

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: P957117

Luminaire Tested: **GALN-SB9C-827-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957117  
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-SB9C-827-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

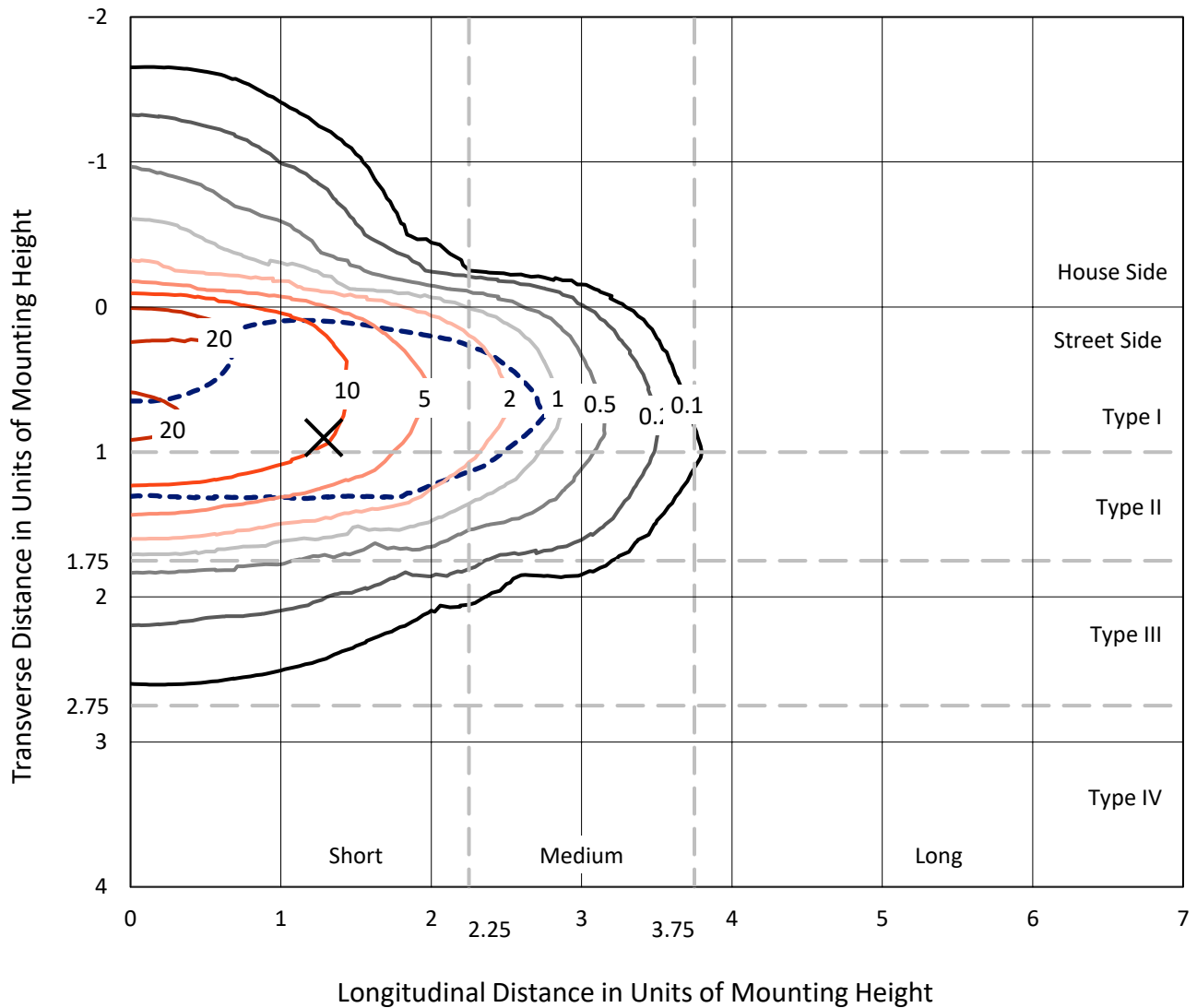
Lumens per Lamp: N/A  
Luminaire Lumens: 50574 lumens  
Efficiency: N/A  
Efficacy: 112.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 449.8  
Input Voltage (V): NR  
Input Current (Ain): 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

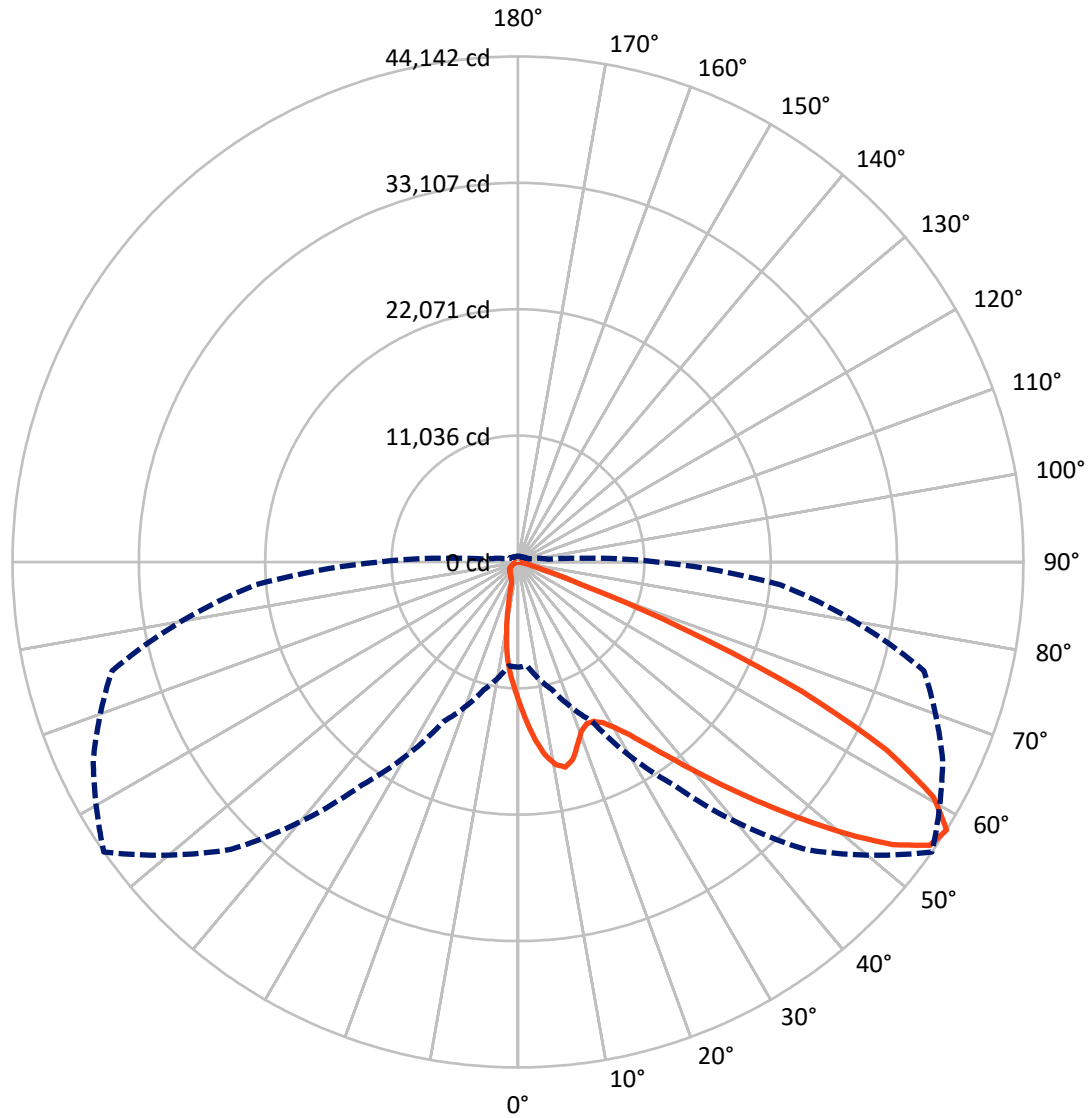
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 27.9 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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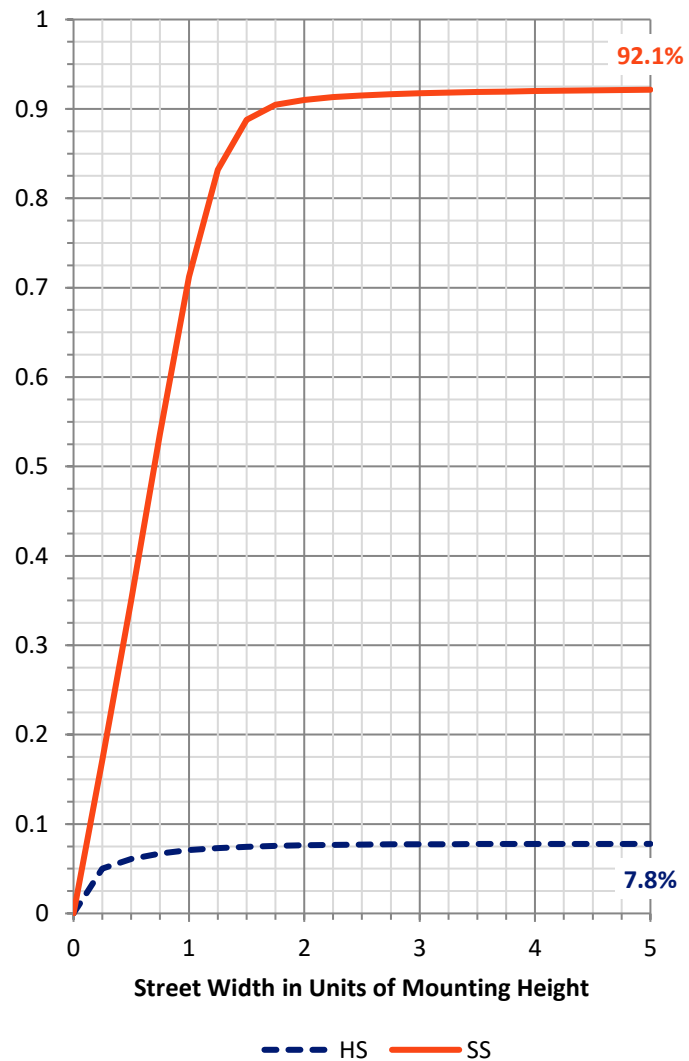
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3949.6	0.0	3949.6
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	46624.4	0.0	46624.4
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	50574.0	0.0	50574.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1133.9	2.2
10°-20°	2739.0	5.4
20°-30°	4382.4	8.7
30°-40°	7417.5	14.7
40°-50°	12178.0	24.1
50°-60°	13384.5	26.5
60°-70°	7677.3	15.2
70°-80°	1568.7	3.1
80°-90°	92.5	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°	50574.0	100.0
0°-180°	50574.0	100.0

**Coefficient of Utilization**



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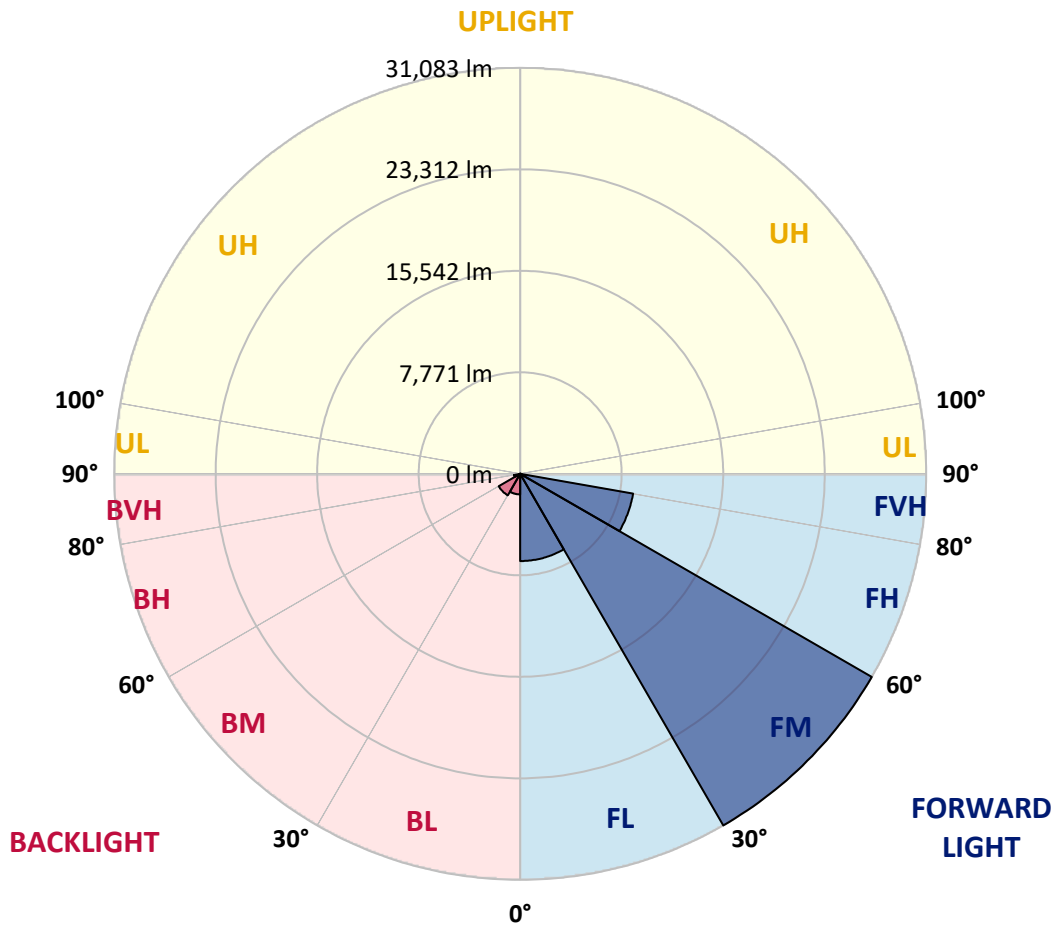
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6678.6	13.2			
FM (30°-60°)	31083.1	61.5			
FH (60°-80°)	8776.3	17.4			G4/12000
FVH (80°-90°)	86.3	0.2			G1/100
BL (0°-30°)	1576.8	3.1	B3/2500		
BM (30°-60°)	1896.9	3.8	B2/2500		
BH (60°-80°)	469.7	0.9	B1/500		G1/500
BVH (80°-90°)	6.2	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°	12187.1	12187.1	12187.1	12187.1	12187.1	12187.1	12187.1	12187.1	12187.1	12187.1
2.5°	15121.6	14931.4	14903.3	14865.9	14504.1	14232.8	13839.9	13409.5	12926.2	12433.4
5°	17469.8	17320.1	17292.1	17117.4	16705.8	16244.3	15545.7	14663.2	13761.9	12701.6
7.5°	17925.1	17897.1	18024.9	18018.7	17962.5	17597.7	17008.3	15957.4	14603.9	13032.2
10°	15895.0	15966.7	16347.2	16680.8	17582.1	18106.0	17978.1	17111.2	15470.9	13409.5
12.5°	14045.7	13961.5	14232.8	14610.2	15658.0	17217.2	18380.4	18074.8	16462.5	13836.8
15°	12885.6	12851.3	13004.1	13178.8	13977.1	15548.8	17912.6	18857.6	17416.8	14342.0
17.5°	12514.5	12486.5	12533.2	12576.9	13094.6	14310.8	16799.3	19337.8	18330.5	14918.9
20°	12817.0	12779.6	12773.4	12739.1	12954.2	13783.8	15792.1	19372.1	19150.7	15442.8
22.5°	13699.6	13655.9	13503.1	13365.9	13384.6	13855.5	15343.0	19029.1	19768.2	15932.4
25°	15299.3	15227.6	14909.5	14448.0	14154.9	14354.4	15411.6	18576.9	20357.6	16316.0
27.5°	17301.4	17207.9	16799.3	16113.3	15442.8	15199.6	15907.5	18265.0	20847.2	16609.1
30°	19263.0	19141.3	18739.1	18205.8	17226.6	16459.4	16802.5	18402.3	21430.3	16914.7
32.5°	21380.4	21265.0	20731.8	20070.6	19259.8	18227.6	18028.0	19072.7	22144.4	17342.0
35°	24059.2	23878.3	23120.5	22219.3	21358.6	20313.9	19687.1	20229.7	23095.6	17993.7
37.5°	27109.1	26865.9	26048.8	24804.5	23681.9	22512.4	21707.9	21820.1	24489.6	18866.9
40°	29984.4	29762.9	29008.3	27835.7	26426.1	25007.2	24149.6	23900.2	26413.7	19930.3
42.5°	31708.9	31509.3	31191.2	30695.4	29507.2	28060.2	26978.1	26438.6	28690.2	21202.7
45°	31805.6	31630.9	32058.2	32635.1	32401.2	31437.6	30118.4	29129.9	30976.0	22397.0
47.5°	30258.8	30140.3	31437.6	33452.1	34456.3	34861.7	33645.5	31596.6	32862.7	23254.6
50°	26042.6	25998.9	28668.3	32366.9	35239.0	37861.7	37365.8	33891.8	34325.3	23697.5
52.5°	22581.0	22422.0	23978.1	28892.9	34100.8	39439.6	41002.0	36143.4	35348.2	23781.7
55°	17126.8	16986.5	18938.6	23080.0	30430.3	38878.3	43662.1	38466.7	36081.0	23566.5
57.5°	9187.1	9099.8	11566.5	15361.7	23787.9	35510.3	44142.3	40924.0	36698.5	22995.8
60°	3576.9	3561.3	4484.4	7453.2	14457.4	28889.8	41719.3	42399.1	37085.2	22294.1
62.5°	2164.2	2211.0	2360.7	3346.1	6386.7	17947.0	36134.0	40721.3	37344.0	21651.7
65°	1790.0	1793.1	1811.8	2298.3	3059.2	7509.3	27202.7	35201.6	36704.7	20507.2
67.5°	1534.3	1562.4	1634.1	1824.3	2158.0	3293.1	15661.1	27268.1	32815.9	17844.0
70°	1210.0	1247.4	1337.8	1500.0	1665.3	2061.3	5787.9	18143.4	25069.6	13450.1
72.5°	1019.7	1016.6	1063.4	1219.3	1322.2	1450.1	2226.6	10166.3	14569.6	6421.0
75°	789.0	820.2	879.4	1019.7	1082.1	1050.9	1206.9	3714.1	5220.4	1945.9
77.5°	617.5	642.4	695.4	832.6	895.0	745.3	695.4	1328.5	1677.8	698.5
80°	277.5	299.4	474.0	614.3	729.7	514.6	377.3	679.8	745.3	318.1
82.5°	49.9	84.2	277.5	324.3	374.2	333.7	196.5	352.4	364.9	127.9
85°	3.1	6.2	96.7	118.5	149.7	109.1	59.3	140.3	121.6	43.7
87.5°	0.0	0.0	0.0	3.1	3.1	15.6	18.7	24.9	18.7	15.6
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°
12187.1	0°	12187.1	12187.1	12187.1	12187.1	12187.1	12187.1	12187.1	12187.1	12187.1	12187.1
12215.2	2.5°	11990.6	11547.8	11117.4	10765.1	10559.2	10210.0	9979.2	9941.8	9845.1	9929.3
12246.3	5°	11759.9	10967.8	10166.3	9449.0	8859.7	8098.7	7531.2	7291.0	7082.1	7153.8
12327.4	7.5°	11650.7	10400.2	9152.8	7927.2	6667.3	5451.1	4546.8	4169.4	3882.5	3923.1
12417.9	10°	11504.1	9810.8	7855.5	5984.4	4297.3	3096.7	2473.0	2242.2	2114.3	2117.5
12552.0	12.5°	11391.9	9106.0	6349.3	4057.2	2616.4	1977.1	1783.8	1727.6	1690.2	1693.3
12754.7	15°	11335.7	8276.5	4861.7	2703.7	1871.1	1674.6	1627.9	1602.9	1578.0	1574.8
12979.2	17.5°	11242.2	7353.4	3558.2	1974.0	1637.2	1568.6	1528.1	1500.0	1468.8	1462.6
13172.5	20°	11101.9	6305.6	2600.8	1668.4	1534.3	1481.3	1425.2	1387.7	1350.3	1344.1
13294.2	22.5°	10843.0	5198.5	1999.0	1543.7	1459.5	1400.2	1331.6	1287.9	1250.5	1244.3
13234.9	25°	10362.8	4160.1	1684.0	1465.7	1394.0	1322.2	1247.4	1188.1	1153.8	1147.6
13107.0	27.5°	9754.7	3268.2	1528.1	1394.0	1309.8	1244.3	1160.1	1103.9	1072.8	1066.5
12938.6	30°	9037.4	2516.6	1437.6	1312.9	1210.0	1153.8	1079.0	1032.2	1013.5	1013.5
12820.1	32.5°	8264.0	2011.4	1400.2	1231.8	1122.7	1060.3	1001.0	982.3	976.1	973.0
12885.6	35°	7537.4	1746.4	1381.5	1166.3	1044.7	985.4	960.5	963.6	976.1	976.1
13088.3	37.5°	6891.9	1662.2	1372.1	1119.5	976.1	923.1	938.7	966.7	954.3	954.3
13443.8	40°	6308.7	1671.5	1365.9	1085.2	920.0	888.8	920.0	898.1	866.9	863.8
13877.3	42.5°	5862.8	1749.5	1353.4	1057.2	885.7	863.8	851.3	817.0	813.9	820.2
14326.4	45°	5538.5	1818.1	1350.3	1044.7	848.2	807.7	792.1	757.8	820.2	835.8
14510.4	47.5°	5154.9	1818.1	1350.3	1001.0	785.9	770.3	745.3	707.9	770.3	785.9
14335.7	50°	4659.0	1702.7	1297.3	951.1	736.0	726.6	683.0	636.2	623.7	633.1
13927.2	52.5°	4032.2	1493.8	1163.2	882.5	686.1	667.4	614.3	580.0	570.7	570.7
13194.4	55°	3318.1	1250.5	982.3	782.7	633.1	598.8	561.3	545.7	536.4	530.1
12168.4	57.5°	2697.5	1026.0	789.0	695.4	583.2	539.5	527.0	508.3	492.7	483.4
11310.8	60°	2214.1	807.7	651.8	617.5	533.3	492.7	489.6	464.7	424.1	417.9
10602.9	62.5°	1708.9	592.5	548.9	536.4	483.4	449.1	442.8	392.9	330.6	318.1
9598.7	65°	1206.9	461.5	442.8	470.9	430.4	399.2	383.6	308.7	243.2	233.9
8033.2	67.5°	848.2	386.7	349.3	411.6	374.2	333.7	324.3	262.0	202.7	196.5
6074.8	70°	605.0	315.0	286.9	352.4	299.4	293.1	274.4	218.3	165.3	159.0
3006.2	72.5°	427.2	240.1	221.4	305.6	205.8	252.6	224.5	168.4	124.7	118.5
1022.9	75°	315.0	171.5	155.9	177.8	149.7	190.2	159.0	112.3	78.0	74.8
461.5	77.5°	230.8	109.1	93.6	87.3	87.3	118.5	87.3	46.8	34.3	31.2
233.9	80°	162.2	49.9	43.7	37.4	34.3	28.1	12.5	6.2	3.1	3.1
81.1	82.5°	96.7	21.8	21.8	15.6	9.4	0.0	0.0	0.0	0.0	0.0
31.2	85°	21.8	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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