

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: P950608

Luminaire Tested: **GALN-SB5A-735-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950608
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5A-735-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23045 lumens
Efficiency: N/A
Efficacy: 162.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

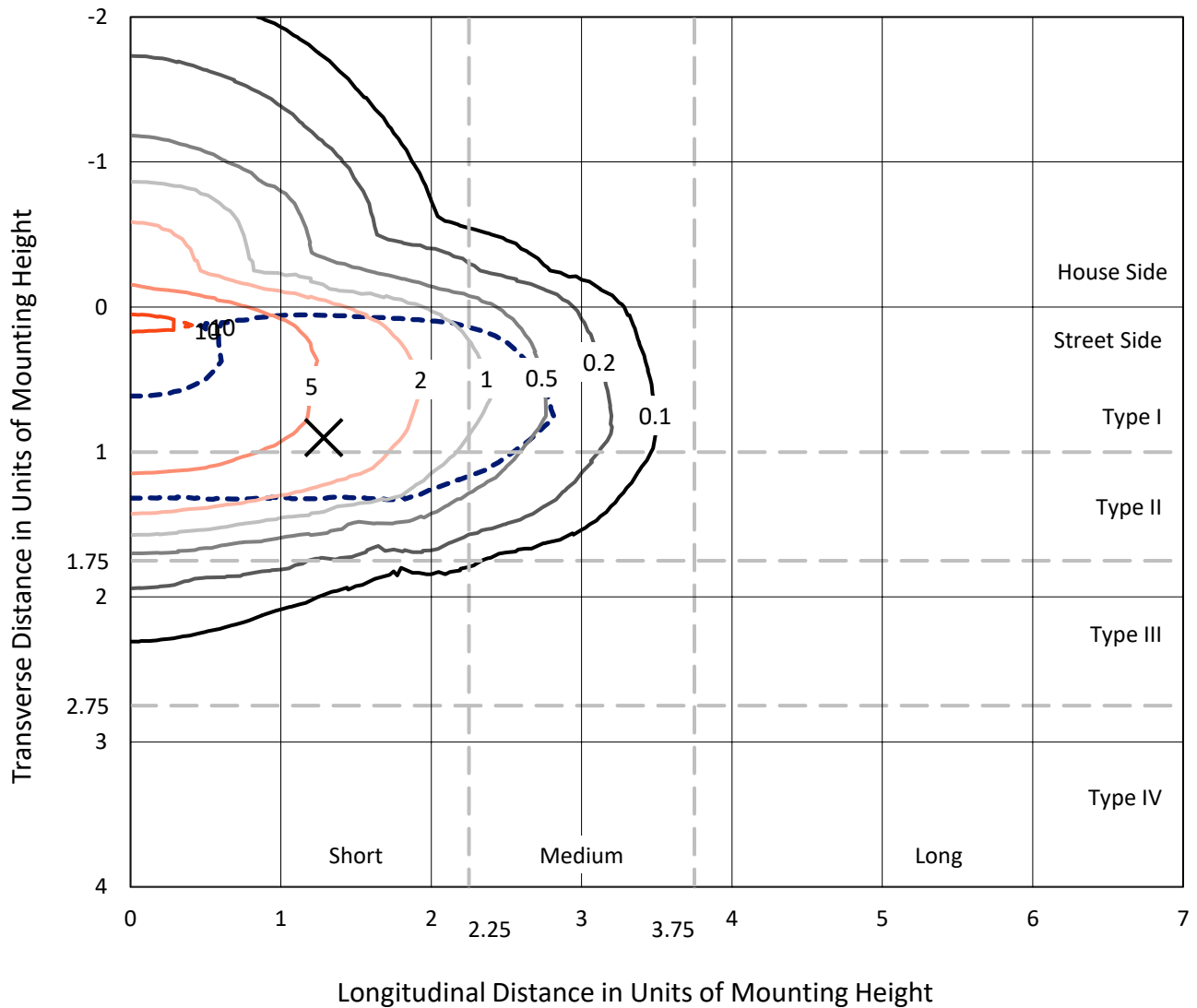
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

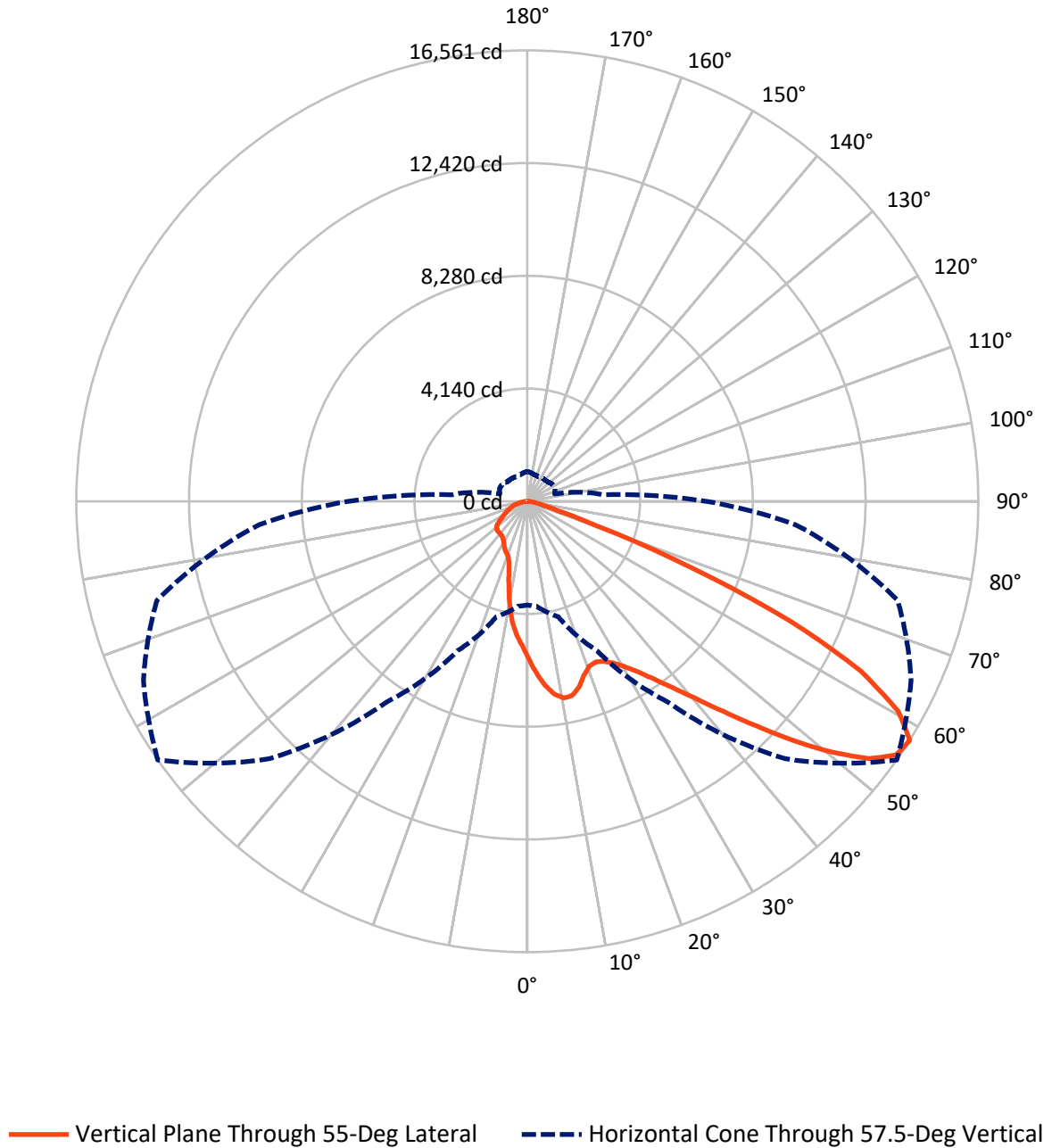
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 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	4169.9	0.0	4169.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	18875.1	0.0	18875.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	23045.0	0.0	23045.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	535.8	2.3
10°-20°	1352.4	5.9
20°-30°	2158.1	9.4
30°-40°	3416.8	14.8
40°-50°	5229.8	22.7
50°-60°	5601.6	24.3
60°-70°	3524.0	15.3
70°-80°	1042.1	4.5
80°-90°	184.3	0.8
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°	23045.0	100.0
0°-180°	23045.0	100.0

Coefficient of Utilization



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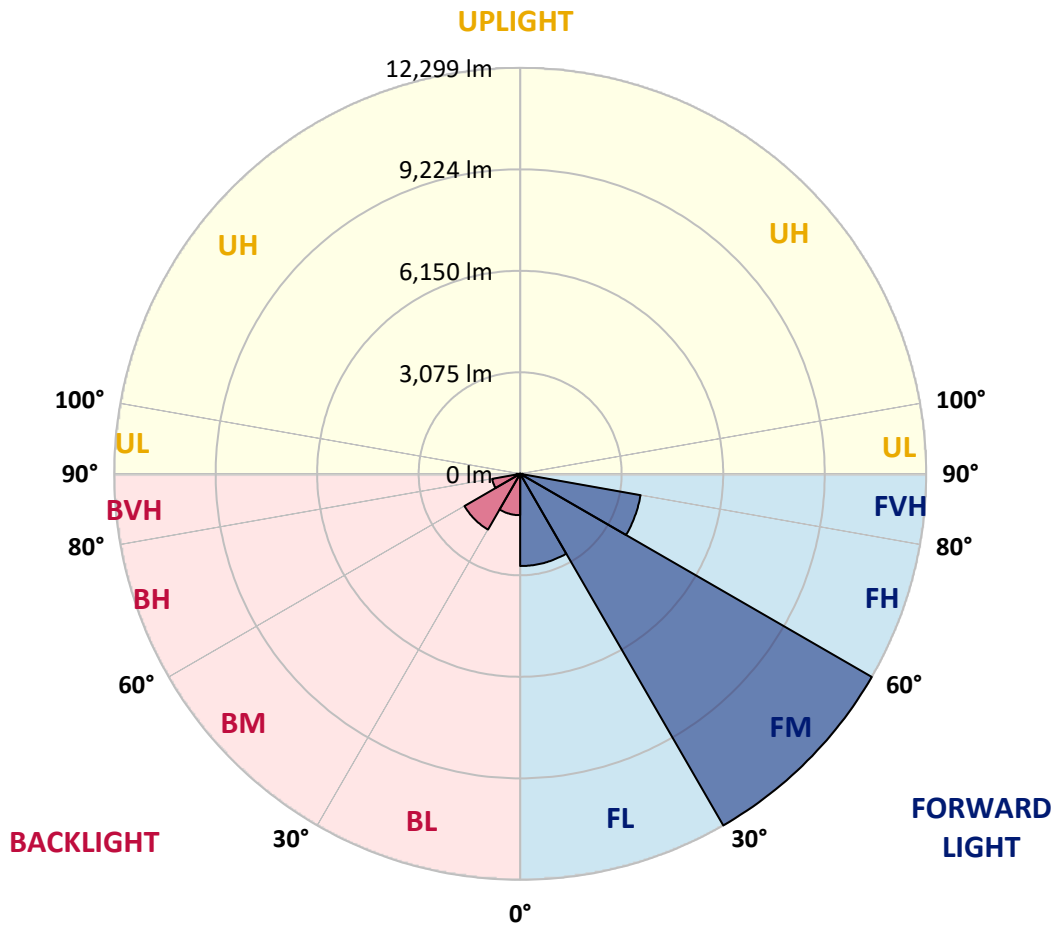
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2793.1	12.1			
FM (30°-60°)	12299.3	53.4			
FH (60°-80°)	3704.9	16.1			G2/5000
FVH (80°-90°)	77.8	0.3			G1/100
BL (0°-30°)	1253.3	5.4	B3/2500		
BM (30°-60°)	1949.0	8.5	B2/2500		
BH (60°-80°)	861.2	3.7	B2/1000		G2/1000
BVH (80°-90°)	106.4	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5774.3	5774.3	5774.3	5774.3	5774.3	5774.3	5774.3	5774.3	5774.3	5774.3
2.5°	6624.9	6620.2	6646.4	6557.0	6496.3	6414.1	6305.7	6167.5	6018.5	5861.3
5°	7221.8	7180.1	7207.5	7140.8	7074.1	6950.2	6789.3	6564.2	6289.0	5975.7
7.5°	7127.7	7099.1	7169.4	7228.9	7279.0	7263.5	7145.5	6909.7	6554.6	6099.6
10°	6368.8	6336.6	6435.5	6641.6	6944.2	7207.5	7350.4	7203.9	6826.3	6235.4
12.5°	5699.3	5683.8	5749.3	5916.1	6252.0	6757.2	7324.2	7461.2	7108.6	6396.2
15°	5413.4	5394.3	5436.0	5520.6	5735.0	6205.6	7086.0	7637.6	7386.2	6582.0
17.5°	5350.2	5328.8	5346.6	5390.7	5528.9	5887.5	6726.2	7724.5	7675.7	6789.3
20°	5467.0	5449.1	5451.5	5449.1	5545.6	5830.3	6476.0	7691.2	7928.2	6979.9
22.5°	5749.3	5719.5	5720.7	5657.6	5710.0	5930.4	6410.5	7601.8	8153.4	7146.7
25°	6209.2	6155.6	6166.3	6005.4	5991.1	6154.4	6512.9	7532.7	8377.4	7280.2
27.5°	6838.2	6777.4	6745.3	6505.8	6391.4	6472.4	6721.4	7556.5	8589.4	7395.7
30°	7624.4	7550.6	7485.1	7145.5	6938.2	6908.5	7045.5	7713.8	8839.6	7517.2
32.5°	8588.2	8502.5	8383.3	7933.0	7641.1	7485.1	7464.8	7993.8	9132.7	7672.1
35°	9735.5	9623.5	9454.3	8871.8	8502.5	8183.2	8017.6	8397.6	9534.1	7905.6
37.5°	10917.3	10791.0	10636.1	9942.8	9488.9	9018.3	8691.9	8945.6	10069.0	8222.5
40°	12007.3	11865.5	11721.4	11104.3	10617.0	10050.0	9517.5	9639.0	10723.1	8601.3
42.5°	12650.6	12545.8	12491.0	12157.4	11781.0	11205.6	10544.4	10461.0	11458.1	9037.4
45°	12622.0	12579.1	12748.3	12886.5	12797.2	12477.9	11747.6	11370.0	12195.5	9415.0
47.5°	11947.8	11976.3	12354.0	13130.7	13472.6	13639.4	13117.6	12262.3	12836.5	9697.3
50°	10113.1	10136.9	11011.4	12686.4	13646.6	14586.5	14476.9	13133.1	13333.3	9870.1
52.5°	8660.9	8676.4	9051.7	11368.8	13072.4	15063.1	15701.6	13953.9	13696.6	9917.7
55°	6523.7	6577.3	6997.8	8919.4	11578.4	14685.4	16447.4	14799.8	13926.5	9922.5
57.5°	3811.0	3869.4	4388.8	6054.3	8999.2	13369.0	16560.5	15550.3	14082.6	9884.4
60°	1866.8	1891.8	2118.2	3182.0	5549.2	10832.7	15650.4	15913.7	14169.6	9864.1
62.5°	1258.0	1254.5	1264.0	1570.2	2734.1	6959.7	13753.8	15277.5	14123.1	9786.7
65°	1081.7	1068.6	1032.9	1102.0	1416.5	3183.2	10626.6	13378.5	13769.3	9592.5
67.5°	935.2	936.4	937.6	916.1	1011.4	1468.9	6493.9	10538.4	12499.3	8672.8
70°	774.4	785.1	789.8	789.8	824.4	963.8	2772.2	7223.0	9859.4	6800.1
72.5°	705.3	682.6	685.0	673.1	673.1	733.9	1116.3	4094.6	6211.5	3825.3
75°	575.4	589.7	592.1	583.7	556.3	559.9	662.4	1717.9	2657.8	1586.8
77.5°	496.8	496.8	501.5	495.6	474.1	419.3	442.0	665.9	904.2	650.5
80°	399.1	397.9	418.2	430.1	396.7	309.7	282.3	368.1	401.5	285.9
82.5°	194.2	206.1	287.1	327.6	301.4	224.0	172.7	228.7	214.4	126.3
85°	113.2	107.2	128.7	182.3	172.7	123.9	83.4	119.1	112.0	64.3
87.5°	35.7	33.4	26.2	61.9	50.0	34.5	22.6	34.5	31.0	14.3
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°
5774.3	0°	5774.3	5774.3	5774.3	5774.3	5774.3	5774.3	5774.3	5774.3	5774.3	5774.3
5793.4	2.5°	5708.8	5568.2	5428.8	5301.4	5223.9	5173.9	5123.9	5067.9	5046.4	5014.3
5808.9	5°	5651.6	5380.0	5138.2	4929.7	4740.3	4591.3	4441.2	4319.7	4264.9	4301.9
5857.7	7.5°	5618.3	5225.1	4852.2	4469.8	4101.7	3807.5	3551.3	3371.4	3290.4	3310.7
5905.4	10°	5588.5	5050.0	4481.7	3877.7	3348.8	2984.3	2722.2	2585.2	2533.9	2544.7
5969.7	12.5°	5561.1	4853.4	4035.0	3240.4	2678.1	2437.4	2362.4	2363.6	2373.1	2380.3
6072.2	15°	5556.3	4616.4	3535.8	2682.9	2315.9	2300.4	2381.4	2432.7	2460.1	2468.4
6157.9	17.5°	5549.2	4332.8	3027.1	2302.8	2227.8	2332.6	2407.7	2441.0	2462.5	2463.7
6241.3	20°	5520.6	3973.1	2557.8	2121.7	2208.7	2299.2	2345.7	2371.9	2389.8	2395.7
6304.5	22.5°	5432.4	3572.8	2192.0	2040.7	2132.5	2205.1	2259.9	2289.7	2300.4	2307.6
6316.4	25°	5274.0	3124.8	1939.5	1963.3	2026.4	2118.2	2162.2	2168.2	2164.6	2175.4
6286.6	27.5°	5066.7	2644.7	1782.2	1858.5	1939.5	2018.1	2041.9	2038.3	2031.2	2043.1
6235.4	30°	4816.5	2213.5	1682.1	1740.5	1851.3	1922.8	1944.2	1935.9	1921.6	1934.7
6209.2	32.5°	4552.0	1860.8	1599.9	1658.3	1778.6	1848.9	1870.4	1862.0	1851.3	1862.0
6238.9	35°	4305.4	1614.2	1523.7	1603.5	1721.5	1790.6	1818.0	1819.1	1819.1	1832.3
6317.6	37.5°	4079.1	1470.1	1460.6	1569.0	1682.1	1744.1	1783.4	1785.8	1734.6	1738.1
6451.0	40°	3869.4	1409.3	1432.0	1546.3	1644.0	1703.6	1706.0	1572.5	1478.4	1476.0
6603.5	42.5°	3697.9	1397.4	1440.3	1544.0	1616.6	1619.0	1451.0	1347.4	1321.2	1322.4
6744.1	45°	3537.0	1393.8	1459.4	1544.0	1576.1	1398.6	1285.4	1258.0	1260.4	1269.9
6807.2	47.5°	3357.1	1379.5	1462.9	1522.5	1459.4	1243.7	1210.4	1198.5	1193.7	1196.1
6792.9	50°	3160.6	1328.3	1417.7	1479.6	1259.2	1177.0	1135.3	1131.8	1137.7	1141.3
6713.1	52.5°	2953.3	1244.9	1340.2	1402.2	1167.5	1118.6	1072.2	1080.5	1106.7	1115.1
6629.7	55°	2817.5	1147.2	1237.8	1247.3	1103.2	1063.8	1024.5	1043.6	1092.4	1107.9
6579.7	57.5°	2781.7	1043.6	1121.0	1110.3	1021.0	1016.2	992.4	1009.0	1071.0	1093.6
6577.3	60°	2771.0	950.7	1006.7	998.3	941.1	963.8	957.8	966.2	987.6	994.8
6553.5	62.5°	2687.6	876.8	904.2	892.3	869.7	909.0	923.3	905.4	922.1	930.4
6390.2	65°	2475.6	817.2	804.1	795.8	805.3	841.1	869.7	833.9	849.4	873.2
5761.2	67.5°	2125.3	736.2	700.5	710.0	739.8	758.9	795.8	755.3	768.4	808.9
4640.2	70°	1719.1	633.8	601.6	629.0	657.6	696.9	702.9	675.5	706.5	751.7
2831.8	72.5°	1216.3	530.1	507.5	563.5	573.0	624.3	611.1	598.0	640.9	656.4
1399.8	75°	843.5	427.7	414.6	457.5	492.0	536.1	526.6	542.1	632.6	639.7
699.3	77.5°	533.7	332.4	324.0	351.4	399.1	447.9	463.4	639.7	1080.5	1123.4
363.4	80°	309.7	247.8	238.3	259.7	301.4	346.7	446.7	785.1	712.4	704.1
163.2	82.5°	172.7	170.4	158.4	164.4	201.3	250.2	631.4	552.8	449.1	463.4
65.5	85°	81.0	100.1	85.8	82.2	113.2	293.1	421.7	315.7	209.7	204.9
14.3	87.5°	21.4	19.1	19.1	21.4	47.7	252.6	168.0	134.6	79.8	77.4
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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