

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: P955795

Luminaire Tested: **GALN-SB8C-927-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955795
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-SB8C-927-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 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: 37489 lumens
Efficiency: N/A
Efficacy: 93.8 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

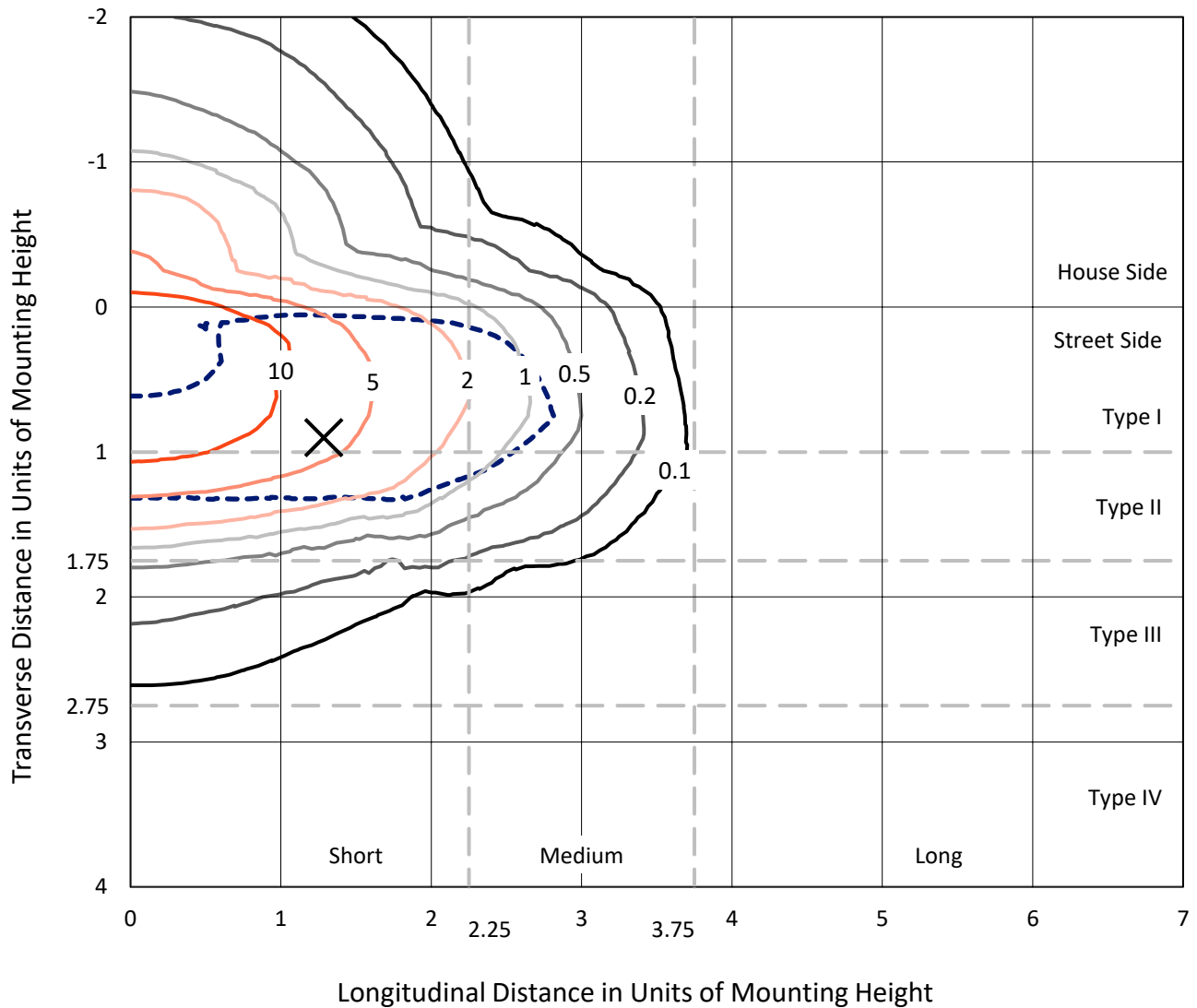
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

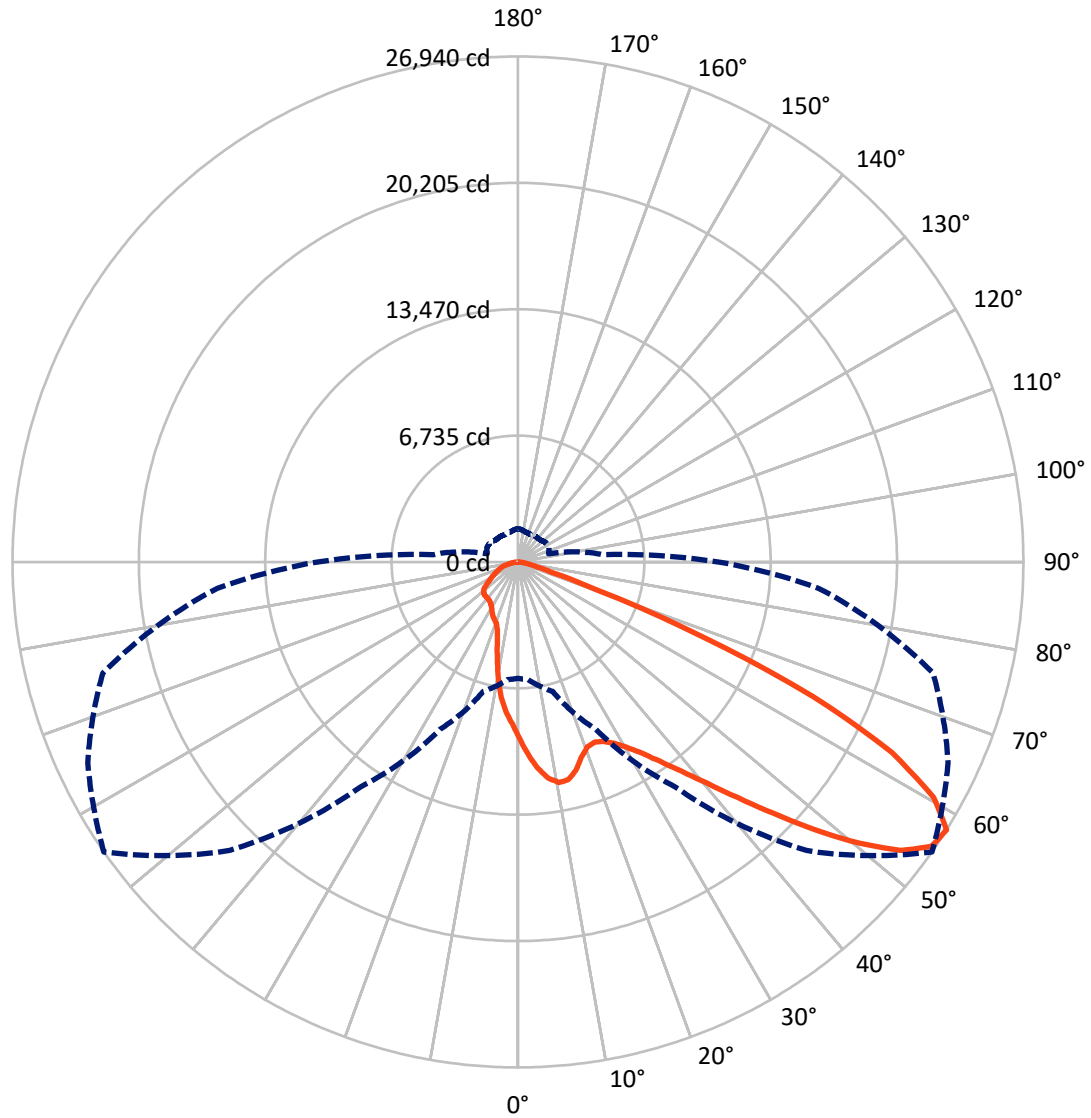
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.2 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	6783.5	0.0	6783.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	30705.5	0.0	30705.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	37489.0	0.0	37489.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	871.7	2.3
10°-20°	2200.1	5.9
20°-30°	3510.8	9.4
30°-40°	5558.4	14.8
40°-50°	8507.7	22.7
50°-60°	9112.6	24.3
60°-70°	5732.7	15.3
70°-80°	1695.3	4.5
80°-90°	299.7	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°	37489.0	100.0
0°-180°	37489.0	100.0

Coefficient of Utilization



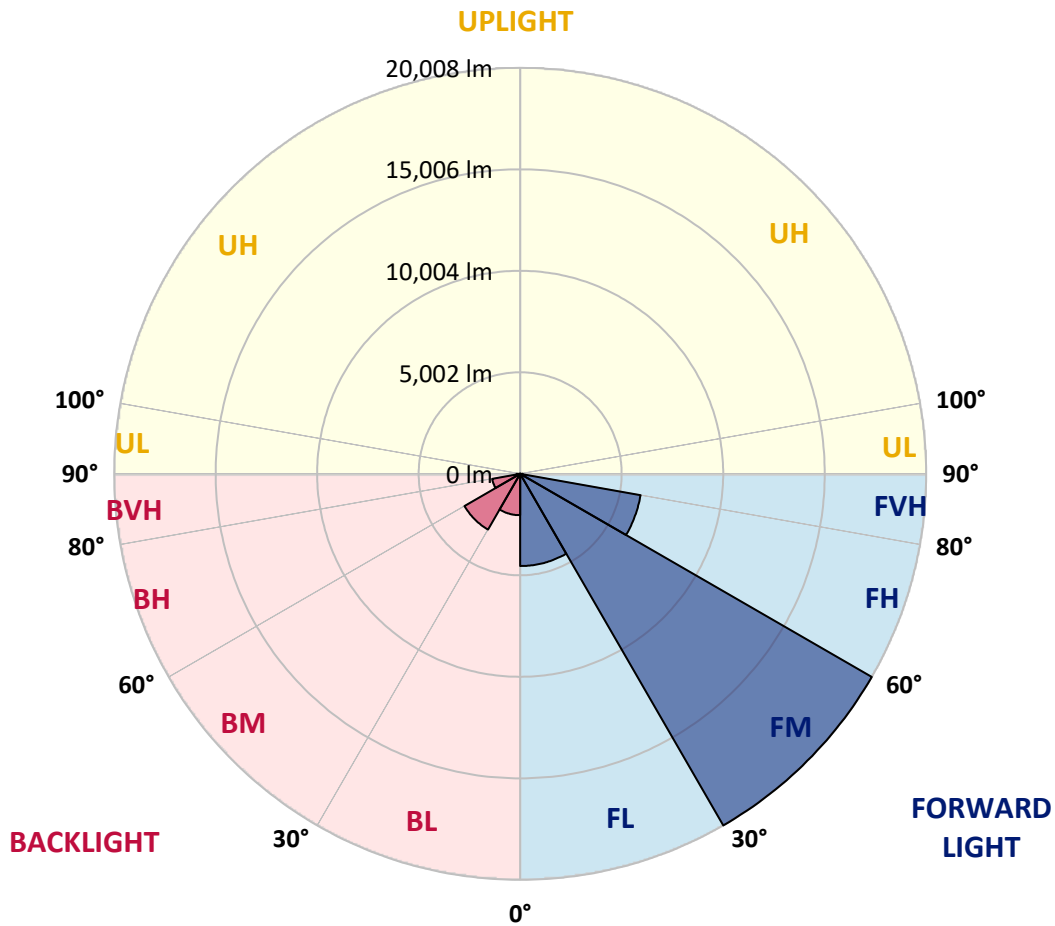
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4543.7	12.1			
FM (30°-60°)	20008.1	53.4			
FH (60°-80°)	6027.1	16.1			G3/7500
FVH (80°-90°)	126.6	0.3			G2/225
BL (0°-30°)	2038.9	5.4	B3/2500		
BM (30°-60°)	3170.5	8.5	B3/5000		
BH (60°-80°)	1400.9	3.7	B3/2500		G3/2500
BVH (80°-90°)	173.1	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°	9393.5	9393.5	9393.5	9393.5	9393.5	9393.5	9393.5	9393.5	9393.5	9393.5
2.5°	10777.3	10769.5	10812.1	10666.8	10568.0	10434.2	10257.9	10033.1	9790.8	9535.0
5°	11748.2	11680.4	11725.0	11616.4	11507.9	11306.3	11044.7	10678.4	10230.7	9721.0
7.5°	11595.1	11548.6	11662.9	11759.8	11841.2	11816.0	11624.2	11240.4	10662.9	9922.6
10°	10360.6	10308.3	10469.1	10804.4	11296.7	11725.0	11957.5	11719.1	11104.8	10143.5
12.5°	9271.4	9246.2	9352.8	9624.1	10170.7	10992.4	11914.9	12137.7	11564.1	10405.2
15°	8806.3	8775.3	8843.1	8980.7	9329.6	10095.1	11527.3	12424.6	12015.7	10707.5
17.5°	8703.6	8668.7	8697.8	8769.5	8994.3	9577.6	10942.0	12566.0	12486.6	11044.7
20°	8893.5	8864.5	8868.3	8864.5	9021.4	9484.6	10535.0	12511.8	12897.4	11354.8
22.5°	9352.8	9304.4	9306.3	9203.6	9288.9	9647.4	10428.4	12366.4	13263.7	11626.1
25°	10100.9	10013.7	10031.1	9769.5	9746.2	10011.8	10595.1	12254.0	13628.1	11843.2
27.5°	11124.2	11025.3	10973.0	10583.5	10397.4	10529.2	10934.2	12292.8	13973.0	12031.2
30°	12403.3	12283.1	12176.5	11624.2	11287.0	11238.5	11461.4	12548.6	14380.0	12228.8
32.5°	13971.1	13831.6	13637.8	12905.2	12430.4	12176.5	12143.6	13004.0	14856.8	12480.8
35°	15837.4	15655.2	15380.0	14432.3	13831.6	13312.2	13042.8	13661.0	15509.9	12860.6
37.5°	17759.9	17554.5	17302.5	16174.6	15436.2	14670.7	14139.7	14552.5	16380.0	13376.1
40°	19533.2	19302.6	19068.1	18064.2	17271.5	16349.0	15482.7	15680.4	17444.0	13992.4
42.5°	20579.7	20409.2	20320.0	19777.4	19165.0	18228.9	17153.3	17017.7	18639.8	14701.7
45°	20533.2	20463.4	20738.6	20963.4	20818.1	20298.7	19110.7	18496.4	19839.4	15316.1
47.5°	19436.3	19482.8	20097.1	21360.7	21916.9	22188.3	21339.4	19947.9	20882.0	15775.4
50°	16451.8	16490.5	17913.0	20637.9	22199.9	23729.0	23550.7	21364.6	21690.2	16056.4
52.5°	14089.3	14114.5	14725.0	18494.4	21265.8	24504.2	25543.0	22699.9	22281.3	16133.9
55°	10612.5	10699.7	11383.9	14509.9	18835.5	23889.8	26756.1	24075.9	22655.3	16141.7
57.5°	6199.7	6294.7	7139.6	9849.0	14639.7	21748.3	26940.3	25296.8	22909.2	16079.7
60°	3036.9	3077.6	3445.8	5176.4	9027.2	17622.3	25459.6	25887.9	23050.7	16046.7
62.5°	2046.5	2040.7	2056.2	2554.3	4447.7	11321.8	22374.3	24853.0	22975.1	15920.7
65°	1759.7	1738.4	1680.3	1792.7	2304.3	5178.4	17287.0	21763.8	22399.5	15604.8
67.5°	1521.3	1523.3	1525.2	1490.3	1645.4	2389.6	10564.1	17143.6	20333.6	14108.7
70°	1259.7	1277.1	1284.9	1284.9	1341.1	1567.8	4509.7	11750.1	16039.0	11062.2
72.5°	1147.3	1110.5	1114.4	1095.0	1095.0	1193.8	1815.9	6660.9	10104.8	6222.9
75°	936.1	959.3	963.2	949.6	905.0	910.9	1077.5	2794.6	4323.7	2581.4
77.5°	808.1	808.1	815.9	806.2	771.3	682.2	719.0	1083.3	1470.9	1058.2
80°	649.2	647.3	680.2	699.6	645.4	503.9	459.3	598.8	653.1	465.1
82.5°	315.9	335.3	467.1	533.0	490.3	364.3	281.0	372.1	348.8	205.4
85°	184.1	174.4	209.3	296.5	281.0	201.6	135.7	193.8	182.2	104.7
87.5°	58.1	54.3	42.6	100.8	81.4	56.2	36.8	56.2	50.4	23.3
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°
9393.5	0°	9393.5	9393.5	9393.5	9393.5	9393.5	9393.5	9393.5	9393.5	9393.5	9393.5
9424.5	2.5°	9286.9	9058.3	8831.5	8624.1	8498.2	8416.8	8335.4	8244.3	8209.4	8157.1
9449.7	5°	9193.9	8752.0	8358.6	8019.5	7711.3	7469.1	7224.9	7027.2	6938.1	6998.1
9529.2	7.5°	9139.6	8500.1	7893.5	7271.4	6672.6	6193.9	5777.2	5484.6	5352.8	5385.7
9606.7	10°	9091.2	8215.2	7290.8	6308.2	5447.7	4854.7	4428.3	4205.5	4122.1	4139.6
9711.4	12.5°	9046.6	7895.4	6564.0	5271.4	4356.6	3965.2	3843.1	3845.0	3860.5	3872.1
9878.0	15°	9038.9	7509.8	5752.0	4364.4	3767.5	3742.3	3874.1	3957.4	4002.0	4015.6
10017.6	17.5°	9027.2	7048.5	4924.5	3746.2	3624.1	3794.6	3916.7	3971.0	4005.9	4007.8
10153.2	20°	8980.7	6463.3	4160.9	3451.6	3593.1	3740.4	3815.9	3858.6	3887.6	3897.3
10255.9	22.5°	8837.3	5812.1	3565.9	3319.8	3469.0	3587.3	3676.4	3724.9	3742.3	3753.9
10275.3	25°	8579.6	5083.4	3155.1	3193.8	3296.6	3445.8	3517.5	3527.2	3521.4	3538.8
10226.9	27.5°	8242.3	4302.4	2899.3	3023.3	3155.1	3283.0	3321.7	3315.9	3304.3	3323.7
10143.5	30°	7835.4	3600.8	2736.5	2831.4	3011.7	3127.9	3162.8	3149.3	3126.0	3147.3
10100.9	32.5°	7405.1	3027.2	2602.7	2697.7	2893.4	3007.8	3042.7	3029.1	3011.7	3029.1
10149.3	35°	7004.0	2626.0	2478.7	2608.6	2800.4	2912.8	2957.4	2959.3	2959.3	2980.7
10277.3	37.5°	6635.7	2391.5	2376.0	2552.4	2736.5	2837.2	2901.2	2905.1	2821.7	2827.6
10494.3	40°	6294.7	2292.7	2329.5	2515.5	2674.5	2771.4	2775.2	2558.2	2405.1	2401.2
10742.4	42.5°	6015.6	2273.3	2343.1	2511.7	2629.9	2633.8	2360.5	2191.9	2149.3	2151.2
10971.1	45°	5753.9	2267.5	2374.1	2511.7	2564.0	2275.2	2091.1	2046.5	2050.4	2065.9
11073.8	47.5°	5461.3	2244.2	2379.9	2476.8	2374.1	2023.3	1969.0	1949.6	1941.9	1945.8
11050.5	50°	5141.5	2160.9	2306.2	2407.0	2048.5	1914.8	1846.9	1841.1	1850.8	1856.6
10920.7	52.5°	4804.3	2025.2	2180.3	2281.0	1899.2	1819.8	1744.2	1757.8	1800.4	1814.0
10785.0	55°	4583.4	1866.3	2013.6	2029.1	1794.6	1730.6	1666.7	1697.7	1777.2	1802.3
10703.6	57.5°	4525.2	1697.7	1823.7	1806.2	1660.9	1653.1	1614.4	1641.5	1742.3	1779.1
10699.7	60°	4507.8	1546.5	1637.6	1624.1	1531.0	1567.8	1558.2	1571.7	1606.6	1618.2
10661.0	62.5°	4372.1	1426.4	1470.9	1451.6	1414.7	1478.7	1502.0	1472.9	1500.0	1513.6
10395.5	65°	4027.2	1329.5	1308.2	1294.6	1310.1	1368.2	1414.7	1356.6	1381.8	1420.6
9372.2	67.5°	3457.4	1197.7	1139.5	1155.1	1203.5	1234.5	1294.6	1228.7	1250.0	1315.9
7548.5	70°	2796.5	1031.0	978.7	1023.3	1069.8	1133.7	1143.4	1098.9	1149.2	1222.9
4606.6	72.5°	1978.7	862.4	825.6	916.7	932.2	1015.5	994.2	972.9	1042.6	1067.8
2277.2	75°	1372.1	695.7	674.4	744.2	800.4	872.1	856.6	881.8	1029.1	1040.7
1137.6	77.5°	868.2	540.7	527.1	571.7	649.2	728.7	753.9	1040.7	1757.8	1827.5
591.1	80°	503.9	403.1	387.6	422.5	490.3	564.0	726.8	1277.1	1158.9	1145.4
265.5	82.5°	281.0	277.1	257.8	267.4	327.5	407.0	1027.1	899.2	730.6	753.9
106.6	85°	131.8	162.8	139.5	133.7	184.1	476.8	686.1	513.6	341.1	333.3
23.3	87.5°	34.9	31.0	31.0	34.9	77.5	410.9	273.3	219.0	129.8	126.0
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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