

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: P950083

Luminaire Tested: **GALN-SB4C-927-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950083
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-SB4C-927-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18581 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

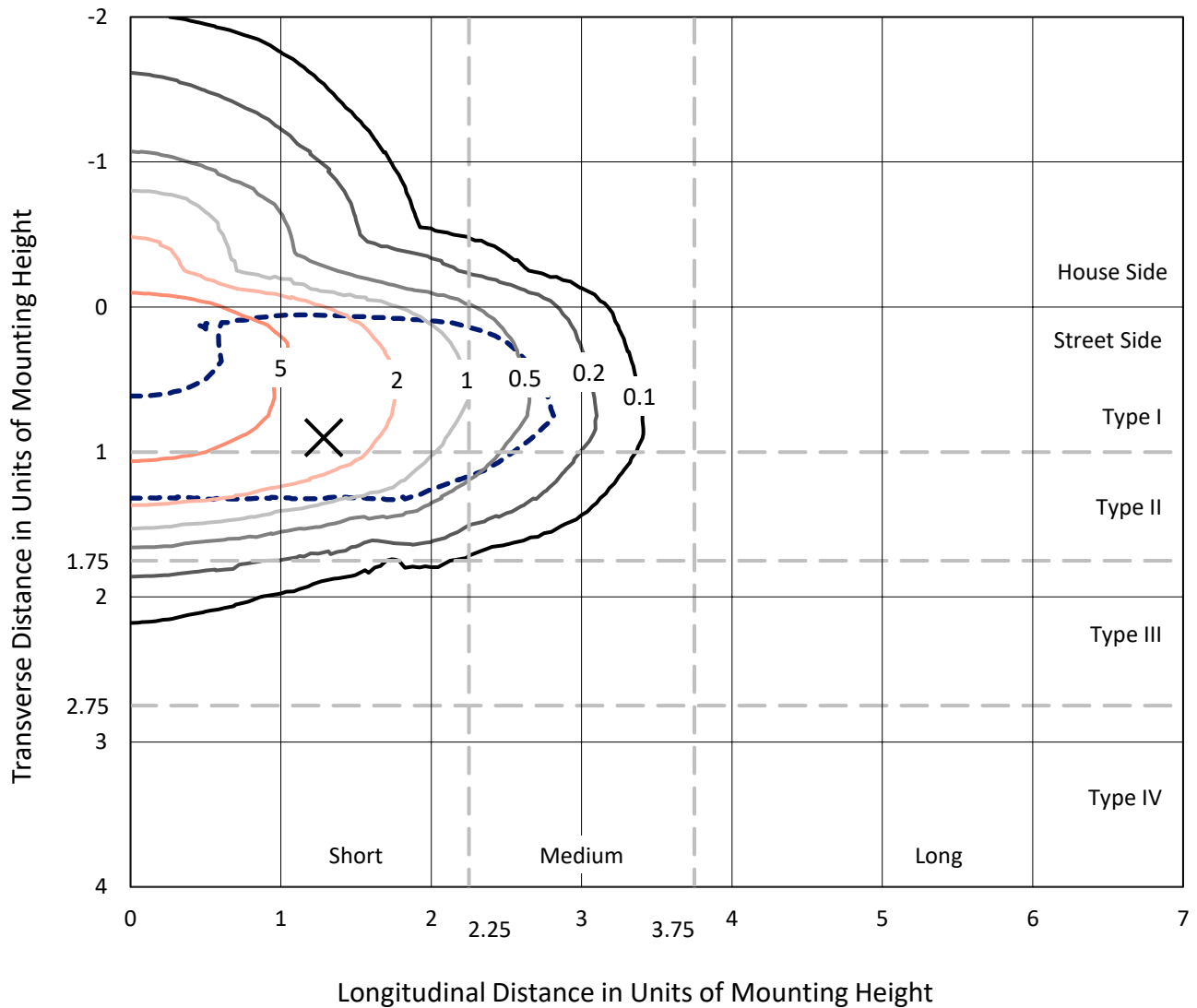
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

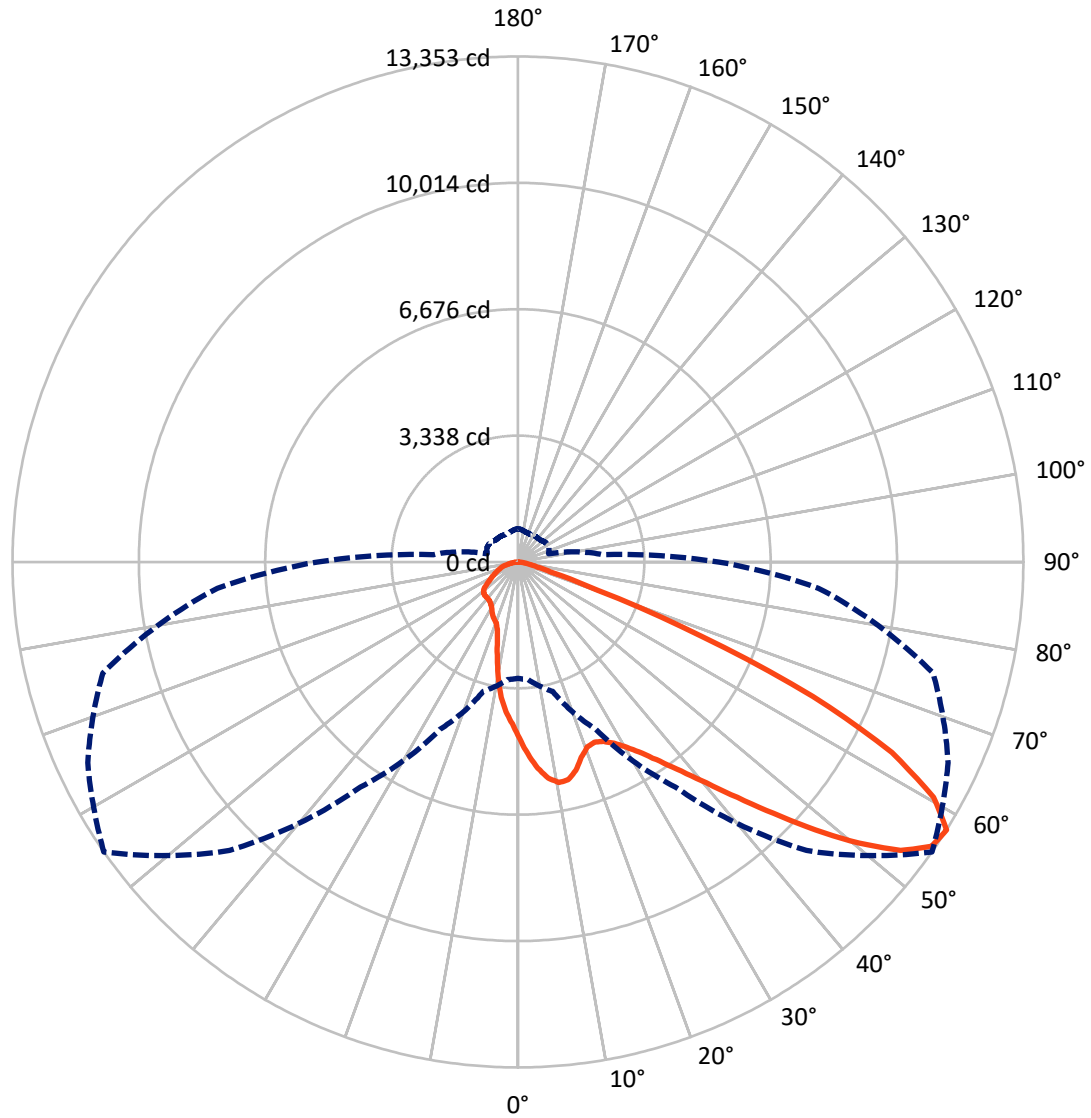
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 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	3362.1	0.0	3362.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	15218.9	0.0	15218.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	18581.0	0.0	18581.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	432.0	2.3
10°-20°	1090.5	5.9
20°-30°	1740.1	9.4
30°-40°	2755.0	14.8
40°-50°	4216.7	22.7
50°-60°	4516.5	24.3
60°-70°	2841.4	15.3
70°-80°	840.3	4.5
80°-90°	148.6	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°	18581.0	100.0
0°-180°	18581.0	100.0

Coefficient of Utilization



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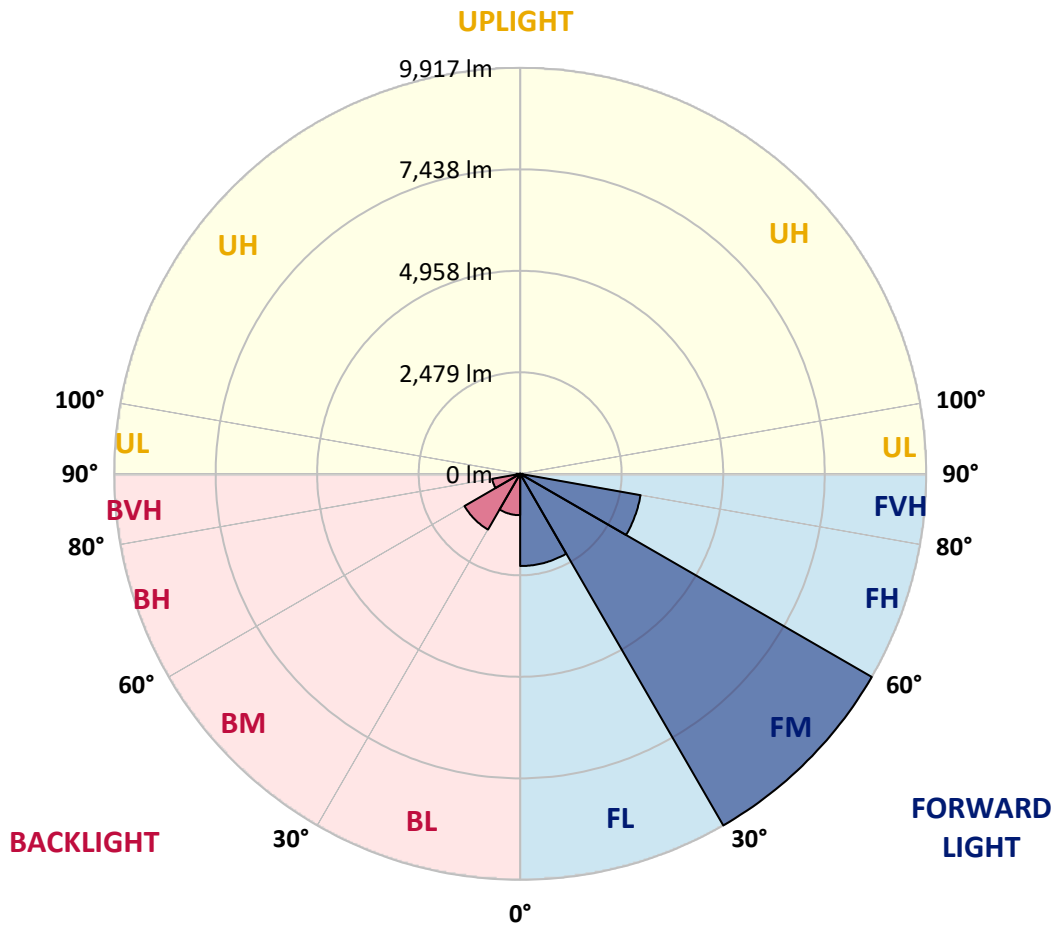
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2252.0	12.1			
FM (30°-60°)	9916.8	53.4			
FH (60°-80°)	2987.3	16.1			G2/5000
FVH (80°-90°)	62.8	0.3			G1/100
BL (0°-30°)	1010.5	5.4	B3/2500		
BM (30°-60°)	1571.4	8.5	B2/2500		
BH (60°-80°)	694.4	3.7	B2/1000		G2/1000
BVH (80°-90°)	85.8	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°	4655.8	4655.8	4655.8	4655.8	4655.8	4655.8	4655.8	4655.8	4655.8	4655.8
2.5°	5341.6	5337.8	5358.9	5286.9	5237.9	5171.6	5084.2	4972.8	4852.7	4725.9
5°	5822.9	5789.2	5811.3	5757.5	5703.8	5603.9	5474.2	5292.6	5070.8	4818.1
7.5°	5747.0	5723.9	5780.6	5828.6	5869.0	5856.5	5761.4	5571.2	5285.0	4918.0
10°	5135.1	5109.2	5188.9	5355.1	5599.1	5811.3	5926.6	5808.5	5504.0	5027.5
12.5°	4595.3	4582.8	4635.6	4770.1	5041.0	5448.3	5905.5	6015.9	5731.6	5157.2
15°	4364.7	4349.4	4383.0	4451.2	4624.1	5003.5	5713.4	6158.1	5955.4	5307.0
17.5°	4313.8	4296.5	4311.0	4346.5	4457.9	4747.0	5423.3	6228.2	6188.8	5474.2
20°	4408.0	4393.6	4395.5	4393.6	4471.4	4700.9	5221.6	6201.3	6392.5	5627.9
22.5°	4635.6	4611.6	4612.6	4561.7	4603.9	4781.6	5168.7	6129.3	6574.0	5762.4
25°	5006.4	4963.2	4971.8	4842.1	4830.6	4962.2	5251.3	6073.6	6754.6	5869.9
27.5°	5513.6	5464.6	5438.6	5245.6	5153.4	5218.7	5419.4	6092.8	6925.6	5963.1
30°	6147.5	6088.0	6035.1	5761.4	5594.3	5570.2	5680.7	6219.6	7127.3	6061.1
32.5°	6924.6	6855.5	6759.4	6396.3	6161.0	6035.1	6018.8	6445.3	7363.6	6186.0
35°	7849.6	7759.3	7622.9	7153.2	6855.5	6598.0	6464.5	6770.9	7687.3	6374.2
37.5°	8802.5	8700.7	8575.8	8016.8	7650.8	7271.4	7008.2	7212.8	8118.6	6629.7
40°	9681.4	9567.1	9450.9	8953.3	8560.4	8103.2	7673.8	7771.8	8645.9	6935.2
42.5°	10200.1	10115.6	10071.4	9802.4	9498.9	9035.0	8501.8	8434.6	9238.6	7286.7
45°	10177.0	10142.5	10278.9	10390.3	10318.2	10060.8	9472.0	9167.5	9833.2	7591.2
47.5°	9633.4	9656.4	9960.9	10587.2	10862.9	10997.4	10576.6	9887.0	10349.9	7818.9
50°	8154.1	8173.3	8878.4	10228.9	11003.1	11761.0	11672.6	10589.1	10750.5	7958.2
52.5°	6983.2	6995.7	7298.3	9166.5	10540.1	12145.2	12660.1	11250.9	11043.5	7996.6
55°	5260.0	5303.2	5642.3	7191.7	9335.6	11840.7	13261.4	11932.9	11228.9	8000.4
57.5°	3072.8	3119.9	3538.7	4881.5	7256.0	10779.3	13352.6	12538.1	11354.7	7969.7
60°	1505.2	1525.4	1707.9	2565.6	4474.3	8734.3	12618.8	12831.1	11424.8	7953.4
62.5°	1014.3	1011.5	1019.1	1266.0	2204.5	5611.5	11089.6	12318.1	11387.3	7890.9
65°	872.2	861.6	832.8	888.5	1142.1	2566.6	8568.1	10787.0	11102.1	7734.4
67.5°	754.0	755.0	756.0	738.7	815.5	1184.4	5236.0	8497.0	10078.1	6992.8
70°	624.4	633.0	636.8	636.8	664.7	777.1	2235.2	5823.8	7949.5	5482.8
72.5°	568.6	550.4	552.3	542.7	542.7	591.7	900.0	3301.4	5008.3	3084.3
75°	463.9	475.5	477.4	470.7	448.6	451.5	534.1	1385.1	2143.0	1279.5
77.5°	400.6	400.6	404.4	399.6	382.3	338.1	356.4	536.9	729.1	524.5
80°	321.8	320.8	337.2	346.8	319.9	249.7	227.7	296.8	323.7	230.5
82.5°	156.6	166.2	231.5	264.2	243.0	180.6	139.3	184.4	172.9	101.8
85°	91.3	86.4	103.7	147.0	139.3	99.9	67.2	96.1	90.3	51.9
87.5°	28.8	26.9	21.1	49.9	40.3	27.9	18.3	27.9	25.0	11.5
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°
4655.8	0°	4655.8	4655.8	4655.8	4655.8	4655.8	4655.8	4655.8	4655.8	4655.8	4655.8
4671.2	2.5°	4603.0	4489.6	4377.2	4274.5	4212.0	4171.7	4131.3	4086.2	4068.9	4043.0
4683.7	5°	4556.9	4337.9	4142.9	3974.8	3822.0	3702.0	3580.9	3483.0	3438.8	3468.6
4723.0	7.5°	4530.0	4213.0	3912.3	3604.0	3307.2	3069.9	2863.4	2718.4	2653.0	2669.4
4761.5	10°	4505.9	4071.8	3613.6	3126.6	2700.1	2406.2	2194.9	2084.4	2043.1	2051.7
4813.3	12.5°	4483.9	3913.3	3253.4	2612.7	2159.3	1965.3	1904.8	1905.7	1913.4	1919.2
4895.9	15°	4480.0	3722.1	2850.9	2163.2	1867.3	1854.8	1920.1	1961.4	1983.5	1990.3
4965.1	17.5°	4474.3	3493.5	2440.8	1856.7	1796.2	1880.8	1941.3	1968.2	1985.5	1986.4
5032.3	20°	4451.2	3203.4	2062.3	1710.7	1780.9	1853.9	1891.3	1912.5	1926.9	1931.7
5083.2	22.5°	4380.1	2880.7	1767.4	1645.4	1719.4	1778.0	1822.2	1846.2	1854.8	1860.6
5092.8	25°	4252.4	2519.5	1563.8	1583.0	1633.9	1707.9	1743.4	1748.2	1745.3	1754.0
5068.8	27.5°	4085.2	2132.4	1437.0	1498.5	1563.8	1627.2	1646.4	1643.5	1637.7	1647.3
5027.5	30°	3883.5	1784.7	1356.3	1403.4	1492.7	1550.3	1567.6	1560.9	1549.4	1559.9
5006.4	32.5°	3670.3	1500.4	1290.0	1337.1	1434.1	1490.8	1508.1	1501.3	1492.7	1501.3
5030.4	35°	3471.4	1301.5	1228.5	1292.9	1388.0	1443.7	1465.8	1466.8	1466.8	1477.3
5093.8	37.5°	3288.9	1185.3	1177.6	1265.0	1356.3	1406.2	1437.9	1439.9	1398.6	1401.4
5201.4	40°	3119.9	1136.3	1154.6	1246.8	1325.6	1373.6	1375.5	1267.9	1192.0	1190.1
5324.3	42.5°	2981.6	1126.7	1161.3	1244.9	1303.5	1305.4	1170.0	1086.4	1065.3	1066.2
5437.7	45°	2851.9	1123.8	1176.7	1244.9	1270.8	1127.7	1036.4	1014.3	1016.3	1023.9
5488.6	47.5°	2706.8	1112.3	1179.6	1227.6	1176.7	1002.8	975.9	966.3	962.5	964.4
5477.1	50°	2548.3	1071.0	1143.1	1193.0	1015.3	949.0	915.4	912.5	917.3	920.2
5412.7	52.5°	2381.2	1003.8	1080.6	1130.6	941.3	902.0	864.5	871.2	892.4	899.1
5345.5	55°	2271.7	925.0	998.0	1005.7	889.5	857.8	826.1	841.4	880.8	893.3
5305.1	57.5°	2242.9	841.4	903.9	895.2	823.2	819.4	800.1	813.6	863.5	881.8
5303.2	60°	2234.2	766.5	811.7	804.9	758.8	777.1	772.3	779.0	796.3	802.1
5284.0	62.5°	2167.0	707.0	729.1	719.5	701.2	732.9	744.4	730.0	743.5	750.2
5152.4	65°	1996.0	658.9	648.4	641.6	649.3	678.1	701.2	672.4	684.9	704.1
4645.2	67.5°	1713.6	593.6	564.8	572.5	596.5	611.9	641.6	609.0	619.6	652.2
3741.3	70°	1386.1	511.0	485.1	507.2	530.2	561.9	566.7	544.6	569.6	606.1
2283.2	72.5°	980.7	427.4	409.2	454.3	462.0	503.3	492.8	482.2	516.8	529.3
1128.6	75°	680.1	344.8	334.3	368.9	396.7	432.2	424.6	437.1	510.1	515.8
563.8	77.5°	430.3	268.0	261.3	283.4	321.8	361.2	373.7	515.8	871.2	905.8
293.0	80°	249.7	199.8	192.1	209.4	243.0	279.5	360.2	633.0	574.4	567.7
131.6	82.5°	139.3	137.4	127.8	132.6	162.3	201.7	509.1	445.7	362.1	373.7
52.8	85°	65.3	80.7	69.2	66.3	91.3	236.3	340.0	254.5	169.1	165.2
11.5	87.5°	17.3	15.4	15.4	17.3	38.4	203.6	135.4	108.5	64.4	62.4
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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