

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: P956761

Luminaire Tested: **GALN-SB9B-827-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956761
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-827-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45359 lumens
Efficiency: N/A
Efficacy: 137.7 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

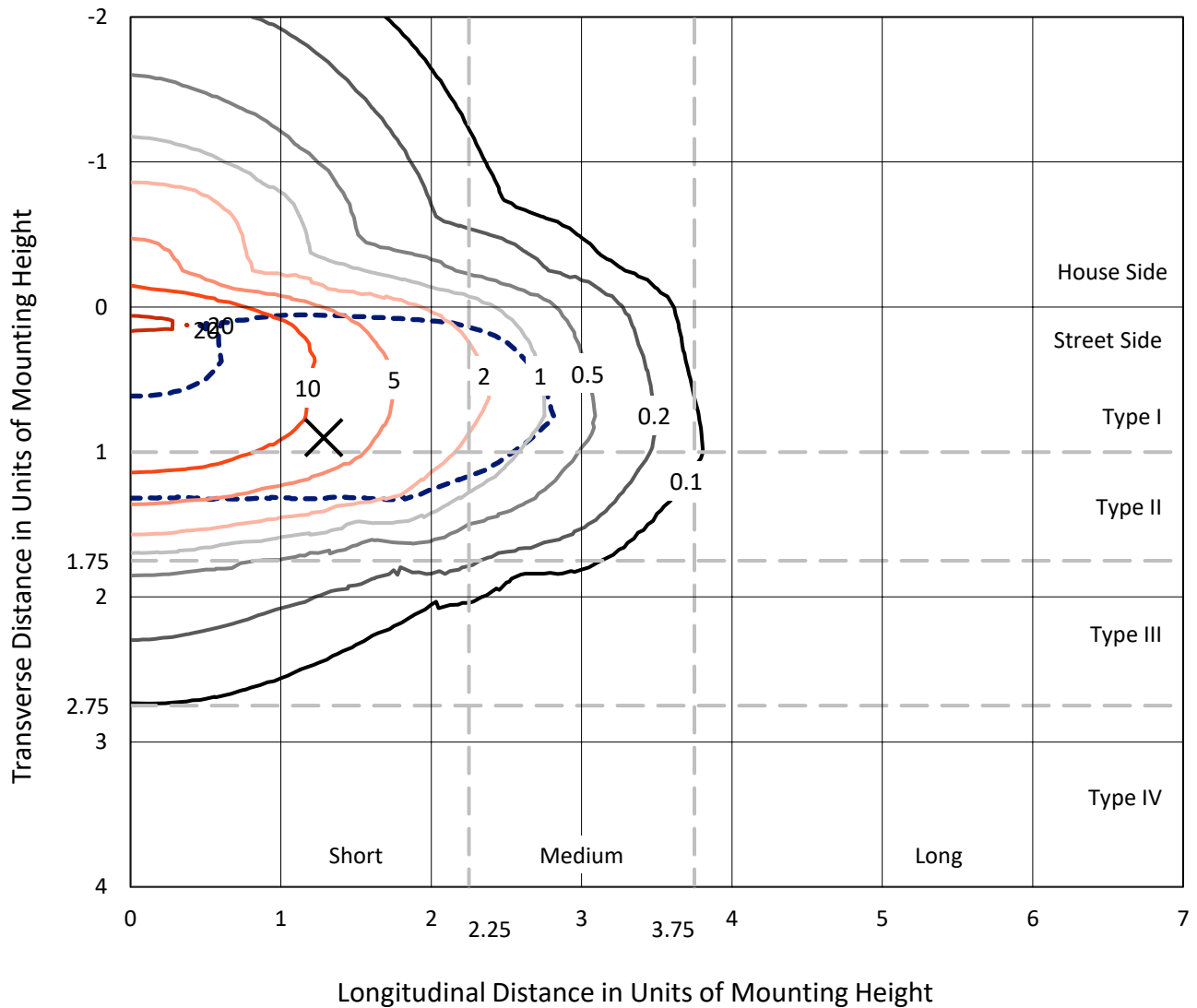
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

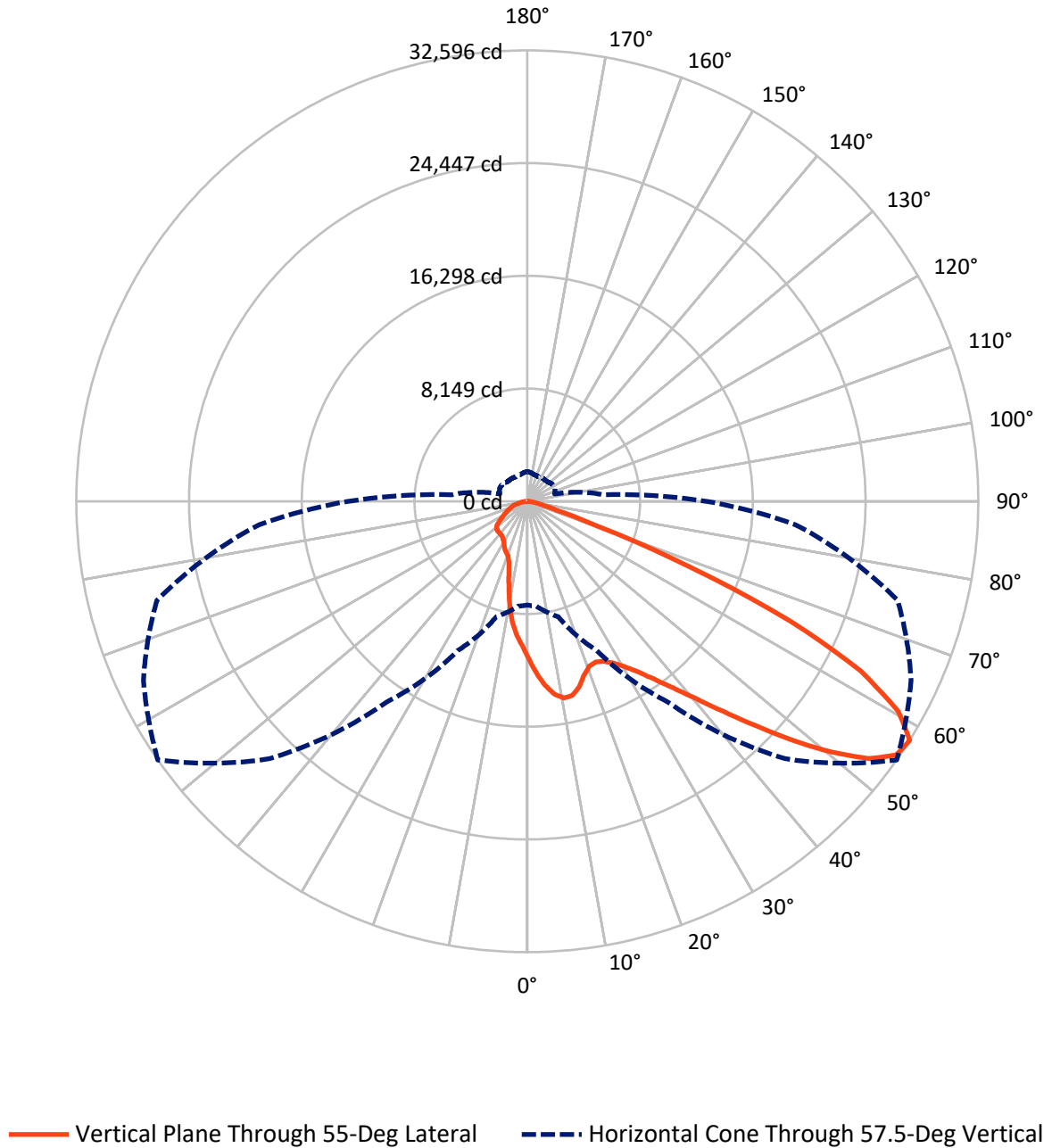
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22 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	8207.5	0.0	8207.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	37151.5	0.0	37151.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	45359.0	0.0	45359.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1054.6	2.3
10°-20°	2662.0	5.9
20°-30°	4247.8	9.4
30°-40°	6725.3	14.8
40°-50°	10293.7	22.7
50°-60°	11025.5	24.3
60°-70°	6936.2	15.3
70°-80°	2051.2	4.5
80°-90°	362.7	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°	45359.0	100.0
0°-180°	45359.0	100.0

Coefficient of Utilization



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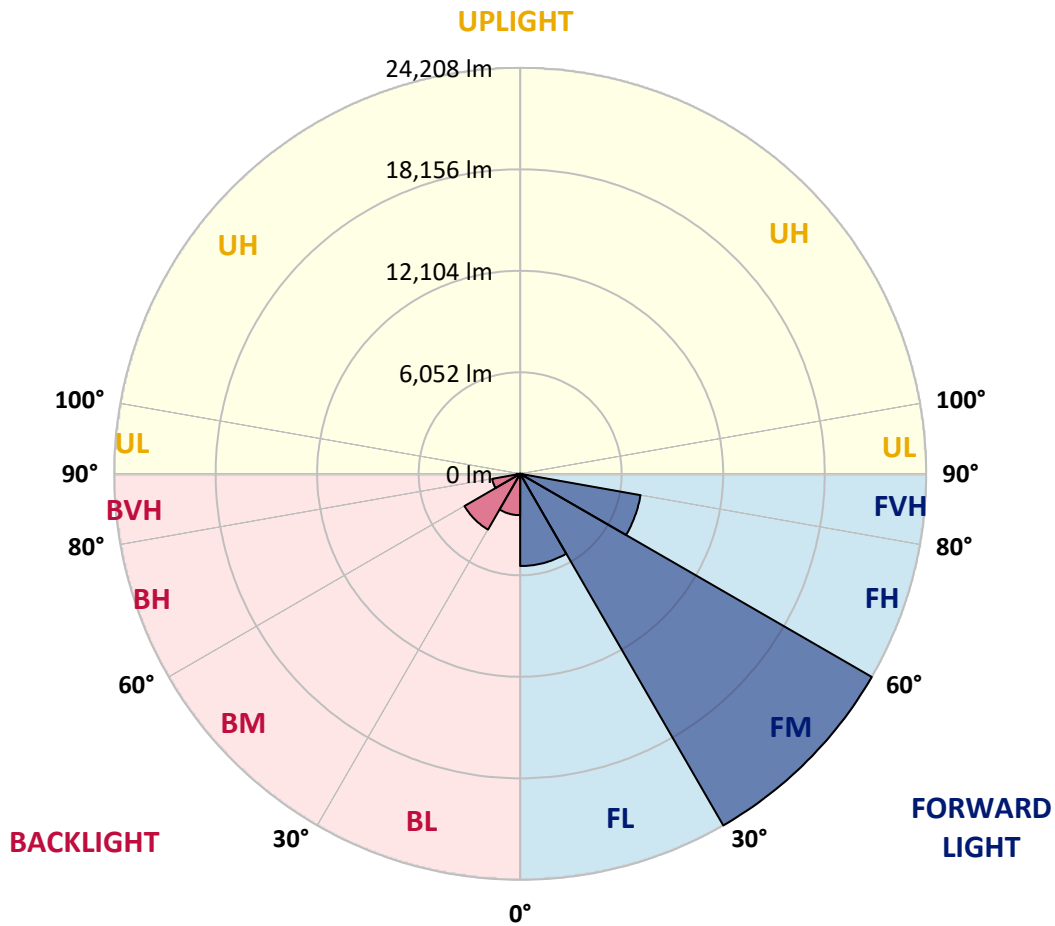
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5497.5	12.1			
FM (30°-60°)	24208.4	53.4			
FH (60°-80°)	7292.3	16.1			G3/7500
FVH (80°-90°)	153.2	0.3			G2/225
BL (0°-30°)	2466.9	5.4	B3/2500		
BM (30°-60°)	3836.1	8.5	B3/5000		
BH (60°-80°)	1695.0	3.7	B3/2500		G3/2500
BVH (80°-90°)	209.4	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°	11365.5	11365.5	11365.5	11365.5	11365.5	11365.5	11365.5	11365.5	11365.5	11365.5
2.5°	13039.7	13030.3	13081.9	12906.1	12786.5	12624.7	12411.3	12139.3	11846.2	11536.7
5°	14214.5	14132.4	14186.3	14055.0	13923.7	13679.9	13363.3	12920.1	12378.5	11761.8
7.5°	14029.2	13973.0	14111.3	14228.6	14327.0	14296.6	14064.4	13600.1	12901.4	12005.6
10°	12535.6	12472.3	12666.9	13072.5	13668.1	14186.3	14467.7	14179.3	13436.0	12273.0
12.5°	11217.8	11187.3	11316.3	11644.5	12305.8	13300.0	14416.1	14685.8	13991.7	12589.5
15°	10655.0	10617.5	10699.6	10866.0	11288.1	12214.3	13947.2	15032.8	14538.1	12955.3
17.5°	10530.7	10488.5	10523.7	10610.5	10882.5	11588.3	13239.0	15204.0	15107.9	13363.3
20°	10760.5	10725.3	10730.0	10725.3	10915.3	11475.7	12746.6	15138.4	15605.0	13738.5
22.5°	11316.3	11257.6	11260.0	11135.7	11238.9	11672.7	12617.6	14962.5	16048.2	14066.8
25°	12221.4	12115.8	12136.9	11820.4	11792.3	12113.5	12819.3	14826.5	16489.0	14329.4
27.5°	13459.4	13339.9	13276.5	12805.2	12580.1	12739.6	13229.6	14873.4	16906.4	14556.8
30°	15007.0	14861.7	14732.7	14064.4	13656.4	13597.8	13867.4	15182.9	17398.8	14796.0
32.5°	16904.0	16735.2	16500.7	15614.4	15039.9	14732.7	14692.8	15734.0	17975.6	15100.8
35°	19162.1	18941.7	18608.7	17462.1	16735.2	16106.8	15780.8	16528.9	18765.8	15560.4
37.5°	21488.2	21239.7	20934.8	19570.1	18676.7	17750.5	17108.0	17607.5	19818.7	16184.2
40°	23633.8	23354.7	23071.0	21856.4	20897.3	19781.2	18733.0	18972.2	21106.0	16929.8
42.5°	24900.0	24693.6	24585.8	23929.2	23188.2	22055.7	20754.3	20590.1	22552.8	17788.0
45°	24843.7	24759.3	25092.3	25364.3	25188.4	24560.0	23122.6	22379.3	24004.2	18531.4
47.5°	23516.5	23572.8	24316.1	25844.9	26517.9	26846.2	25819.2	24135.6	25265.8	19087.1
50°	19905.4	19952.3	21673.5	24970.3	26860.3	28710.4	28494.6	25849.6	26243.6	19427.1
52.5°	17047.1	17077.6	17816.2	22376.9	25730.1	29648.3	30905.1	27465.2	26958.8	19520.9
55°	12840.4	12945.9	13773.7	17555.9	22789.6	28905.0	32373.0	29130.1	27411.3	19530.3
57.5°	7501.2	7616.1	8638.4	11916.5	17713.0	26313.9	32595.8	30607.3	27718.5	19455.2
60°	3674.4	3723.6	4169.1	6263.1	10922.3	21321.7	30804.3	31322.5	27889.7	19415.4
62.5°	2476.2	2469.1	2487.9	3090.5	5381.4	13698.6	27071.3	30070.4	27798.2	19263.0
65°	2129.1	2103.3	2033.0	2169.0	2788.0	6265.4	20916.1	26332.7	27101.8	18880.7
67.5°	1840.7	1843.1	1845.4	1803.2	1990.8	2891.2	12781.8	20742.6	24602.2	17070.5
70°	1524.2	1545.3	1554.6	1554.6	1622.6	1897.0	5456.5	14216.8	19406.0	13384.4
72.5°	1388.2	1343.6	1348.3	1324.8	1324.8	1444.4	2197.1	8059.3	12226.1	7529.3
75°	1132.6	1160.7	1165.4	1149.0	1095.0	1102.1	1303.7	3381.3	5231.4	3123.3
77.5°	977.8	977.8	987.2	975.5	933.3	825.4	869.9	1310.8	1779.7	1280.3
80°	785.5	783.2	823.0	846.5	780.8	609.7	555.7	724.6	790.2	562.8
82.5°	382.2	405.7	565.1	644.8	593.2	440.8	340.0	450.2	422.1	248.6
85°	222.8	211.0	253.2	358.8	340.0	243.9	164.1	234.5	220.4	126.6
87.5°	70.3	65.7	51.6	121.9	98.5	68.0	44.6	68.0	61.0	28.1
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°
11365.5	0°	11365.5	11365.5	11365.5	11365.5	11365.5	11365.5	11365.5	11365.5	11365.5	11365.5
11403.0	2.5°	11236.5	10959.8	10685.5	10434.6	10282.2	10183.7	10085.2	9975.0	9932.8	9869.5
11433.5	5°	11124.0	10589.3	10113.3	9703.0	9330.2	9037.1	8741.6	8502.4	8394.6	8467.3
11529.6	7.5°	11058.3	10284.5	9550.6	8797.9	8073.3	7494.1	6990.0	6635.9	6476.5	6516.3
11623.4	10°	10999.7	9939.8	8821.3	7632.5	6591.4	5873.9	5358.0	5088.3	4987.5	5008.6
11750.0	12.5°	10945.8	9552.9	7942.0	6378.0	5271.2	4797.6	4649.8	4652.2	4670.9	4685.0
11951.7	15°	10936.4	9086.3	6959.5	5280.6	4558.4	4527.9	4687.4	4788.2	4842.1	4858.5
12120.5	17.5°	10922.3	8528.2	5958.3	4532.6	4384.9	4591.2	4738.9	4804.6	4846.8	4849.2
12284.7	20°	10866.0	7820.1	5034.4	4176.2	4347.4	4525.6	4617.0	4668.6	4703.8	4715.5
12409.0	22.5°	10692.5	7032.2	4314.5	4016.7	4197.3	4340.3	4448.2	4506.8	4527.9	4542.0
12432.4	25°	10380.7	6150.5	3817.4	3864.3	3988.6	4169.1	4255.9	4267.6	4260.6	4281.7
12373.8	27.5°	9972.7	5205.6	3507.9	3658.0	3817.4	3972.2	4019.1	4012.0	3998.0	4021.4
12273.0	30°	9480.2	4356.7	3310.9	3425.8	3643.9	3784.6	3826.8	3810.4	3782.2	3808.0
12221.4	32.5°	8959.7	3662.7	3149.1	3264.0	3500.9	3639.2	3681.4	3665.0	3643.9	3665.0
12280.0	35°	8474.3	3177.3	2999.1	3156.2	3388.3	3524.3	3578.2	3580.6	3580.6	3606.4
12434.7	37.5°	8028.8	2893.5	2874.8	3088.2	3310.9	3432.9	3510.2	3514.9	3414.1	3421.1
12697.4	40°	7616.1	2774.0	2818.5	3043.6	3235.9	3353.1	3357.8	3095.2	2910.0	2905.3
12997.5	42.5°	7278.4	2750.5	2834.9	3038.9	3182.0	3186.7	2856.0	2652.0	2600.4	2602.8
13274.2	45°	6961.9	2743.5	2872.4	3038.9	3102.2	2752.9	2530.1	2476.2	2480.9	2499.6
13398.5	47.5°	6607.8	2715.3	2879.5	2996.7	2872.4	2448.0	2382.4	2358.9	2349.5	2354.2
13370.3	50°	6220.9	2614.5	2790.4	2912.3	2478.5	2316.7	2234.6	2227.6	2239.3	2246.4
13213.2	52.5°	5812.9	2450.4	2638.0	2759.9	2298.0	2201.8	2110.4	2126.8	2178.4	2194.8
13049.1	55°	5545.6	2258.1	2436.3	2455.1	2171.3	2094.0	2016.6	2054.1	2150.2	2180.7
12950.6	57.5°	5475.2	2054.1	2206.5	2185.4	2009.5	2000.2	1953.3	1986.1	2108.0	2152.6
12945.9	60°	5454.1	1871.2	1981.4	1965.0	1852.4	1897.0	1885.3	1901.7	1943.9	1958.0
12899.0	62.5°	5290.0	1725.8	1779.7	1756.3	1711.7	1789.1	1817.3	1782.1	1814.9	1831.3
12577.8	65°	4872.6	1608.6	1582.8	1566.4	1585.1	1655.5	1711.7	1641.4	1671.9	1718.8
11339.7	67.5°	4183.2	1449.1	1378.8	1397.5	1456.2	1493.7	1566.4	1486.6	1512.4	1592.2
9133.2	70°	3383.6	1247.5	1184.1	1238.1	1294.4	1371.7	1383.5	1329.5	1390.5	1479.6
5573.7	72.5°	2394.1	1043.5	998.9	1109.1	1127.9	1228.7	1202.9	1177.1	1261.5	1292.0
2755.2	75°	1660.2	841.8	816.0	900.4	968.4	1055.2	1036.4	1066.9	1245.1	1259.2
1376.4	77.5°	1050.5	654.2	637.8	691.7	785.5	881.7	912.1	1259.2	2126.8	2211.2
715.2	80°	609.7	487.7	469.0	511.2	593.2	682.4	879.3	1545.3	1402.2	1385.8
321.2	82.5°	340.0	335.3	311.9	323.6	396.3	492.4	1242.8	1088.0	884.0	912.1
129.0	85°	159.4	197.0	168.8	161.8	222.8	576.8	830.1	621.4	412.7	403.3
28.1	87.5°	42.2	37.5	37.5	42.2	93.8	497.1	330.6	265.0	157.1	152.4
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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