

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: P956950

Luminaire Tested: **GALN-SB9B-950-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956950
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-SB9B-950-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36287 lumens
Efficiency: N/A
Efficacy: 110.1 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

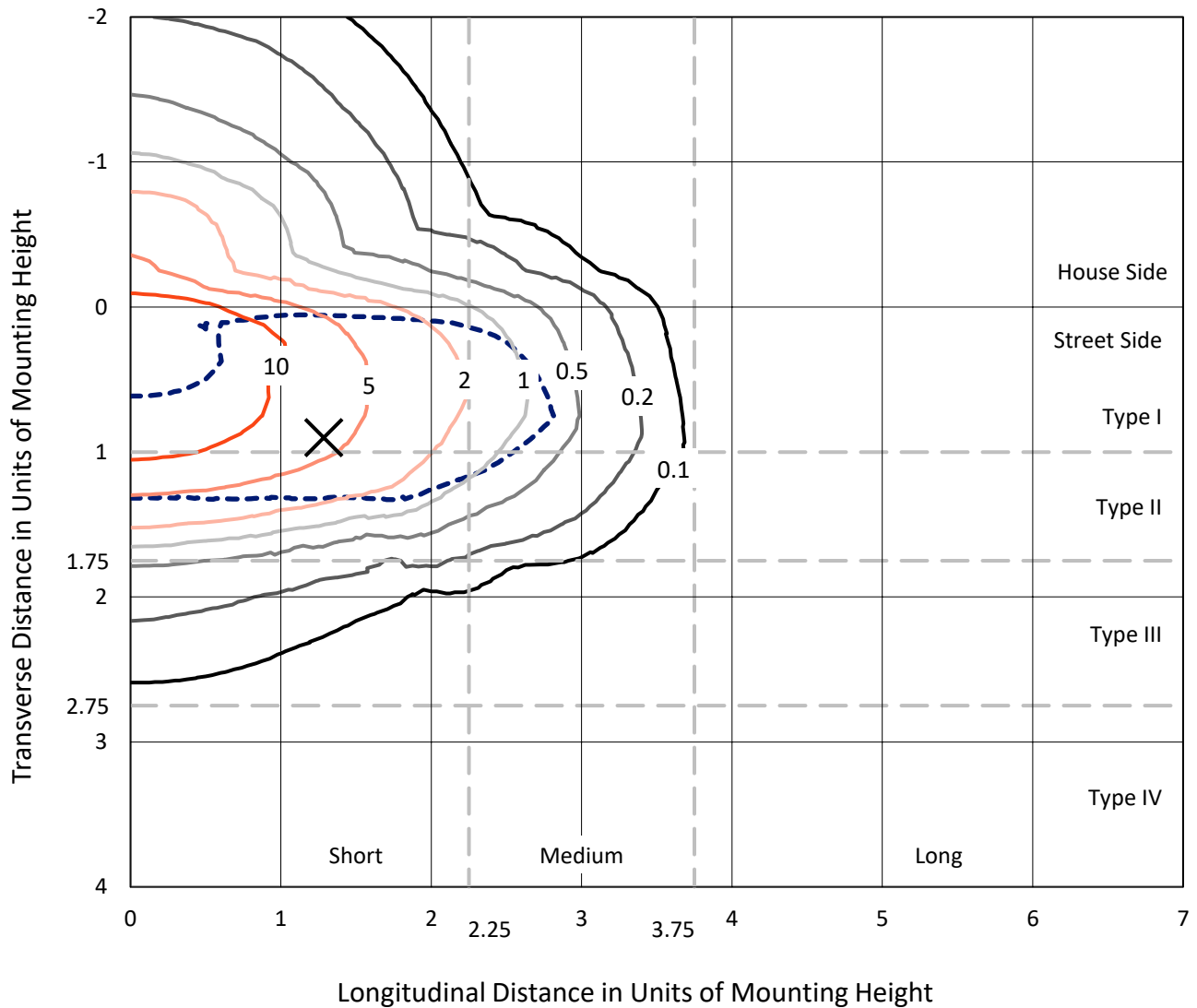
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

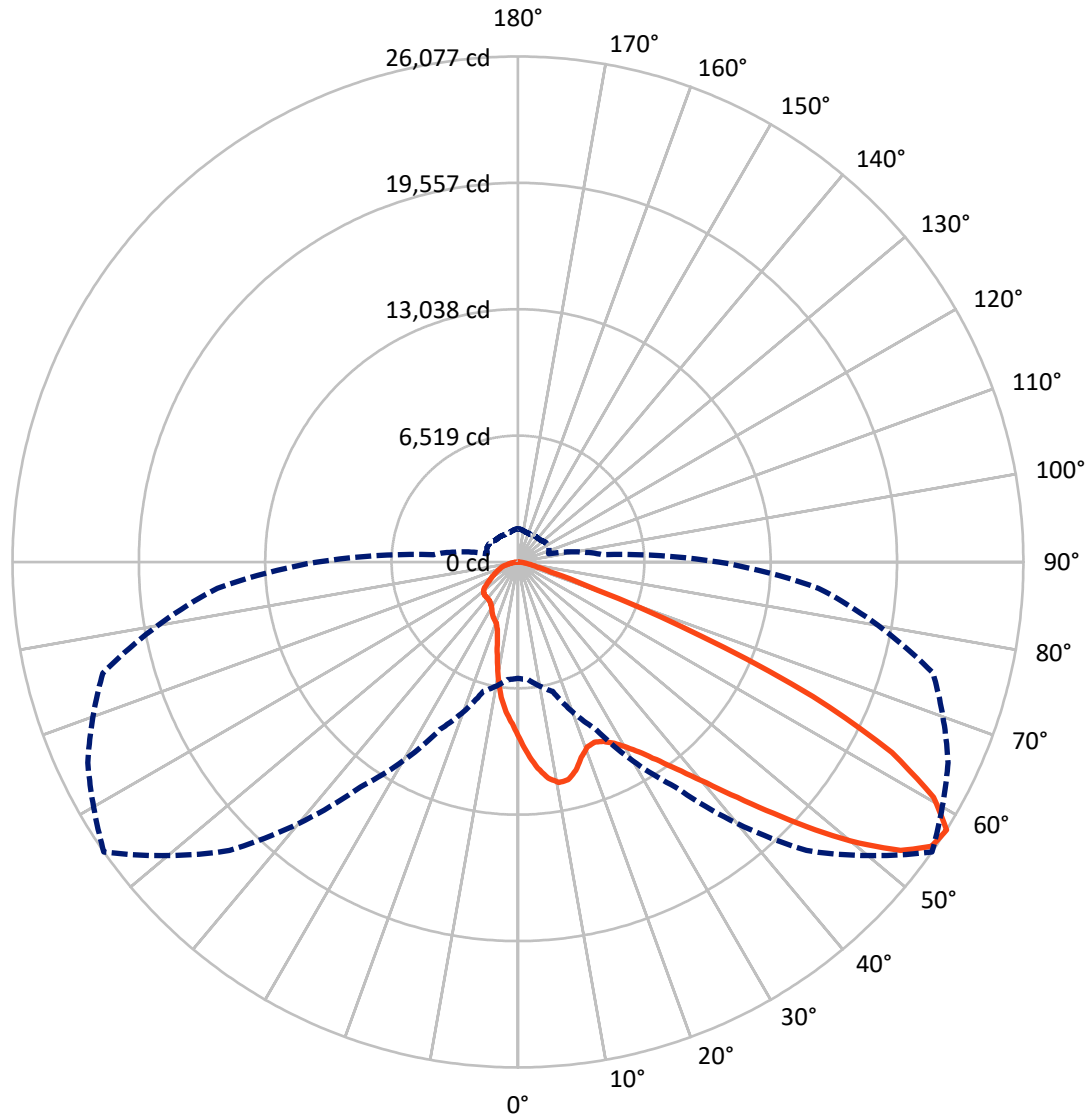
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.6 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	6566.0	0.0	6566.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	29721.0	0.0	29721.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	36287.0	0.0	36287.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	843.7	2.3
10°-20°	2129.6	5.9
20°-30°	3398.2	9.4
30°-40°	5380.2	14.8
40°-50°	8234.9	22.7
50°-60°	8820.4	24.3
60°-70°	5548.9	15.3
70°-80°	1640.9	4.5
80°-90°	290.1	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°	36287.0	100.0
0°-180°	36287.0	100.0

Coefficient of Utilization



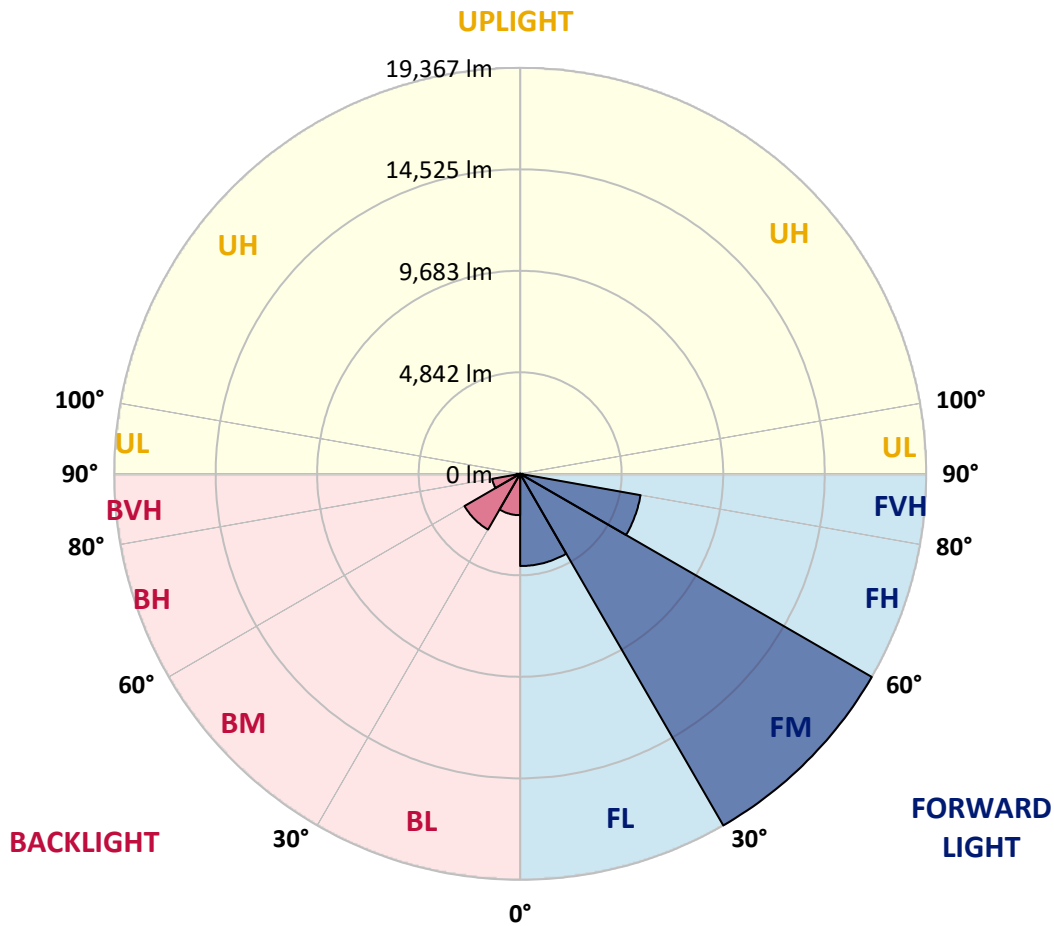
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4398.0	12.1			
FM (30°-60°)	19366.6	53.4			
FH (60°-80°)	5833.8	16.1			G3/7500
FVH (80°-90°)	122.6	0.3			G2/225
BL (0°-30°)	1973.5	5.4	B3/2500		
BM (30°-60°)	3068.9	8.5	B3/5000		
BH (60°-80°)	1356.0	3.7	B3/2500		G3/2500
BVH (80°-90°)	167.6	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°	9092.3	9092.3	9092.3	9092.3	9092.3	9092.3	9092.3	9092.3	9092.3	9092.3
2.5°	10431.7	10424.2	10465.5	10324.8	10229.1	10099.7	9929.0	9711.4	9476.9	9229.3
5°	11371.5	11305.9	11349.0	11244.0	11138.9	10943.8	10690.6	10336.0	9902.7	9409.4
7.5°	11223.3	11178.3	11289.0	11382.8	11461.6	11437.2	11251.5	10880.0	10321.0	9604.5
10°	10028.4	9977.8	10133.5	10458.0	10934.4	11349.0	11574.1	11343.4	10748.7	9818.3
12.5°	8974.2	8949.8	9053.0	9315.6	9844.6	10639.9	11532.9	11748.6	11193.3	10071.5
15°	8524.0	8493.9	8559.6	8692.8	9030.4	9771.4	11157.7	12026.2	11630.4	10364.2
17.5°	8424.5	8390.8	8418.9	8488.3	8705.9	9270.6	10591.2	12163.1	12086.2	10690.6
20°	8608.4	8580.2	8584.0	8580.2	8732.2	9180.5	10197.2	12110.6	12483.9	10990.7
22.5°	9053.0	9006.1	9007.9	8908.5	8991.0	9338.1	10094.1	11969.9	12838.5	11253.3
25°	9777.0	9692.6	9709.5	9456.3	9433.8	9690.7	10255.4	11861.1	13191.1	11463.4
27.5°	10767.5	10671.8	10621.2	10244.1	10064.0	10191.6	10583.7	11898.6	13525.0	11645.4
30°	12005.6	11889.3	11786.1	11251.5	10925.1	10878.2	11093.9	12146.3	13919.0	11836.7
32.5°	13523.2	13388.1	13200.5	12491.4	12031.8	11786.1	11754.2	12587.1	14380.4	12080.6
35°	15329.6	15153.3	14886.9	13969.6	13388.1	12885.4	12624.6	13223.0	15012.6	12448.3
37.5°	17190.5	16991.6	16747.8	15656.0	14941.3	14200.3	13686.4	14085.9	15854.9	12947.3
40°	18906.9	18683.7	18456.7	17485.0	16717.8	15824.8	14986.3	15177.7	16884.7	13543.8
42.5°	19919.9	19754.8	19668.5	19143.3	18550.5	17644.4	16603.3	16472.0	18042.1	14230.4
45°	19874.8	19807.3	20073.7	20291.3	20150.6	19647.9	18498.0	17903.3	19203.3	14825.0
47.5°	18813.1	18858.1	19452.8	20675.8	21214.2	21476.8	20655.2	19308.3	20212.5	15269.6
50°	15924.3	15961.8	17338.7	19976.1	21488.1	22968.2	22795.6	20679.6	20994.7	15541.6
52.5°	13637.6	13662.0	14252.9	17901.4	20583.9	23718.5	24724.0	21972.1	21566.9	15616.6
55°	10272.3	10356.7	11018.9	14044.6	18231.6	23123.9	25898.3	23303.9	21928.9	15624.1
57.5°	6000.9	6092.8	6910.7	9533.2	14170.3	21051.0	26076.5	24485.7	22174.7	15564.1
60°	2939.5	2978.9	3335.3	5010.5	8737.8	17057.3	24643.3	25057.9	22311.6	15532.2
62.5°	1980.9	1975.3	1990.3	2472.4	4305.1	10958.8	21656.9	24056.2	22238.4	15410.3
65°	1703.3	1682.7	1626.4	1735.2	2230.4	5012.3	16732.8	21066.0	21681.3	15104.5
67.5°	1472.6	1474.4	1476.3	1442.5	1592.6	2312.9	10225.4	16594.0	19681.6	13656.3
70°	1219.3	1236.2	1243.7	1243.7	1298.1	1517.6	4365.2	11373.4	15524.7	10707.5
72.5°	1110.5	1074.9	1078.6	1059.9	1059.9	1155.5	1757.7	6447.4	9780.8	6023.4
75°	906.0	928.6	932.3	919.2	876.0	881.7	1043.0	2705.0	4185.1	2498.7
77.5°	782.2	782.2	789.7	780.4	746.6	660.3	695.9	1048.6	1423.8	1024.2
80°	628.4	626.5	658.4	677.2	624.7	487.7	444.6	579.6	632.2	450.2
82.5°	305.8	324.5	452.1	515.9	474.6	352.7	272.0	360.2	337.7	198.8
85°	178.2	168.8	202.6	287.0	272.0	195.1	131.3	187.6	176.3	101.3
87.5°	56.3	52.5	41.3	97.5	78.8	54.4	35.6	54.4	48.8	22.5
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°
9092.3	0°	9092.3	9092.3	9092.3	9092.3	9092.3	9092.3	9092.3	9092.3	9092.3	9092.3
9122.4	2.5°	8989.2	8767.8	8548.3	8347.6	8225.7	8146.9	8068.1	7980.0	7946.2	7895.5
9146.7	5°	8899.1	8471.4	8090.6	7762.4	7464.1	7229.6	6993.2	6801.9	6715.6	6773.8
9223.7	7.5°	8846.6	8227.6	7640.4	7038.3	6458.6	5995.3	5592.0	5308.7	5181.2	5213.0
9298.7	10°	8799.7	7951.8	7057.0	6106.0	5273.1	4699.1	4286.4	4070.6	3990.0	4006.9
9400.0	12.5°	8756.6	7642.3	6353.6	5102.4	4217.0	3838.0	3719.9	3721.7	3736.7	3748.0
9561.3	15°	8749.1	7269.0	5567.6	4224.5	3646.7	3622.3	3749.9	3830.5	3873.7	3886.8
9696.4	17.5°	8737.8	6822.5	4766.6	3626.1	3507.9	3673.0	3791.1	3843.7	3877.4	3879.3
9827.7	20°	8692.8	6256.0	4027.5	3340.9	3477.9	3620.4	3693.6	3734.9	3763.0	3772.4
9927.1	22.5°	8554.0	5625.7	3451.6	3213.4	3357.8	3472.2	3558.5	3605.4	3622.3	3633.6
9945.9	25°	8304.5	4920.4	3053.9	3091.4	3190.9	3335.3	3404.7	3414.1	3408.5	3425.3
9899.0	27.5°	7978.1	4164.4	2806.3	2926.4	3053.9	3177.7	3215.2	3209.6	3198.4	3217.1
9818.3	30°	7584.1	3485.4	2648.7	2740.6	2915.1	3027.7	3061.4	3048.3	3025.8	3046.4
9777.0	32.5°	7167.7	2930.1	2519.3	2611.2	2800.7	2911.4	2945.1	2932.0	2915.1	2932.0
9823.9	35°	6779.4	2541.8	2399.2	2524.9	2710.6	2819.4	2862.6	2864.5	2864.5	2885.1
9947.7	37.5°	6423.0	2314.8	2299.8	2470.5	2648.7	2746.3	2808.2	2811.9	2731.3	2736.9
10157.8	40°	6092.8	2219.2	2254.8	2434.9	2588.7	2682.5	2686.2	2476.1	2328.0	2324.2
10398.0	42.5°	5822.7	2200.4	2267.9	2431.1	2545.6	2549.3	2284.8	2121.6	2080.3	2082.2
10619.3	45°	5569.5	2194.8	2297.9	2431.1	2481.8	2202.3	2024.1	1980.9	1984.7	1999.7
10718.7	47.5°	5286.2	2172.3	2303.6	2397.4	2297.9	1958.4	1905.9	1887.1	1879.6	1883.4
10696.2	50°	4976.7	2091.6	2232.3	2329.8	1982.8	1853.4	1787.7	1782.1	1791.5	1797.1
10570.5	52.5°	4650.3	1960.3	2110.4	2207.9	1838.4	1761.4	1688.3	1701.4	1742.7	1755.8
10439.2	55°	4436.4	1806.5	1949.0	1964.0	1737.1	1675.2	1613.2	1643.3	1720.2	1744.6
10360.4	57.5°	4380.2	1643.3	1765.2	1748.3	1607.6	1600.1	1562.6	1588.9	1686.4	1722.0
10356.7	60°	4363.3	1496.9	1585.1	1572.0	1481.9	1517.6	1508.2	1521.3	1555.1	1566.4
10319.2	62.5°	4232.0	1380.6	1423.8	1405.0	1369.4	1431.3	1453.8	1425.7	1451.9	1465.1
10062.2	65°	3898.1	1286.8	1266.2	1253.1	1268.1	1324.4	1369.4	1313.1	1337.5	1375.0
9071.7	67.5°	3346.6	1159.3	1103.0	1118.0	1164.9	1194.9	1253.1	1189.3	1209.9	1273.7
7306.5	70°	2706.9	998.0	947.3	990.5	1035.5	1097.4	1106.8	1063.6	1112.4	1183.7
4458.9	72.5°	1915.3	834.8	799.1	887.3	902.3	983.0	962.3	941.7	1009.2	1033.6
2204.1	75°	1328.1	673.4	652.8	720.3	774.7	844.1	829.1	853.5	996.1	1007.3
1101.1	77.5°	840.4	523.4	510.2	553.4	628.4	705.3	729.7	1007.3	1701.4	1768.9
572.1	80°	487.7	390.2	375.2	408.9	474.6	545.9	703.5	1236.2	1121.8	1108.6
257.0	82.5°	272.0	268.2	249.5	258.9	317.0	393.9	994.2	870.4	707.2	729.7
103.2	85°	127.6	157.6	135.1	129.4	178.2	461.5	664.1	497.1	330.2	322.6
22.5	87.5°	33.8	30.0	30.0	33.8	75.0	397.7	264.5	212.0	125.7	121.9
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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