

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: P948151

Luminaire Tested: **GALN-SB3B-750-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948151
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-SB3B-750-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18179 lumens
Efficiency: N/A
Efficacy: 166.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

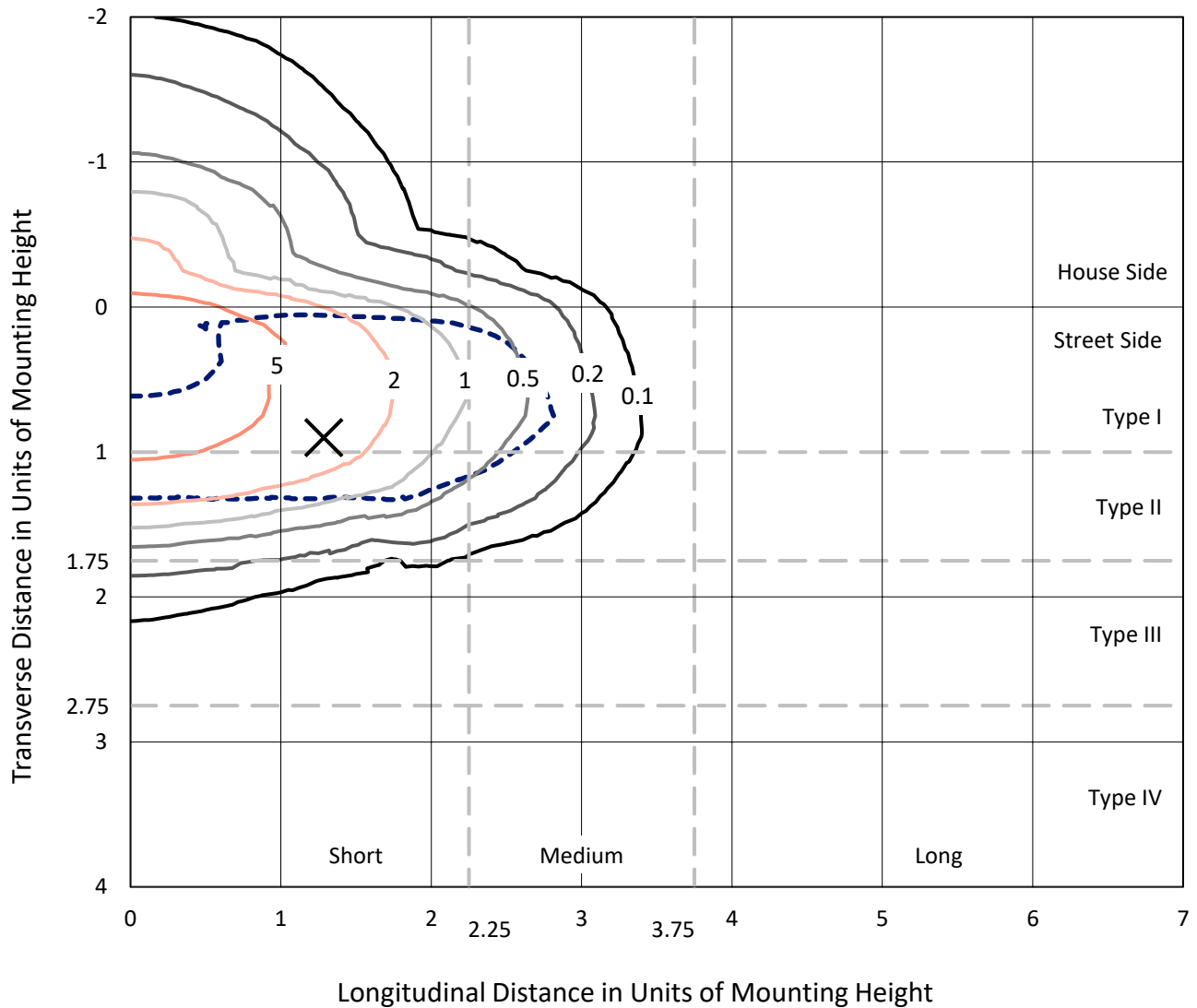
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

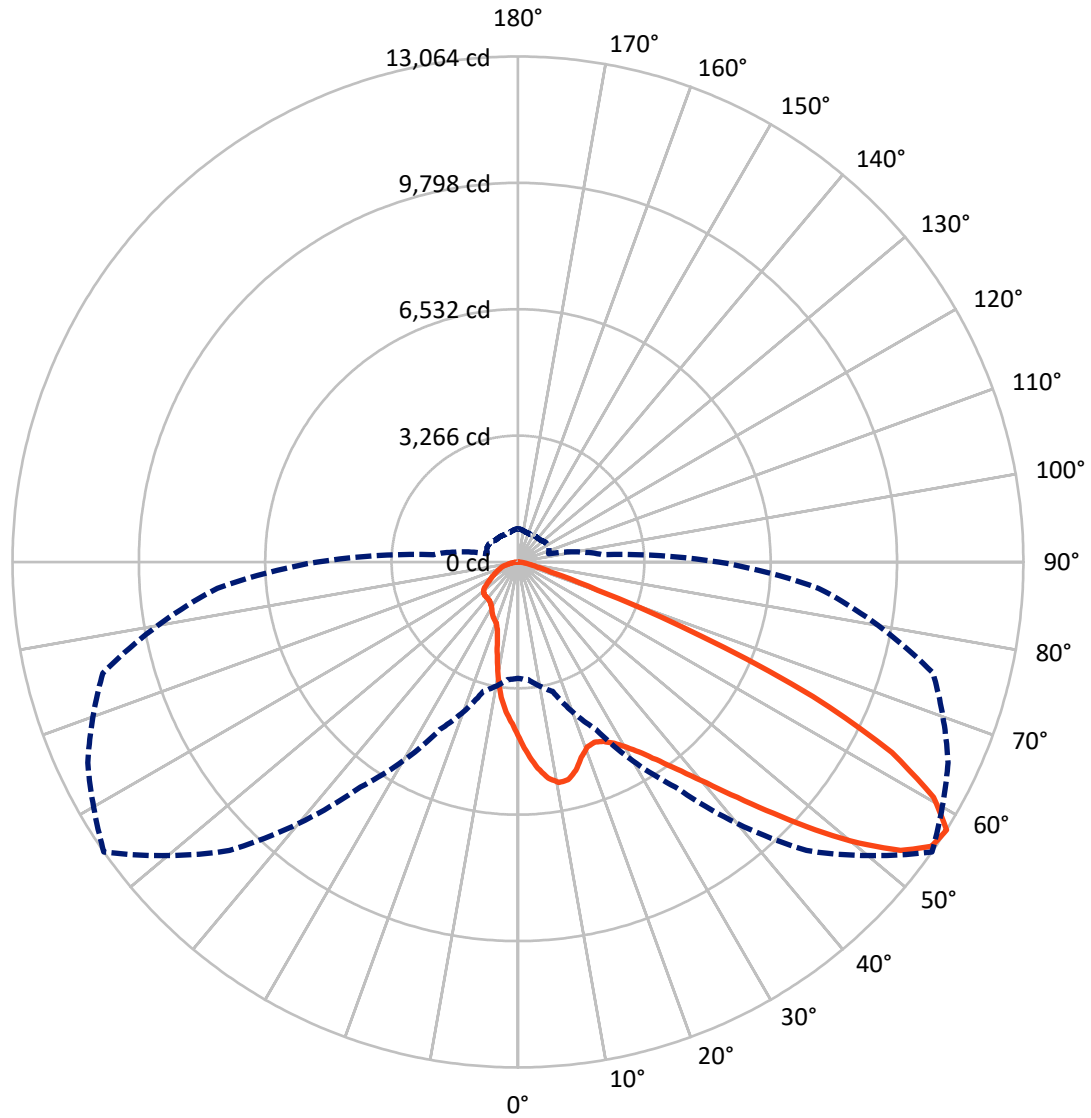
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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	3289.4	0.0	3289.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	14889.6	0.0	14889.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	18179.0	0.0	18179.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.7	2.3
10°-20°	1066.9	5.9
20°-30°	1702.4	9.4
30°-40°	2695.4	14.8
40°-50°	4125.5	22.7
50°-60°	4418.8	24.3
60°-70°	2779.9	15.3
70°-80°	822.1	4.5
80°-90°	145.4	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°	18179.0	100.0
0°-180°	18179.0	100.0

Coefficient of Utilization



REPORT NUMBER: P948151

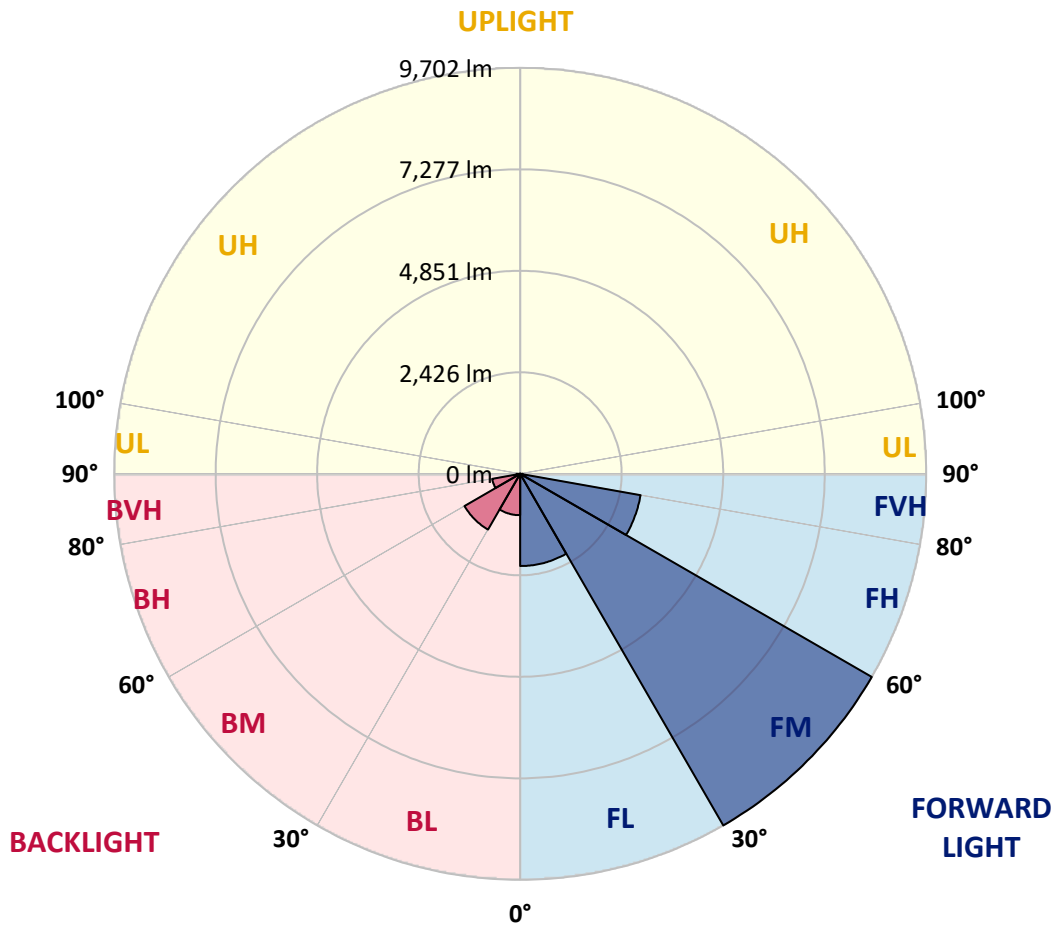
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2203.3	12.1			
FM (30°-60°)	9702.3	53.4			
FH (60°-80°)	2922.6	16.1			G2/5000
FVH (80°-90°)	61.4	0.3			G1/100
BL (0°-30°)	988.7	5.4	B2/1000		
BM (30°-60°)	1537.4	8.5	B2/2500		
BH (60°-80°)	679.3	3.7	B2/1000		G2/1000
BVH (80°-90°)	83.9	0.5			G1/100
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°	4555.1	4555.1	4555.1	4555.1	4555.1	4555.1	4555.1	4555.1	4555.1	4555.1
2.5°	5226.1	5222.3	5243.0	5172.5	5124.6	5059.7	4974.2	4865.2	4747.7	4623.7
5°	5696.9	5664.0	5685.6	5633.0	5580.4	5482.6	5355.8	5178.1	4961.0	4713.9
7.5°	5622.6	5600.1	5655.5	5702.5	5742.0	5729.8	5636.7	5450.7	5170.6	4811.6
10°	5024.0	4998.6	5076.6	5239.2	5477.9	5685.6	5798.4	5682.8	5384.9	4918.8
12.5°	4495.9	4483.6	4535.3	4666.9	4931.9	5330.4	5777.7	5885.8	5607.6	5045.6
15°	4270.3	4255.3	4288.2	4354.9	4524.1	4895.3	5589.8	6024.9	5826.6	5192.2
17.5°	4220.5	4203.6	4217.7	4252.5	4361.5	4644.3	5305.9	6093.5	6054.9	5355.8
20°	4312.6	4298.5	4300.4	4298.5	4374.6	4599.2	5108.6	6067.2	6254.2	5506.1
22.5°	4535.3	4511.8	4512.8	4463.0	4504.3	4678.2	5056.9	5996.7	6431.8	5637.7
25°	4898.1	4855.8	4864.3	4737.4	4726.1	4854.9	5137.7	5942.2	6608.5	5742.9
27.5°	5394.3	5346.4	5321.0	5132.1	5041.9	5105.8	5302.2	5961.0	6775.7	5834.1
30°	6014.5	5956.3	5904.6	5636.7	5473.2	5449.7	5557.8	6085.0	6973.1	5930.0
32.5°	6774.8	6707.1	6613.2	6257.9	6027.7	5904.6	5888.6	6305.9	7204.3	6052.1
35°	7679.8	7591.5	7458.0	6998.5	6707.1	6455.3	6324.7	6624.4	7521.0	6236.3
37.5°	8612.1	8512.4	8390.3	7843.3	7485.3	7114.1	6856.6	7056.7	7942.9	6486.3
40°	9471.9	9360.1	9246.4	8759.6	8375.2	7927.9	7507.8	7603.7	8458.9	6785.1
42.5°	9979.4	9896.7	9853.5	9590.4	9293.4	8839.5	8317.9	8252.1	9038.7	7129.1
45°	9956.9	9923.0	10056.5	10165.5	10095.0	9843.2	9267.1	8969.2	9620.4	7427.0
47.5°	9425.0	9447.5	9745.4	10358.1	10627.9	10759.4	10347.8	9673.1	10126.0	7649.7
50°	7977.7	7996.5	8686.3	10007.6	10765.1	11506.5	11420.1	10360.0	10517.9	7786.0
52.5°	6832.1	6844.3	7140.4	8968.2	10312.1	11882.5	12386.2	11007.5	10804.5	7823.6
55°	5146.2	5188.5	5520.2	7036.1	9133.6	11584.6	12974.5	11674.8	10985.9	7827.3
57.5°	3006.3	3052.4	3462.1	4775.9	7099.0	10546.1	13063.7	12266.8	11109.0	7797.3
60°	1472.6	1492.4	1670.9	2510.1	4377.5	8545.3	12345.8	12553.5	11177.6	7781.3
62.5°	992.4	989.6	997.1	1238.6	2156.8	5490.1	10849.6	12051.6	11141.0	7720.2
65°	853.3	843.0	814.8	869.3	1117.4	2511.1	8382.8	10553.6	10861.9	7567.0
67.5°	737.7	738.7	739.6	722.7	797.9	1158.7	5122.7	8313.2	9860.1	6841.5
70°	610.9	619.3	623.1	623.1	650.3	760.3	2186.8	5697.8	7777.5	5364.2
72.5°	556.3	538.5	540.4	531.0	531.0	578.9	880.6	3230.0	4900.0	3017.6
75°	453.9	465.2	467.1	460.5	438.9	441.7	522.5	1355.1	2096.6	1251.8
77.5°	391.9	391.9	395.6	390.9	374.0	330.8	348.7	525.3	713.3	513.1
80°	314.8	313.9	329.9	339.3	312.9	244.3	222.7	290.4	316.7	225.5
82.5°	153.2	162.6	226.5	258.4	237.8	176.7	136.3	180.4	169.2	99.6
85°	89.3	84.6	101.5	143.8	136.3	97.7	65.8	94.0	88.3	50.7
87.5°	28.2	26.3	20.7	48.9	39.5	27.3	17.9	27.3	24.4	11.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P948151
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CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
4555.1	0°	4555.1	4555.1	4555.1	4555.1	4555.1	4555.1	4555.1	4555.1	4555.1	4555.1
4570.1	2.5°	4503.4	4392.5	4282.5	4182.0	4120.9	4081.4	4042.0	3997.8	3980.9	3955.5
4582.3	5°	4458.3	4244.0	4053.2	3888.8	3739.3	3621.9	3503.5	3407.6	3364.4	3393.5
4620.9	7.5°	4432.0	4121.8	3827.7	3526.0	3235.6	3003.5	2801.5	2659.6	2595.6	2611.6
4658.4	10°	4408.5	3983.7	3535.4	3059.0	2641.7	2354.1	2147.4	2039.3	1998.9	2007.3
4709.2	12.5°	4386.8	3828.6	3183.0	2556.2	2112.6	1922.8	1863.6	1864.5	1872.0	1877.7
4790.0	15°	4383.1	3641.6	2789.2	2116.4	1826.9	1814.7	1878.6	1919.0	1940.6	1947.2
4857.7	17.5°	4377.5	3417.9	2388.0	1816.6	1757.4	1840.1	1899.3	1925.6	1942.5	1943.4
4923.5	20°	4354.9	3134.1	2017.7	1673.7	1742.3	1813.8	1850.4	1871.1	1885.2	1889.9
4973.3	22.5°	4285.4	2818.4	1729.2	1609.8	1682.2	1739.5	1782.7	1806.2	1814.7	1820.3
4982.7	25°	4160.4	2465.0	1529.9	1548.7	1598.5	1670.9	1705.7	1710.4	1707.6	1716.0
4959.2	27.5°	3996.8	2086.3	1405.9	1466.0	1529.9	1592.0	1610.8	1607.9	1602.3	1611.7
4918.8	30°	3799.5	1746.1	1327.0	1373.0	1460.4	1516.8	1533.7	1527.1	1515.8	1526.2
4898.1	32.5°	3590.9	1467.9	1262.1	1308.2	1403.1	1458.5	1475.4	1468.9	1460.4	1468.9
4921.6	35°	3396.3	1273.4	1202.0	1264.9	1358.0	1412.5	1434.1	1435.0	1435.0	1445.4
4983.6	37.5°	3217.8	1159.7	1152.2	1237.7	1327.0	1375.8	1406.8	1408.7	1368.3	1371.1
5088.9	40°	3052.4	1111.7	1129.6	1219.8	1296.9	1343.9	1345.8	1240.5	1166.3	1164.4
5209.1	42.5°	2917.0	1102.4	1136.2	1217.9	1275.3	1277.1	1144.6	1062.9	1042.2	1043.1
5320.0	45°	2790.2	1099.5	1151.2	1217.9	1243.3	1103.3	1014.0	992.4	994.3	1001.8
5369.8	47.5°	2648.3	1088.3	1154.0	1201.0	1151.2	981.1	954.8	945.4	941.6	943.5
5358.6	50°	2493.2	1047.8	1118.3	1167.2	993.3	928.5	895.6	892.8	897.5	900.3
5295.6	52.5°	2329.7	982.1	1057.2	1106.1	921.0	882.4	845.8	852.4	873.0	879.6
5229.8	55°	2222.6	905.0	976.4	983.9	870.2	839.2	808.2	823.2	861.8	874.0
5190.4	57.5°	2194.4	823.2	884.3	875.9	805.4	801.6	782.8	796.0	844.9	862.7
5188.5	60°	2185.9	749.9	794.1	787.5	742.4	760.3	755.6	762.2	779.1	784.7
5169.7	62.5°	2120.1	691.7	713.3	703.9	686.0	717.0	728.3	714.2	727.4	734.0
5040.9	65°	1952.8	644.7	634.3	627.8	635.3	663.5	686.0	657.8	670.1	688.9
4544.7	67.5°	1676.6	580.8	552.6	560.1	583.6	598.6	627.8	595.8	606.2	638.1
3660.4	70°	1356.1	500.0	474.6	496.2	518.8	549.8	554.5	532.8	557.3	593.0
2233.8	72.5°	959.5	418.2	400.3	444.5	452.0	492.4	482.1	471.8	505.6	517.8
1104.2	75°	665.4	337.4	327.0	360.9	388.1	422.9	415.4	427.6	499.0	504.7
551.6	77.5°	421.0	262.2	255.6	277.2	314.8	353.4	365.6	504.7	852.4	886.2
286.6	80°	244.3	195.5	188.0	204.9	237.8	273.5	352.4	619.3	562.0	555.4
128.7	82.5°	136.3	134.4	125.0	129.7	158.8	197.4	498.1	436.1	354.3	365.6
51.7	85°	63.9	78.9	67.7	64.8	89.3	231.2	332.7	249.0	165.4	161.6
11.3	87.5°	16.9	15.0	15.0	16.9	37.6	199.2	132.5	106.2	63.0	61.1
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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