

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: P956046

Luminaire Tested: **GALN-SB8D-827-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956046
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-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 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: 61007 lumens
Efficiency: N/A
Efficacy: 104.3 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

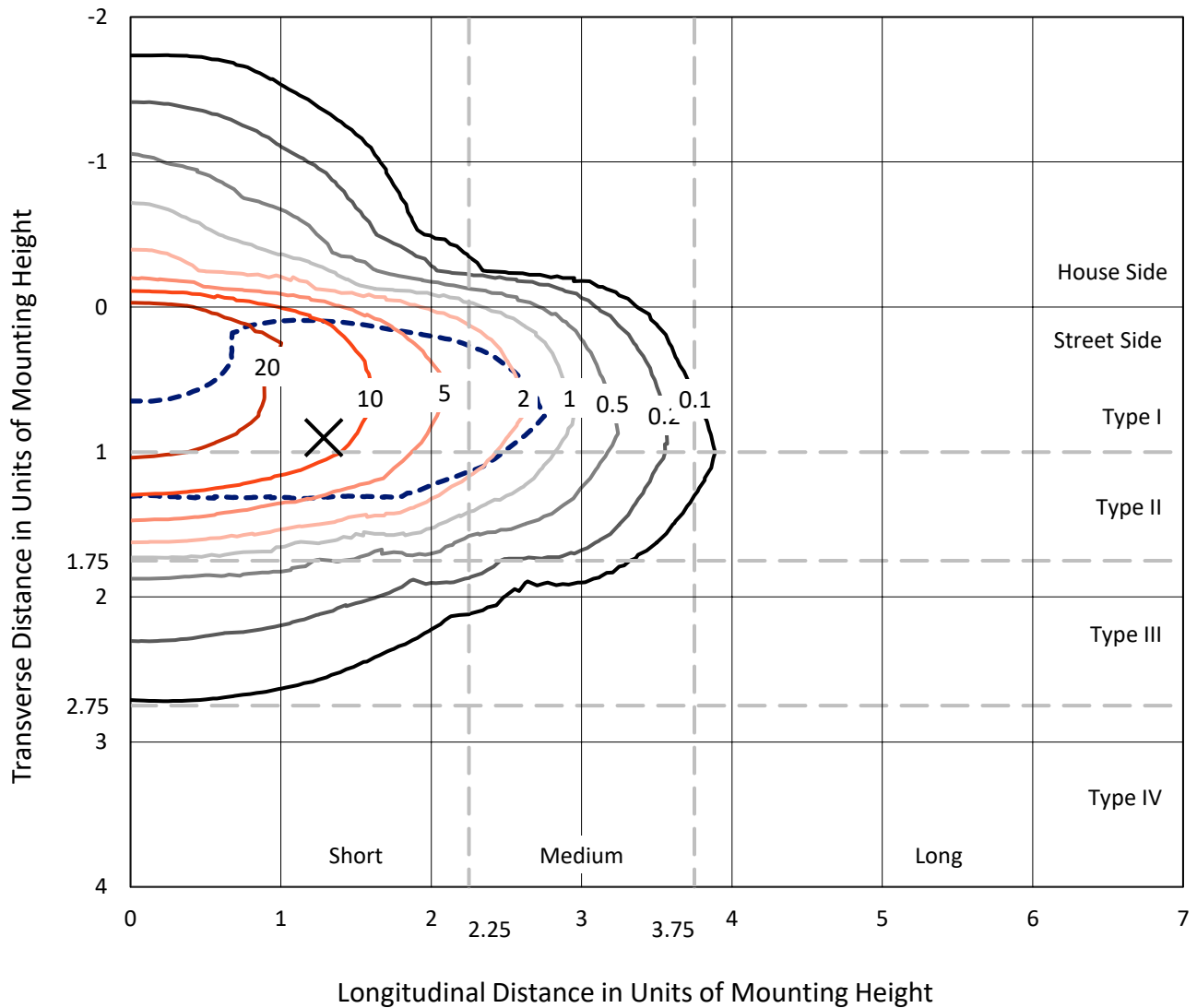
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

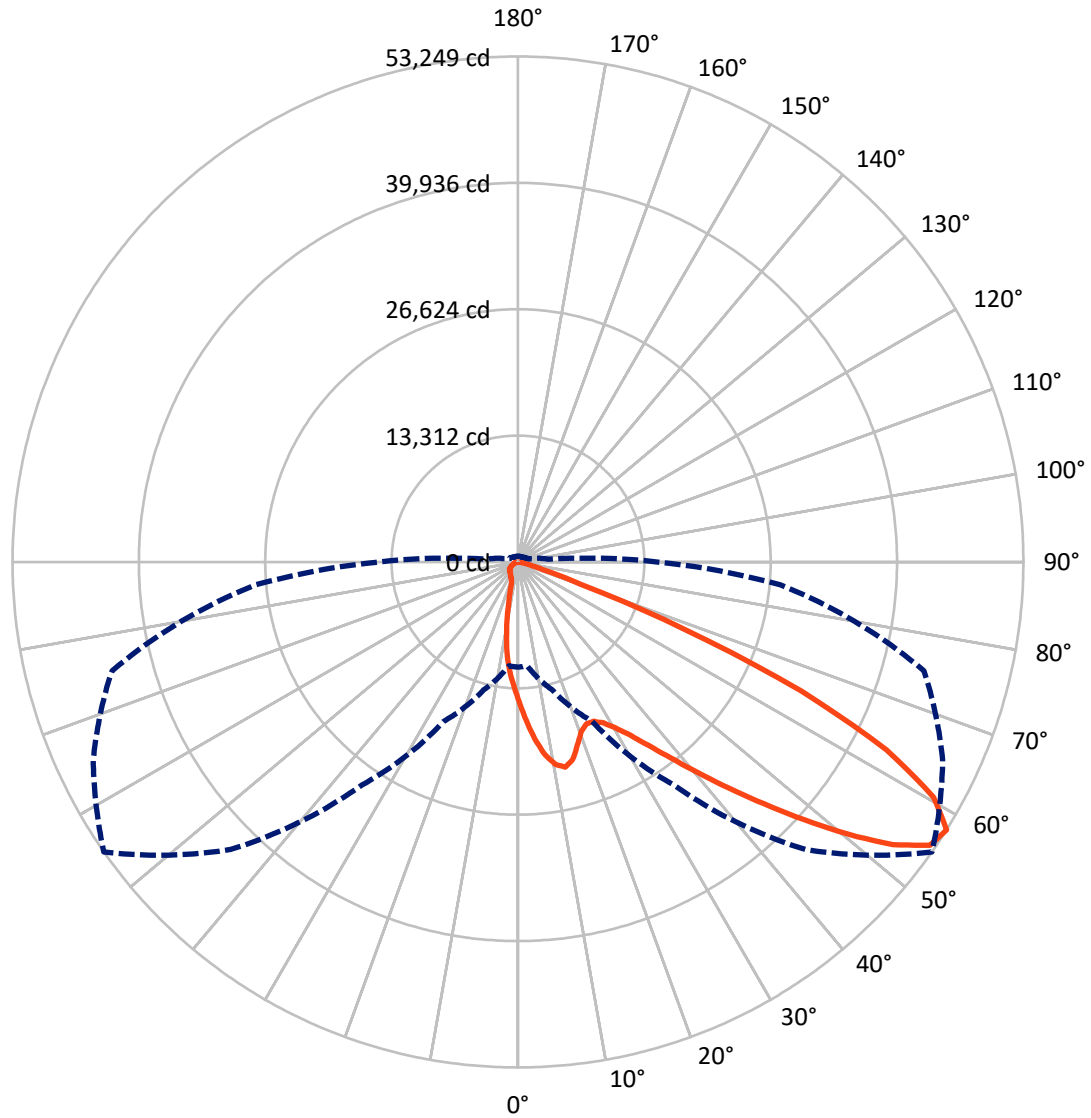
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 33.7 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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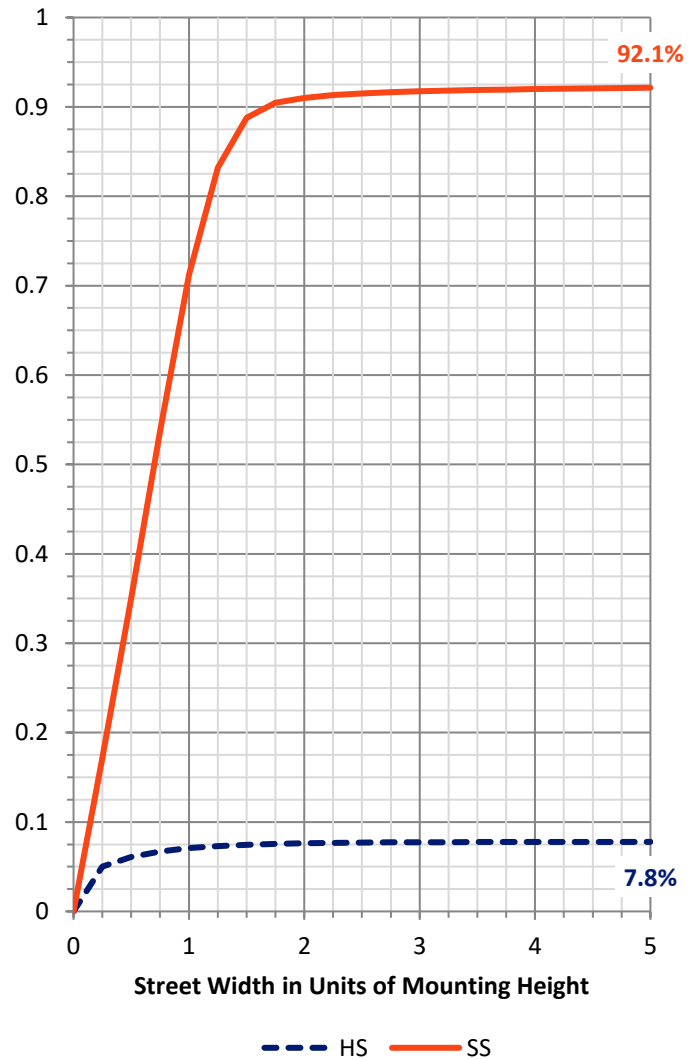
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4764.4	0.0	4764.4
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	56242.6	0.0	56242.6
	% Fixture	92.2	0.0	92.2
Total	Lumens	61007.0	0.0	61007.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1367.9	2.2
10°-20°	3304.1	5.4
20°-30°	5286.5	8.7
30°-40°	8947.7	14.7
40°-50°	14690.2	24.1
50°-60°	16145.6	26.5
60°-70°	9261.1	15.2
70°-80°	1892.3	3.1
80°-90°	111.6	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°	61007.0	100.0
0°-180°	61007.0	100.0

Coefficient of Utilization



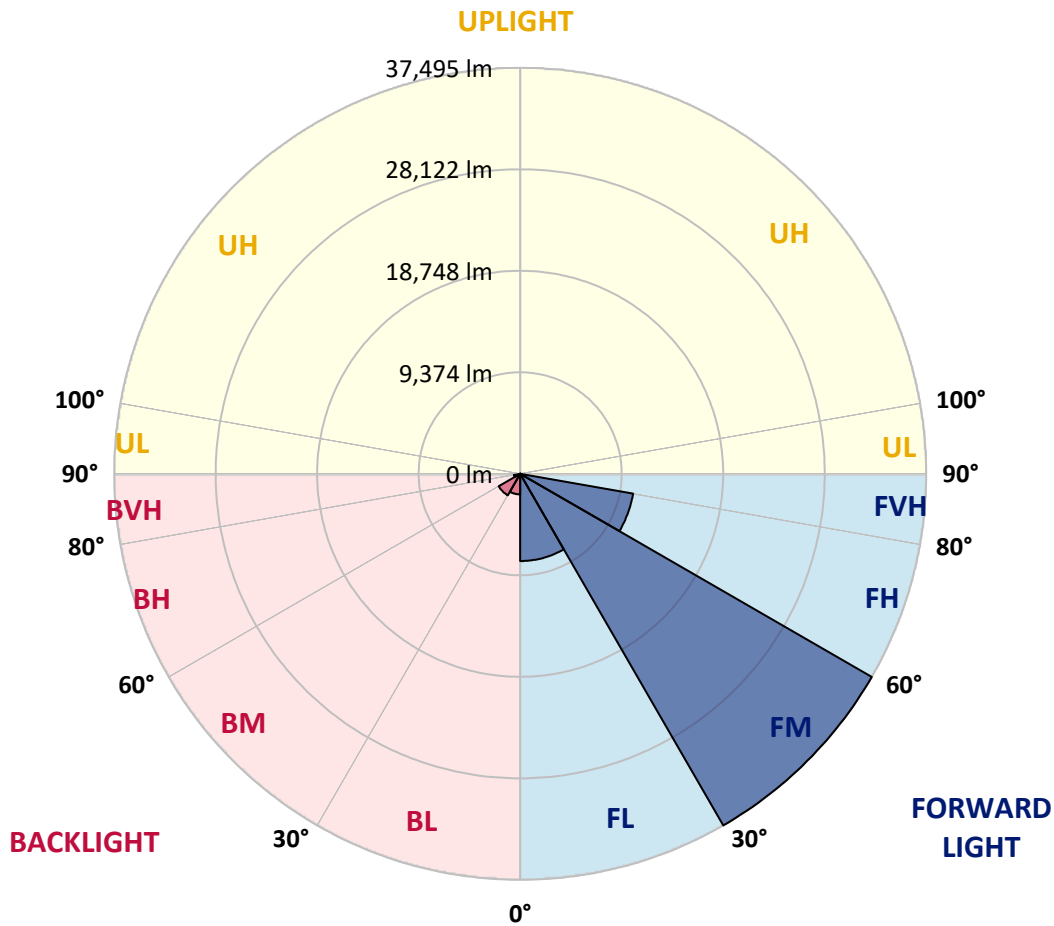
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8056.3	13.2			
FM (30°-60°)	37495.3	61.5			
FH (60°-80°)	10586.8	17.4			G4/12000
FVH (80°-90°)	104.1	0.2			G2/225
BL (0°-30°)	1902.1	3.1	B3/2500		
BM (30°-60°)	2288.2	3.8	B2/2500		
BH (60°-80°)	566.6	0.9	B2/1000		G2/1000
BVH (80°-90°)	7.5	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°	14701.2	14701.2	14701.2	14701.2	14701.2	14701.2	14701.2	14701.2	14701.2	14701.2
2.5°	18241.1	18011.6	17977.7	17932.6	17496.2	17168.9	16694.9	16175.8	15592.7	14998.4
5°	21073.7	20893.1	20859.3	20648.6	20152.1	19595.3	18752.7	17688.1	16600.9	15321.9
7.5°	21622.9	21589.1	21743.3	21735.8	21668.1	21227.9	20517.0	19249.2	17616.6	15720.6
10°	19174.0	19260.5	19719.4	20122.0	21209.1	21841.1	21686.9	20641.1	18662.4	16175.8
12.5°	16943.2	16841.7	17168.9	17624.1	18888.1	20769.0	22172.2	21803.5	19858.6	16691.2
15°	15543.8	15502.5	15686.8	15897.4	16860.5	18756.4	21607.9	22747.7	21009.8	17300.6
17.5°	15096.2	15062.3	15118.7	15171.4	15795.9	17263.0	20264.9	23327.0	22112.0	17996.5
20°	15461.1	15415.9	15408.4	15367.0	15626.6	16627.2	19049.8	23368.4	23101.3	18628.5
22.5°	16525.7	16473.0	16288.7	16123.2	16145.7	16713.8	18508.1	22954.6	23846.2	19219.1
25°	18455.5	18369.0	17985.3	17428.5	17074.9	17315.6	18590.9	22409.1	24557.1	19681.8
27.5°	20870.6	20757.7	20264.9	19437.3	18628.5	18335.1	19189.0	22033.0	25147.8	20035.4
30°	23236.7	23090.0	22604.8	21961.5	20780.3	19854.9	20268.7	22198.5	25851.2	20404.1
32.5°	25791.0	25651.8	25008.6	24211.1	23233.0	21987.8	21747.1	23007.3	26712.7	20919.5
35°	29022.4	28804.2	27890.1	26803.0	25764.7	24504.5	23748.4	24402.9	27860.0	21705.7
37.5°	32701.5	32408.1	31422.5	29921.5	28567.2	27156.6	26186.0	26321.4	29541.6	22759.0
40°	36169.9	35902.8	34992.4	33578.0	31877.6	30166.0	29131.5	28830.6	31862.6	24041.8
42.5°	38250.2	38009.4	37625.7	37027.6	35594.3	33848.8	32543.5	31892.7	34608.7	25576.6
45°	38366.8	38156.1	38671.5	39367.4	39085.3	37922.9	36331.6	35139.1	37366.1	27017.4
47.5°	36500.9	36358.0	37922.9	40353.0	41564.3	42053.4	40586.3	38114.7	39642.0	28051.9
50°	31414.9	31362.3	34582.4	39043.9	42508.5	45672.2	45074.1	40883.4	41406.3	28586.1
52.5°	27239.3	27047.5	28924.6	34853.2	41135.5	47575.7	49460.4	43599.5	42640.2	28687.6
55°	20659.9	20490.6	22845.5	27841.2	36707.8	46898.6	52669.2	46402.0	43524.2	28428.1
57.5°	11082.3	10977.0	13952.6	18530.7	28695.1	42835.8	53248.5	49366.3	44269.1	27739.6
60°	4314.8	4296.0	5409.5	8990.7	17439.8	34849.5	50325.6	51145.7	44735.5	26893.2
62.5°	2610.7	2667.1	2847.7	4036.4	7704.2	21649.3	43588.2	49121.8	45047.8	26118.3
65°	2159.3	2163.0	2185.6	2772.5	3690.3	9058.5	32814.3	42463.4	44276.6	24737.7
67.5°	1850.8	1884.7	1971.2	2200.7	2603.2	3972.5	18891.8	32893.3	39585.6	21525.1
70°	1459.6	1504.7	1613.8	1809.4	2008.8	2486.6	6981.9	21886.3	30241.3	16224.7
72.5°	1230.1	1226.4	1282.8	1470.9	1595.0	1749.2	2685.9	12263.5	17575.2	7745.6
75°	951.7	989.4	1060.8	1230.1	1305.4	1267.7	1455.8	4480.3	6297.3	2347.4
77.5°	744.8	774.9	838.9	1004.4	1079.6	899.1	838.9	1602.5	2023.9	842.6
80°	334.8	361.1	571.8	741.1	880.3	620.7	455.2	820.1	899.1	383.7
82.5°	60.2	101.6	334.8	391.2	451.4	402.5	237.0	425.1	440.1	154.2
85°	3.8	7.5	116.6	142.9	180.6	131.7	71.5	169.3	146.7	52.7
87.5°	0.0	0.0	0.0	3.8	3.8	18.8	22.6	30.1	22.6	18.8
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°
14701.2	0°	14701.2	14701.2	14701.2	14701.2	14701.2	14701.2	14701.2	14701.2	14701.2	14701.2
14735.0	2.5°	14464.2	13930.0	13410.9	12985.8	12737.5	12316.2	12037.8	11992.7	11876.1	11977.6
14772.7	5°	14185.8	13230.3	12263.5	11398.3	10687.3	9769.4	9084.8	8795.1	8543.1	8629.6
14870.5	7.5°	14054.2	12545.7	11040.9	9562.5	8042.8	6575.7	5484.7	5029.6	4683.5	4732.4
14979.6	10°	13877.3	11834.7	9476.0	7218.9	5183.8	3735.5	2983.1	2704.7	2550.5	2554.3
15141.3	12.5°	13741.9	10984.5	7659.1	4894.1	3156.2	2385.0	2151.8	2084.0	2038.9	2042.7
15385.8	15°	13674.2	9983.9	5864.7	3261.5	2257.1	2020.1	1963.7	1933.6	1903.5	1899.7
15656.7	17.5°	13561.4	8870.4	4292.2	2381.2	1975.0	1892.2	1843.3	1809.4	1771.8	1764.3
15889.9	20°	13392.1	7606.4	3137.4	2012.6	1850.8	1786.9	1719.2	1674.0	1628.9	1621.3
16036.6	22.5°	13079.8	6271.0	2411.3	1862.1	1760.5	1689.1	1606.3	1553.6	1508.5	1501.0
15965.2	25°	12500.5	5018.3	2031.4	1768.1	1681.5	1595.0	1504.7	1433.3	1391.9	1384.3
15810.9	27.5°	11767.0	3942.4	1843.3	1681.5	1580.0	1501.0	1399.4	1331.7	1294.1	1286.5
15607.8	30°	10901.7	3035.8	1734.2	1583.7	1459.6	1391.9	1301.6	1245.2	1222.6	1222.6
15464.8	32.5°	9968.8	2426.4	1689.1	1485.9	1354.3	1279.0	1207.5	1185.0	1177.4	1173.7
15543.8	35°	9092.3	2106.6	1666.5	1406.9	1260.2	1188.7	1158.6	1162.4	1177.4	1177.4
15788.3	37.5°	8313.6	2005.0	1655.2	1350.5	1177.4	1113.5	1132.3	1166.2	1151.1	1151.1
16217.2	40°	7610.2	2016.3	1647.7	1309.1	1109.7	1072.1	1109.7	1083.4	1045.8	1042.0
16740.1	42.5°	7072.2	2110.4	1632.6	1275.3	1068.4	1042.0	1027.0	985.6	981.8	989.4
17281.8	45°	6681.0	2193.1	1628.9	1260.2	1023.2	974.3	955.5	914.1	989.4	1008.2
17503.7	47.5°	6218.3	2193.1	1628.9	1207.5	948.0	929.2	899.1	853.9	929.2	948.0
17293.1	50°	5620.2	2054.0	1564.9	1147.4	887.8	876.5	823.8	767.4	752.4	763.6
16800.3	52.5°	4864.0	1801.9	1403.2	1064.6	827.6	805.0	741.1	699.7	688.4	688.4
15916.3	55°	4002.6	1508.5	1185.0	944.2	763.6	722.3	677.1	658.3	647.0	639.5
14678.6	57.5°	3254.0	1237.6	951.7	838.9	703.5	650.8	635.7	613.2	594.4	583.1
13644.1	60°	2670.9	974.3	786.2	744.8	643.3	594.4	590.6	560.5	511.6	504.1
12790.2	62.5°	2061.5	714.7	662.1	647.0	583.1	541.7	534.2	474.0	398.8	383.7
11578.9	65°	1455.8	556.7	534.2	568.0	519.1	481.5	462.7	372.4	293.4	282.1
9690.4	67.5°	1023.2	466.5	421.3	496.6	451.4	402.5	391.2	316.0	244.5	237.0
7328.0	70°	729.8	379.9	346.1	425.1	361.1	353.6	331.0	263.3	199.4	191.9
3626.4	72.5°	515.4	289.7	267.1	368.7	248.3	304.7	270.9	203.1	150.5	142.9
1233.9	75°	379.9	206.9	188.1	214.4	180.6	229.5	191.9	135.4	94.0	90.3
556.7	77.5°	278.4	131.7	112.9	105.3	105.3	142.9	105.3	56.4	41.4	37.6
282.1	80°	195.6	60.2	52.7	45.1	41.4	33.9	15.0	7.5	3.8	3.8
97.8	82.5°	116.6	26.3	26.3	18.8	11.3	0.0	0.0	0.0	0.0	0.0
37.6	85°	26.3	11.3	11.3	3.8	0.0	0.0	0.0	0.0	0.0	0.0
15.0	87.5°	3.8	3.8	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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