

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: P950167

Luminaire Tested: **GALN-SB4C-950-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950167
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-950-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21235 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

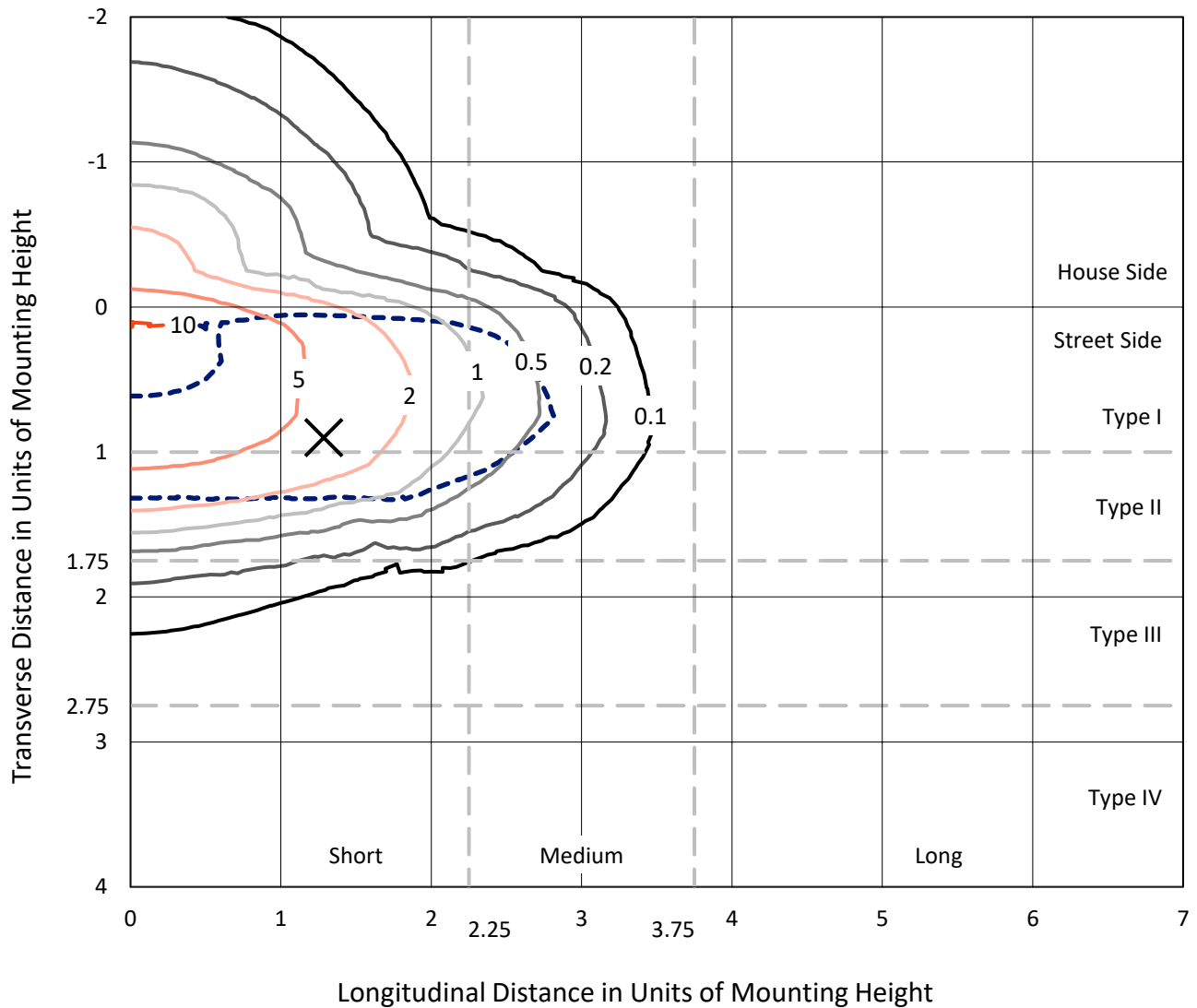
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

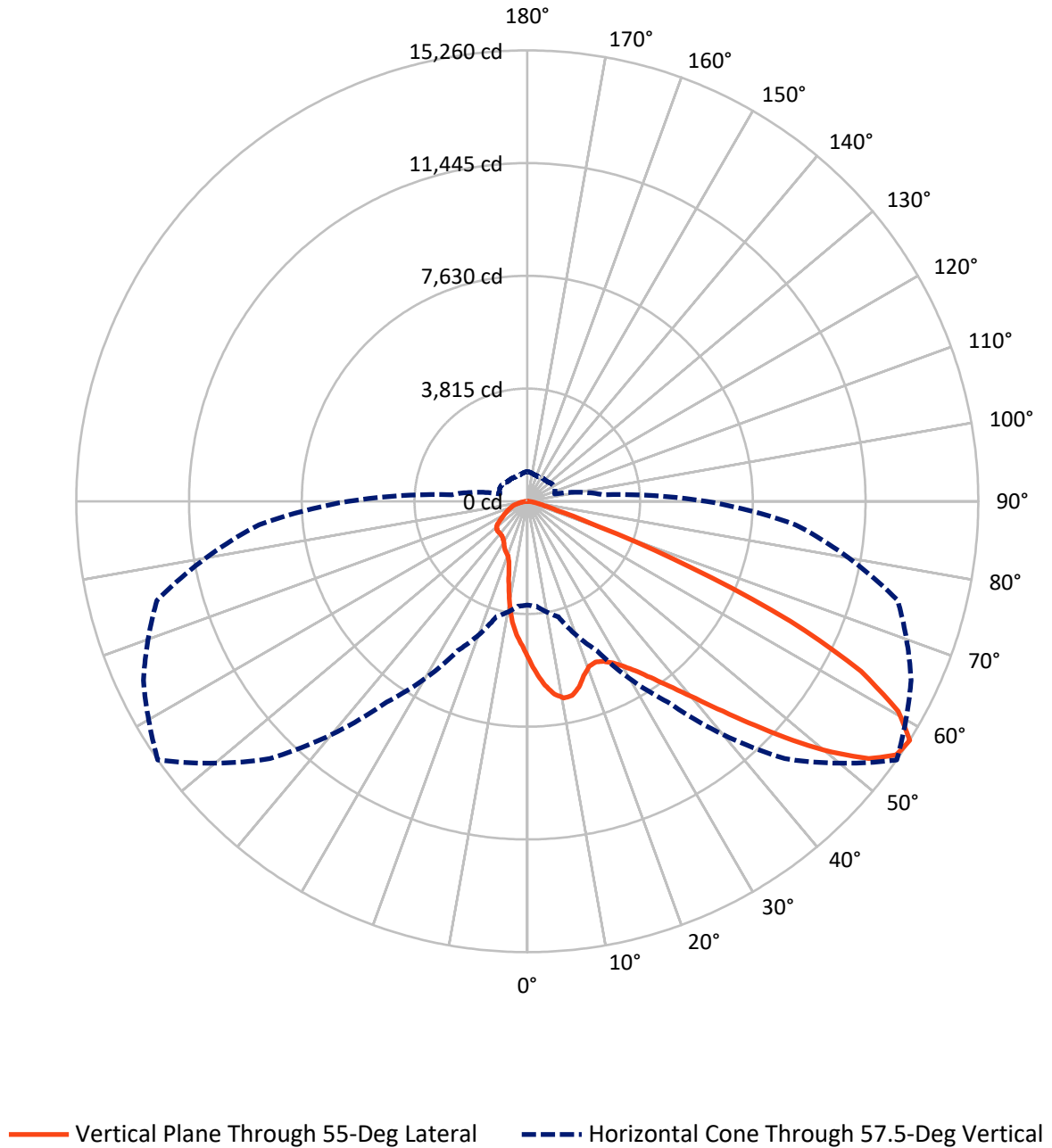
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3842.4	0.0	3842.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	17392.6	0.0	17392.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	21235.0	0.0	21235.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	493.7	2.3
10°-20°	1246.2	5.9
20°-30°	1988.6	9.4
30°-40°	3148.5	14.8
40°-50°	4819.0	22.7
50°-60°	5161.7	24.3
60°-70°	3247.2	15.3
70°-80°	960.3	4.5
80°-90°	169.8	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°	21235.0	100.0
0°-180°	21235.0	100.0

Coefficient of Utilization



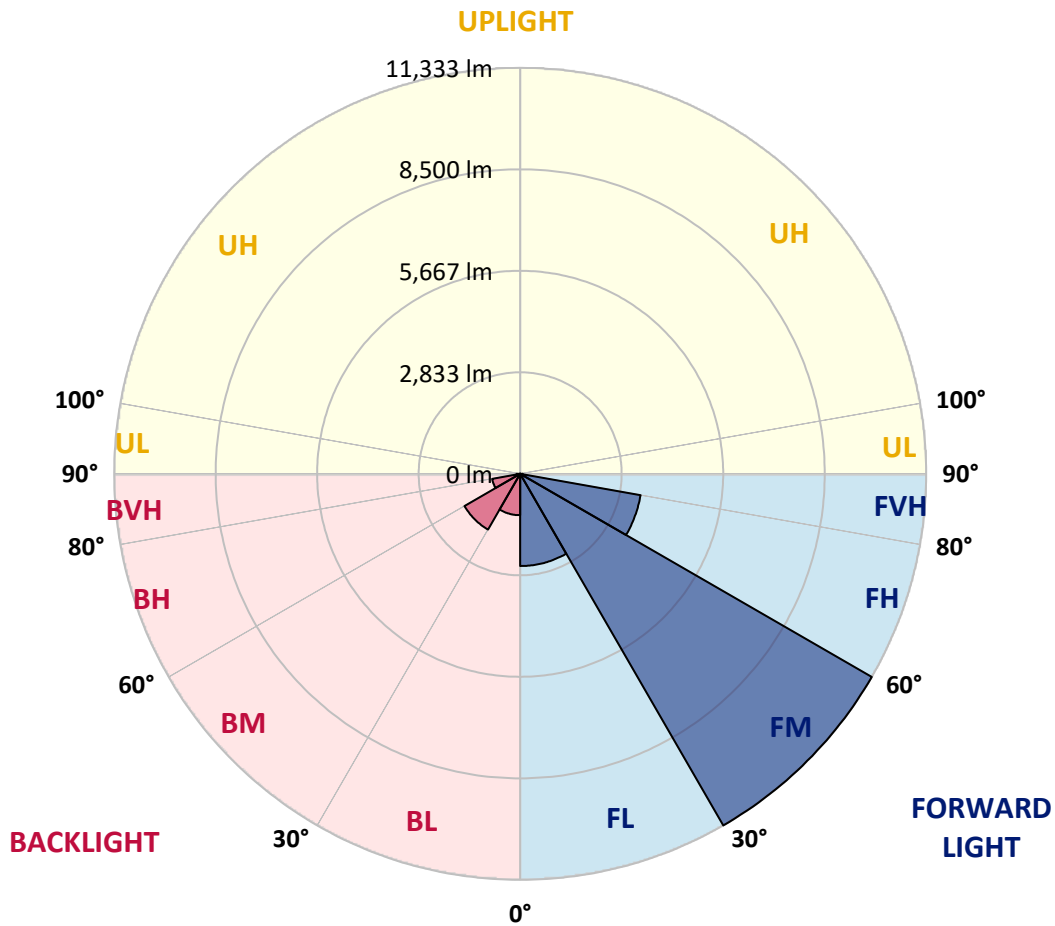
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2573.7	12.1			
FM (30°-60°)	11333.3	53.4			
FH (60°-80°)	3413.9	16.1			G2/5000
FVH (80°-90°)	71.7	0.3			G1/100
BL (0°-30°)	1154.9	5.4	B3/2500		
BM (30°-60°)	1795.9	8.5	B2/2500		
BH (60°-80°)	793.5	3.7	B2/1000		G2/1000
BVH (80°-90°)	98.0	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°	5320.8	5320.8	5320.8	5320.8	5320.8	5320.8	5320.8	5320.8	5320.8	5320.8
2.5°	6104.6	6100.2	6124.4	6042.0	5986.0	5910.3	5810.4	5683.1	5545.8	5400.9
5°	6654.6	6616.1	6641.4	6579.9	6518.4	6404.3	6256.1	6048.6	5795.0	5506.3
7.5°	6567.8	6541.5	6606.3	6661.2	6707.3	6693.0	6584.3	6367.0	6039.8	5620.5
10°	5868.6	5838.9	5930.1	6120.0	6398.8	6641.4	6773.1	6638.1	6290.1	5745.6
12.5°	5251.6	5237.4	5297.7	5451.4	5761.0	6226.4	6749.0	6875.2	6550.3	5893.8
15°	4988.2	4970.6	5009.0	5087.0	5284.6	5718.2	6529.4	7037.7	6806.1	6065.1
17.5°	4930.0	4910.2	4926.7	4967.3	5094.7	5425.1	6197.9	7117.8	7072.8	6256.1
20°	5037.6	5021.1	5023.3	5021.1	5110.0	5372.4	5967.4	7087.1	7305.5	6431.7
22.5°	5297.7	5270.3	5271.4	5213.2	5261.5	5464.6	5907.0	7004.8	7513.0	6585.4
25°	5721.5	5672.1	5682.0	5533.8	5520.6	5671.0	6001.4	6941.1	7719.4	6708.4
27.5°	6301.1	6245.1	6215.5	5994.8	5889.4	5964.1	6193.5	6963.0	7914.8	6814.8
30°	7025.6	6957.5	6897.2	6584.3	6393.3	6365.9	6492.1	7107.9	8145.3	6926.8
32.5°	7913.7	7834.7	7724.9	7309.9	7041.0	6897.2	6878.5	7365.9	8415.4	7069.5
35°	8970.8	8867.6	8711.8	8175.0	7834.7	7540.5	7387.9	7738.1	8785.3	7284.7
37.5°	10059.8	9943.4	9800.7	9161.8	8743.6	8310.0	8009.2	8243.0	9278.2	7576.7
40°	11064.2	10933.6	10800.8	10232.1	9783.2	9260.6	8769.9	8881.9	9880.9	7925.8
42.5°	11657.0	11560.4	11509.9	11202.6	10855.7	10325.5	9716.2	9639.4	10558.2	8327.5
45°	11630.7	11591.2	11747.0	11874.4	11792.0	11497.8	10824.9	10476.9	11237.7	8675.5
47.5°	11009.4	11035.7	11383.7	12099.4	12414.5	12568.2	12087.3	11299.2	11828.3	8935.7
50°	9318.8	9340.8	10146.5	11690.0	12574.7	13440.9	13339.9	12101.6	12286.0	9094.9
52.5°	7980.7	7994.9	8340.7	10475.8	12045.6	13880.0	14468.4	12858.0	12620.8	9138.8
55°	6011.3	6060.7	6448.2	8218.9	10669.0	13532.0	15155.6	13637.4	12832.7	9143.2
57.5°	3511.7	3565.5	4044.1	5578.8	8292.4	12319.0	15259.8	14329.0	12976.5	9108.0
60°	1720.2	1743.2	1951.8	2932.1	5113.3	9981.9	14421.2	14663.8	13056.7	9089.4
62.5°	1159.2	1155.9	1164.7	1446.8	2519.3	6413.1	12673.5	14077.6	13013.8	9018.0
65°	996.8	984.7	951.8	1015.4	1305.2	2933.2	9791.9	12327.7	12687.8	8839.1
67.5°	861.7	862.8	863.9	844.2	932.0	1353.5	5983.8	9710.7	11517.6	7991.6
70°	713.5	723.4	727.8	727.8	759.6	888.1	2554.5	6655.7	9085.0	6266.0
72.5°	649.9	629.0	631.2	620.2	620.2	676.2	1028.6	3773.0	5723.7	3524.9
75°	530.2	543.4	545.6	537.9	512.6	515.9	610.3	1583.0	2449.1	1462.2
77.5°	457.8	457.8	462.2	456.7	436.9	386.4	407.3	613.6	833.2	599.4
80°	367.7	366.6	385.3	396.3	365.6	285.4	260.2	339.2	369.9	263.5
82.5°	178.9	189.9	264.6	301.9	277.7	206.4	159.2	210.8	197.6	116.4
85°	104.3	98.8	118.6	168.0	159.2	114.2	76.8	109.8	103.2	59.3
87.5°	32.9	30.7	24.2	57.1	46.1	31.8	20.9	31.8	28.5	13.2
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°
5320.8	0°	5320.8	5320.8	5320.8	5320.8	5320.8	5320.8	5320.8	5320.8	5320.8	5320.8
5338.4	2.5°	5260.4	5130.9	5002.5	4885.0	4813.6	4767.5	4721.4	4669.8	4650.1	4620.4
5352.6	5°	5207.7	4957.4	4734.6	4542.5	4368.0	4230.7	4092.4	3980.4	3930.0	3964.0
5397.6	7.5°	5177.0	4814.7	4471.1	4118.8	3779.6	3508.4	3272.4	3106.6	3032.0	3050.7
5441.6	10°	5149.6	4653.4	4129.7	3573.2	3085.8	2749.9	2508.4	2382.1	2334.9	2344.8
5500.8	12.5°	5124.3	4472.2	3718.1	2985.9	2467.7	2246.0	2176.8	2177.9	2186.7	2193.3
5595.2	15°	5119.9	4253.8	3258.1	2472.1	2134.0	2119.8	2194.4	2241.6	2266.9	2274.5
5674.3	17.5°	5113.3	3992.5	2789.4	2122.0	2052.8	2149.4	2218.6	2249.3	2269.1	2270.2
5751.1	20°	5087.0	3661.0	2356.9	1955.1	2035.2	2118.7	2161.5	2185.6	2202.1	2207.6
5809.3	22.5°	5005.7	3292.2	2019.9	1880.4	1965.0	2031.9	2082.4	2109.9	2119.8	2126.3
5820.3	25°	4859.7	2879.4	1787.1	1809.1	1867.3	1951.8	1992.4	1997.9	1994.6	2004.5
5792.8	27.5°	4668.7	2437.0	1642.2	1712.5	1787.1	1859.6	1881.5	1878.3	1871.7	1882.6
5745.6	30°	4438.2	2039.6	1550.0	1603.8	1705.9	1771.8	1791.5	1783.8	1770.7	1782.7
5721.5	32.5°	4194.5	1714.7	1474.3	1528.1	1638.9	1703.7	1723.5	1715.8	1705.9	1715.8
5748.9	35°	3967.3	1487.5	1404.0	1477.6	1586.3	1649.9	1675.2	1676.3	1676.3	1688.3
5821.4	37.5°	3758.7	1354.6	1345.8	1445.7	1550.0	1607.1	1643.3	1645.5	1598.3	1601.6
5944.3	40°	3565.5	1298.6	1319.5	1424.9	1514.9	1569.8	1572.0	1449.0	1362.3	1360.1
6084.8	42.5°	3407.4	1287.7	1327.2	1422.7	1489.6	1491.8	1337.1	1241.6	1217.4	1218.5
6214.4	45°	3259.2	1284.4	1344.7	1422.7	1452.3	1288.8	1184.5	1159.2	1161.4	1170.2
6272.6	47.5°	3093.5	1271.2	1348.0	1402.9	1344.7	1146.1	1115.3	1104.3	1099.9	1102.1
6259.4	50°	2912.3	1224.0	1306.3	1363.4	1160.3	1084.6	1046.2	1042.9	1048.4	1051.6
6185.8	52.5°	2721.3	1147.2	1235.0	1292.1	1075.8	1030.8	988.0	995.7	1019.8	1027.5
6109.0	55°	2596.2	1057.1	1140.6	1149.3	1016.5	980.3	944.1	961.6	1006.6	1020.9
6062.9	57.5°	2563.2	961.6	1033.0	1023.1	940.8	936.4	914.4	929.8	986.9	1007.7
6060.7	60°	2553.4	876.0	927.6	919.9	867.2	888.1	882.6	890.3	910.0	916.6
6038.7	62.5°	2476.5	807.9	833.2	822.2	801.4	837.6	850.8	834.3	849.7	857.3
5888.3	65°	2281.1	753.1	741.0	733.3	742.1	775.0	801.4	768.4	782.7	804.7
5308.7	67.5°	1958.4	678.4	645.5	654.3	681.7	699.3	733.3	696.0	708.0	745.4
4275.7	70°	1584.1	584.0	554.4	579.6	606.0	642.2	647.7	622.4	651.0	692.7
2609.4	72.5°	1120.8	488.5	467.6	519.2	528.0	575.2	563.1	551.1	590.6	604.9
1289.9	75°	777.2	394.1	382.0	421.5	453.4	494.0	485.2	499.5	582.9	589.5
644.4	77.5°	491.8	306.3	298.6	323.8	367.7	412.8	427.0	589.5	995.7	1035.2
334.8	80°	285.4	228.3	219.6	239.3	277.7	319.4	411.7	723.4	656.5	648.8
150.4	82.5°	159.2	157.0	146.0	151.5	185.5	230.5	581.8	509.4	413.9	427.0
60.4	85°	74.6	92.2	79.0	75.7	104.3	270.0	388.6	290.9	193.2	188.8
13.2	87.5°	19.8	17.6	17.6	19.8	43.9	232.7	154.8	124.0	73.5	71.4
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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