

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: P956214

Luminaire Tested: **GALN-SB8D-940-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956214
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-SB8D-940-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 4000K, 900mA 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: 50839 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

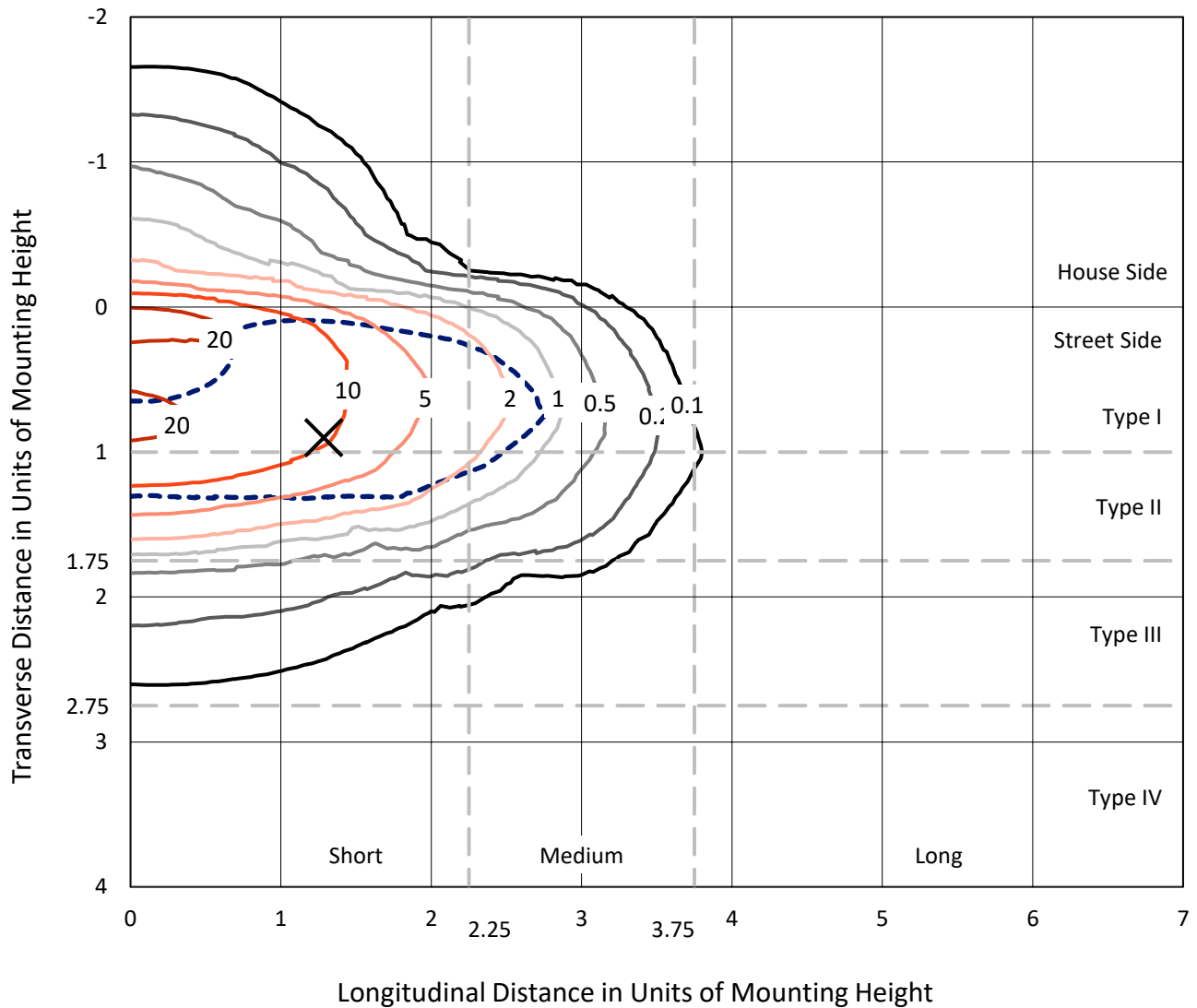
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

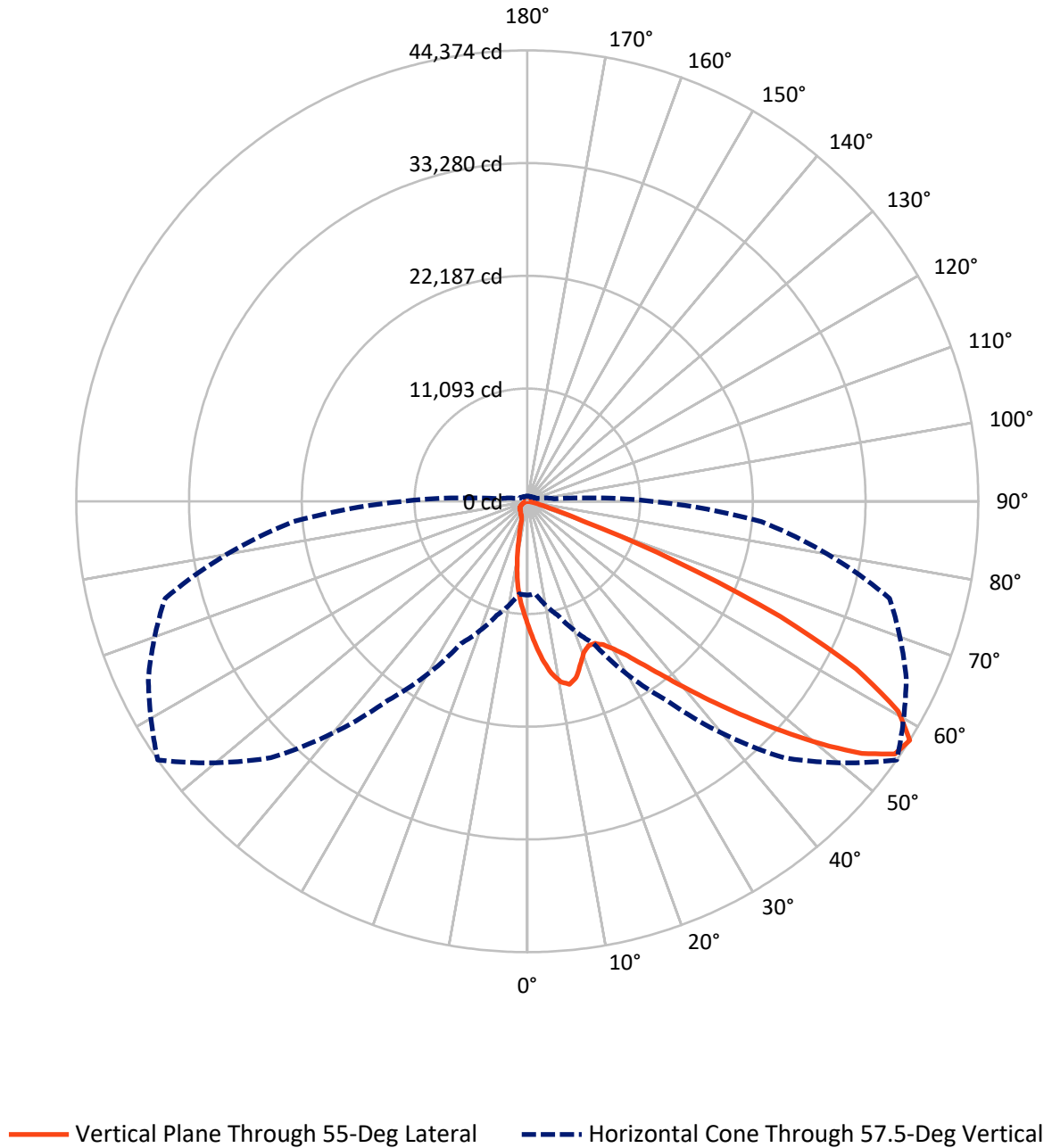
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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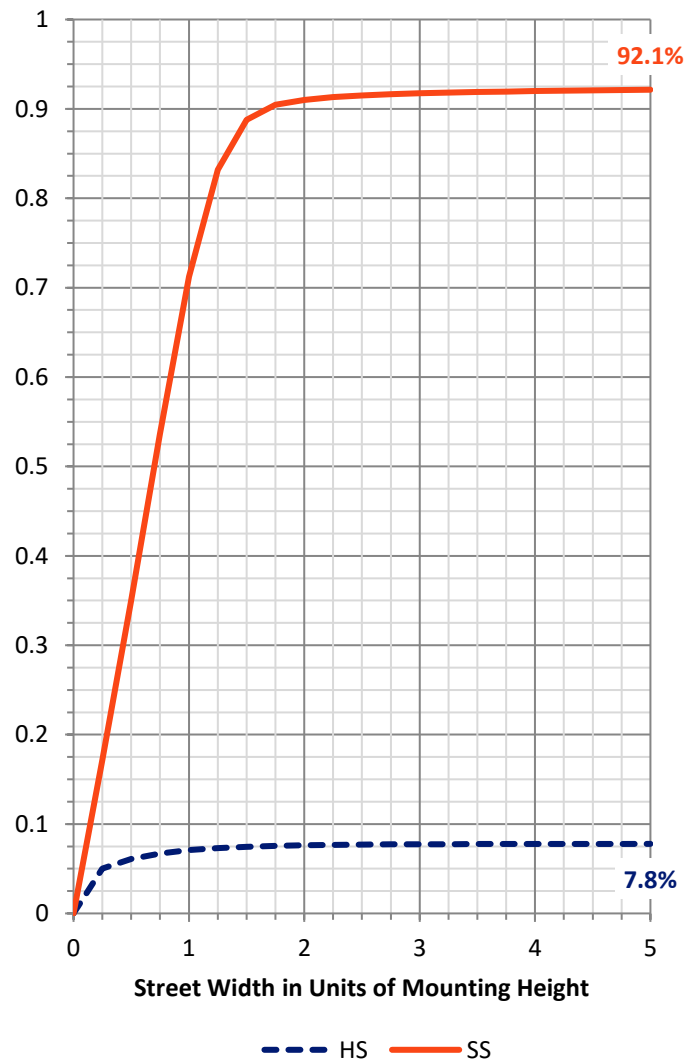
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3970.3	0.0	3970.3
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	46868.7	0.0	46868.7
	% Fixture	92.2	0.0	92.2
Total	Lumens	50839.0	0.0	50839.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1139.9	2.2
10°-20°	2753.4	5.4
20°-30°	4405.4	8.7
30°-40°	7456.4	14.7
40°-50°	12241.8	24.1
50°-60°	13454.6	26.5
60°-70°	7717.6	15.2
70°-80°	1576.9	3.1
80°-90°	93.0	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°	50839.0	100.0
0°-180°	50839.0	100.0

Coefficient of Utilization



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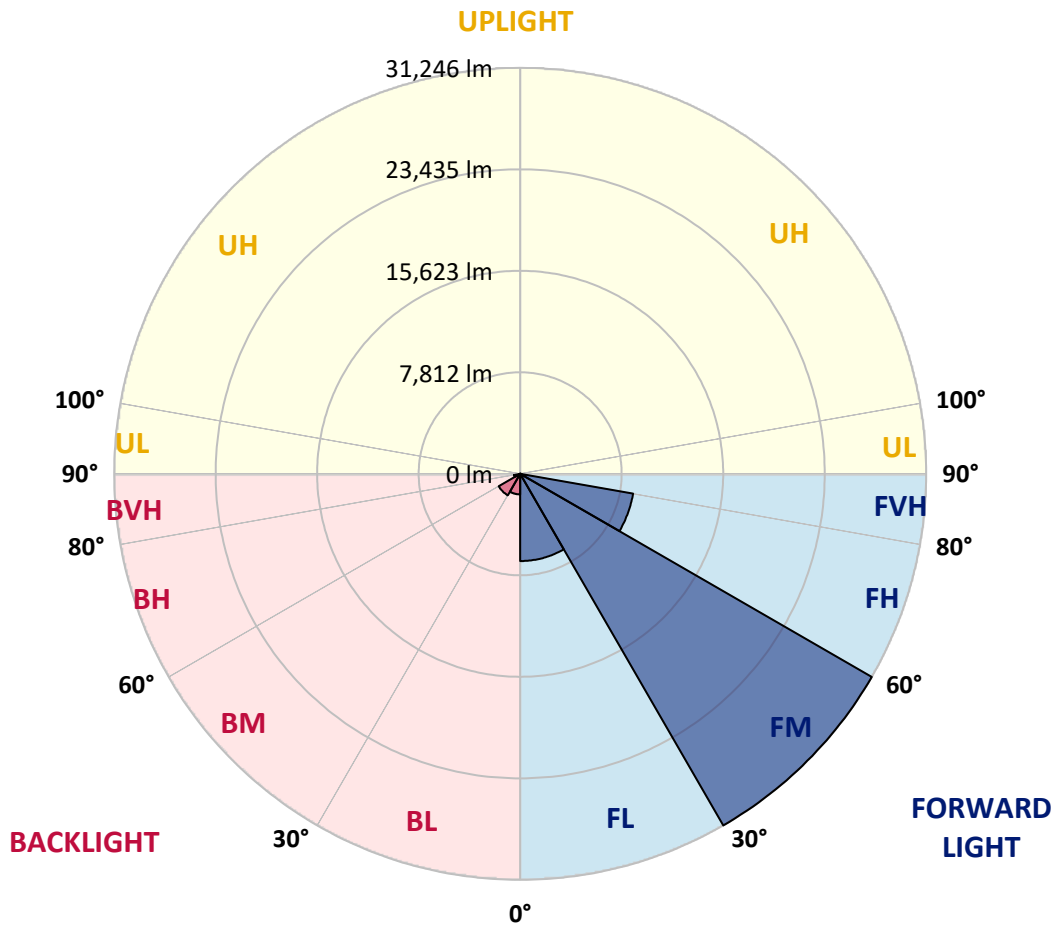
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6713.6	13.2			
FM (30°-60°)	31246.0	61.5			
FH (60°-80°)	8822.3	17.4			G4/12000
FVH (80°-90°)	86.7	0.2			G1/100
BL (0°-30°)	1585.1	3.1	B3/2500		
BM (30°-60°)	1906.8	3.8	B2/2500		
BH (60°-80°)	472.2	0.9	B1/500		G1/500
BVH (80°-90°)	6.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12250.9	12250.9	12250.9	12250.9	12250.9	12250.9	12250.9	12250.9	12250.9	12250.9
2.5°	15200.8	15009.6	14981.4	14943.8	14580.1	14307.4	13912.4	13479.8	12993.9	12498.6
5°	17561.4	17410.9	17382.7	17207.1	16793.3	16329.4	15627.2	14740.0	13834.0	12768.2
7.5°	18019.0	17990.8	18119.4	18113.1	18056.7	17689.9	17097.4	16041.0	14680.4	13100.5
10°	15978.3	16050.4	16432.8	16768.2	17674.2	18200.9	18072.3	17200.9	15551.9	13479.8
12.5°	14119.3	14034.7	14307.4	14686.7	15740.0	17307.4	18476.7	18169.5	16548.8	13909.3
15°	12953.1	12918.7	13072.3	13247.8	14050.3	15630.3	18006.5	18956.4	17508.1	14417.1
17.5°	12580.1	12551.9	12598.9	12642.8	13163.2	14385.8	16887.4	19439.1	18426.6	14997.1
20°	12884.2	12846.6	12840.3	12805.8	13022.1	13856.0	15874.8	19473.6	19251.0	15523.7
22.5°	13771.3	13727.5	13573.8	13435.9	13454.7	13928.1	15423.4	19128.8	19871.7	16015.9
25°	15379.5	15307.4	14987.7	14523.7	14229.0	14429.7	15492.4	18674.2	20464.2	16401.5
27.5°	17392.1	17298.0	16887.4	16197.7	15523.7	15279.2	15990.8	18360.7	20956.4	16696.1
30°	19363.9	19241.6	18837.2	18301.2	17316.8	16545.7	16890.5	18498.7	21542.6	17003.4
32.5°	21492.4	21376.5	20840.4	20175.8	19360.8	18323.1	18122.5	19172.7	22260.5	17432.8
35°	24185.3	24003.5	23241.7	22335.7	21470.5	20420.3	19790.2	20335.7	23216.6	18088.0
37.5°	27251.1	27006.6	26185.3	24934.5	23806.0	22630.4	21821.6	21934.5	24617.9	18965.8
40°	30141.5	29918.9	29160.3	27981.6	26564.6	25138.3	24276.2	24025.4	26552.1	20034.7
42.5°	31875.0	31674.4	31354.6	30856.2	29661.8	28207.3	27119.5	26577.2	28840.5	21313.8
45°	31972.2	31796.7	32226.1	32806.1	32571.0	31602.3	30276.3	29282.5	31138.3	22514.4
47.5°	30417.3	30298.2	31602.3	33627.4	34636.8	35044.4	33821.8	31762.2	33034.9	23376.5
50°	26179.0	26135.1	28818.6	32536.5	35423.7	38060.1	37561.6	34069.4	34505.2	23821.6
52.5°	22699.4	22539.5	24103.8	29044.3	34279.5	39646.3	41216.8	36332.8	35533.4	23906.3
55°	17216.5	17075.5	19037.9	23200.9	30589.7	39082.0	43890.9	38668.2	36270.1	23690.0
57.5°	9235.2	9147.5	11627.1	15442.2	23912.5	35696.4	44373.6	41138.5	36890.8	23116.3
60°	3595.7	3580.0	4507.9	7492.3	14533.1	29041.1	41937.9	42621.3	37279.5	22411.0
62.5°	2175.6	2222.6	2373.1	3363.7	6420.1	18041.0	36323.4	40934.7	37539.7	21765.2
65°	1799.4	1802.5	1821.3	2310.4	3075.3	7548.7	27345.2	35386.0	36897.0	20614.7
67.5°	1542.3	1570.6	1642.7	1833.9	2169.3	3310.4	15743.2	27411.0	32987.9	17937.5
70°	1216.3	1253.9	1344.8	1507.9	1674.0	2072.1	5818.3	18238.5	25201.0	13520.6
72.5°	1025.1	1022.0	1069.0	1225.7	1329.2	1457.7	2238.3	10219.6	14646.0	6454.6
75°	793.1	824.5	884.0	1025.1	1087.8	1056.4	1213.2	3733.6	5247.7	1956.1
77.5°	620.7	645.8	699.1	837.0	899.7	749.2	699.1	1335.4	1686.5	702.2
80°	279.0	300.9	476.5	617.6	733.6	517.2	379.3	683.4	749.2	319.8
82.5°	50.2	84.6	279.0	326.0	376.2	335.4	197.5	354.2	366.8	128.5
85°	3.1	6.3	97.2	119.1	150.5	109.7	59.6	141.1	122.3	43.9
87.5°	0.0	0.0	0.0	3.1	3.1	15.7	18.8	25.1	18.8	15.7
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°
12250.9	0°	12250.9	12250.9	12250.9	12250.9	12250.9	12250.9	12250.9	12250.9	12250.9	12250.9
12279.2	2.5°	12053.5	11608.3	11175.7	10821.5	10614.6	10263.5	10031.5	9993.9	9896.7	9981.3
12310.5	5°	11821.5	11025.2	10219.6	9498.6	8906.1	8141.2	7570.6	7329.3	7119.2	7191.3
12392.0	7.5°	11711.8	10454.7	9200.7	7968.8	6702.3	5479.7	4570.6	4191.3	3902.9	3943.6
12482.9	10°	11564.4	9862.2	7896.7	6015.8	4319.8	3112.9	2485.9	2253.9	2125.4	2128.6
12617.7	12.5°	11451.6	9153.7	6382.5	4078.4	2630.1	1987.5	1793.1	1736.7	1699.1	1702.2
12821.5	15°	11395.1	8319.9	4887.2	2717.9	1880.9	1683.4	1636.4	1611.3	1586.2	1583.1
13047.2	17.5°	11301.1	7391.9	3576.8	1984.4	1645.8	1576.8	1536.1	1507.9	1476.5	1470.2
13241.6	20°	11160.0	6338.6	2614.5	1677.1	1542.3	1489.0	1432.6	1395.0	1357.4	1351.1
13363.8	22.5°	10899.8	5225.8	2009.4	1551.7	1467.1	1407.5	1338.6	1294.7	1257.1	1250.8
13304.3	25°	10417.1	4181.9	1692.8	1473.4	1401.3	1329.2	1253.9	1194.4	1159.9	1153.6
13175.7	27.5°	9805.8	3285.3	1536.1	1401.3	1316.6	1250.8	1166.2	1109.7	1078.4	1072.1
13006.4	30°	9084.8	2529.8	1445.2	1319.8	1216.3	1159.9	1084.7	1037.6	1018.8	1018.8
12887.3	32.5°	8307.3	2022.0	1407.5	1238.3	1128.5	1065.8	1006.3	987.5	981.2	978.1
12953.1	35°	7576.9	1755.5	1388.7	1172.4	1050.2	990.6	965.5	968.7	981.2	981.2
13156.9	37.5°	6928.0	1670.9	1379.3	1125.4	981.2	927.9	943.6	971.8	959.3	959.3
13514.3	40°	6341.8	1680.3	1373.1	1090.9	924.8	893.4	924.8	902.8	871.5	868.4
13950.0	42.5°	5893.5	1758.6	1360.5	1062.7	890.3	868.4	855.8	821.3	818.2	824.5
14401.4	45°	5567.5	1827.6	1357.4	1050.2	852.7	811.9	796.2	761.8	824.5	840.1
14586.4	47.5°	5181.9	1827.6	1357.4	1006.3	790.0	774.3	749.2	711.6	774.3	790.0
14410.8	50°	4683.4	1711.6	1304.1	956.1	739.8	730.4	686.5	639.5	627.0	636.4
14000.2	52.5°	4053.3	1501.6	1169.3	887.2	689.7	670.9	617.6	583.1	573.7	573.7
13263.5	55°	3335.5	1257.1	987.5	786.8	636.4	601.9	564.3	548.6	539.2	532.9
12232.1	57.5°	2711.6	1031.4	793.1	699.1	586.2	542.3	529.8	511.0	495.3	485.9
11370.1	60°	2225.7	811.9	655.2	620.7	536.1	495.3	492.2	467.1	426.3	420.1
10658.4	62.5°	1717.9	595.6	551.7	539.2	485.9	451.4	445.1	395.0	332.3	319.8
9649.0	65°	1213.2	464.0	445.1	473.4	432.6	401.3	385.6	310.3	244.5	235.1
8075.3	67.5°	852.7	388.7	351.1	413.8	376.2	335.4	326.0	263.3	203.8	197.5
6106.7	70°	608.2	316.6	288.4	354.2	300.9	294.7	275.9	219.4	166.1	159.9
3022.0	72.5°	429.5	241.4	222.6	307.2	206.9	253.9	225.7	169.3	125.4	119.1
1028.2	75°	316.6	172.4	156.7	178.7	150.5	191.2	159.9	112.9	78.4	75.2
464.0	77.5°	232.0	109.7	94.0	87.8	87.8	119.1	87.8	47.0	34.5	31.3
235.1	80°	163.0	50.2	43.9	37.6	34.5	28.2	12.5	6.3	3.1	3.1
81.5	82.5°	97.2	21.9	21.9	15.7	9.4	0.0	0.0	0.0	0.0	0.0
31.3	85°	21.9	9.4	9.4	3.1	0.0	0.0	0.0	0.0	0.0	0.0
12.5	87.5°	3.1	3.1	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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