

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: P956488

Luminaire Tested: **GALN-SB9A-850-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956488
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-SB9A-850-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39747 lumens
Efficiency: N/A
Efficacy: 155.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

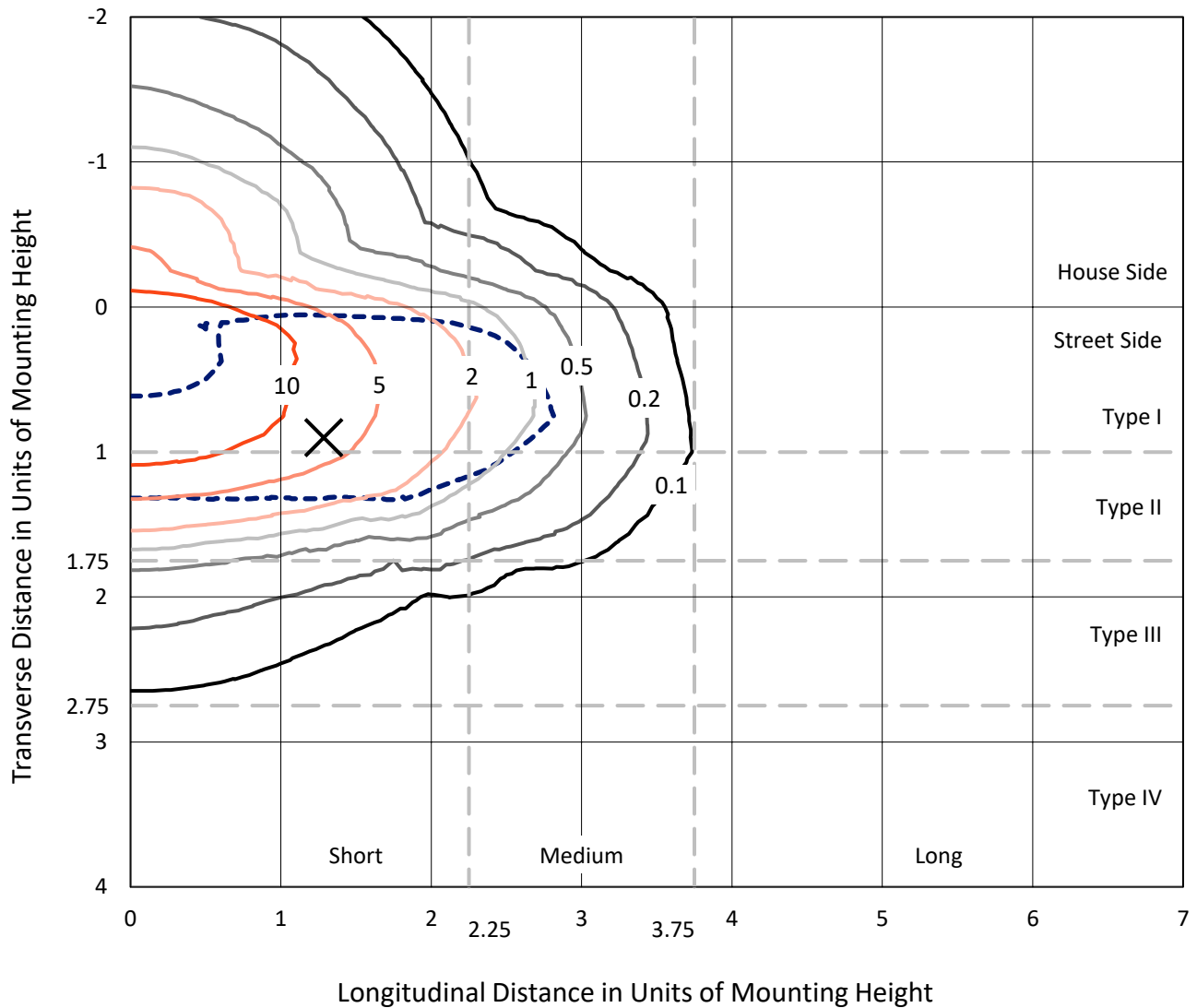
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

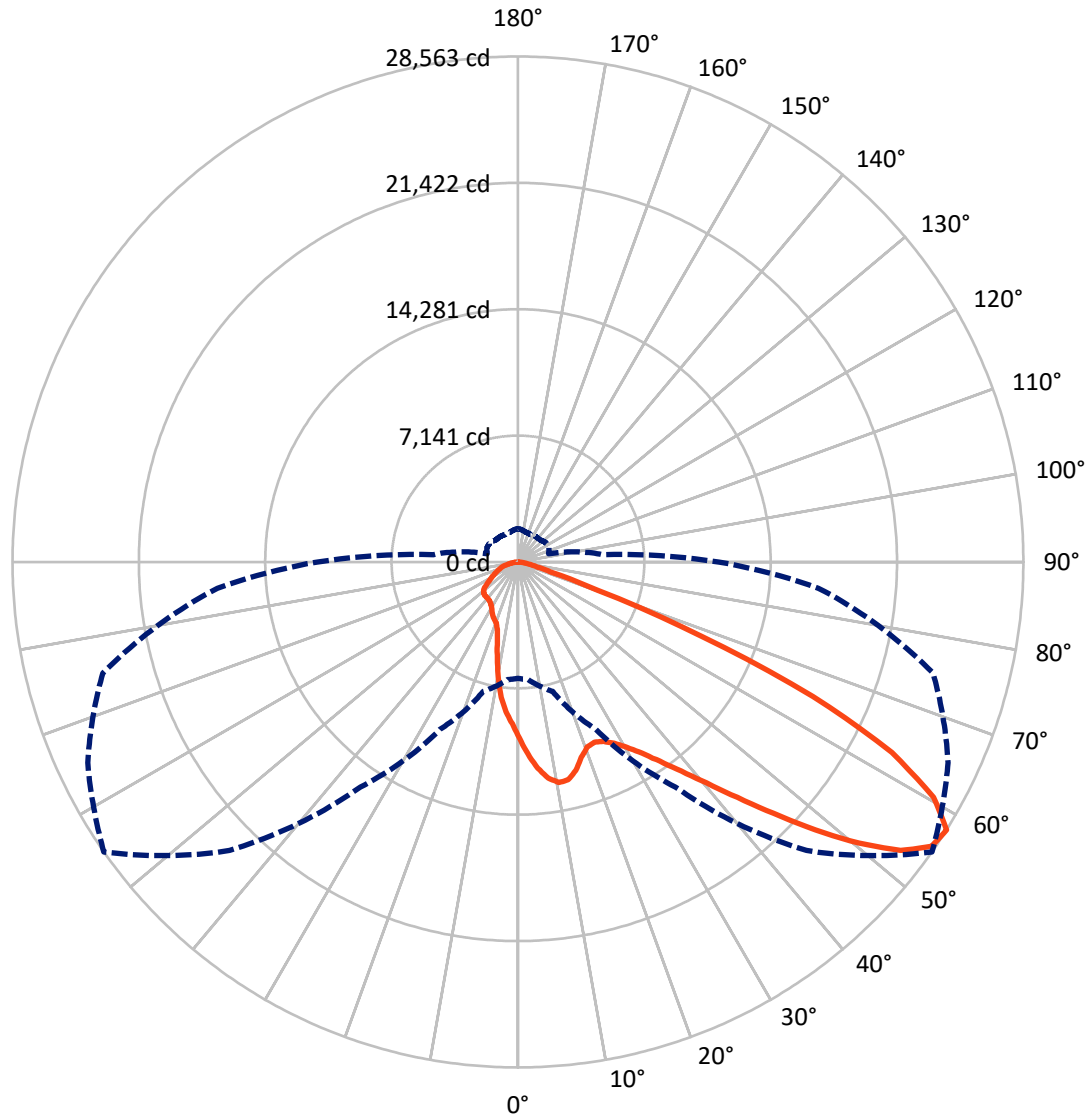
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.3 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	7192.0	0.0	7192.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	32555.0	0.0	32555.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	39747.0	0.0	39747.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	924.2	2.3
10°-20°	2332.6	5.9
20°-30°	3722.2	9.4
30°-40°	5893.2	14.8
40°-50°	9020.1	22.7
50°-60°	9661.4	24.3
60°-70°	6078.0	15.3
70°-80°	1797.4	4.5
80°-90°	317.8	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°	39747.0	100.0
0°-180°	39747.0	100.0

Coefficient of Utilization



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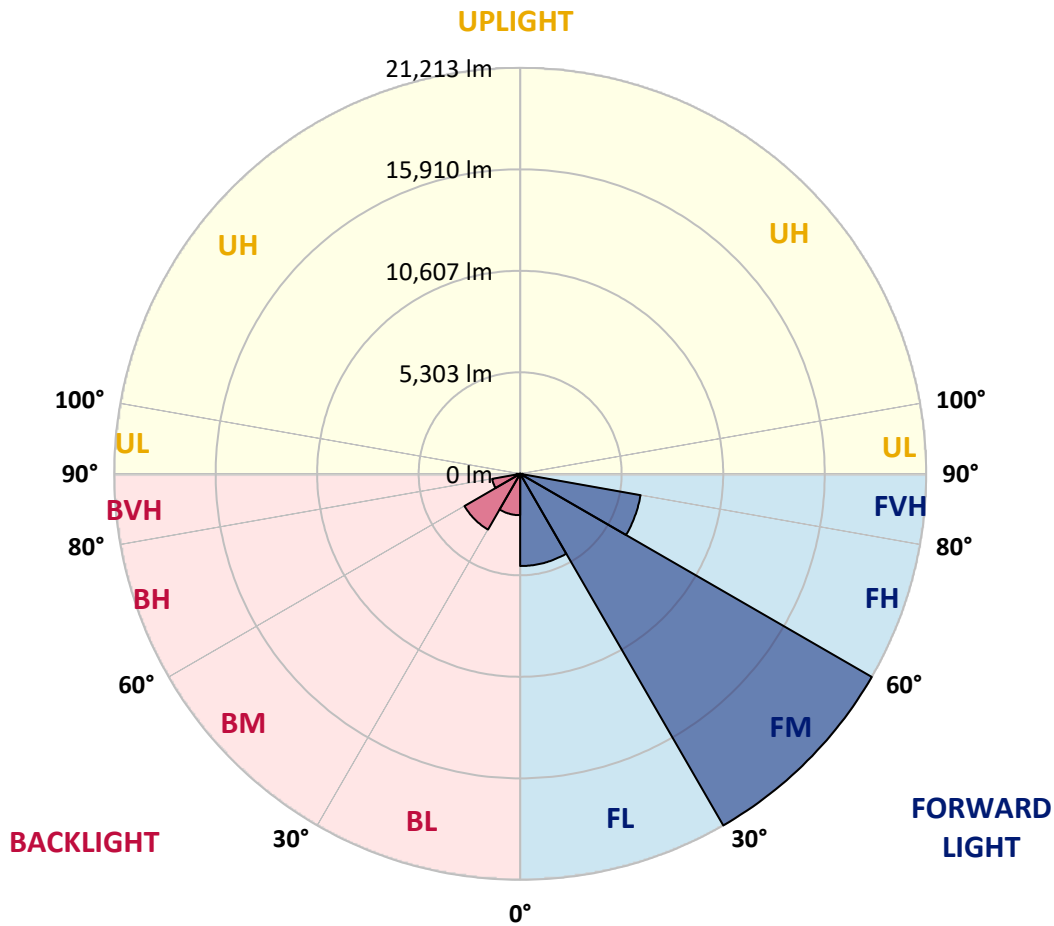
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4817.3	12.1			
FM (30°-60°)	21213.3	53.4			
FH (60°-80°)	6390.1	16.1			G3/7500
FVH (80°-90°)	134.3	0.3			G2/225
BL (0°-30°)	2161.7	5.4	B3/2500		
BM (30°-60°)	3361.5	8.5	B3/5000		
BH (60°-80°)	1485.3	3.7	B3/2500		G3/2500
BVH (80°-90°)	183.5	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9959.3	9959.3	9959.3	9959.3	9959.3	9959.3	9959.3	9959.3	9959.3	9959.3
2.5°	11426.4	11418.2	11463.4	11309.3	11204.5	11062.7	10875.7	10637.4	10380.5	10109.3
5°	12455.8	12383.9	12431.2	12316.1	12201.0	11987.3	11709.9	11321.6	10847.0	10306.6
7.5°	12293.5	12244.2	12365.4	12468.1	12554.4	12527.7	12324.3	11917.5	11305.2	10520.3
10°	10984.6	10929.1	11099.7	11455.2	11977.1	12431.2	12677.7	12425.0	11773.6	10754.5
12.5°	9829.9	9803.1	9916.2	10203.8	10783.3	11654.5	12632.5	12868.8	12260.6	11031.9
15°	9336.7	9303.8	9375.8	9521.6	9891.5	10703.1	12221.6	13172.9	12739.4	11352.4
17.5°	9227.8	9190.8	9221.7	9297.7	9536.0	10154.5	11601.0	13322.9	13238.7	11709.9
20°	9429.2	9398.4	9402.5	9398.4	9564.8	10055.9	11169.5	13265.4	13674.3	12038.7
22.5°	9916.2	9864.8	9866.8	9757.9	9848.4	10228.5	11056.5	13111.3	14062.6	12326.4
25°	10709.3	10616.8	10635.3	10357.9	10333.3	10614.8	11233.2	12992.1	14448.9	12556.5
27.5°	11794.2	11689.4	11633.9	11220.9	11023.7	11163.4	11592.8	13033.2	14814.7	12755.8
30°	13150.3	13022.9	12909.9	12324.3	11966.8	11915.4	12151.7	13304.4	15246.1	12965.4
32.5°	14812.6	14664.7	14459.2	13682.5	13179.1	12909.9	12875.0	13787.3	15751.6	13232.5
35°	16791.3	16598.2	16306.4	15301.6	14664.7	14114.0	13828.4	14483.8	16444.1	13635.2
37.5°	18829.6	18611.8	18344.7	17148.8	16366.0	15554.4	14991.4	15429.0	17366.6	14181.8
40°	20709.7	20465.2	20216.6	19152.2	18311.8	17333.8	16415.3	16624.9	18494.7	14835.2
42.5°	21819.2	21638.4	21543.9	20968.6	20319.3	19326.9	18186.5	18042.6	19762.5	15587.2
45°	21769.9	21696.0	21987.7	22226.1	22072.0	21521.3	20261.8	19610.4	21034.3	16238.6
47.5°	20607.0	20656.3	21307.6	22647.3	23237.0	23524.7	22624.7	21149.4	22139.8	16725.6
50°	17442.7	17483.8	18991.9	21880.9	23537.0	25158.2	24969.2	22651.4	22996.6	17023.5
52.5°	14937.9	14964.6	15611.9	19608.4	22546.6	25980.1	27081.4	24067.1	23623.3	17105.7
55°	11251.7	11344.2	12069.5	15383.8	19970.0	25328.7	28367.7	25526.0	24019.9	17113.9
57.5°	6573.1	6673.8	7569.6	10442.2	15521.5	23058.3	28562.9	26820.5	24289.0	17048.1
60°	3219.8	3262.9	3653.3	5488.2	9571.0	18683.7	26993.1	27447.2	24439.0	17013.2
62.5°	2169.8	2163.6	2180.1	2708.1	4715.6	12003.8	23721.9	26349.9	24358.9	16879.7
65°	1865.7	1843.1	1781.5	1900.6	2443.1	5490.3	18328.2	23074.7	23748.6	16544.7
67.5°	1613.0	1615.0	1617.1	1580.1	1744.5	2533.5	11200.4	18176.2	21558.3	14958.5
70°	1335.6	1354.1	1362.3	1362.3	1421.9	1662.3	4781.4	12457.9	17005.0	11728.4
72.5°	1216.4	1177.4	1181.5	1160.9	1160.9	1265.7	1925.3	7062.1	10713.4	6597.8
75°	992.4	1017.1	1021.2	1006.8	959.6	965.7	1142.4	2962.9	4584.1	2736.9
77.5°	856.8	856.8	865.0	854.8	817.8	723.3	762.3	1148.6	1559.5	1121.9
80°	688.3	686.3	721.2	741.8	684.2	534.2	487.0	634.9	692.4	493.1
82.5°	334.9	355.5	495.2	565.1	519.8	386.3	297.9	394.5	369.9	217.8
85°	195.2	184.9	221.9	314.4	297.9	213.7	143.8	205.5	193.1	111.0
87.5°	61.6	57.5	45.2	106.8	86.3	59.6	39.0	59.6	53.4	24.7
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°
9959.3	0°	9959.3	9959.3	9959.3	9959.3	9959.3	9959.3	9959.3	9959.3	9959.3	9959.3
9992.2	2.5°	9846.3	9603.8	9363.4	9143.6	9010.0	8923.7	8837.4	8740.8	8703.9	8648.4
10018.9	5°	9747.7	9279.2	8862.1	8502.5	8175.8	7919.0	7660.1	7450.5	7356.0	7419.7
10103.1	7.5°	9690.1	9012.1	8368.9	7709.4	7074.5	6566.9	6125.2	5814.9	5675.2	5710.1
10185.3	10°	9638.8	8710.0	7729.9	6688.2	5775.9	5147.1	4695.1	4458.8	4370.4	4388.9
10296.3	12.5°	9591.5	8371.0	6959.4	5588.9	4619.0	4204.0	4074.5	4076.6	4093.0	4105.4
10473.0	15°	9583.3	7962.1	6098.5	4627.3	3994.4	3967.7	4107.4	4195.8	4243.0	4257.4
10620.9	17.5°	9571.0	7473.1	5221.1	3971.8	3842.4	4023.2	4152.6	4210.2	4247.1	4249.2
10764.8	20°	9521.6	6852.5	4411.5	3659.5	3809.5	3965.6	4045.8	4091.0	4121.8	4132.1
10873.7	22.5°	9369.6	6162.2	3780.7	3519.8	3678.0	3803.3	3897.8	3949.2	3967.7	3980.0
10894.2	25°	9096.3	5389.6	3345.1	3386.2	3495.1	3653.3	3729.3	3739.6	3733.5	3751.9
10842.8	27.5°	8738.8	4561.5	3073.9	3205.4	3345.1	3480.7	3521.8	3515.7	3503.3	3523.9
10754.5	30°	8307.3	3817.7	2901.3	3002.0	3193.1	3316.3	3353.3	3338.9	3314.3	3336.9
10709.3	32.5°	7851.1	3209.5	2759.5	2860.2	3067.7	3189.0	3225.9	3211.6	3193.1	3211.6
10760.7	35°	7425.8	2784.2	2628.0	2765.7	2969.1	3088.3	3135.5	3137.6	3137.6	3160.2
10896.3	37.5°	7035.4	2535.5	2519.1	2706.1	2901.3	3008.1	3075.9	3080.1	2991.7	2997.9
11126.4	40°	6673.8	2430.8	2469.8	2667.0	2835.5	2938.3	2942.4	2712.3	2549.9	2545.8
11389.4	42.5°	6377.9	2410.2	2484.2	2662.9	2788.3	2792.4	2502.7	2323.9	2278.7	2280.8
11631.9	45°	6100.5	2404.0	2517.1	2662.9	2718.4	2412.3	2217.1	2169.8	2173.9	2190.3
11740.8	47.5°	5790.2	2379.4	2523.2	2626.0	2517.1	2145.1	2087.6	2067.1	2058.8	2063.0
11716.1	50°	5451.2	2291.0	2445.1	2552.0	2171.9	2030.1	1958.2	1952.0	1962.3	1968.4
11578.4	52.5°	5093.7	2147.2	2311.6	2418.4	2013.6	1929.4	1849.3	1863.6	1908.9	1923.2
11434.6	55°	4859.5	1978.7	2134.9	2151.3	1902.7	1834.9	1767.1	1799.9	1884.2	1910.9
11348.3	57.5°	4797.8	1799.9	1933.5	1915.0	1760.9	1752.7	1711.6	1740.4	1847.2	1886.2
11344.2	60°	4779.3	1639.7	1736.3	1721.9	1623.2	1662.3	1652.0	1666.4	1703.4	1715.7
11303.1	62.5°	4635.5	1512.3	1559.5	1539.0	1500.0	1567.8	1592.4	1561.6	1590.4	1604.7
11021.6	65°	4269.7	1409.5	1386.9	1372.6	1389.0	1450.6	1500.0	1438.3	1465.0	1506.1
9936.7	67.5°	3665.6	1269.8	1208.2	1224.6	1276.0	1308.9	1372.6	1302.7	1325.3	1395.2
8003.2	70°	2965.0	1093.1	1037.6	1084.9	1134.2	1202.0	1212.3	1165.0	1218.5	1296.5
4884.1	72.5°	2097.9	914.4	875.3	971.9	988.3	1076.7	1054.1	1031.5	1105.4	1132.2
2414.3	75°	1454.8	737.7	715.0	789.0	848.6	924.6	908.2	934.9	1091.1	1103.4
1206.1	77.5°	920.5	573.3	558.9	606.1	688.3	772.6	799.3	1103.4	1863.6	1937.6
626.7	80°	534.2	427.4	410.9	447.9	519.8	597.9	770.5	1354.1	1228.7	1214.3
281.5	82.5°	297.9	293.8	273.3	283.6	347.3	431.5	1089.0	953.4	774.6	799.3
113.0	85°	139.7	172.6	147.9	141.8	195.2	505.5	727.4	544.5	361.6	353.4
24.7	87.5°	37.0	32.9	32.9	37.0	82.2	435.6	289.7	232.2	137.7	133.6
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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