

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: P949894

Luminaire Tested: **GALN-SB4C-735-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949894
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-735-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30526 lumens
Efficiency: N/A
Efficacy: 152.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

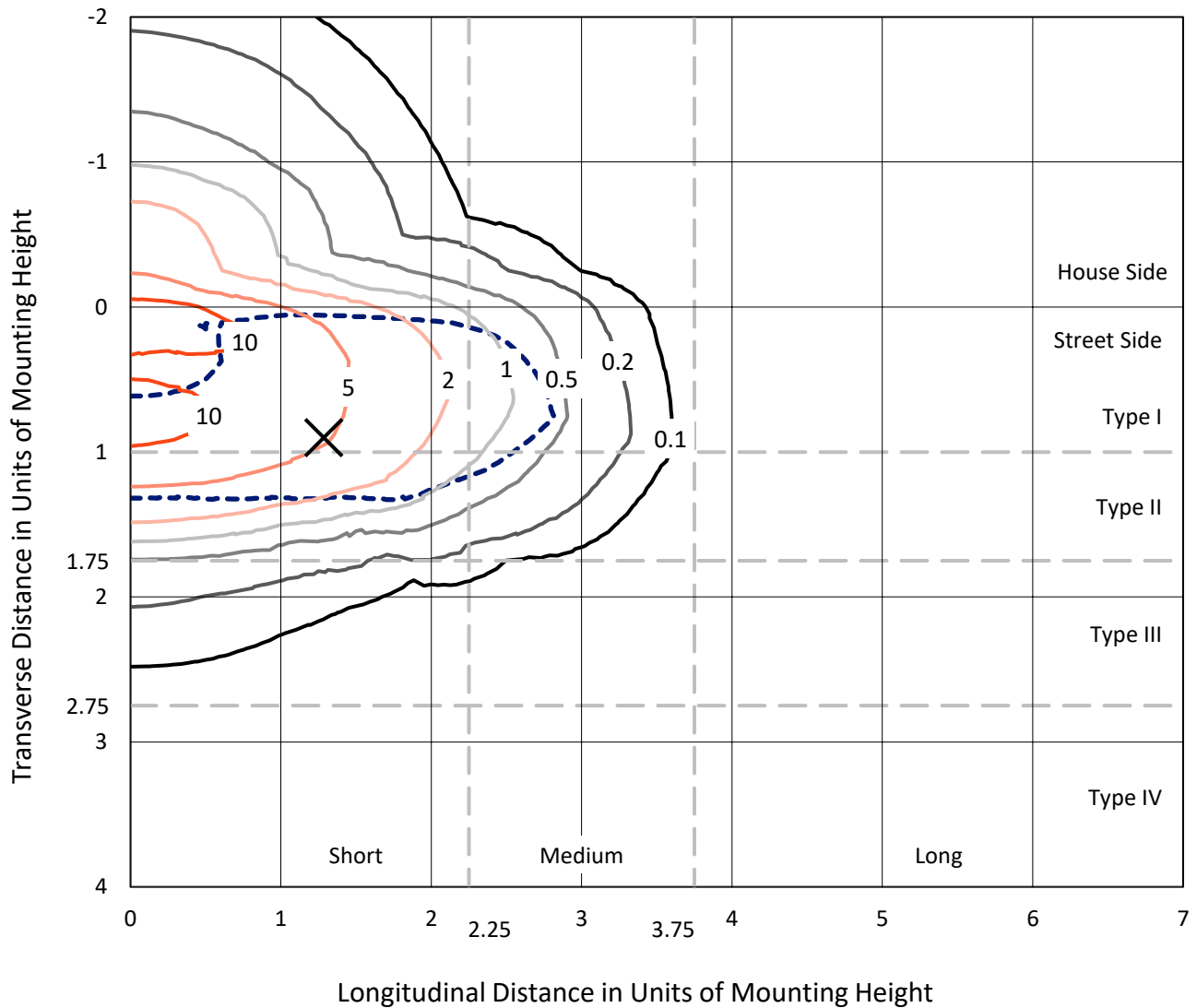
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

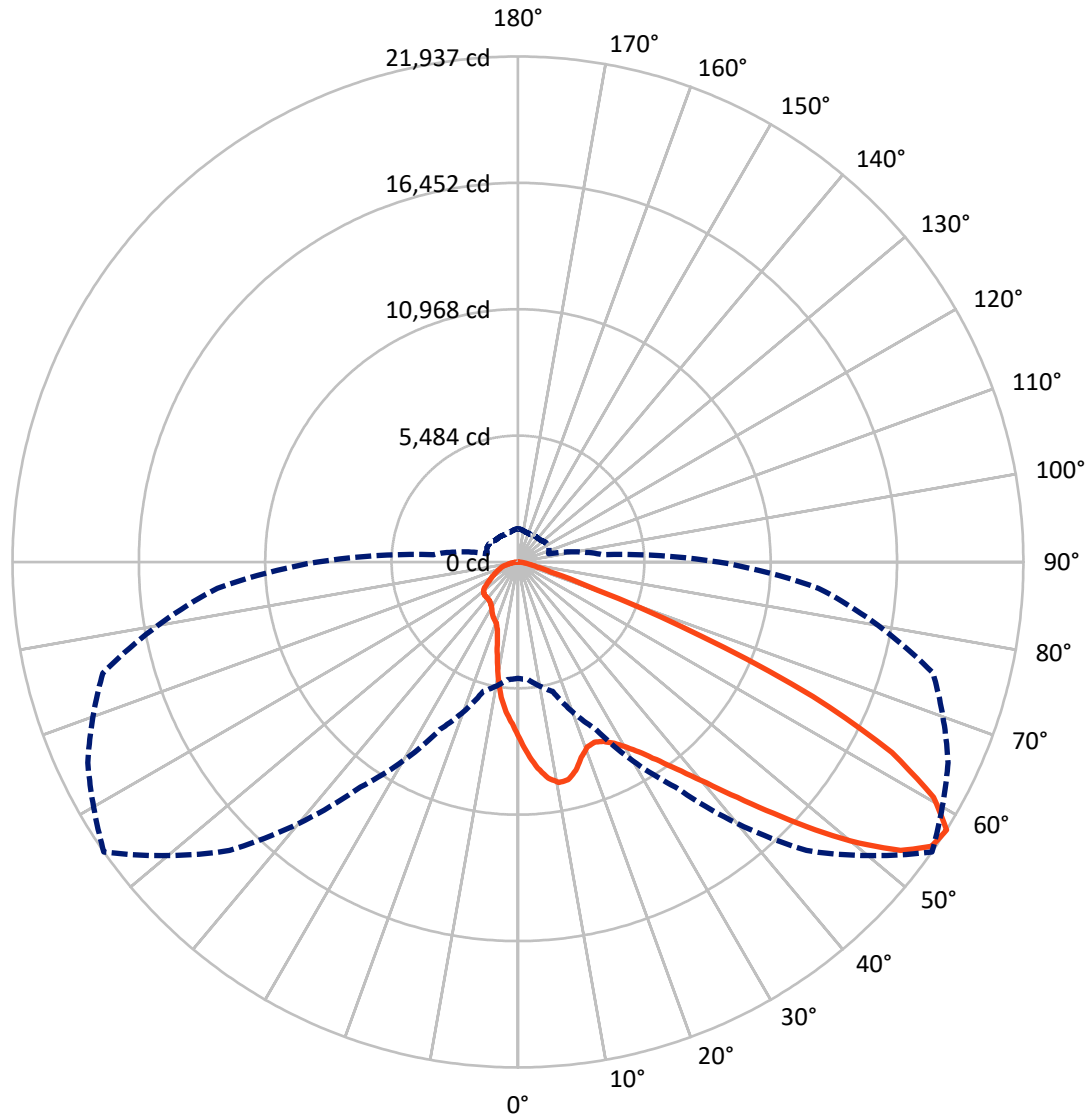
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 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	5523.5	0.0	5523.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	25002.5	0.0	25002.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	30526.0	0.0	30526.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	709.8	2.3
10°-20°	1791.5	5.9
20°-30°	2858.7	9.4
30°-40°	4526.0	14.8
40°-50°	6927.5	22.7
50°-60°	7420.0	24.3
60°-70°	4668.0	15.3
70°-80°	1380.4	4.5
80°-90°	244.1	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°	30526.0	100.0
0°-180°	30526.0	100.0

Coefficient of Utilization



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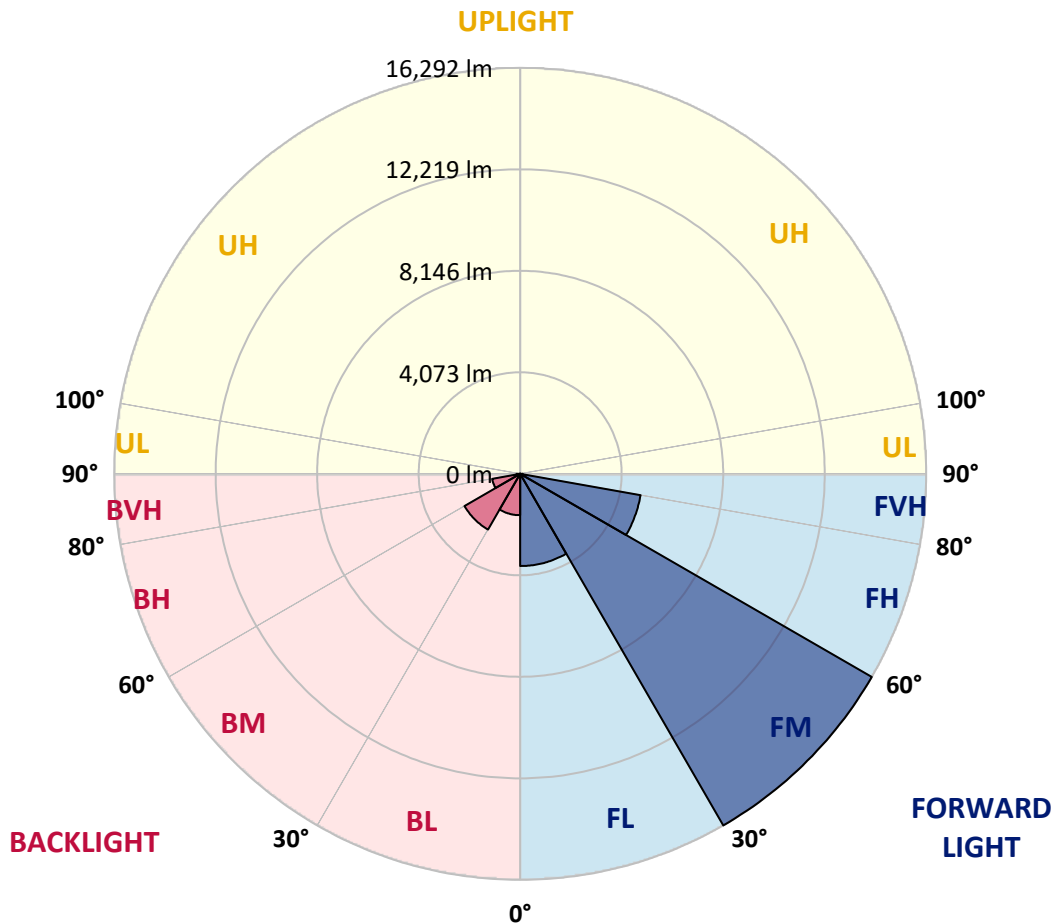
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3699.7	12.1			
FM (30°-60°)	16291.9	53.4			
FH (60°-80°)	4907.6	16.1			G2/5000
FVH (80°-90°)	103.1	0.3			G2/225
BL (0°-30°)	1660.2	5.4	B3/2500		
BM (30°-60°)	2581.7	8.5	B3/5000		
BH (60°-80°)	1140.7	3.7	B3/2500		G3/2500
BVH (80°-90°)	140.9	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°	7648.8	7648.8	7648.8	7648.8	7648.8	7648.8	7648.8	7648.8	7648.8	7648.8
2.5°	8775.6	8769.2	8804.0	8685.6	8605.1	8496.2	8352.6	8169.6	7972.3	7764.0
5°	9566.2	9510.9	9547.2	9458.9	9370.5	9206.4	8993.3	8695.1	8330.5	7915.5
7.5°	9441.5	9403.6	9496.7	9575.6	9641.9	9621.4	9465.2	9152.7	8682.4	8079.6
10°	8436.3	8393.7	8524.6	8797.6	9198.5	9547.2	9736.6	9542.5	9042.2	8259.5
12.5°	7549.4	7528.9	7615.7	7836.6	8281.6	8950.7	9701.9	9883.3	9416.2	8472.6
15°	7170.7	7145.4	7200.7	7312.7	7596.7	8220.1	9386.3	10116.9	9783.9	8718.7
17.5°	7087.0	7058.6	7082.3	7140.7	7323.7	7798.7	8909.7	10232.1	10167.4	8993.3
20°	7241.7	7218.0	7221.2	7218.0	7345.8	7723.0	8578.3	10187.9	10501.9	9245.8
22.5°	7615.7	7576.2	7577.8	7494.2	7563.6	7855.5	8491.5	10069.6	10800.2	9466.7
25°	8224.8	8153.8	8168.0	7955.0	7936.0	8152.2	8627.2	9978.0	11096.9	9643.5
27.5°	9058.0	8977.5	8934.9	8617.7	8466.3	8573.6	8903.4	10009.6	11377.8	9796.6
30°	10099.5	10001.7	9914.9	9465.2	9190.6	9151.1	9332.6	10217.9	11709.2	9957.5
32.5°	11376.2	11262.6	11104.8	10508.3	10121.6	9914.9	9888.1	10588.7	12097.4	10162.7
35°	12895.9	12747.5	12523.4	11751.8	11262.6	10839.6	10620.3	11123.7	12629.2	10472.0
37.5°	14461.3	14294.0	14088.9	13170.4	12569.2	11945.9	11513.5	11849.6	13337.7	10891.7
40°	15905.2	15717.4	15526.5	14709.0	14063.6	13312.5	12607.1	12768.0	14204.1	11393.5
42.5°	16757.3	16618.5	16545.9	16104.0	15605.4	14843.2	13967.4	13856.9	15177.7	11971.1
45°	16719.5	16662.7	16886.7	17069.8	16951.4	16528.5	15561.2	15060.9	16154.5	12471.4
47.5°	15826.3	15864.2	16364.4	17393.3	17846.2	18067.1	17375.9	16242.9	17003.5	12845.4
50°	13396.1	13427.7	14585.9	16804.7	18076.6	19321.7	19176.5	17396.5	17661.6	13074.2
52.5°	11472.4	11493.0	11990.0	15059.4	17316.0	19952.9	20798.7	18483.7	18142.9	13137.3
55°	8641.4	8712.4	9269.5	11814.9	15337.1	19452.7	21786.6	19604.2	18447.4	13143.6
57.5°	5048.2	5125.5	5813.5	8019.7	11920.6	17708.9	21936.5	20598.3	18654.2	13093.1
60°	2472.8	2505.9	2805.8	4215.0	7350.6	14349.2	20730.9	21079.6	18769.4	13066.3
62.5°	1666.4	1661.7	1674.3	2079.9	3621.6	9219.0	18218.6	20237.0	18707.8	12963.7
65°	1432.9	1415.5	1368.2	1459.7	1876.3	4216.6	14076.2	17721.5	18239.1	12706.5
67.5°	1238.8	1240.3	1241.9	1213.5	1339.8	1945.7	8602.0	13959.5	16556.9	11488.2
70°	1025.7	1039.9	1046.2	1046.2	1092.0	1276.6	3672.1	9567.7	13060.0	9007.5
72.5°	934.2	904.2	907.4	891.6	891.6	972.1	1478.6	5423.8	8228.0	5067.1
75°	762.2	781.1	784.3	773.2	737.0	741.7	877.4	2275.6	3520.6	2102.0
77.5°	658.0	658.0	664.4	656.5	628.1	555.5	585.5	882.1	1197.7	861.6
80°	528.6	527.1	553.9	569.7	525.5	410.3	374.0	487.6	531.8	378.7
82.5°	257.2	273.0	380.3	434.0	399.2	296.7	228.8	303.0	284.0	167.3
85°	149.9	142.0	170.4	241.4	228.8	164.1	110.5	157.8	148.3	85.2
87.5°	47.3	44.2	34.7	82.1	66.3	45.8	30.0	45.8	41.0	18.9
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°
7648.8	0°	7648.8	7648.8	7648.8	7648.8	7648.8	7648.8	7648.8	7648.8	7648.8	7648.8
7674.1	2.5°	7562.0	7375.8	7191.2	7022.3	6919.8	6853.5	6787.2	6713.0	6684.6	6642.0
7694.6	5°	7486.3	7126.5	6806.1	6530.0	6279.1	6081.8	5883.0	5722.0	5649.4	5698.4
7759.3	7.5°	7442.1	6921.3	6427.4	5920.9	5433.2	5043.5	4704.2	4465.9	4358.6	4385.4
7822.4	10°	7402.6	6689.4	5936.6	5136.6	4435.9	3953.0	3605.9	3424.4	3356.5	3370.7
7907.6	12.5°	7366.4	6429.0	5344.9	4292.3	3547.5	3228.7	3129.3	3130.9	3143.5	3153.0
8043.3	15°	7360.0	6115.0	4683.7	3553.8	3067.7	3047.2	3154.5	3222.4	3258.7	3269.7
8157.0	17.5°	7350.6	5739.4	4009.8	3050.4	2951.0	3089.8	3189.2	3233.4	3261.8	3263.4
8267.4	20°	7312.7	5262.8	3388.1	2810.5	2925.7	3045.6	3107.2	3141.9	3165.6	3173.5
8351.1	22.5°	7195.9	4732.6	2903.6	2703.2	2824.7	2921.0	2993.6	3033.0	3047.2	3056.7
8366.8	25°	6986.0	4139.2	2569.1	2600.6	2684.3	2805.8	2864.2	2872.1	2867.3	2881.5
8327.4	27.5°	6711.5	3503.3	2360.8	2461.8	2569.1	2673.2	2704.8	2700.0	2690.6	2706.4
8259.5	30°	6380.1	2932.0	2228.2	2305.5	2452.3	2547.0	2575.4	2564.3	2545.4	2562.8
8224.8	32.5°	6029.7	2464.9	2119.3	2196.7	2356.0	2449.1	2477.5	2466.5	2452.3	2466.5
8264.3	35°	5703.1	2138.3	2018.3	2124.1	2280.3	2371.8	2408.1	2409.7	2409.7	2427.0
8368.4	37.5°	5403.3	1947.3	1934.7	2078.3	2228.2	2310.3	2362.3	2365.5	2297.6	2302.4
8545.2	40°	5125.5	1866.8	1896.8	2048.3	2177.7	2256.6	2259.8	2083.0	1958.4	1955.2
8747.1	42.5°	4898.3	1851.1	1907.9	2045.2	2141.4	2144.6	1922.1	1784.8	1750.1	1751.6
8933.4	45°	4685.2	1846.3	1933.1	2045.2	2087.8	1852.6	1702.7	1666.4	1669.6	1682.2
9017.0	47.5°	4447.0	1827.4	1937.8	2016.8	1933.1	1647.5	1603.3	1587.5	1581.2	1584.4
8998.1	50°	4186.6	1759.5	1877.9	1959.9	1668.0	1559.1	1503.9	1499.2	1507.0	1511.8
8892.3	52.5°	3912.0	1649.1	1775.3	1857.4	1546.5	1481.8	1420.2	1431.3	1466.0	1477.1
8781.9	55°	3732.1	1519.7	1639.6	1652.2	1461.3	1409.2	1357.1	1382.4	1447.1	1467.6
8715.6	57.5°	3684.8	1382.4	1484.9	1470.7	1352.4	1346.1	1314.5	1336.6	1418.7	1448.7
8712.4	60°	3670.6	1259.3	1333.5	1322.4	1246.7	1276.6	1268.8	1279.8	1308.2	1317.7
8680.9	62.5°	3560.1	1161.4	1197.7	1182.0	1152.0	1204.1	1223.0	1199.3	1221.4	1232.5
8464.7	65°	3279.2	1082.5	1065.2	1054.1	1066.8	1114.1	1152.0	1104.6	1125.2	1156.7
7631.5	67.5°	2815.2	975.2	927.9	940.5	980.0	1005.2	1054.1	1000.5	1017.8	1071.5
6146.5	70°	2277.1	839.5	796.9	833.2	871.1	923.2	931.1	894.8	935.8	995.8
3751.0	72.5°	1611.2	702.2	672.3	746.4	759.0	826.9	809.5	792.2	849.0	869.5
1854.2	75°	1117.3	566.5	549.2	606.0	651.7	710.1	697.5	718.0	837.9	847.4
926.3	77.5°	707.0	440.3	429.2	465.5	528.6	593.3	613.9	847.4	1431.3	1488.1
481.3	80°	410.3	328.2	315.6	344.0	399.2	459.2	591.8	1039.9	943.7	932.6
216.2	82.5°	228.8	225.7	209.9	217.8	266.7	331.4	836.4	732.2	594.9	613.9
86.8	85°	107.3	132.6	113.6	108.9	149.9	388.2	558.6	418.2	277.7	271.4
18.9	87.5°	28.4	25.2	25.2	28.4	63.1	334.5	222.5	178.3	105.7	102.6
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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