

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: P953484

Luminaire Tested: **GALN-SB7A-740-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953484  
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-SB7A-740-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

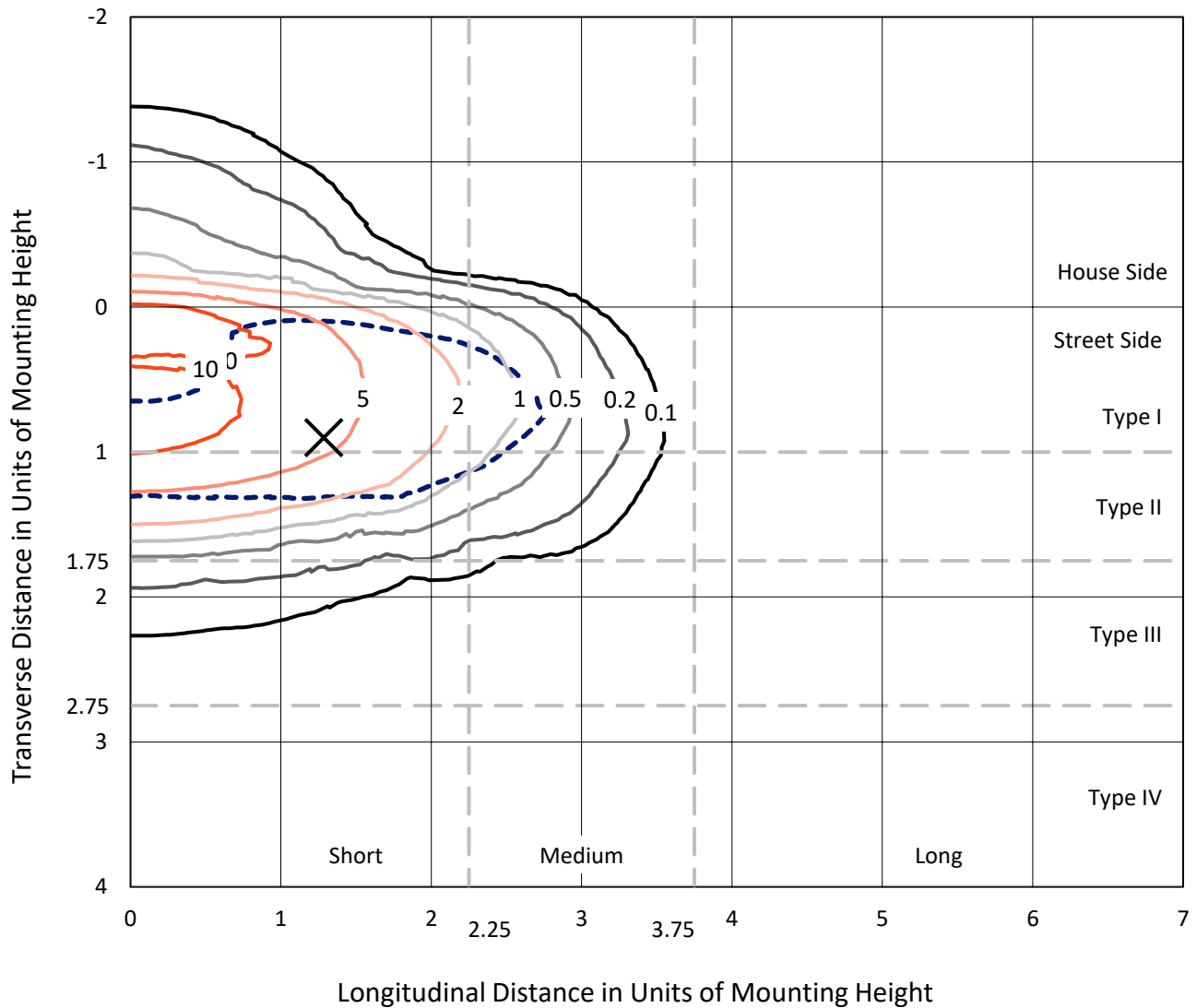
Lumens per Lamp: N/A  
Luminaire Lumens: 28777 lumens  
Efficiency: N/A  
Efficacy: 144.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 199.1  
Input Voltage (V): NR  
Input Current (Ain): 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

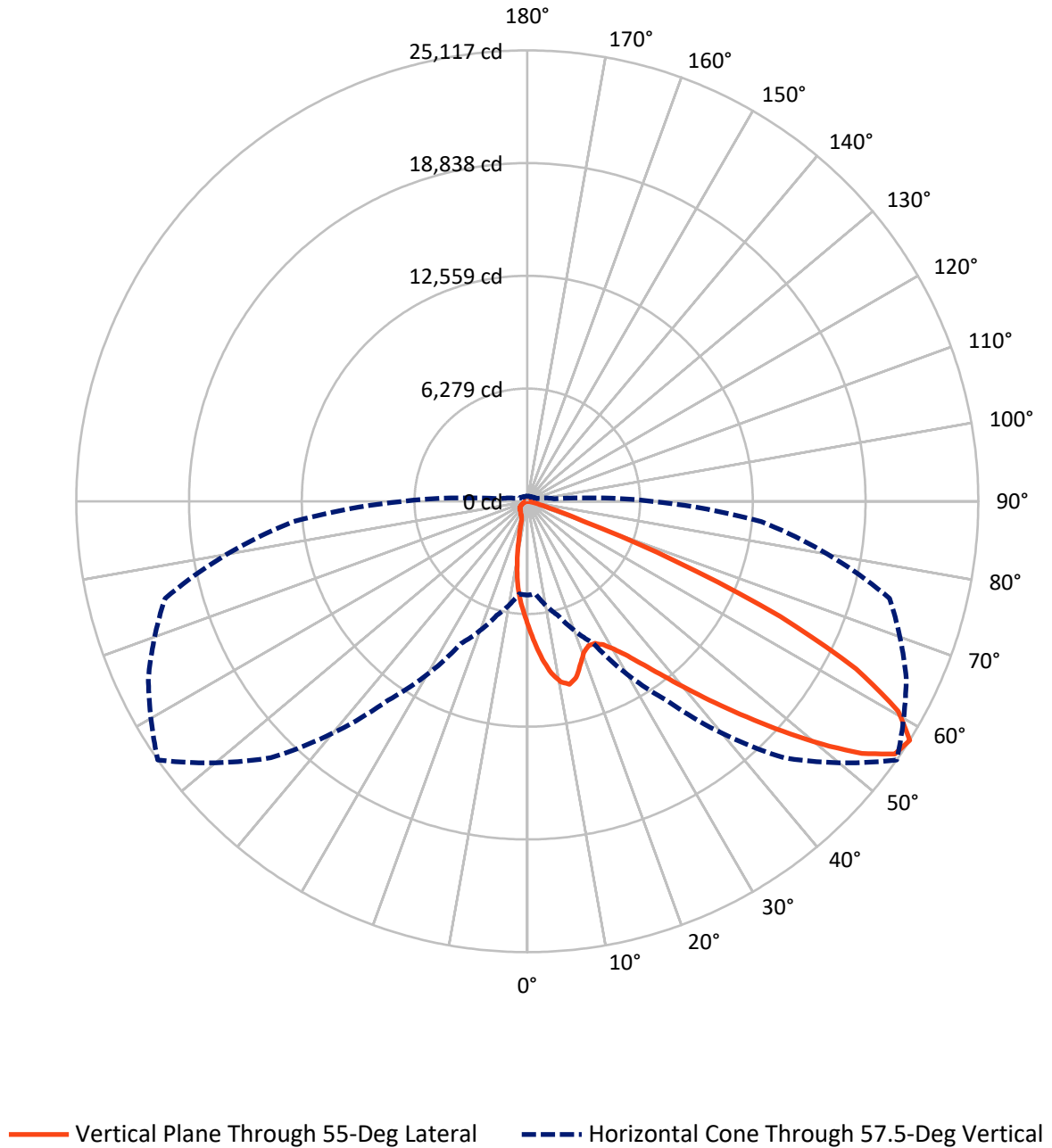
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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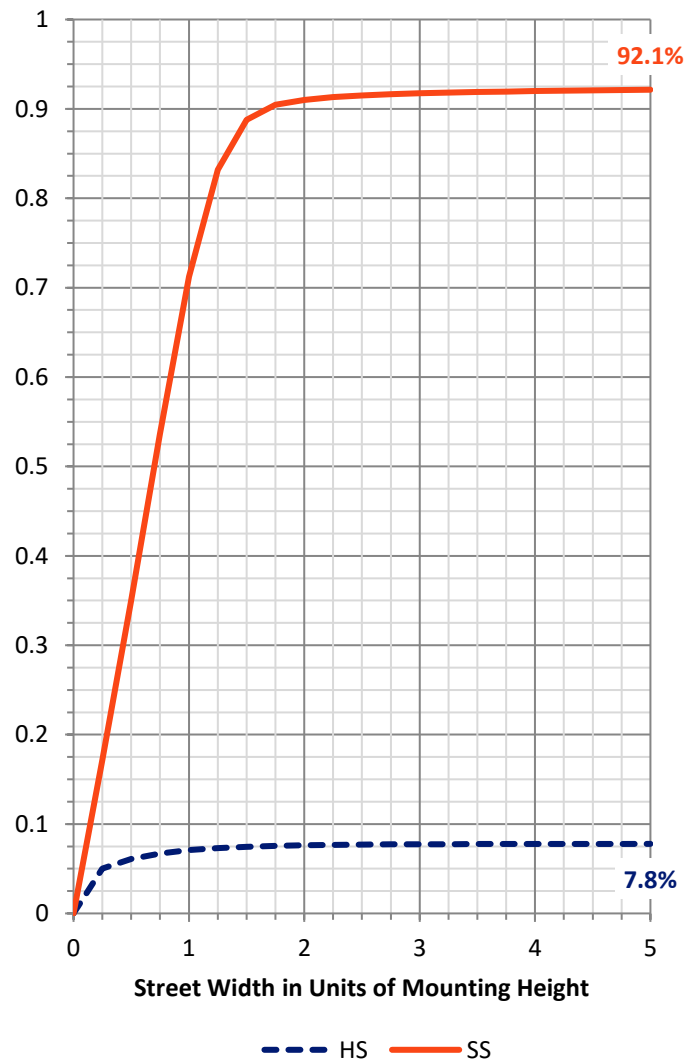
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2247.4	0.0	2247.4
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	26529.6	0.0	26529.6
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	28777.0	0.0	28777.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	645.2	2.2
10°-20°	1558.5	5.4
20°-30°	2493.6	8.7
30°-40°	4220.6	14.7
40°-50°	6929.4	24.1
50°-60°	7615.9	26.5
60°-70°	4368.5	15.2
70°-80°	892.6	3.1
80°-90°	52.7	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°	28777.0	100.0
0°-180°	28777.0	100.0

**Coefficient of Utilization**



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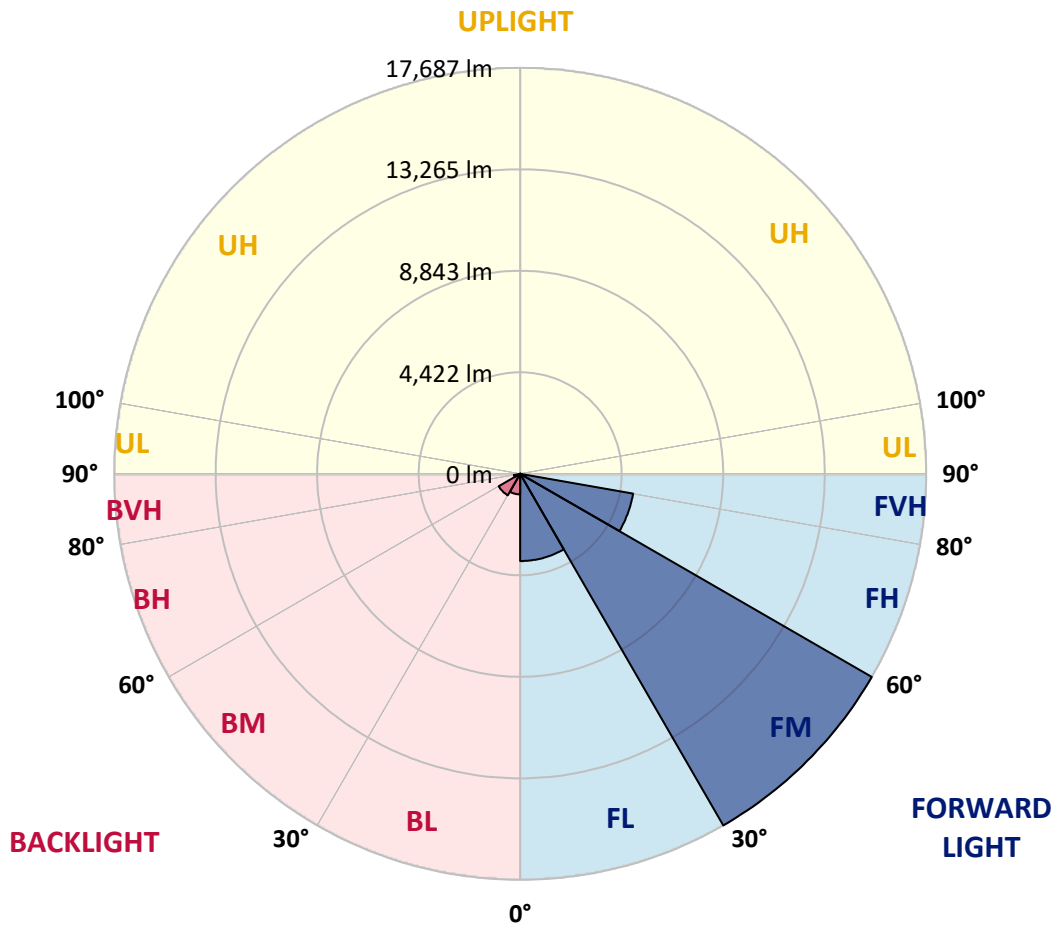
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3800.2	13.2			
FM (30°-60°)	17686.6	61.5			
FH (60°-80°)	4993.8	17.4			G2/5000
FVH (80°-90°)	49.1	0.2			G1/100
BL (0°-30°)	897.2	3.1	B2/1000		
BM (30°-60°)	1079.3	3.8	B2/2500		
BH (60°-80°)	267.3	0.9	B1/500		G1/500
BVH (80°-90°)	3.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6934.5	6934.5	6934.5	6934.5	6934.5	6934.5	6934.5	6934.5	6934.5	6934.5
2.5°	8604.3	8496.1	8480.1	8458.8	8253.0	8098.6	7875.0	7630.1	7355.1	7074.7
5°	9940.5	9855.3	9839.3	9740.0	9505.7	9243.1	8845.6	8343.5	7830.6	7227.3
7.5°	10199.5	10183.6	10256.3	10252.8	10220.8	10013.2	9677.8	9079.9	8309.7	7415.4
10°	9044.4	9085.2	9301.7	9491.5	10004.3	10302.5	10229.7	9736.4	8803.0	7630.1
12.5°	7992.1	7944.2	8098.6	8313.3	8909.5	9796.7	10458.6	10284.7	9367.3	7873.2
15°	7332.0	7312.5	7399.5	7498.8	7953.1	8847.4	10192.4	10730.1	9910.3	8160.7
17.5°	7120.9	7104.9	7131.5	7156.4	7450.9	8142.9	9559.0	11003.4	10430.2	8489.0
20°	7293.0	7271.7	7268.1	7248.6	7371.1	7843.1	8985.8	11022.9	10896.9	8787.1
22.5°	7795.2	7770.3	7683.4	7605.3	7615.9	7883.9	8730.3	10827.7	11248.2	9065.7
25°	8705.4	8664.6	8483.6	8221.0	8054.2	8167.8	8769.3	10570.4	11583.6	9283.9
27.5°	9844.6	9791.4	9559.0	9168.6	8787.1	8648.7	9051.5	10392.9	11862.2	9450.7
30°	10960.8	10891.6	10662.7	10359.2	9802.1	9365.5	9560.7	10471.0	12194.0	9624.6
32.5°	12165.6	12100.0	11796.5	11420.4	10959.0	10371.7	10258.1	10852.5	12600.4	9867.7
35°	13689.9	13587.0	13155.8	12643.0	12153.2	11558.8	11202.1	11510.9	13141.6	10238.6
37.5°	15425.3	15286.9	14822.0	14114.0	13475.2	12809.7	12351.9	12415.8	13934.8	10735.4
40°	17061.3	16935.3	16505.9	15838.7	15036.7	14229.3	13741.3	13599.4	15029.6	11340.5
42.5°	18042.6	17929.0	17748.0	17465.9	16789.8	15966.5	15350.8	15043.8	16324.9	12064.5
45°	18097.6	17998.2	18241.3	18569.6	18436.5	17888.2	17137.6	16575.1	17625.6	12744.1
47.5°	17217.5	17150.1	17888.2	19034.5	19605.9	19836.6	19144.5	17978.7	18699.1	13232.1
50°	14818.4	14793.6	16312.5	18417.0	20051.3	21543.6	21261.5	19284.7	19531.4	13484.0
52.5°	12848.8	12758.3	13643.7	16440.3	19403.6	22441.5	23330.5	20565.9	20113.4	13532.0
55°	9745.3	9665.4	10776.2	13132.7	17315.1	22122.1	24844.1	21887.8	20530.4	13409.5
57.5°	5227.5	5177.8	6581.4	8740.9	13535.5	20205.7	25117.3	23286.1	20881.7	13084.8
60°	2035.3	2026.4	2551.7	4240.9	8226.3	16438.5	23738.6	24125.4	21101.8	12685.5
62.5°	1231.5	1258.1	1343.3	1904.0	3634.1	10212.0	20560.5	23170.8	21249.0	12320.0
65°	1018.5	1020.3	1031.0	1307.8	1740.7	4272.9	15478.5	20030.0	20885.3	11668.8
67.5°	873.0	889.0	929.8	1038.1	1227.9	1873.8	8911.3	15515.8	18672.5	10153.4
70°	688.5	709.8	761.2	853.5	947.6	1172.9	3293.4	10323.7	14264.8	7653.2
72.5°	580.2	578.5	605.1	693.8	752.4	825.1	1267.0	5784.7	8290.2	3653.6
75°	448.9	466.7	500.4	580.2	615.7	598.0	686.7	2113.4	2970.4	1107.3
77.5°	351.3	365.5	395.7	473.8	509.3	424.1	395.7	755.9	954.7	397.5
80°	157.9	170.3	269.7	349.6	415.2	292.8	214.7	386.8	424.1	181.0
82.5°	28.4	47.9	157.9	184.5	212.9	189.9	111.8	200.5	207.6	72.8
85°	1.8	3.5	55.0	67.4	85.2	62.1	33.7	79.9	69.2	24.8
87.5°	0.0	0.0	0.0	1.8	1.8	8.9	10.6	14.2	10.6	8.9
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°
6934.5	0°	6934.5	6934.5	6934.5	6934.5	6934.5	6934.5	6934.5	6934.5	6934.5	6934.5
6950.5	2.5°	6822.8	6570.8	6325.9	6125.4	6008.3	5809.5	5678.2	5656.9	5601.9	5649.8
6968.3	5°	6691.4	6240.7	5784.7	5376.6	5041.2	4608.2	4285.3	4148.7	4029.8	4070.6
7014.4	7.5°	6629.3	5917.8	5208.0	4510.7	3793.8	3101.7	2587.1	2372.4	2209.2	2232.3
7065.9	10°	6545.9	5582.4	4469.8	3405.2	2445.2	1762.0	1407.1	1275.8	1203.1	1204.9
7142.2	12.5°	6482.1	5181.4	3612.8	2308.6	1488.8	1125.0	1015.0	983.0	961.8	963.5
7257.5	15°	6450.1	4709.4	2766.4	1538.4	1064.7	952.9	926.3	912.1	897.9	896.1
7385.3	17.5°	6396.9	4184.2	2024.6	1123.2	931.6	892.5	869.5	853.5	835.8	832.2
7495.3	20°	6317.0	3587.9	1479.9	949.3	873.0	842.9	810.9	789.6	768.3	764.8
7564.5	22.5°	6169.8	2958.0	1137.4	878.4	830.4	796.7	757.7	732.8	711.6	708.0
7530.8	25°	5896.5	2367.1	958.2	834.0	793.2	752.4	709.8	676.1	656.5	653.0
7458.0	27.5°	5550.5	1859.6	869.5	793.2	745.3	708.0	660.1	628.2	610.4	606.9
7362.2	30°	5142.4	1432.0	818.0	747.0	688.5	656.5	614.0	587.3	576.7	576.7
7294.8	32.5°	4702.3	1144.5	796.7	700.9	638.8	603.3	569.6	559.0	555.4	553.6
7332.0	35°	4288.8	993.7	786.1	663.6	594.4	560.7	546.5	548.3	555.4	555.4
7447.4	37.5°	3921.5	945.8	780.8	637.0	555.4	525.2	534.1	550.1	543.0	543.0
7649.7	40°	3589.7	951.1	777.2	617.5	523.5	505.7	523.5	511.0	493.3	491.5
7896.3	42.5°	3336.0	995.5	770.1	601.5	503.9	491.5	484.4	464.9	463.1	466.7
8151.8	45°	3151.4	1034.5	768.3	594.4	482.7	459.6	450.7	431.2	466.7	475.6
8256.5	47.5°	2933.2	1034.5	768.3	569.6	447.2	438.3	424.1	402.8	438.3	447.2
8157.1	50°	2651.0	968.8	738.2	541.2	418.8	413.4	388.6	362.0	354.9	360.2
7924.7	52.5°	2294.4	850.0	661.9	502.2	390.4	379.7	349.6	330.0	324.7	324.7
7507.7	55°	1888.0	711.6	559.0	445.4	360.2	340.7	319.4	310.5	305.2	301.7
6923.9	57.5°	1534.9	583.8	448.9	395.7	331.8	307.0	299.9	289.2	280.4	275.0
6435.9	60°	1259.9	459.6	370.9	351.3	303.4	280.4	278.6	264.4	241.3	237.8
6033.1	62.5°	972.4	337.1	312.3	305.2	275.0	255.5	252.0	223.6	188.1	181.0
5461.8	65°	686.7	262.6	252.0	267.9	244.9	227.1	218.3	175.7	138.4	133.1
4571.0	67.5°	482.7	220.0	198.7	234.2	212.9	189.9	184.5	149.1	115.3	111.8
3456.6	70°	344.2	179.2	163.2	200.5	170.3	166.8	156.2	124.2	94.0	90.5
1710.6	72.5°	243.1	136.6	126.0	173.9	117.1	143.7	127.8	95.8	71.0	67.4
582.0	75°	179.2	97.6	88.7	101.1	85.2	108.2	90.5	63.9	44.4	42.6
262.6	77.5°	131.3	62.1	53.2	49.7	49.7	67.4	49.7	26.6	19.5	17.7
133.1	80°	92.3	28.4	24.8	21.3	19.5	16.0	7.1	3.5	1.8	1.8
46.1	82.5°	55.0	12.4	12.4	8.9	5.3	0.0	0.0	0.0	0.0	0.0
17.7	85°	12.4	5.3	5.3	1.8	0.0	0.0	0.0	0.0	0.0	0.0
7.1	87.5°	1.8	1.8	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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