

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: P949621

Luminaire Tested: **GALN-SB4B-827-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949621
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-SB4B-827-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19958 lumens
Efficiency: N/A
Efficacy: 135.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

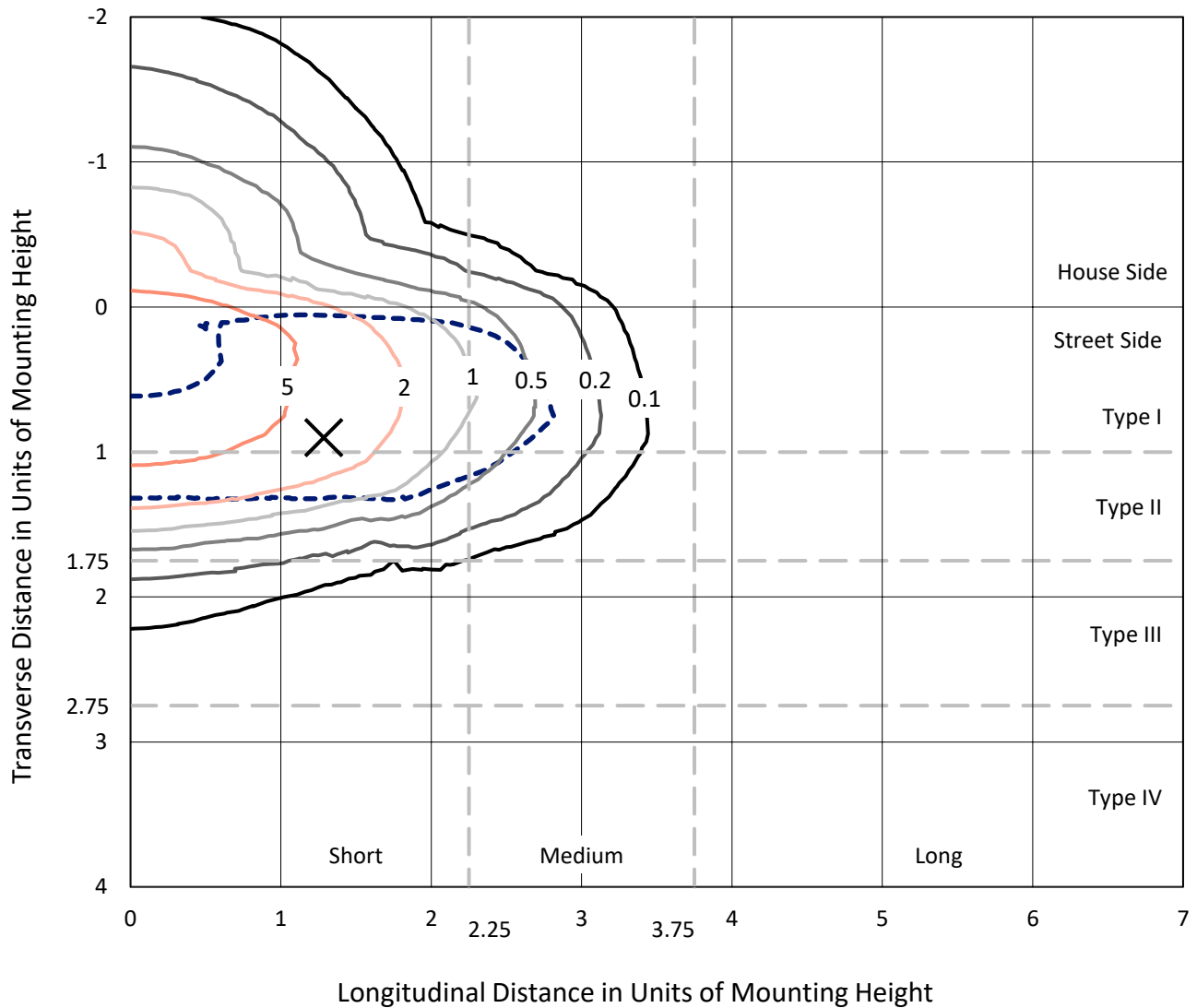
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

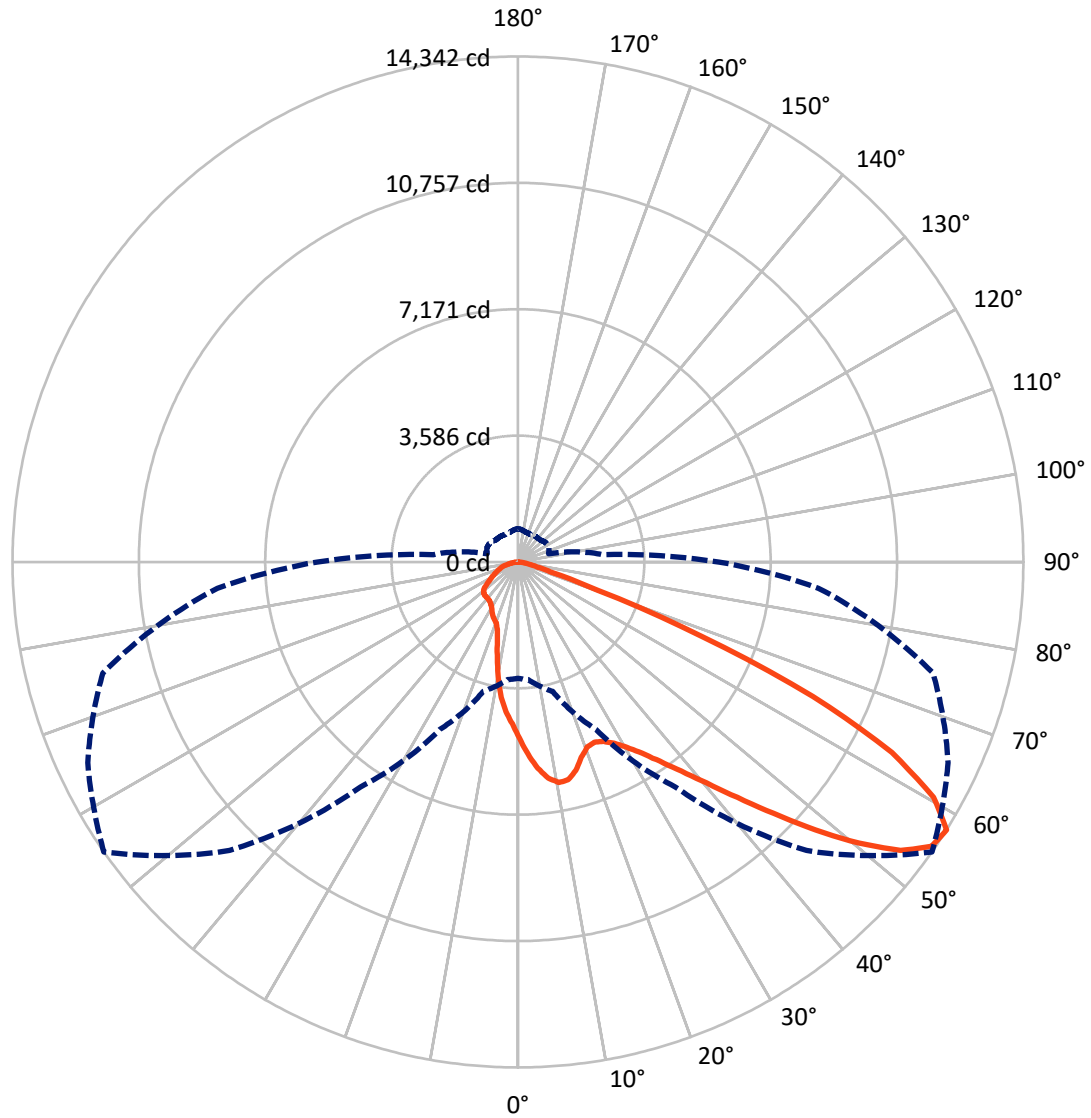
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 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	3611.3	0.0	3611.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	16346.7	0.0	16346.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	19958.0	0.0	19958.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	464.0	2.3
10°-20°	1171.3	5.9
20°-30°	1869.0	9.4
30°-40°	2959.1	14.8
40°-50°	4529.2	22.7
50°-60°	4851.2	24.3
60°-70°	3051.9	15.3
70°-80°	902.5	4.5
80°-90°	159.6	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°	19958.0	100.0
0°-180°	19958.0	100.0

Coefficient of Utilization



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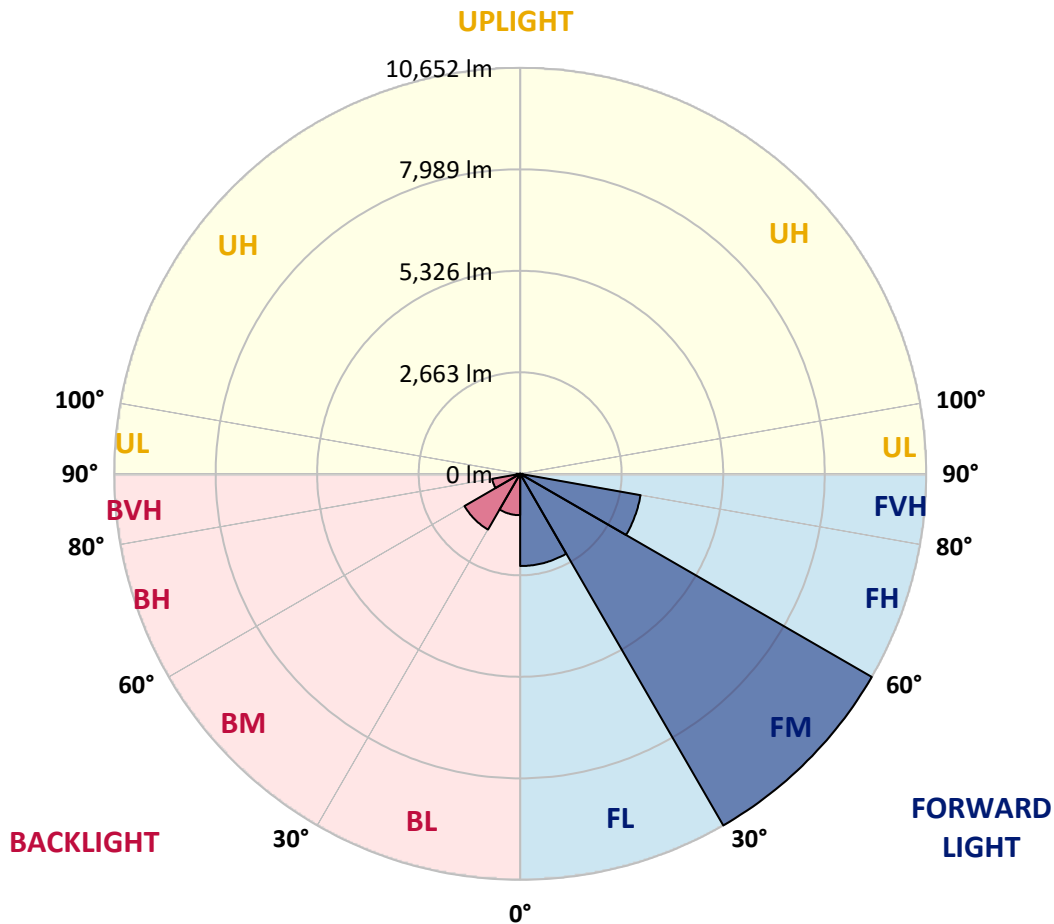
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2418.9	12.1			
FM (30°-60°)	10651.7	53.4			
FH (60°-80°)	3208.6	16.1			G2/5000
FVH (80°-90°)	67.4	0.3			G1/100
BL (0°-30°)	1085.4	5.4	B3/2500		
BM (30°-60°)	1687.9	8.5	B2/2500		
BH (60°-80°)	745.8	3.7	B2/1000		G2/1000
BVH (80°-90°)	92.2	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°	5000.8	5000.8	5000.8	5000.8	5000.8	5000.8	5000.8	5000.8	5000.8	5000.8
2.5°	5737.5	5733.4	5756.1	5678.7	5626.1	5554.9	5461.0	5341.3	5212.3	5076.1
5°	6254.4	6218.3	6242.0	6184.2	6126.5	6019.2	5879.9	5684.9	5446.5	5175.2
7.5°	6172.9	6148.1	6209.0	6260.6	6303.9	6290.5	6188.4	5984.1	5676.6	5282.5
10°	5515.7	5487.8	5573.4	5751.9	6014.0	6242.0	6365.8	6238.9	5911.9	5400.1
12.5°	4935.8	4922.4	4979.2	5123.6	5414.6	5852.0	6343.1	6461.8	6156.4	5539.4
15°	4688.2	4671.7	4707.8	4781.1	4966.8	5374.3	6136.8	6614.5	6396.8	5700.3
17.5°	4633.5	4615.0	4630.4	4668.6	4788.3	5098.8	5825.2	6689.8	6647.5	5879.9
20°	4734.6	4719.2	4721.2	4719.2	4802.7	5049.3	5608.5	6660.9	6866.2	6044.9
22.5°	4979.2	4953.4	4954.4	4899.7	4945.1	5136.0	5551.8	6583.5	7061.2	6189.4
25°	5377.4	5331.0	5340.3	5201.0	5188.6	5330.0	5640.5	6523.7	7255.2	6304.9
27.5°	5922.2	5869.5	5841.7	5634.3	5535.3	5605.4	5821.1	6544.3	7438.8	6405.0
30°	6603.1	6539.1	6482.4	6188.4	6008.8	5983.0	6101.7	6680.5	7655.5	6510.3
32.5°	7437.8	7363.5	7260.3	6870.3	6617.6	6482.4	6464.9	6923.0	7909.3	6644.4
35°	8431.4	8334.4	8187.9	7683.3	7363.5	7087.0	6943.6	7272.7	8257.0	6846.6
37.5°	9454.8	9345.5	9211.3	8610.9	8217.8	7810.2	7527.5	7747.3	8720.2	7121.0
40°	10398.9	10276.1	10151.3	9616.8	9194.8	8703.7	8242.5	8347.8	9286.7	7449.1
42.5°	10956.0	10865.2	10817.8	10528.9	10202.8	9704.5	9131.9	9059.7	9923.2	7826.8
45°	10931.2	10894.1	11040.6	11160.3	11082.9	10806.4	10174.0	9846.9	10561.9	8153.8
47.5°	10347.3	10372.0	10699.1	11371.8	11667.9	11812.4	11360.5	10619.7	11117.0	8398.3
50°	8758.4	8779.0	9536.3	10987.0	11818.5	12632.6	12537.7	11373.9	11547.2	8547.9
52.5°	7500.7	7514.1	7839.1	9845.9	11321.2	13045.3	13598.3	12084.7	11861.9	8589.2
55°	5649.8	5696.2	6060.4	7724.6	10027.4	12718.2	14244.2	12817.3	12061.0	8593.3
57.5°	3300.5	3351.1	3800.9	5243.3	7793.7	11578.1	14342.2	13467.3	12196.2	8560.3
60°	1616.7	1638.4	1834.4	2755.8	4805.8	9381.6	13553.9	13781.9	12271.5	8542.8
62.5°	1089.5	1086.4	1094.7	1359.8	2367.8	6027.4	11911.4	13231.0	12231.2	8475.7
65°	936.8	925.5	894.5	954.4	1226.7	2756.8	9203.1	11586.4	11924.8	8307.5
67.5°	809.9	810.9	812.0	793.4	875.9	1272.1	5624.0	9126.7	10825.0	7511.0
70°	670.6	679.9	684.0	684.0	714.0	834.7	2400.9	6255.4	8538.7	5889.2
72.5°	610.8	591.2	593.2	582.9	582.9	635.5	966.7	3546.1	5379.5	3312.9
75°	498.3	510.7	512.8	505.6	481.8	484.9	573.6	1487.8	2301.8	1374.3
77.5°	430.2	430.2	434.4	429.2	410.6	363.2	382.8	576.7	783.1	563.3
80°	345.6	344.6	362.1	372.5	343.6	268.3	244.5	318.8	347.7	247.6
82.5°	168.2	178.5	248.6	283.7	261.0	194.0	149.6	198.1	185.7	109.4
85°	98.0	92.9	111.4	157.9	149.6	107.3	72.2	103.2	97.0	55.7
87.5°	31.0	28.9	22.7	53.7	43.3	29.9	19.6	29.9	26.8	12.4
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°
5000.8	0°	5000.8	5000.8	5000.8	5000.8	5000.8	5000.8	5000.8	5000.8	5000.8	5000.8
5017.3	2.5°	4944.1	4822.3	4701.6	4591.2	4524.2	4480.8	4437.5	4389.0	4370.4	4342.6
5030.7	5°	4894.6	4659.3	4449.9	4269.3	4105.3	3976.3	3846.3	3741.1	3693.6	3725.6
5073.0	7.5°	4865.7	4525.2	4202.3	3871.1	3552.3	3297.4	3075.6	2919.8	2849.7	2867.2
5114.3	10°	4839.9	4373.5	3881.4	3358.3	2900.2	2584.5	2357.5	2238.9	2194.5	2203.8
5170.0	12.5°	4816.1	4203.3	3494.5	2806.3	2319.3	2110.9	2045.9	2047.0	2055.2	2061.4
5258.8	15°	4812.0	3998.0	3062.2	2323.5	2005.7	1992.3	2062.4	2106.8	2130.5	2137.8
5333.0	17.5°	4805.8	3752.4	2621.6	1994.3	1929.3	2020.1	2085.1	2114.0	2132.6	2133.6
5405.3	20°	4781.1	3440.8	2215.1	1837.5	1912.8	1991.3	2031.5	2054.2	2069.7	2074.8
5459.9	22.5°	4704.7	3094.2	1898.4	1767.4	1846.8	1909.7	1957.2	1983.0	1992.3	1998.5
5470.3	25°	4567.5	2706.2	1679.7	1700.3	1755.0	1834.4	1872.6	1877.8	1874.7	1884.0
5444.5	27.5°	4388.0	2290.5	1543.5	1609.5	1679.7	1747.8	1768.4	1765.3	1759.1	1769.4
5400.1	30°	4171.3	1917.0	1456.8	1507.4	1603.3	1665.2	1683.8	1676.6	1664.2	1675.5
5377.4	32.5°	3942.3	1611.6	1385.6	1436.2	1540.4	1601.3	1619.8	1612.6	1603.3	1612.6
5403.2	35°	3728.7	1398.0	1319.6	1388.7	1490.9	1550.7	1574.4	1575.5	1575.5	1586.8
5471.3	37.5°	3532.7	1273.2	1264.9	1358.8	1456.8	1510.5	1544.5	1546.6	1502.2	1505.3
5586.9	40°	3351.1	1220.5	1240.1	1339.2	1423.8	1475.4	1477.4	1361.9	1280.4	1278.3
5718.9	42.5°	3202.5	1210.2	1247.4	1337.1	1400.1	1402.1	1256.7	1166.9	1144.2	1145.2
5840.7	45°	3063.2	1207.1	1263.9	1337.1	1365.0	1211.3	1113.2	1089.5	1091.6	1099.8
5895.3	47.5°	2907.4	1194.8	1267.0	1318.6	1263.9	1077.1	1048.2	1037.9	1033.8	1035.9
5883.0	50°	2737.2	1150.4	1227.8	1281.4	1090.5	1019.4	983.2	980.1	985.3	988.4
5813.8	52.5°	2557.7	1078.2	1160.7	1214.4	1011.1	968.8	928.6	935.8	958.5	965.7
5741.6	55°	2440.1	993.6	1072.0	1080.2	955.4	921.3	887.3	903.8	946.1	959.5
5698.3	57.5°	2409.1	903.8	970.9	961.6	884.2	880.1	859.4	873.9	927.5	947.1
5696.2	60°	2399.8	823.3	871.8	864.6	815.1	834.7	829.5	836.7	855.3	861.5
5675.6	62.5°	2327.6	759.4	783.1	772.8	753.2	787.2	799.6	784.1	798.6	805.8
5534.2	65°	2143.9	707.8	696.4	689.2	697.5	728.4	753.2	722.2	735.6	756.3
4989.5	67.5°	1840.6	637.6	606.7	614.9	640.7	657.2	689.2	654.1	665.5	700.5
4018.6	70°	1488.8	548.9	521.0	544.8	569.5	603.6	608.7	585.0	611.8	651.0
2452.4	72.5°	1053.4	459.1	439.5	488.0	496.3	540.6	529.3	517.9	555.1	568.5
1212.3	75°	730.5	370.4	359.0	396.2	426.1	464.3	456.0	469.4	547.9	554.0
605.6	77.5°	462.2	287.9	280.6	304.4	345.6	387.9	401.3	554.0	935.8	972.9
314.7	80°	268.3	214.6	206.3	224.9	261.0	300.2	386.9	679.9	617.0	609.8
141.3	82.5°	149.6	147.5	137.2	142.4	174.4	216.7	546.8	478.7	389.0	401.3
56.7	85°	70.2	86.7	74.3	71.2	98.0	253.8	365.2	273.4	181.6	177.5
12.4	87.5°	18.6	16.5	16.5	18.6	41.3	218.7	145.5	116.6	69.1	67.1
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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