

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: P953653

Luminaire Tested: **GALN-SB7A-927-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953653
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-SB7A-927-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19749 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

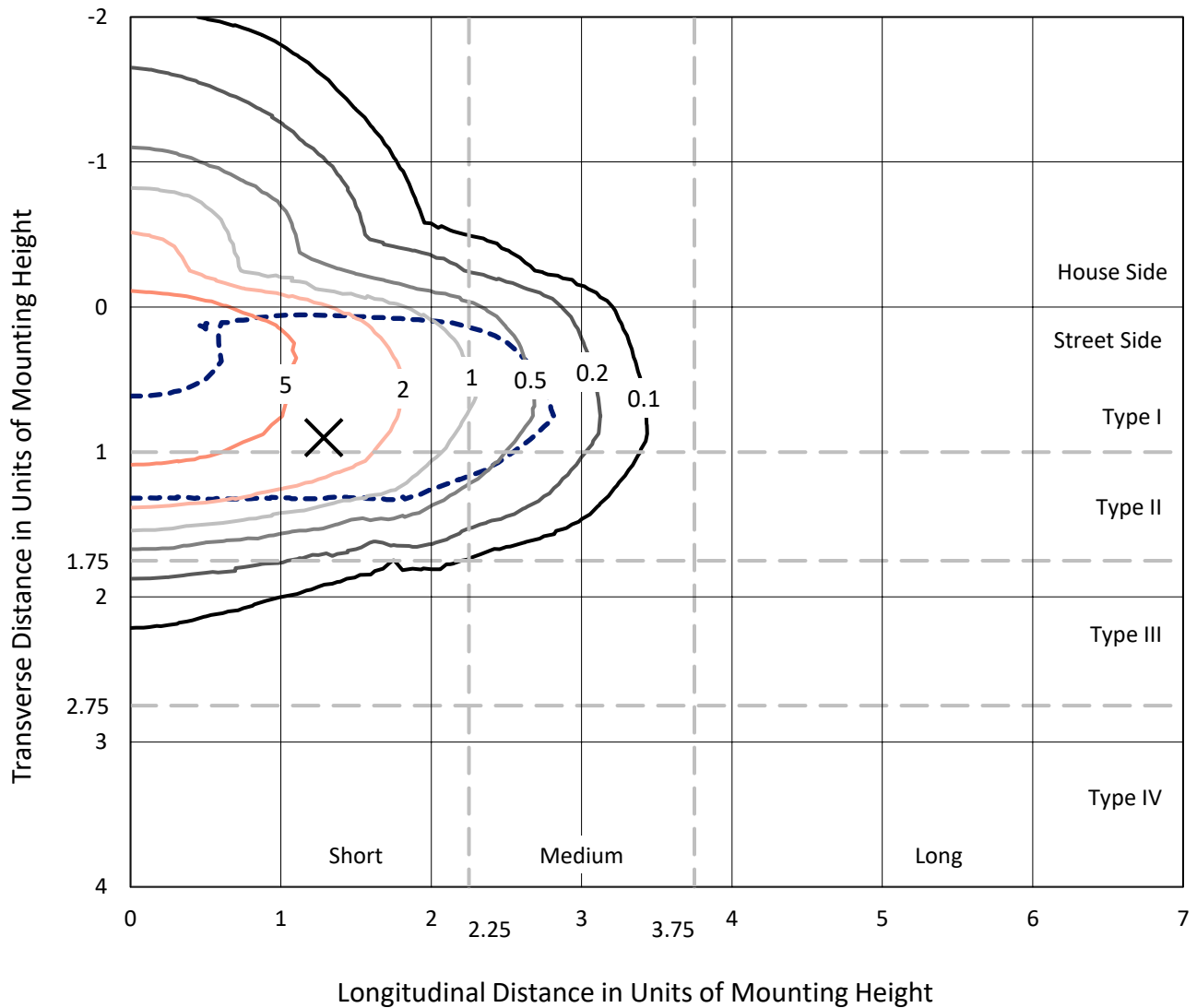
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

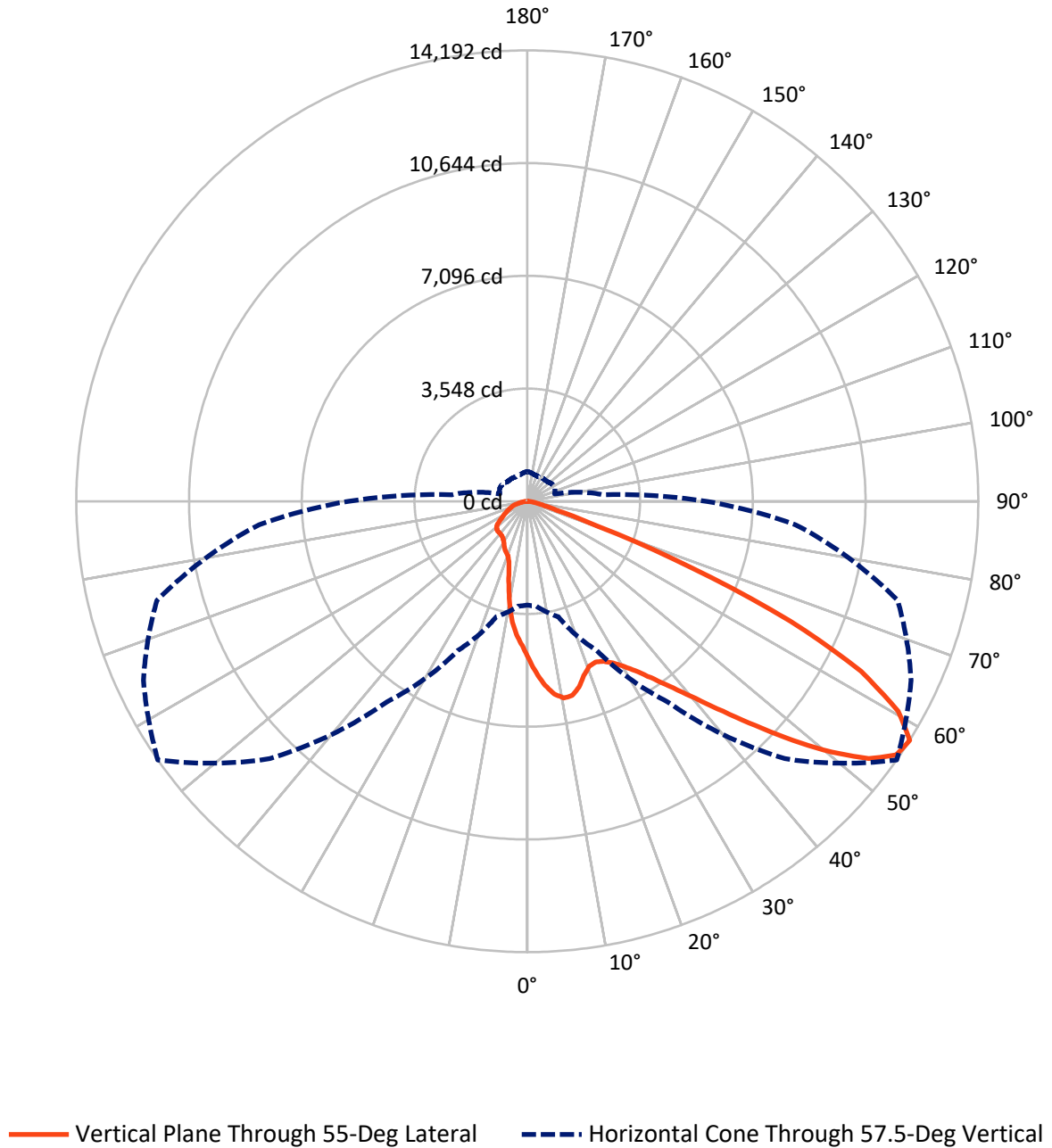
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 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	3573.5	0.0	3573.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	16175.5	0.0	16175.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	19749.0	0.0	19749.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	459.2	2.3
10°-20°	1159.0	5.9
20°-30°	1849.5	9.4
30°-40°	2928.1	14.8
40°-50°	4481.8	22.7
50°-60°	4800.4	24.3
60°-70°	3020.0	15.3
70°-80°	893.1	4.5
80°-90°	157.9	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°	19749.0	100.0
0°-180°	19749.0	100.0

Coefficient of Utilization



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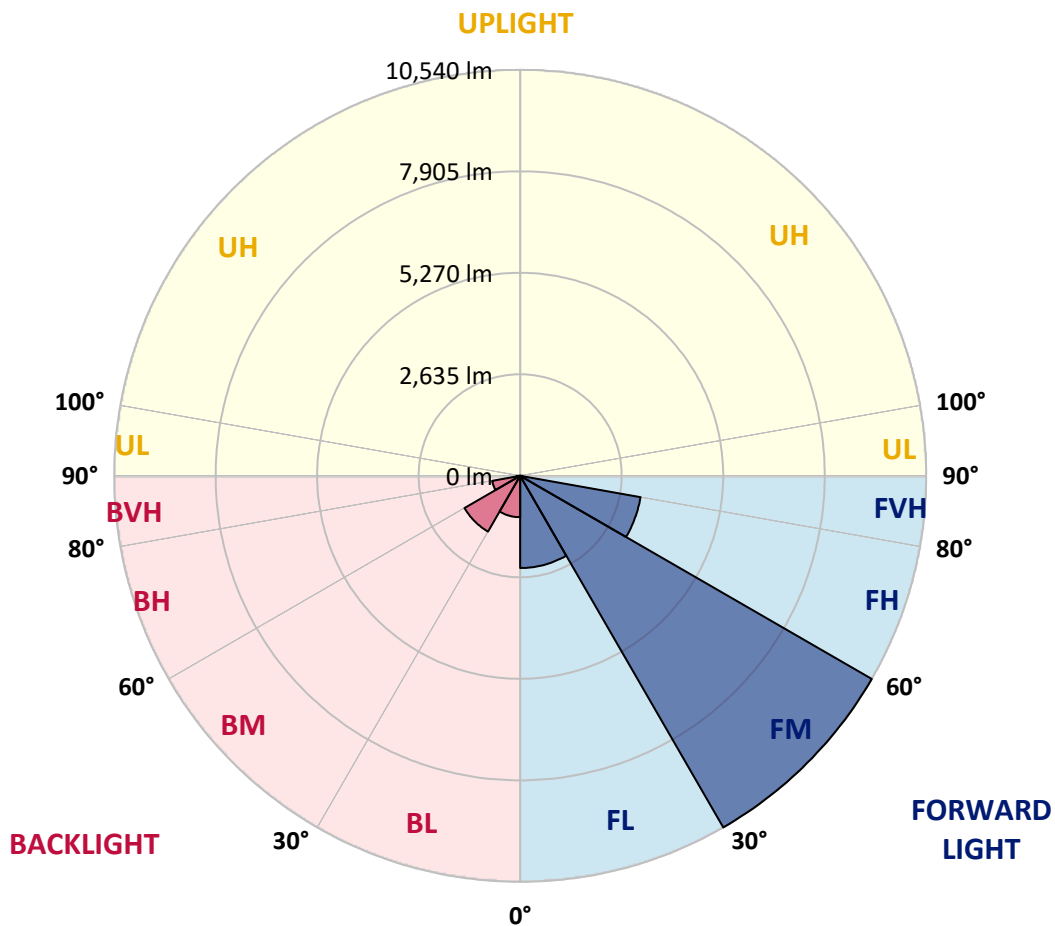
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2393.6	12.1			
FM (30°-60°)	10540.2	53.4			
FH (60°-80°)	3175.0	16.1			G2/5000
FVH (80°-90°)	66.7	0.3			G1/100
BL (0°-30°)	1074.1	5.4	B3/2500		
BM (30°-60°)	1670.2	8.5	B2/2500		
BH (60°-80°)	738.0	3.7	B2/1000		G2/1000
BVH (80°-90°)	91.2	0.5			G1/100
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°	4948.5	4948.5	4948.5	4948.5	4948.5	4948.5	4948.5	4948.5	4948.5	4948.5
2.5°	5677.4	5673.3	5695.8	5619.2	5567.1	5496.7	5403.8	5285.4	5157.7	5023.0
5°	6188.9	6153.2	6176.6	6119.5	6062.3	5956.1	5818.3	5625.3	5389.5	5121.0
7.5°	6108.2	6083.7	6144.0	6195.0	6237.9	6224.6	6123.6	5921.4	5617.2	5227.2
10°	5457.9	5430.3	5515.1	5691.7	5951.0	6176.6	6299.2	6173.6	5849.9	5343.6
12.5°	4884.1	4870.9	4927.0	5069.9	5357.9	5790.7	6276.7	6394.1	6091.9	5481.4
15°	4639.1	4622.8	4658.5	4731.0	4914.8	5318.0	6072.5	6545.2	6329.8	5640.7
17.5°	4585.0	4566.6	4581.9	4619.7	4738.1	5045.4	5764.2	6619.7	6577.9	5818.3
20°	4685.1	4669.7	4671.8	4669.7	4752.4	4996.4	5549.8	6591.1	6794.3	5981.6
22.5°	4927.0	4901.5	4902.5	4848.4	4893.3	5082.2	5493.6	6514.6	6987.3	6124.6
25°	5321.1	5275.2	5284.3	5146.5	5134.3	5274.1	5581.4	6455.4	7179.2	6238.9
27.5°	5860.2	5808.1	5780.5	5575.3	5477.3	5546.7	5760.1	6475.8	7360.9	6337.9
30°	6534.0	6470.7	6414.5	6123.6	5945.9	5920.4	6037.8	6610.5	7575.3	6442.1
32.5°	7359.9	7286.4	7184.3	6798.4	6548.3	6414.5	6397.2	6850.5	7826.5	6574.8
35°	8343.1	8247.1	8102.1	7602.9	7286.4	7012.8	6870.9	7196.6	8170.5	6774.9
37.5°	9355.8	9247.6	9114.9	8520.7	8131.7	7728.5	7448.7	7666.2	8628.9	7046.5
40°	10290.0	10168.5	10045.0	9516.1	9098.5	8612.6	8156.2	8260.4	9189.4	7371.1
42.5°	10841.3	10751.4	10704.5	10418.6	10096.0	9602.9	9036.3	8964.8	9819.3	7744.8
45°	10816.8	10780.0	10925.0	11043.4	10966.9	10693.2	10067.4	9743.8	10451.3	8068.4
47.5°	10238.9	10263.4	10587.1	11252.7	11545.7	11688.7	11241.5	10508.5	11000.5	8310.4
50°	8666.7	8687.1	9436.5	10871.9	11694.8	12500.3	12406.4	11254.8	11426.3	8458.4
52.5°	7422.2	7435.4	7757.0	9742.8	11202.7	12908.7	13455.9	11958.2	11737.7	8499.3
55°	5590.6	5636.6	5997.0	7643.7	9922.4	12585.0	14095.0	12683.0	11934.7	8503.3
57.5°	3266.0	3316.0	3761.1	5188.4	7712.1	11456.9	14192.0	13326.2	12068.4	8470.7
60°	1599.8	1621.2	1815.2	2726.9	4755.5	9283.3	13412.0	13637.6	12143.0	8453.3
62.5°	1078.1	1075.0	1083.2	1345.6	2343.0	5964.3	11786.7	13092.4	12103.2	8387.0
65°	927.0	915.8	885.1	944.4	1213.9	2727.9	9106.7	11465.1	11799.9	8220.5
67.5°	801.4	802.5	803.5	785.1	866.8	1258.8	5565.1	9031.2	10711.6	7432.4
70°	663.6	672.8	676.9	676.9	706.5	825.9	2375.7	6189.9	8449.2	5827.5
72.5°	604.4	585.0	587.0	576.8	576.8	628.9	956.6	3508.9	5323.1	3278.2
75°	493.1	505.4	507.4	500.3	476.8	479.8	567.6	1472.2	2277.7	1359.9
77.5°	425.7	425.7	429.8	424.7	406.3	359.4	378.8	570.7	774.9	557.4
80°	342.0	341.0	358.3	368.6	340.0	265.4	242.0	315.5	344.1	245.0
82.5°	166.4	176.6	246.0	280.8	258.3	191.9	148.0	196.0	183.8	108.2
85°	97.0	91.9	110.3	156.2	148.0	106.2	71.5	102.1	96.0	55.1
87.5°	30.6	28.6	22.5	53.1	42.9	29.6	19.4	29.6	26.5	12.3
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°
4948.5	0°	4948.5	4948.5	4948.5	4948.5	4948.5	4948.5	4948.5	4948.5	4948.5	4948.5
4964.8	2.5°	4892.3	4771.8	4652.4	4543.1	4476.8	4433.9	4391.0	4343.0	4324.7	4297.1
4978.1	5°	4843.3	4610.5	4403.3	4224.6	4062.3	3934.7	3806.0	3701.9	3654.9	3686.6
5019.9	7.5°	4814.7	4477.8	4158.3	3830.5	3515.1	3262.9	3043.4	2889.2	2819.8	2837.2
5060.8	10°	4789.2	4327.7	3840.7	3323.1	2869.8	2557.4	2332.8	2215.4	2171.5	2180.7
5115.9	12.5°	4765.7	4159.3	3457.9	2776.9	2295.1	2088.8	2024.5	2025.5	2033.7	2039.8
5203.7	15°	4761.6	3956.1	3030.1	2299.1	1984.7	1971.4	2040.8	2084.7	2108.2	2115.4
5277.2	17.5°	4755.5	3713.1	2594.2	1973.5	1909.1	1999.0	2063.3	2091.9	2110.3	2111.3
5348.7	20°	4731.0	3404.8	2191.9	1818.3	1892.8	1970.4	2010.2	2032.7	2048.0	2053.1
5402.8	22.5°	4655.5	3061.8	1878.5	1748.9	1827.5	1889.7	1936.7	1962.2	1971.4	1977.5
5413.0	25°	4519.7	2677.9	1662.1	1682.5	1736.6	1815.2	1853.0	1858.1	1855.0	1864.2
5387.5	27.5°	4342.0	2266.5	1527.3	1592.7	1662.1	1729.5	1749.9	1746.8	1740.7	1750.9
5343.6	30°	4127.6	1896.9	1441.6	1491.6	1586.5	1647.8	1666.2	1659.0	1646.8	1658.0
5321.1	32.5°	3901.0	1594.7	1371.1	1421.1	1524.3	1584.5	1602.9	1595.7	1586.5	1595.7
5346.6	35°	3689.6	1383.4	1305.8	1374.2	1475.2	1534.5	1557.9	1559.0	1559.0	1570.2
5414.0	37.5°	3495.7	1259.8	1251.7	1344.6	1441.6	1494.6	1528.3	1530.4	1486.5	1489.5
5528.3	40°	3316.0	1207.8	1227.2	1325.2	1408.9	1459.9	1462.0	1347.6	1267.0	1264.9
5659.0	42.5°	3169.0	1197.6	1234.3	1323.1	1385.4	1387.4	1243.5	1154.7	1132.2	1133.2
5779.5	45°	3031.1	1194.5	1250.6	1323.1	1350.7	1198.6	1101.6	1078.1	1080.1	1088.3
5833.6	47.5°	2877.0	1182.2	1253.7	1304.8	1250.6	1065.9	1037.3	1027.1	1023.0	1025.0
5821.4	50°	2708.5	1138.3	1214.9	1268.0	1079.1	1008.7	972.9	969.9	975.0	978.1
5753.0	52.5°	2530.9	1066.9	1148.5	1201.6	1000.5	958.7	918.8	926.0	948.4	955.6
5681.5	55°	2414.5	983.2	1060.7	1068.9	945.4	911.7	878.0	894.3	936.2	949.5
5638.6	57.5°	2383.9	894.3	960.7	951.5	874.9	870.9	850.4	864.7	917.8	937.2
5636.6	60°	2374.7	814.7	862.7	855.5	806.5	825.9	820.8	828.0	846.4	852.5
5616.1	62.5°	2303.2	751.4	774.9	764.7	745.3	779.0	791.2	775.9	790.2	797.3
5476.3	65°	2121.5	700.4	689.1	682.0	690.2	720.8	745.3	714.7	727.9	748.3
4937.2	67.5°	1821.3	630.9	600.3	608.5	634.0	650.3	682.0	647.3	658.5	693.2
3976.5	70°	1473.2	543.1	515.6	539.1	563.6	597.2	602.3	578.9	605.4	644.2
2426.8	72.5°	1042.4	454.3	434.9	482.9	491.1	535.0	523.7	512.5	549.3	562.5
1199.6	75°	722.8	366.5	355.3	392.0	421.6	459.4	451.3	464.5	542.1	548.2
599.3	77.5°	457.4	284.8	277.7	301.2	342.0	383.9	397.1	548.2	926.0	962.7
311.4	80°	265.4	212.4	204.2	222.6	258.3	297.1	382.8	672.8	610.5	603.4
139.9	82.5°	148.0	146.0	135.8	140.9	172.5	214.4	541.1	473.7	384.9	397.1
56.2	85°	69.4	85.8	73.5	70.4	97.0	251.1	361.4	270.5	179.7	175.6
12.3	87.5°	18.4	16.3	16.3	18.4	40.8	216.4	144.0	115.4	68.4	66.4
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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