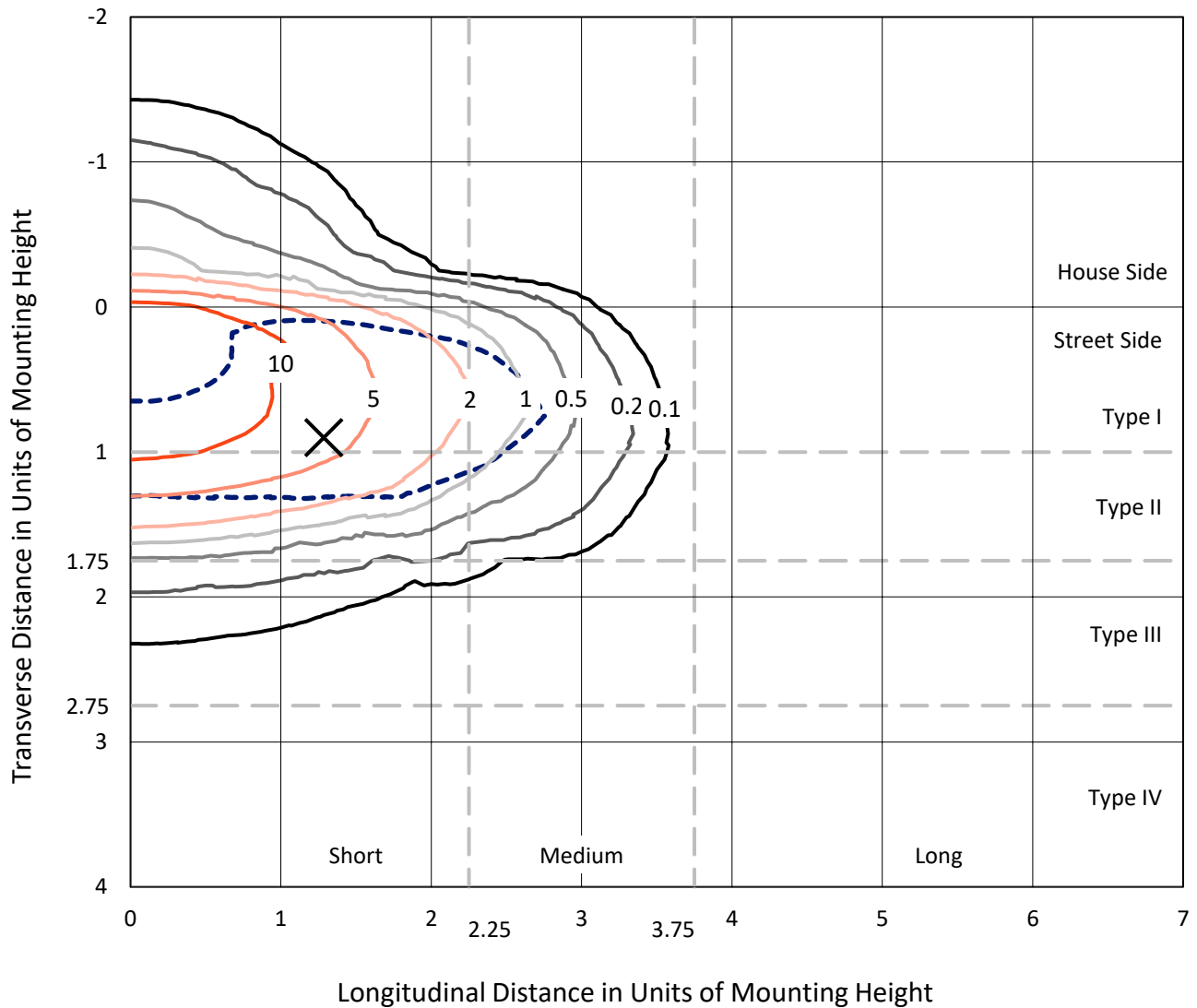
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

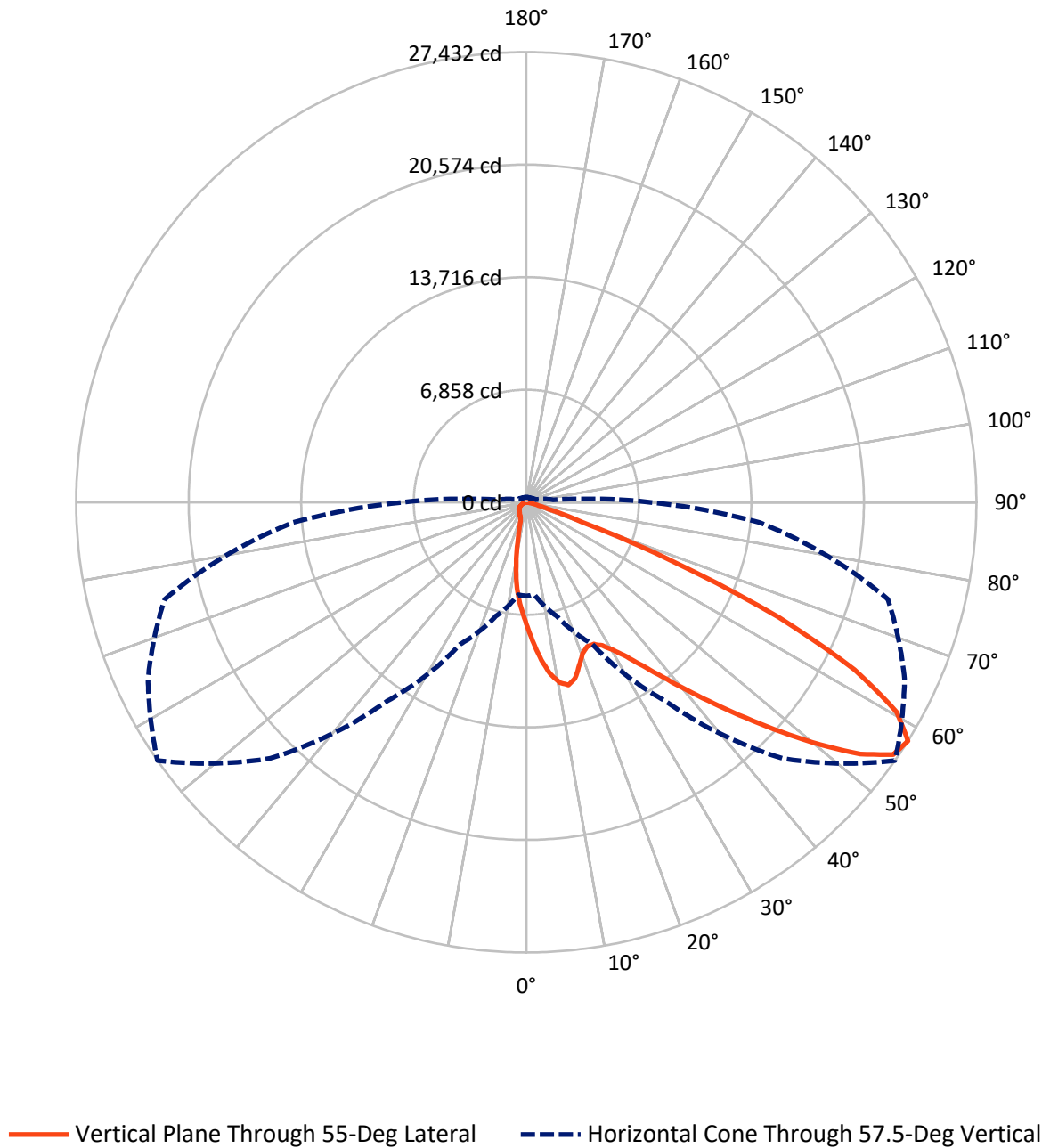
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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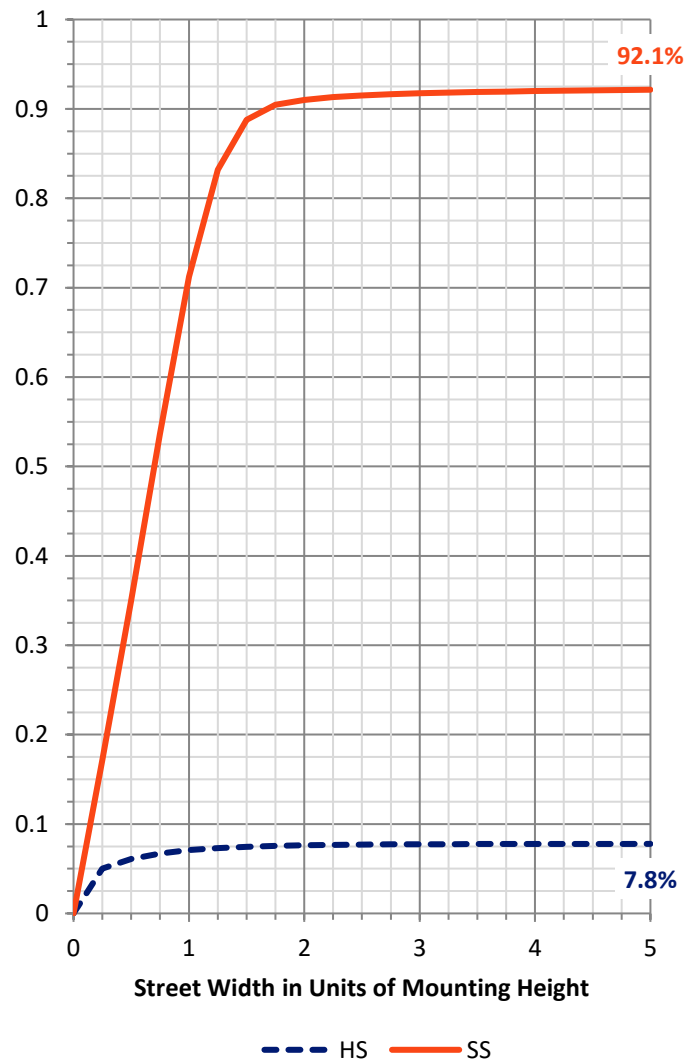
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2454.5	0.0	2454.5
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	28974.5	0.0	28974.5
	% Fixture	92.2	0.0	92.2
Total	Lumens	31429.0	0.0	31429.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	704.7	2.2
10°-20°	1702.2	5.4
20°-30°	2723.4	8.7
30°-40°	4609.6	14.7
40°-50°	7568.0	24.1
50°-60°	8317.7	26.5
60°-70°	4771.1	15.2
70°-80°	974.9	3.1
80°-90°	57.5	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°	31429.0	100.0
0°-180°	31429.0	100.0

Coefficient of Utilization



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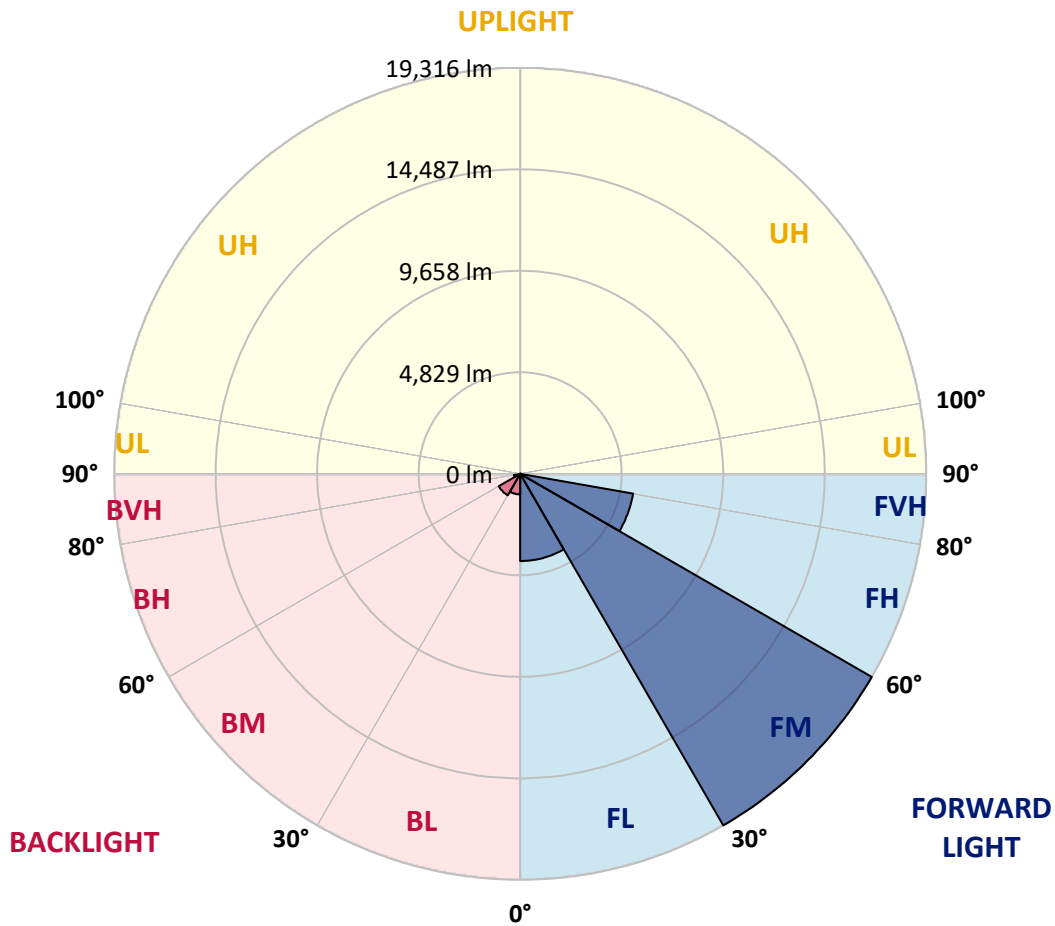
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4150.4	13.2			
FM (30°-60°)	19316.5	61.5			
FH (60°-80°)	5454.0	17.4			G3/7500
FVH (80°-90°)	53.6	0.2			G1/100
BL (0°-30°)	979.9	3.1	B2/1000		
BM (30°-60°)	1178.8	3.8	B2/2500		
BH (60°-80°)	291.9	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°	7573.6	7573.6	7573.6	7573.6	7573.6	7573.6	7573.6	7573.6	7573.6	7573.6
2.5°	9397.3	9279.0	9261.6	9238.3	9013.5	8844.9	8600.7	8333.3	8032.9	7726.7
5°	10856.5	10763.5	10746.1	10637.6	10381.7	10094.9	9660.8	9112.4	8552.3	7893.4
7.5°	11139.5	11122.1	11201.5	11197.6	11162.7	10936.0	10569.7	9916.6	9075.5	8098.8
10°	9877.9	9922.4	10158.9	10366.2	10926.3	11251.9	11172.4	10633.7	9614.3	8333.3
12.5°	8728.6	8676.3	8844.9	9079.4	9730.6	10699.6	11422.4	11232.5	10230.6	8598.8
15°	8007.7	7986.4	8081.4	8189.9	8686.0	9662.8	11131.7	11718.9	10823.6	8912.8
17.5°	7777.1	7759.7	7788.7	7815.9	8137.6	8893.4	10439.9	12017.4	11391.4	9271.3
20°	7965.1	7941.8	7938.0	7916.6	8050.4	8565.9	9813.9	12038.7	11901.1	9596.9
22.5°	8513.5	8486.4	8391.4	8306.2	8317.8	8610.4	9534.8	11825.5	12284.8	9901.1
25°	9507.7	9463.1	9265.5	8978.6	8796.5	8920.5	9577.5	11544.5	12651.1	10139.5
27.5°	10751.9	10693.8	10439.9	10013.5	9596.9	9445.7	9885.6	11350.7	12955.4	10321.7
30°	11970.9	11895.3	11645.3	11313.9	10705.4	10228.6	10441.8	11436.0	13317.8	10511.6
32.5°	13286.8	13215.1	12883.7	12472.8	11968.9	11327.5	11203.4	11852.7	13761.6	10777.1
35°	14951.5	14839.1	14368.2	13808.1	13273.2	12624.0	12234.4	12571.7	14352.7	11182.1
37.5°	16846.8	16695.7	16187.9	15414.7	14717.0	13990.3	13490.3	13560.0	15218.9	11724.8
40°	18633.6	18496.1	18027.1	17298.4	16422.4	15540.6	15007.7	14852.7	16414.7	12385.6
42.5°	19705.4	19581.3	19383.6	19075.5	18337.1	17437.9	16765.4	16430.2	17829.4	13176.3
45°	19765.4	19656.9	19922.4	20280.9	20135.6	19536.7	18717.0	18102.6	19249.9	13918.6
47.5°	18804.2	18730.5	19536.7	20788.7	21412.7	21664.6	20908.8	19635.6	20422.4	14451.5
50°	16184.0	16156.9	17815.8	20114.3	21899.1	23529.0	23220.8	21061.9	21331.3	14726.7
52.5°	14032.9	13934.1	14901.1	17955.4	21191.8	24509.6	25480.5	22461.2	21967.0	14779.0
55°	10643.4	10556.2	11769.3	14343.0	18910.8	24160.8	27133.6	23904.9	22422.4	14645.3
57.5°	5709.3	5655.0	7188.0	9546.5	14782.9	22067.7	27432.1	25432.1	22806.1	14290.6
60°	2222.9	2213.2	2786.8	4631.8	8984.5	17953.4	25926.3	26348.7	23046.4	13854.6
62.5°	1345.0	1374.0	1467.0	2079.4	3969.0	11153.1	22455.3	25306.1	23207.3	13455.4
65°	1112.4	1114.3	1126.0	1428.3	1901.2	4666.6	16905.0	21875.9	22810.0	12744.1
67.5°	953.5	970.9	1015.5	1133.7	1341.1	2046.5	9732.5	16945.7	20393.3	11089.1
70°	751.9	775.2	831.4	932.2	1034.9	1281.0	3596.9	11275.2	15579.4	8358.5
72.5°	633.7	631.8	660.9	757.7	821.7	901.2	1383.7	6317.8	9054.2	3990.3
75°	490.3	509.7	546.5	633.7	672.5	653.1	750.0	2308.1	3244.2	1209.3
77.5°	383.7	399.2	432.2	517.4	556.2	463.2	432.2	825.6	1042.6	434.1
80°	172.5	186.0	294.6	381.8	453.5	319.8	234.5	422.5	463.2	197.7
82.5°	31.0	52.3	172.5	201.5	232.6	207.4	122.1	219.0	226.7	79.5
85°	1.9	3.9	60.1	73.6	93.0	67.8	36.8	87.2	75.6	27.1
87.5°	0.0	0.0	0.0	1.9	1.9	9.7	11.6	15.5	11.6	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°
7573.6	0°	7573.6	7573.6	7573.6	7573.6	7573.6	7573.6	7573.6	7573.6	7573.6	7573.6
7591.1	2.5°	7451.5	7176.3	6908.9	6689.9	6562.0	6344.9	6201.5	6178.3	6118.2	6170.5
7610.4	5°	7308.1	6815.9	6317.8	5872.1	5505.8	5032.9	4680.2	4531.0	4401.1	4445.7
7660.8	7.5°	7240.3	6463.2	5688.0	4926.3	4143.4	3387.6	2825.6	2591.1	2412.8	2438.0
7717.0	10°	7149.2	6096.9	4881.8	3719.0	2670.5	1924.4	1536.8	1393.4	1313.9	1315.9
7800.4	12.5°	7079.4	5658.9	3945.7	2521.3	1626.0	1228.7	1108.5	1073.6	1050.4	1052.3
7926.3	15°	7044.5	5143.4	3021.3	1680.2	1162.8	1040.7	1011.6	996.1	980.6	978.7
8065.9	17.5°	6986.4	4569.7	2211.2	1226.7	1017.4	974.8	949.6	932.2	912.8	908.9
8186.0	20°	6899.2	3918.6	1616.3	1036.8	953.5	920.5	885.7	862.4	839.1	835.3
8261.6	22.5°	6738.3	3230.6	1242.2	959.3	907.0	870.2	827.5	800.4	777.1	773.3
8224.8	25°	6439.9	2585.3	1046.5	910.8	866.3	821.7	775.2	738.4	717.1	713.2
8145.3	27.5°	6062.0	2031.0	949.6	866.3	814.0	773.3	720.9	686.0	666.7	662.8
8040.7	30°	5616.3	1563.9	893.4	815.9	751.9	717.1	670.5	641.5	629.8	629.8
7967.0	32.5°	5135.6	1250.0	870.2	765.5	697.7	658.9	622.1	610.5	606.6	604.6
8007.7	35°	4684.1	1085.3	858.5	724.8	649.2	612.4	596.9	598.8	606.6	606.6
8133.7	37.5°	4282.9	1032.9	852.7	695.7	606.6	573.6	583.3	600.8	593.0	593.0
8354.6	40°	3920.5	1038.8	848.8	674.4	571.7	552.3	571.7	558.1	538.8	536.8
8624.0	42.5°	3643.4	1087.2	841.1	657.0	550.4	536.8	529.1	507.7	505.8	509.7
8903.1	45°	3441.8	1129.8	839.1	649.2	527.1	501.9	492.2	470.9	509.7	519.4
9017.4	47.5°	3203.5	1129.8	839.1	622.1	488.4	478.7	463.2	439.9	478.7	488.4
8908.9	50°	2895.3	1058.1	806.2	591.1	457.4	451.5	424.4	395.3	387.6	393.4
8655.0	52.5°	2505.8	928.3	722.9	548.4	426.4	414.7	381.8	360.5	354.6	354.6
8199.6	55°	2062.0	777.1	610.5	486.4	393.4	372.1	348.8	339.1	333.3	329.5
7562.0	57.5°	1676.4	637.6	490.3	432.2	362.4	335.3	327.5	315.9	306.2	300.4
7029.0	60°	1376.0	501.9	405.0	383.7	331.4	306.2	304.3	288.8	263.6	259.7
6589.1	62.5°	1062.0	368.2	341.1	333.3	300.4	279.1	275.2	244.2	205.4	197.7
5965.1	65°	750.0	286.8	275.2	292.6	267.4	248.1	238.4	191.9	151.2	145.3
4992.2	67.5°	527.1	240.3	217.1	255.8	232.6	207.4	201.5	162.8	126.0	122.1
3775.2	70°	376.0	195.7	178.3	219.0	186.0	182.2	170.5	135.7	102.7	98.8
1868.2	72.5°	265.5	149.2	137.6	189.9	127.9	157.0	139.5	104.7	77.5	73.6
635.7	75°	195.7	106.6	96.9	110.5	93.0	118.2	98.8	69.8	48.4	46.5
286.8	77.5°	143.4	67.8	58.1	54.3	54.3	73.6	54.3	29.1	21.3	19.4
145.3	80°	100.8	31.0	27.1	23.3	21.3	17.4	7.8	3.9	1.9	1.9
50.4	82.5°	60.1	13.6	13.6	9.7	5.8	0.0	0.0	0.0	0.0	0.0
19.4	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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