

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: P956235

Luminaire Tested: **GALN-SB8D-950-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956235  
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-950-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

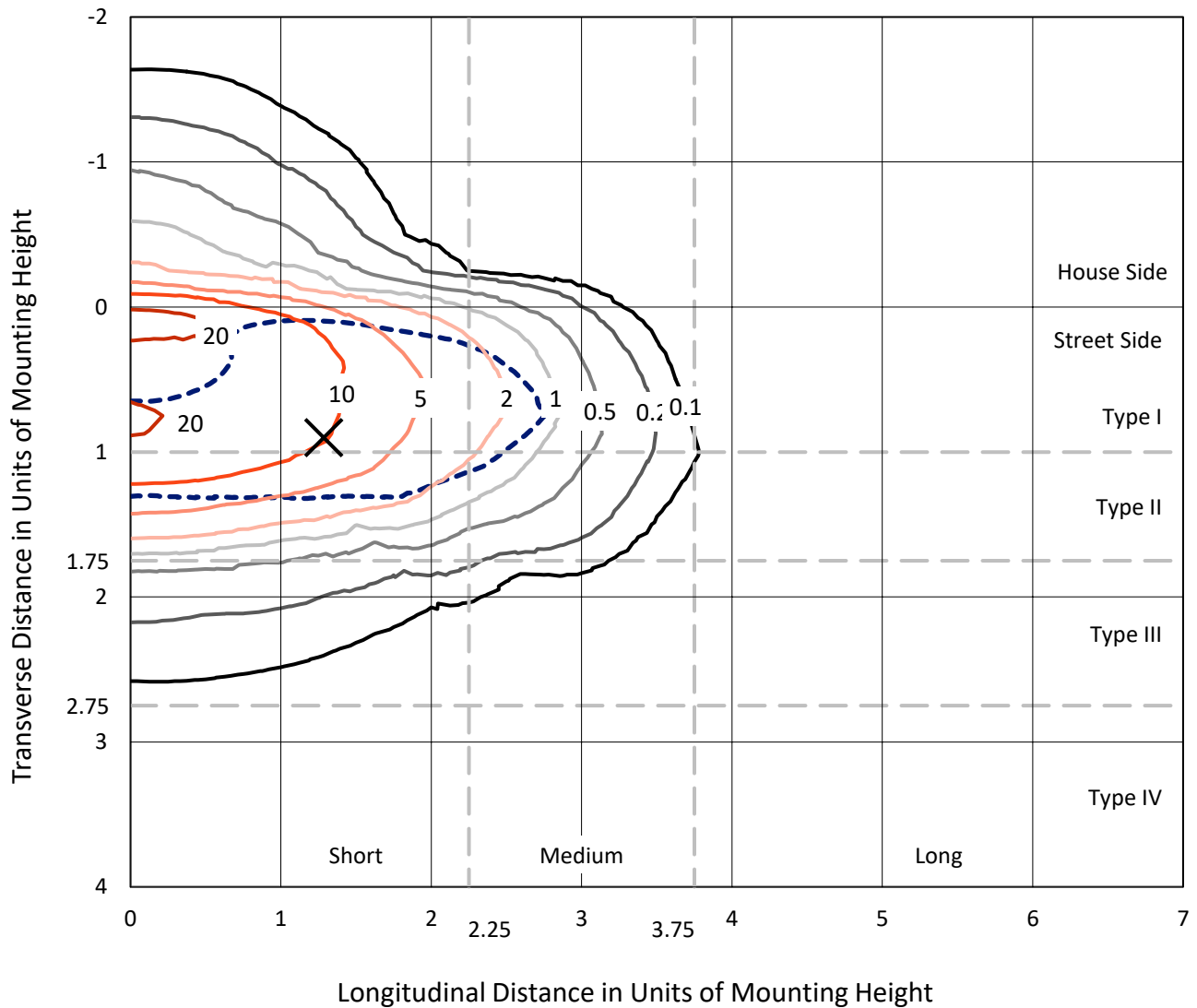
Lumens per Lamp: N/A  
Luminaire Lumens: 48806 lumens  
Efficiency: N/A  
Efficacy: 83.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

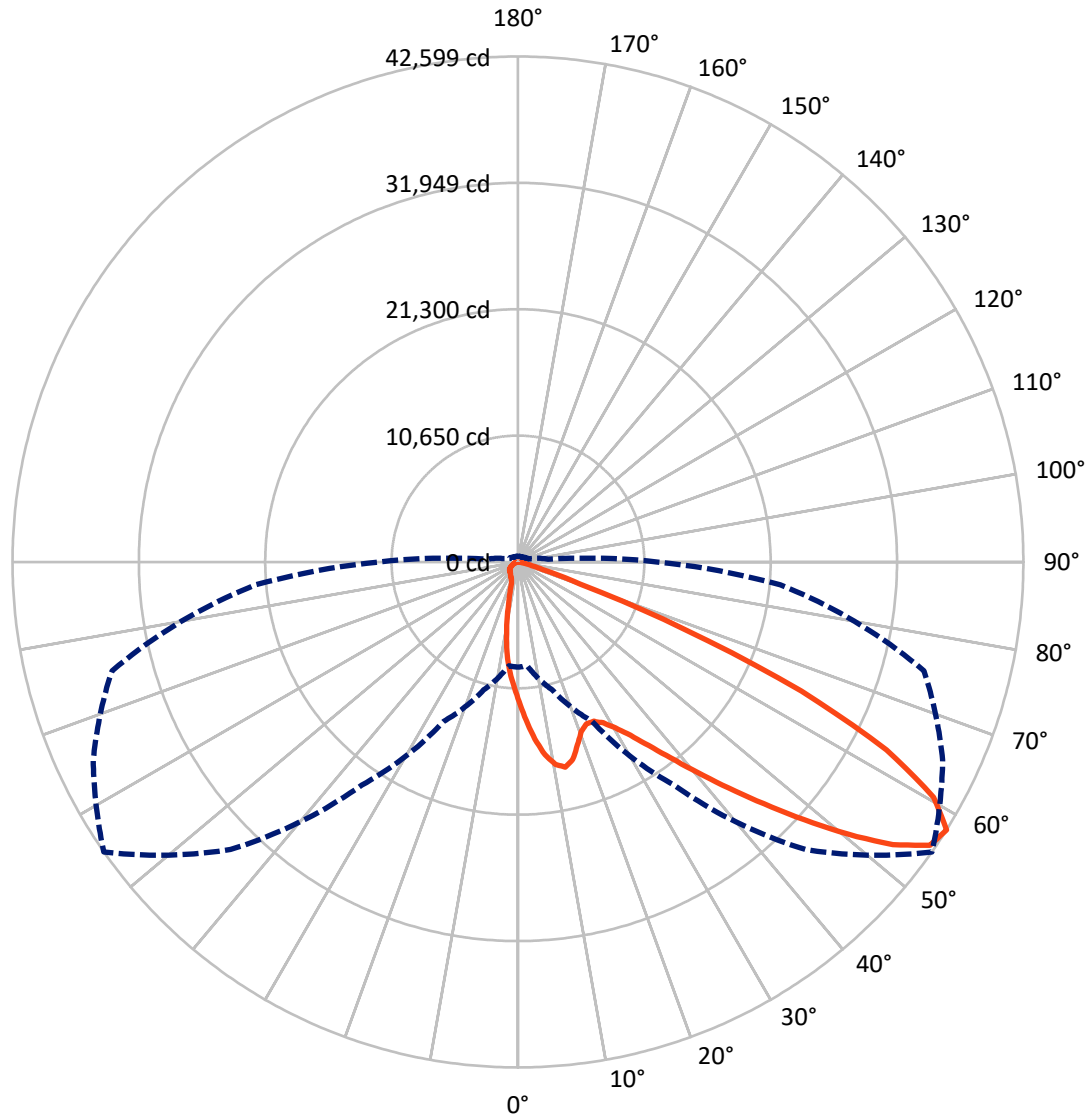
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.9 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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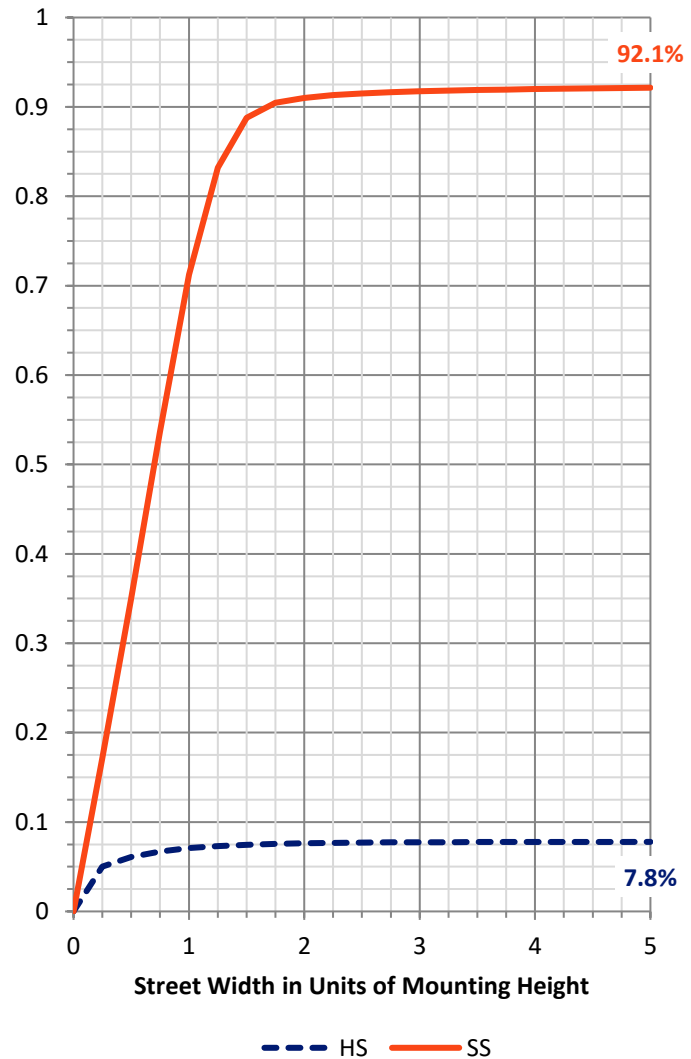
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3811.5	0.0	3811.5
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	44994.5	0.0	44994.5
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	48806.0	0.0	48806.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1094.3	2.2
10°-20°	2643.3	5.4
20°-30°	4229.2	8.7
30°-40°	7158.2	14.7
40°-50°	11752.3	24.1
50°-60°	12916.6	26.5
60°-70°	7409.0	15.2
70°-80°	1513.9	3.1
80°-90°	89.3	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°	48806.0	100.0
0°-180°	48806.0	100.0

**Coefficient of Utilization**



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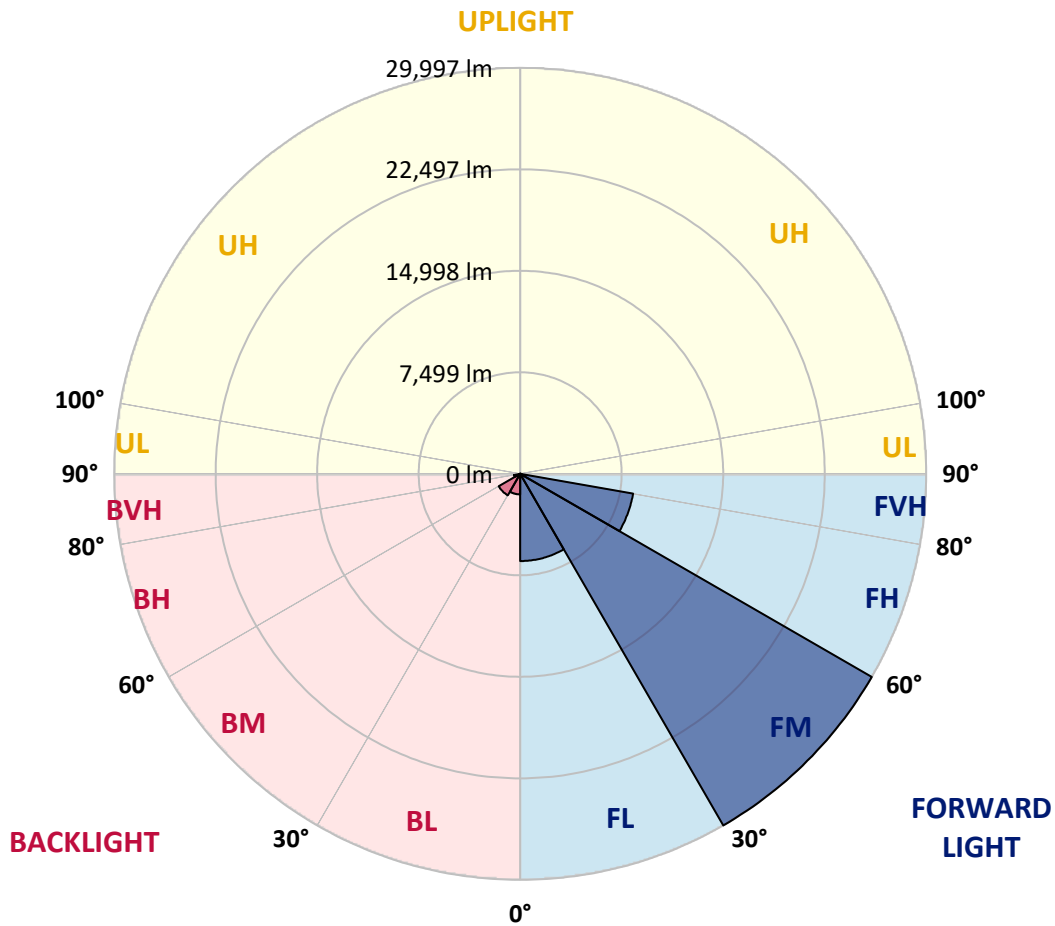
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6445.1	13.2			
FM (30°-60°)	29996.5	61.5			
FH (60°-80°)	8469.5	17.4			G4/12000
FVH (80°-90°)	83.3	0.2			G1/100
BL (0°-30°)	1521.7	3.1	B3/2500		
BM (30°-60°)	1830.6	3.8	B2/2500		
BH (60°-80°)	453.3	0.9	B1/500		G1/500
BVH (80°-90°)	6.0	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°	11761.0	11761.0	11761.0	11761.0	11761.0	11761.0	11761.0	11761.0	11761.0	11761.0
2.5°	14593.0	14409.4	14382.3	14346.2	13997.1	13735.3	13356.1	12940.8	12474.3	11998.8
5°	16859.1	16714.6	16687.6	16519.0	16121.8	15676.4	15002.3	14150.6	13280.8	12257.6
7.5°	17298.5	17271.4	17394.8	17388.8	17334.6	16982.5	16413.7	15399.5	14093.4	12576.6
10°	15339.3	15408.5	15775.7	16097.7	16967.4	17473.0	17349.6	16513.0	14930.0	12940.8
12.5°	13554.7	13473.4	13735.3	14099.4	15110.6	16615.3	17737.9	17442.9	15887.0	13353.1
15°	12435.2	12402.1	12549.5	12718.1	13488.5	15005.3	17286.4	18198.3	16807.9	13840.6
17.5°	12077.0	12050.0	12095.1	12137.2	12636.8	13810.5	16212.1	18661.8	17689.7	14397.3
20°	12369.0	12332.8	12326.8	12293.7	12501.4	13301.9	15240.0	18694.9	18481.2	14902.9
22.5°	13220.6	13178.5	13031.0	12898.6	12916.7	13371.1	14806.6	18363.8	19077.1	15375.4
25°	14764.5	14695.3	14388.3	13942.9	13660.0	13852.6	14872.8	17927.5	19645.9	15745.6
27.5°	16696.6	16606.3	16212.1	15550.0	14902.9	14668.2	15351.4	17626.5	20118.4	16028.5
30°	18589.6	18472.2	18084.0	17569.3	16624.4	15884.0	16215.1	17758.9	20681.1	16323.4
32.5°	20633.0	20521.6	20007.0	19369.0	18586.5	17590.4	17397.8	18406.0	21370.3	16735.7
35°	23218.1	23043.6	22312.3	21442.5	20611.9	19603.7	18998.8	19522.5	22288.2	17364.7
37.5°	26161.4	25926.7	25138.2	23937.4	22854.0	21725.4	20949.0	21057.3	23633.4	18207.3
40°	28936.1	28722.5	27994.2	26862.6	25502.3	24133.0	23305.4	23064.6	25490.3	19233.6
42.5°	30600.4	30407.8	30100.8	29622.3	28475.7	27079.3	26035.0	25514.4	27687.2	20461.4
45°	30693.7	30525.1	30937.4	31494.2	31268.5	30338.6	29065.5	28111.5	29893.2	21614.1
47.5°	29201.0	29086.6	30338.6	32282.7	33251.7	33643.0	32469.3	30492.0	31713.9	22441.7
50°	25132.2	25090.0	27666.1	31235.4	34007.1	36538.1	36059.6	32707.0	33125.3	22869.0
52.5°	21791.6	21638.2	23139.9	27882.8	32908.7	38060.9	39568.6	34879.9	34112.4	22950.3
55°	16528.1	16392.6	18276.6	22273.2	29366.5	37519.2	42135.7	37121.9	34819.7	22742.6
57.5°	8865.9	8781.7	11162.2	14824.7	22956.3	34268.9	42599.2	39493.4	35415.5	22191.9
60°	3451.9	3436.8	4327.6	7192.7	13951.9	27879.8	40260.8	40916.9	35788.7	21514.8
62.5°	2088.6	2133.7	2278.2	3229.2	6163.4	17319.6	34870.8	39297.8	36038.5	20894.8
65°	1727.4	1730.5	1748.5	2218.0	2952.3	7246.8	26251.7	33971.0	35421.6	19790.3
67.5°	1480.7	1507.7	1577.0	1760.5	2082.6	3178.0	15113.6	26314.9	31668.7	17220.2
70°	1167.7	1203.8	1291.1	1447.6	1607.1	1989.3	5585.6	17509.1	24193.2	12979.9
72.5°	984.1	981.1	1026.2	1176.7	1276.0	1399.4	2148.8	9810.9	14060.3	6196.5
75°	761.4	791.5	848.7	984.1	1044.3	1014.2	1164.7	3584.3	5037.9	1877.9
77.5°	595.9	620.0	671.1	803.5	863.7	719.3	671.1	1282.0	1619.1	674.1
80°	267.8	288.9	457.4	592.9	704.2	496.6	364.1	656.1	719.3	307.0
82.5°	48.2	81.3	267.8	313.0	361.1	322.0	189.6	340.1	352.1	123.4
85°	3.0	6.0	93.3	114.4	144.5	105.3	57.2	135.4	117.4	42.1
87.5°	0.0	0.0	0.0	3.0	3.0	15.0	18.1	24.1	18.1	15.0
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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**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
11761.0	0°	11761.0	11761.0	11761.0	11761.0	11761.0	11761.0	11761.0	11761.0	11761.0	11761.0
11788.1	2.5°	11571.4	11144.1	10728.8	10388.7	10190.1	9853.0	9630.3	9594.2	9500.9	9582.2
11818.2	5°	11348.7	10584.3	9810.9	9118.7	8549.9	7815.6	7267.9	7036.2	6834.5	6903.7
11896.5	7.5°	11243.4	10036.6	8832.8	7650.1	6434.3	5260.6	4387.8	4023.7	3746.8	3785.9
11983.7	10°	11102.0	9467.8	7580.9	5775.2	4147.1	2988.4	2386.5	2163.8	2040.4	2043.4
12113.2	12.5°	10993.6	8787.7	6127.3	3915.3	2525.0	1908.0	1721.4	1667.3	1631.1	1634.1
12308.8	15°	10939.5	7987.2	4691.8	2609.2	1805.7	1616.1	1570.9	1546.9	1522.8	1519.8
12525.5	17.5°	10849.2	7096.4	3433.8	1905.0	1580.0	1513.8	1474.6	1447.6	1417.5	1411.4
12712.0	20°	10713.7	6085.2	2509.9	1610.1	1480.7	1429.5	1375.3	1339.2	1303.1	1297.1
12829.4	22.5°	10464.0	5016.8	1929.1	1489.7	1408.4	1351.3	1285.0	1242.9	1206.8	1200.8
12772.2	25°	10000.5	4014.6	1625.1	1414.5	1345.2	1276.0	1203.8	1146.6	1113.5	1107.5
12648.8	27.5°	9413.6	3153.9	1474.6	1345.2	1264.0	1200.8	1119.5	1065.4	1035.3	1029.2
12486.3	30°	8721.5	2428.6	1387.4	1267.0	1167.7	1113.5	1041.3	996.1	978.1	978.1
12372.0	32.5°	7975.1	1941.1	1351.3	1188.7	1083.4	1023.2	966.0	948.0	942.0	939.0
12435.2	35°	7273.9	1685.3	1333.2	1125.5	1008.2	951.0	926.9	929.9	942.0	942.0
12630.8	37.5°	6650.9	1604.1	1324.2	1080.4	942.0	890.8	905.9	932.9	920.9	920.9
12973.9	40°	6088.2	1613.1	1318.2	1047.3	887.8	857.7	887.8	866.7	836.6	833.6
13392.2	42.5°	5657.8	1688.3	1306.1	1020.2	854.7	833.6	821.6	788.5	785.5	791.5
13825.5	45°	5344.8	1754.5	1303.1	1008.2	818.6	779.5	764.4	731.3	791.5	806.5
14003.1	47.5°	4974.7	1754.5	1303.1	966.0	758.4	743.3	719.3	683.2	743.3	758.4
13834.6	50°	4496.2	1643.2	1251.9	917.9	710.2	701.2	659.1	613.9	601.9	610.9
13440.3	52.5°	3891.3	1441.5	1122.5	851.7	662.1	644.0	592.9	559.8	550.7	550.7
12733.1	55°	3202.1	1206.8	948.0	755.4	610.9	577.8	541.7	526.7	517.6	511.6
11743.0	57.5°	2603.2	990.1	761.4	671.1	562.8	520.6	508.6	490.5	475.5	466.5
10915.4	60°	2136.7	779.5	629.0	595.9	514.6	475.5	472.5	448.4	409.3	403.3
10232.2	62.5°	1649.2	571.8	529.7	517.6	466.5	433.4	427.3	379.2	319.0	307.0
9263.2	65°	1164.7	445.4	427.3	454.4	415.3	385.2	370.2	297.9	234.7	225.7
7752.4	67.5°	818.6	373.2	337.1	397.3	361.1	322.0	313.0	252.8	195.6	189.6
5862.5	70°	583.8	304.0	276.9	340.1	288.9	282.9	264.8	210.7	159.5	153.5
2901.1	72.5°	412.3	231.7	213.7	294.9	198.6	243.8	216.7	162.5	120.4	114.4
987.1	75°	304.0	165.5	150.5	171.5	144.5	183.6	153.5	108.3	75.2	72.2
445.4	77.5°	222.7	105.3	90.3	84.3	84.3	114.4	84.3	45.1	33.1	30.1
225.7	80°	156.5	48.2	42.1	36.1	33.1	27.1	12.0	6.0	3.0	3.0
78.2	82.5°	93.3	21.1	21.1	15.0	9.0	0.0	0.0	0.0	0.0	0.0
30.1	85°	21.1	9.0	9.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
12.0	87.5°	3.0	3.0	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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