

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: P951438

Luminaire Tested: **GALN-SB5C-830-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951438
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5C-830-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34623 lumens
Efficiency: N/A
Efficacy: 138.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

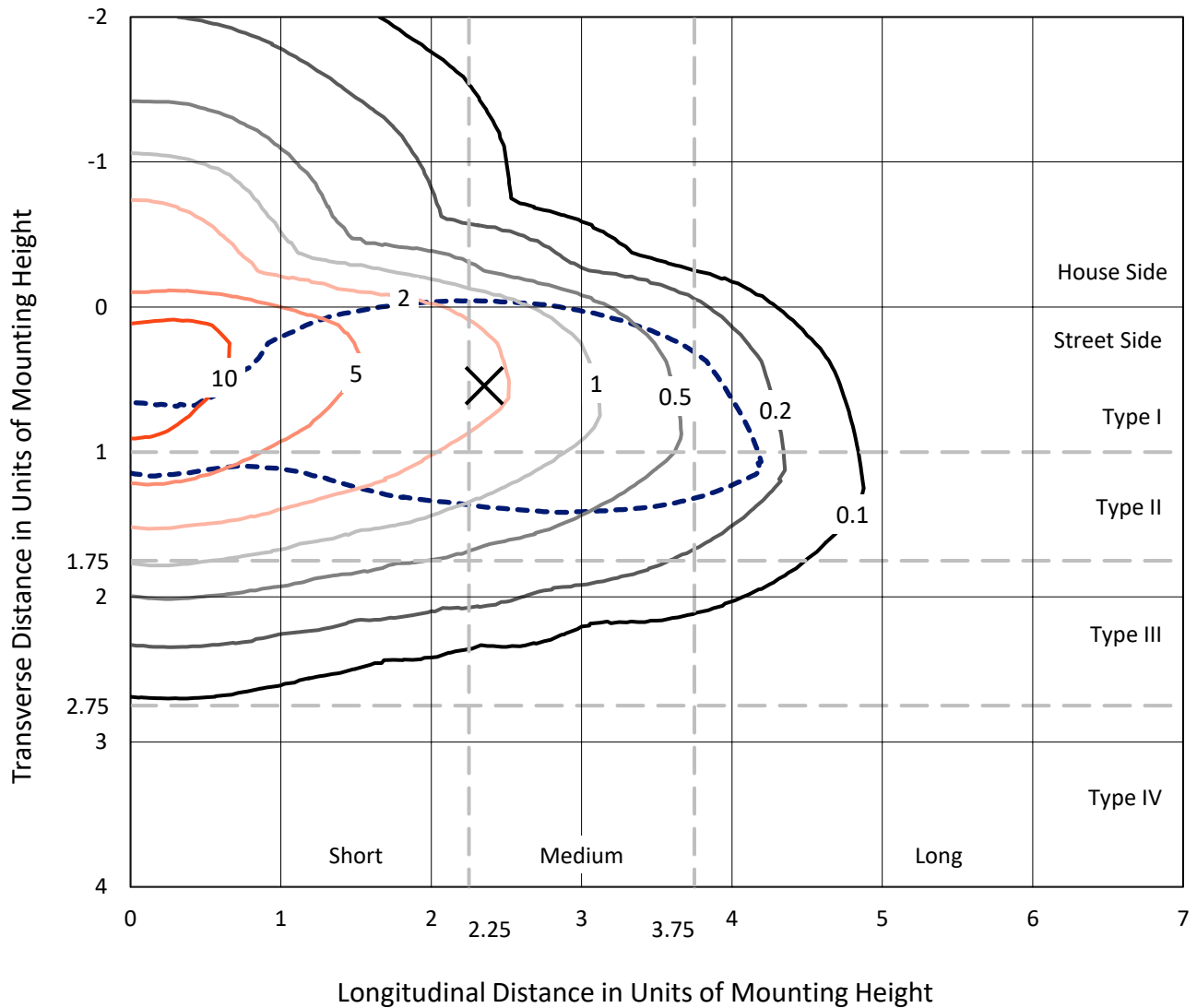
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

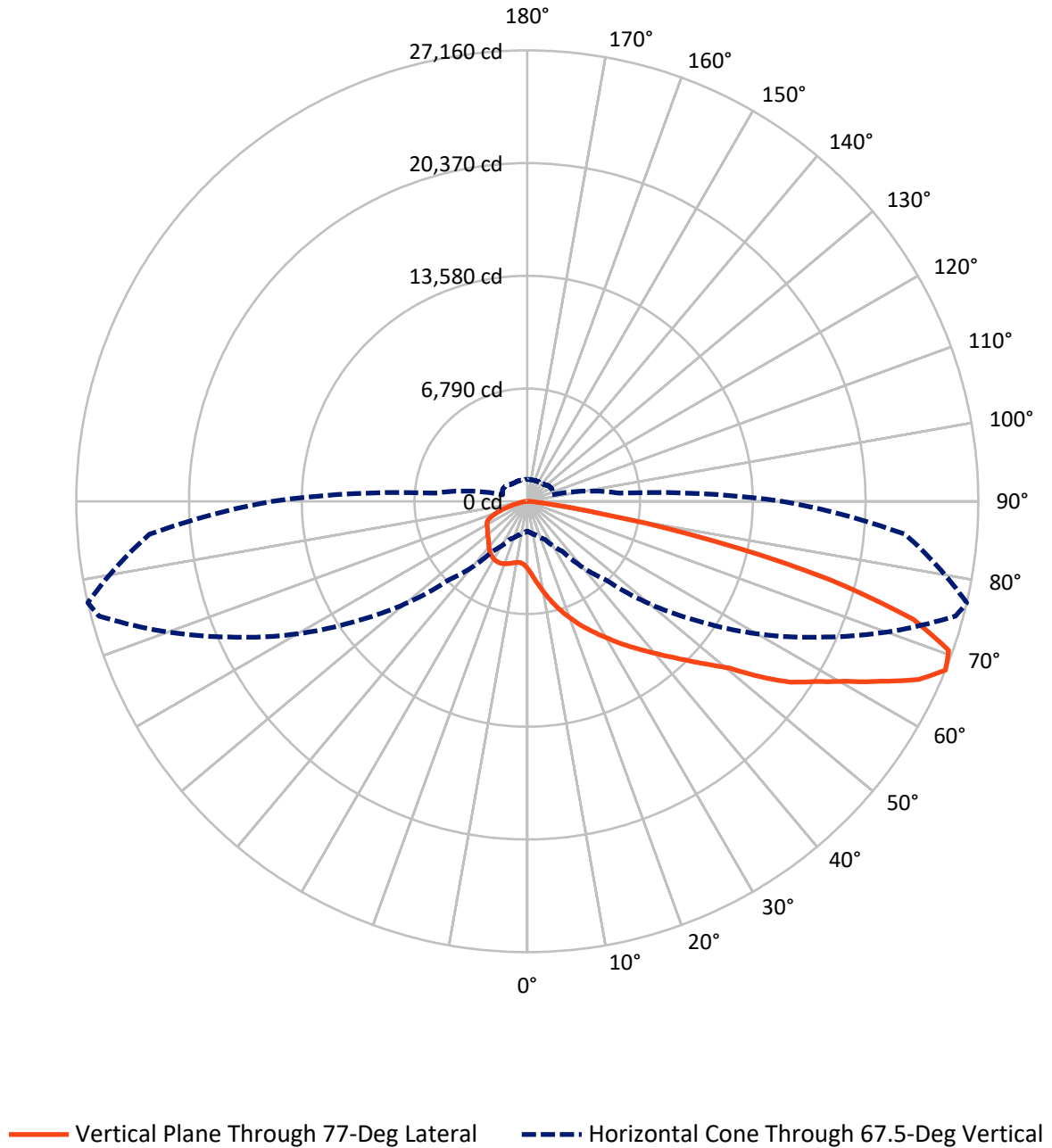
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6549.3	0.0	6549.3
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	28073.7	0.0	28073.7
	% Fixture	81.1	0.0	81.1
Total	Lumens	34623.0	0.0	34623.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	435.4	1.3
10°-20°	1564.3	4.5
20°-30°	2953.6	8.5
30°-40°	4758.2	13.7
40°-50°	6508.3	18.8
50°-60°	7341.5	21.2
60°-70°	6852.3	19.8
70°-80°	3756.2	10.8
80°-90°	453.1	1.3
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°	34623.0	100.0
0°-180°	34623.0	100.0



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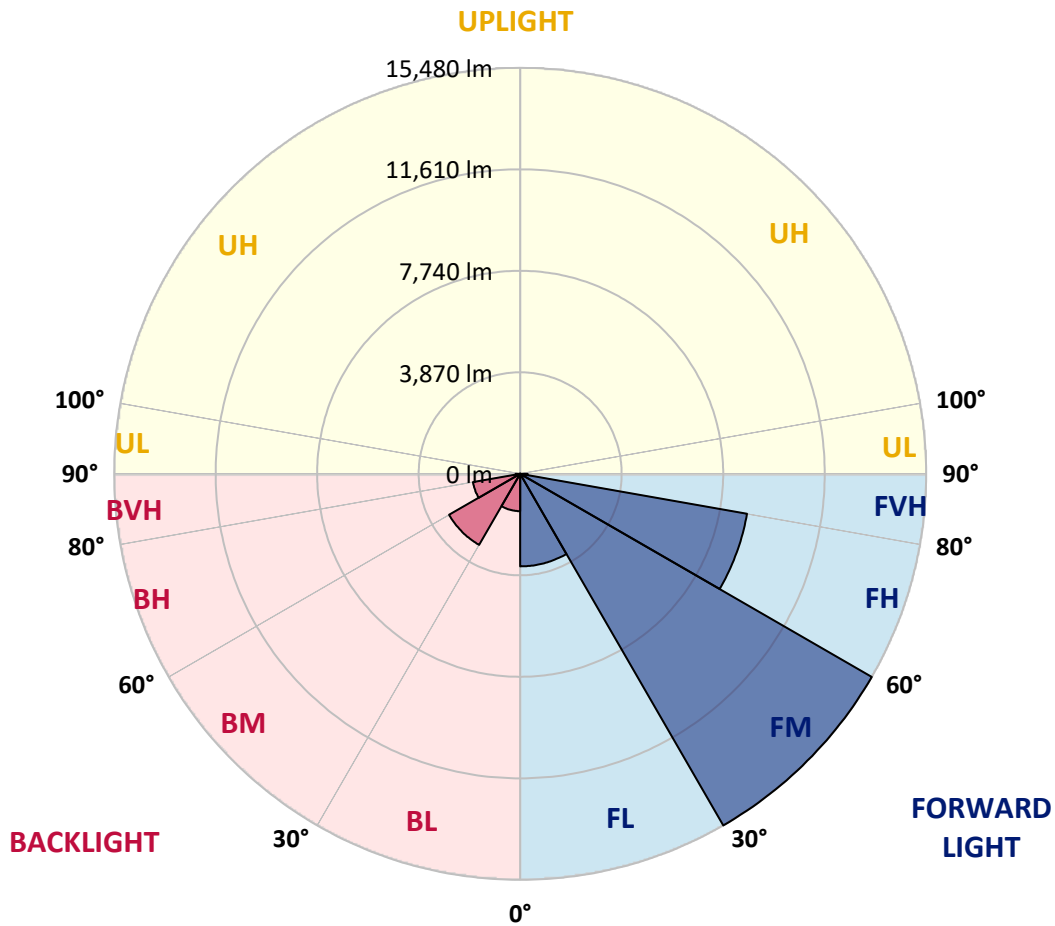
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3529.4	10.2			
FM (30°-60°)	15479.6	44.7			
FH (60°-80°)	8781.4	25.4			G4/12000
FVH (80°-90°)	283.4	0.8			G3/500
BL (0°-30°)	1424.0	4.1	B3/2500		
BM (30°-60°)	3128.4	9.0	B3/5000		
BH (60°-80°)	1827.2	5.3	B3/2500		G3/2500
BVH (80°-90°)	169.7	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-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4062.4	4062.4	4062.4	4062.4	4062.4	4062.4	4062.4	4062.4	4062.4	4062.4
2.5°	5086.4	5122.2	5077.5	5077.5	4927.4	4848.7	4698.6	4584.2	4378.7	4342.9
5°	6012.2	6056.9	5994.3	5967.5	5790.6	5628.0	5376.0	5127.5	4761.2	4723.6
7.5°	6728.9	6786.1	6730.7	6702.1	6544.8	6362.5	6067.6	5720.9	5204.4	5131.1
10°	7313.3	7322.2	7304.4	7315.1	7191.8	7041.7	6739.6	6335.7	5690.5	5590.4
12.5°	7643.9	7685.1	7720.8	7785.1	7763.7	7670.8	7399.1	6916.5	6205.2	6076.6
15°	7799.4	7870.9	7951.3	8099.7	8219.4	8242.7	8035.3	7540.3	6728.9	6573.4
17.5°	7854.8	7922.8	8049.6	8264.1	8521.5	8694.8	8601.9	8146.2	7247.2	7068.5
20°	8135.4	8155.1	8231.9	8435.7	8714.5	9002.2	9071.9	8728.8	7760.1	7558.2
22.5°	8735.9	8696.6	8718.1	8811.0	9011.2	9290.0	9449.0	9243.5	8287.3	8055.0
25°	9727.8	9613.5	9499.1	9391.8	9493.7	9651.0	9831.5	9758.2	8839.6	8544.7
27.5°	10980.7	10841.3	10589.3	10237.2	10113.9	10169.3	10249.7	10235.4	9350.7	9052.3
30°	12213.9	12051.2	11751.0	11241.6	10916.3	10769.8	10709.0	10667.9	9906.6	9588.4
32.5°	13198.6	13069.9	12775.1	12204.9	11733.1	11482.9	11280.9	11134.4	10487.4	10169.3
35°	14060.1	13940.3	13602.5	12980.6	12467.7	12201.4	11936.8	11624.1	11091.5	10769.8
37.5°	14846.4	14726.7	14263.8	13616.8	13100.3	12916.2	12680.3	12149.5	11697.4	11393.5
40°	15343.3	15316.5	14884.0	14151.2	13615.1	13523.9	13445.3	12759.0	12369.4	12087.0
42.5°	15470.2	15529.2	15186.0	14583.7	14072.6	13999.3	14183.4	13448.8	13123.6	12853.7
45°	15164.6	15334.4	15109.2	14699.9	14397.9	14358.5	14837.5	14203.0	13958.2	13711.6
47.5°	14390.7	14678.4	14585.5	14528.3	14485.4	14655.2	15413.0	15003.7	14903.6	14689.2
50°	12828.7	13373.8	13536.4	13897.4	14312.1	14885.8	15936.7	15877.7	16008.1	15791.9
52.5°	10128.2	10878.8	11822.5	12726.8	13779.5	14808.9	16512.1	17132.3	17682.8	17564.8
55°	8360.6	8698.4	9424.0	11082.6	12746.5	14485.4	16771.3	18145.7	19344.9	19239.4
57.5°	7002.3	7304.4	7751.2	9136.3	11184.4	13750.9	16932.1	18764.0	20483.3	20472.6
60°	5545.7	5865.7	6323.2	7304.4	9359.7	12482.0	16896.4	19468.2	21936.4	22025.7
62.5°	3901.5	4253.6	4761.2	5676.2	7495.6	10837.7	16167.2	19977.6	23646.7	23889.8
65°	2564.7	2797.0	3179.5	3969.4	5585.1	8723.4	14775.0	20043.7	25476.8	25887.9
67.5°	1797.9	1887.3	2112.5	2541.4	3681.7	6689.6	12557.0	19359.2	26697.5	27160.4
70°	1403.0	1447.6	1562.0	1733.6	2312.7	4498.4	9622.4	17579.1	26436.6	26919.1
72.5°	1211.7	1254.6	1297.5	1319.0	1551.3	2777.3	6518.0	14698.1	23979.1	24306.2
75°	1099.1	1109.9	1145.6	1138.5	1183.1	1801.5	3762.1	10709.0	18919.5	18806.9
77.5°	924.0	938.3	997.3	988.3	1050.9	1231.4	1953.4	6911.2	12265.7	11500.8
80°	782.8	790.0	854.3	843.6	913.3	891.8	997.3	3522.6	5202.6	4407.3
82.5°	271.7	336.0	652.3	672.0	697.0	539.7	575.5	1436.9	1588.8	1217.1
85°	132.3	141.2	332.4	471.8	470.0	271.7	280.6	512.9	500.4	393.2
87.5°	21.4	26.8	39.3	184.1	146.6	71.5	96.5	100.1	103.7	89.4
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):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4062.4	0°	4062.4	4062.4	4062.4	4062.4	4062.4	4062.4	4062.4	4062.4	4062.4	4062.4
4207.1	2.5°	4107.0	4017.7	3830.0	3656.7	3520.8	3390.4	3317.1	3254.5	3218.8	3211.6
4403.7	5°	4217.8	4033.8	3692.4	3404.7	3217.0	3077.6	3004.3	2957.9	2934.6	2920.3
4668.2	7.5°	4376.9	4107.0	3620.9	3293.8	3097.3	2997.2	2959.6	2952.5	2950.7	2952.5
4988.1	10°	4596.7	4226.8	3613.8	3267.0	3102.6	3047.2	3045.4	3047.2	3054.4	3056.1
5336.6	12.5°	4834.4	4350.1	3642.4	3290.3	3170.5	3140.1	3134.8	3133.0	3138.4	3141.9
5688.7	15°	5093.6	4512.7	3690.6	3340.3	3245.6	3213.4	3208.1	3197.3	3195.6	3193.8
6058.7	17.5°	5359.9	4673.6	3744.2	3393.9	3293.8	3249.2	3229.5	3204.5	3184.8	3179.5
6441.1	20°	5629.7	4832.6	3781.8	3420.7	3297.4	3234.9	3195.6	3152.7	3118.7	3099.0
6827.2	22.5°	5917.5	4998.9	3805.0	3413.6	3265.3	3179.5	3108.0	3057.9	3006.1	2972.1
7216.8	25°	6198.1	5143.6	3803.2	3376.1	3202.7	3093.7	3002.5	2938.2	2866.7	2831.0
7618.9	27.5°	6468.0	5274.1	3758.5	3309.9	3113.3	2991.8	2882.8	2805.9	2736.2	2702.3
8024.6	30°	6746.8	5383.1	3688.8	3213.4	3007.9	2873.9	2754.1	2688.0	2625.4	2593.3
8453.6	32.5°	7023.8	5483.2	3590.5	3093.7	2886.4	2757.7	2639.7	2579.0	2541.4	2541.4
8914.7	35°	7316.9	5552.9	3460.1	2954.3	2757.7	2634.4	2541.4	2505.7	2502.1	2480.7
9402.6	37.5°	7626.1	5597.6	3301.0	2811.3	2630.8	2514.6	2486.0	2443.1	2407.4	2360.9
9938.7	40°	7951.3	5642.3	3109.8	2663.0	2496.7	2432.4	2419.9	2362.7	2260.8	2146.5
10546.4	42.5°	8346.3	5672.6	2911.4	2514.6	2355.6	2334.1	2352.0	2253.7	2091.0	2005.3
11279.2	45°	8803.9	5722.7	2729.1	2368.1	2210.8	2210.8	2285.9	2157.2	2023.1	1969.5
12115.6	47.5°	9397.2	5838.9	2559.3	2207.2	2076.8	2112.5	2139.3	2041.0	1965.9	1899.8
13134.3	50°	10255.1	6117.7	2384.2	2044.6	1974.9	2046.4	2008.8	1951.6	1864.1	1810.5
14753.5	52.5°	11320.3	6282.1	2228.7	1898.0	1887.3	1958.8	1905.2	1851.6	1785.4	1713.9
15981.3	55°	12045.9	6312.5	2098.2	1790.8	1828.3	1821.2	1801.5	1753.3	1717.5	1622.8
17193.1	57.5°	12857.3	6373.2	1991.0	1726.5	1790.8	1712.2	1705.0	1663.9	1617.4	1553.1
18671.1	60°	13827.7	6468.0	1898.0	1701.4	1758.6	1640.7	1604.9	1588.8	1542.4	1510.2
20449.4	62.5°	14885.8	6553.7	1803.3	1705.0	1721.1	1571.0	1517.4	1512.0	1483.4	1472.7
22118.6	65°	15607.8	6319.6	1685.3	1701.4	1662.1	1499.5	1431.6	1429.8	1406.5	1403.0
22842.5	67.5°	15355.8	5577.9	1526.3	1651.4	1601.4	1428.0	1352.9	1345.8	1315.4	1317.2
22086.5	70°	14094.0	4519.9	1306.5	1528.1	1526.3	1363.6	1270.7	1247.5	1206.4	1213.5
19203.7	72.5°	11727.7	3349.3	1011.6	1322.5	1406.5	1304.7	1176.0	1138.5	1086.6	1093.8
14176.2	75°	8469.6	2276.9	736.3	1006.2	1224.2	1235.0	1083.1	1018.7	956.2	966.9
7890.6	77.5°	4334.0	1290.4	541.5	693.4	961.5	1122.4	999.1	913.3	899.0	999.1
2275.1	80°	1413.7	647.0	375.3	486.1	630.9	918.6	875.7	777.4	773.9	797.1
477.2	82.5°	421.8	273.4	241.3	319.9	348.5	704.2	756.0	588.0	505.8	532.6
159.1	85°	144.8	132.3	137.6	159.1	166.2	412.8	529.0	389.6	368.2	405.7
35.7	87.5°	34.0	46.5	39.3	35.7	35.7	100.1	205.5	162.6	225.2	150.1
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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<u>180°</u>
4062.4
3211.6
2918.5
2957.9
3057.9
3143.7
3192.0
3184.8
3106.2
2973.9
2831.0
2700.5
2591.5
2543.2
2475.3
2353.8
2130.4
2007.0
1978.5
1898.0
1805.1
1699.6
1624.6
1531.6
1519.1
1472.7
1401.2
1317.2
1220.7
1092.0
970.5
984.8
684.5
550.5
400.3
144.8
0.0

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