

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: P952530

Luminaire Tested: **GALN-SB6B-835-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952530
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-SB6B-835-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32260 lumens
Efficiency: N/A
Efficacy: 146.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

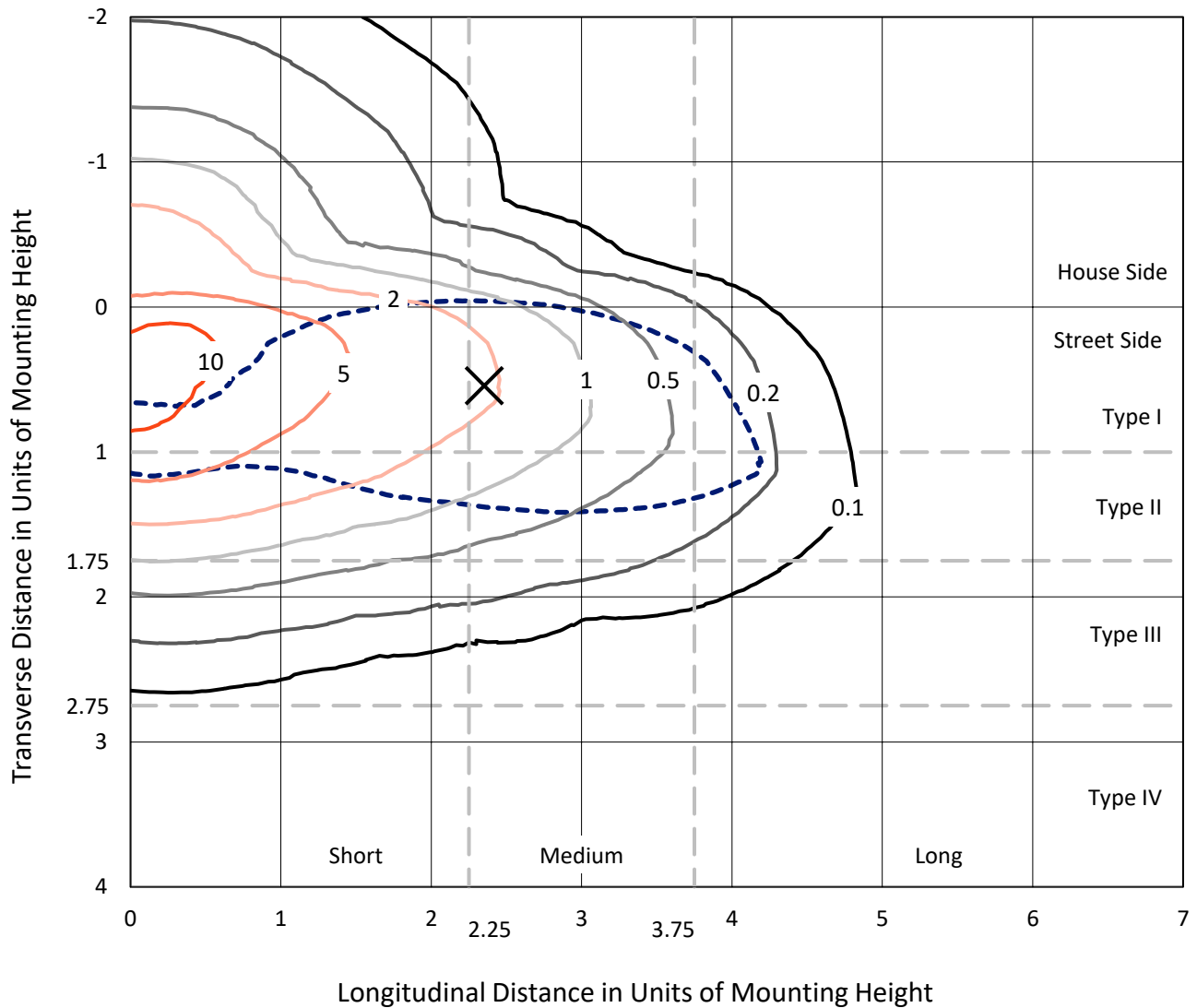
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

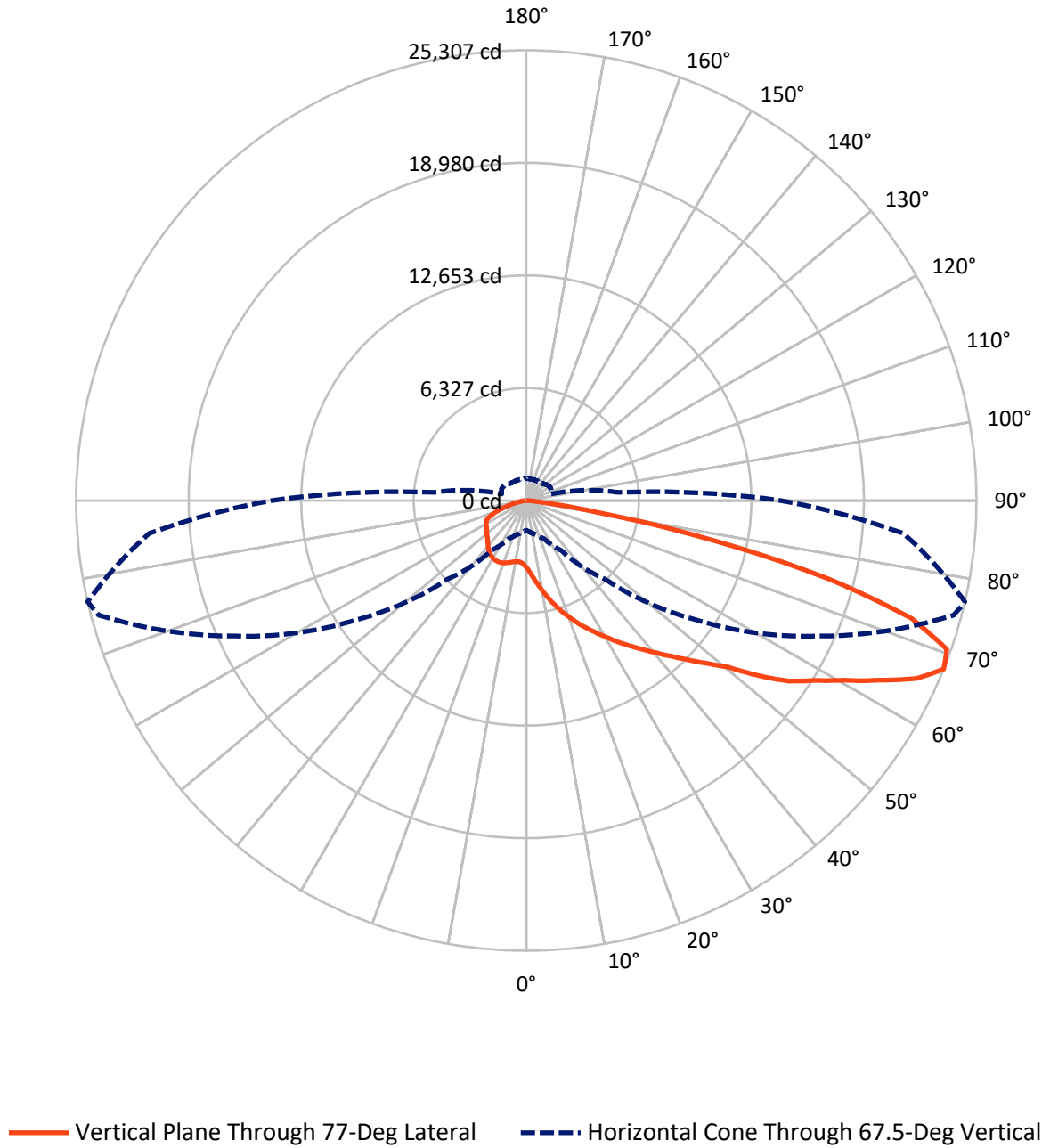
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 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	6102.3	0.0	6102.3
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	26157.7	0.0	26157.7
	% Fixture	81.1	0.0	81.1
Total	Lumens	32260.0	0.0	32260.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.7	1.3
10°-20°	1457.6	4.5
20°-30°	2752.0	8.5
30°-40°	4433.4	13.7
40°-50°	6064.2	18.8
50°-60°	6840.4	21.2
60°-70°	6384.7	19.8
70°-80°	3499.9	10.8
80°-90°	422.2	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°	32260.0	100.0
0°-180°	32260.0	100.0

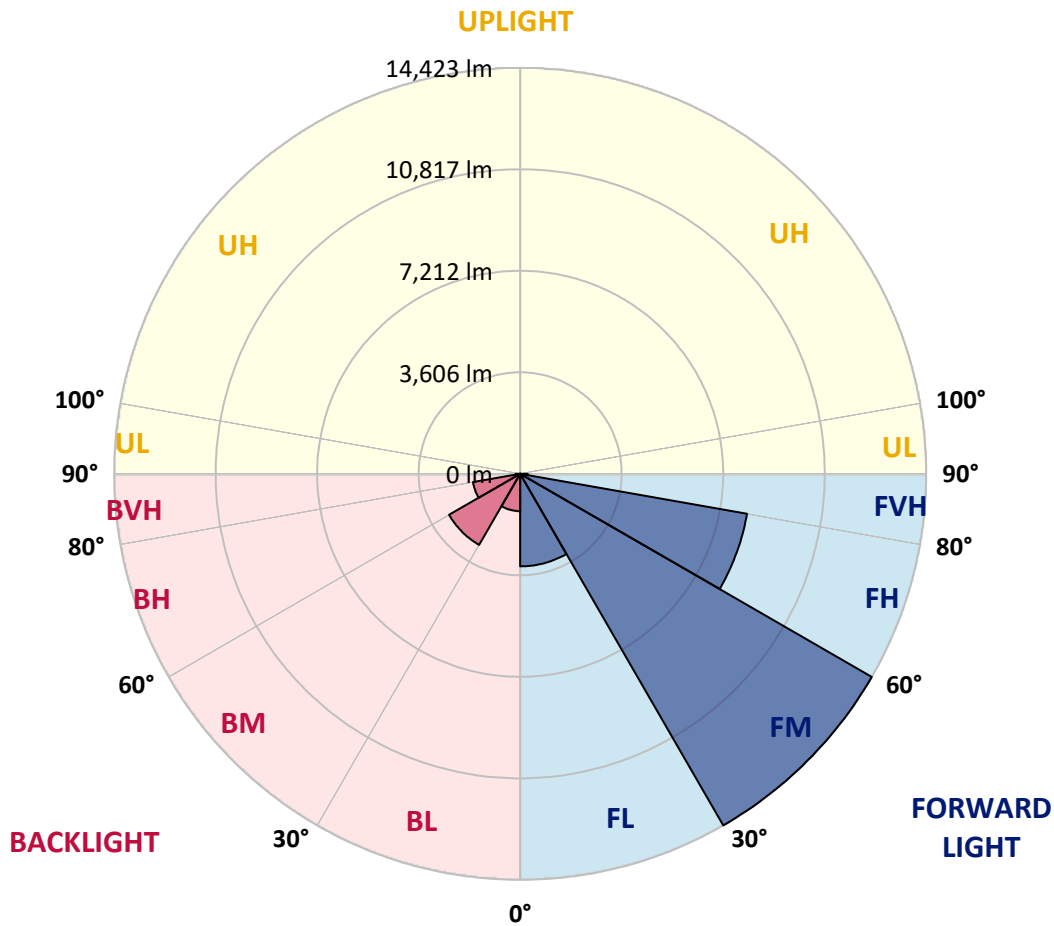


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3288.5	10.2			
FM (30°-60°)	14423.1	44.7			
FH (60°-80°)	8182.1	25.4			G4/12000
FVH (80°-90°)	264.0	0.8			G3/500
BL (0°-30°)	1326.8	4.1	B3/2500		
BM (30°-60°)	2914.9	9.0	B3/5000		
BH (60°-80°)	1702.4	5.3	B3/2500		G3/2500
BVH (80°-90°)	158.2	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°	3785.1	3785.1	3785.1	3785.1	3785.1	3785.1	3785.1	3785.1	3785.1	3785.1
2.5°	4739.3	4772.6	4731.0	4731.0	4591.1	4517.8	4377.9	4271.4	4079.8	4046.5
5°	5601.9	5643.5	5585.2	5560.3	5395.4	5243.9	5009.1	4777.6	4436.2	4401.2
7.5°	6269.6	6322.9	6271.3	6244.7	6098.1	5928.3	5653.5	5330.4	4849.2	4780.9
10°	6814.2	6822.5	6805.9	6815.8	6700.9	6561.1	6279.6	5903.3	5302.1	5208.9
12.5°	7122.2	7160.6	7193.9	7253.8	7233.8	7147.2	6894.1	6444.5	5781.7	5661.8
15°	7267.1	7333.7	7408.7	7546.9	7658.5	7680.1	7486.9	7025.7	6269.6	6124.8
17.5°	7318.7	7382.0	7500.3	7700.1	7939.9	8101.4	8014.8	7590.2	6752.6	6586.0
20°	7580.2	7598.5	7670.1	7860.0	8119.7	8387.8	8452.8	8133.1	7230.5	7042.3
22.5°	8139.7	8103.1	8123.1	8209.7	8396.2	8655.9	8804.1	8612.6	7721.7	7505.3
25°	9063.9	8957.3	8850.8	8750.9	8845.8	8992.3	9160.5	9092.2	8236.3	7961.5
27.5°	10231.3	10101.4	9866.6	9538.5	9423.6	9475.2	9550.2	9536.9	8712.6	8434.5
30°	11380.3	11228.7	10949.0	10474.4	10171.3	10034.8	9978.1	9939.8	9230.4	8934.0
32.5°	12297.8	12177.9	11903.2	11372.0	10932.3	10699.2	10511.0	10374.5	9771.7	9475.2
35°	13100.5	12988.9	12674.2	12094.7	11616.7	11368.6	11122.2	10830.7	10334.5	10034.8
37.5°	13833.2	13721.6	13290.3	12687.5	12206.2	12034.7	11814.9	11320.3	10899.0	10615.9
40°	14296.1	14271.1	13868.2	13185.4	12685.8	12600.9	12527.6	11888.2	11525.2	11262.0
42.5°	14414.4	14469.3	14149.6	13588.4	13112.1	13043.9	13215.4	12531.0	12227.9	11976.4
45°	14129.6	14287.8	14078.0	13696.6	13415.2	13378.6	13824.9	13233.7	13005.6	12775.8
47.5°	13408.5	13676.7	13590.1	13536.8	13496.8	13655.0	14361.1	13979.7	13886.5	13686.6
50°	11953.1	12461.0	12612.6	12948.9	13335.3	13869.8	14849.0	14794.0	14915.6	14714.1
52.5°	9436.9	10136.3	11015.6	11858.2	12839.0	13798.2	15385.2	15963.0	16475.9	16366.0
55°	7790.0	8104.7	8780.8	10326.2	11876.5	13496.8	15626.7	16907.2	18024.6	17926.4
57.5°	6524.4	6805.9	7222.2	8512.7	10421.1	12812.4	15776.5	17483.4	19085.4	19075.4
60°	5167.3	5465.3	5891.6	6805.9	8720.9	11630.1	15743.2	18139.5	20439.2	20522.5
62.5°	3635.2	3963.3	4436.2	5288.8	6984.0	10098.0	15063.8	18614.1	22032.8	22259.3
65°	2389.6	2606.1	2962.5	3698.5	5203.9	8128.1	13766.6	18675.7	23738.1	24121.1
67.5°	1675.2	1758.5	1968.3	2368.0	3430.4	6233.0	11700.0	18037.9	24875.4	25306.7
70°	1307.2	1348.8	1455.4	1615.3	2154.8	4191.4	8965.7	16379.3	24632.3	25081.9
72.5°	1129.0	1169.0	1209.0	1229.0	1445.4	2587.8	6073.1	13695.0	22342.6	22647.3
75°	1024.1	1034.1	1067.4	1060.8	1102.4	1678.6	3505.3	9978.1	17628.3	17523.4
77.5°	860.9	874.3	929.2	920.9	979.2	1147.4	1820.1	6439.5	11428.6	10715.8
80°	729.4	736.0	796.0	786.0	850.9	831.0	929.2	3282.2	4847.5	4106.5
82.5°	253.1	313.1	607.8	626.1	649.4	502.9	536.2	1338.9	1480.4	1134.0
85°	123.2	131.6	309.7	439.6	438.0	253.1	261.4	477.9	466.3	366.4
87.5°	20.0	25.0	36.6	171.5	136.6	66.6	89.9	93.3	96.6	83.3
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°
3785.1	0°	3785.1	3785.1	3785.1	3785.1	3785.1	3785.1	3785.1	3785.1	3785.1	3785.1
3920.0	2.5°	3826.7	3743.5	3568.6	3407.1	3280.5	3159.0	3090.7	3032.4	2999.1	2992.4
4103.2	5°	3930.0	3758.5	3440.4	3172.3	2997.4	2867.6	2799.3	2756.0	2734.3	2721.0
4349.6	7.5°	4078.2	3826.7	3373.8	3069.0	2885.9	2792.6	2757.6	2751.0	2749.3	2751.0
4647.7	10°	4283.0	3938.3	3367.1	3044.1	2890.9	2839.2	2837.6	2839.2	2845.9	2847.6
4972.4	12.5°	4504.5	4053.2	3393.8	3065.7	2954.1	2925.8	2920.8	2919.2	2924.2	2927.5
5300.5	15°	4745.9	4204.7	3438.7	3112.3	3024.1	2994.1	2989.1	2979.1	2977.5	2975.8
5645.2	17.5°	4994.1	4354.6	3488.7	3162.3	3069.0	3027.4	3009.1	2985.8	2967.5	2962.5
6001.5	20°	5245.5	4502.8	3523.7	3187.3	3072.4	3014.1	2977.5	2937.5	2905.9	2887.5
6361.2	22.5°	5513.6	4657.7	3545.3	3180.6	3042.4	2962.5	2895.9	2849.2	2800.9	2769.3
6724.3	25°	5775.1	4792.6	3543.6	3145.6	2984.1	2882.5	2797.6	2737.7	2671.1	2637.7
7098.9	27.5°	6026.5	4914.1	3502.0	3084.0	2900.9	2787.6	2686.0	2614.4	2549.5	2517.8
7476.9	30°	6286.3	5015.7	3437.1	2994.1	2802.6	2677.7	2566.1	2504.5	2446.2	2416.3
7876.6	32.5°	6544.4	5109.0	3345.5	2882.5	2689.4	2569.5	2459.6	2402.9	2368.0	2368.0
8306.2	35°	6817.5	5173.9	3223.9	2752.6	2569.5	2454.6	2368.0	2334.7	2331.3	2311.4
8760.9	37.5°	7105.6	5215.5	3075.7	2619.4	2451.2	2343.0	2316.4	2276.4	2243.1	2199.8
9260.4	40°	7408.7	5257.2	2897.5	2481.2	2326.3	2266.4	2254.7	2201.5	2106.5	2000.0
9826.6	42.5°	7776.7	5285.5	2712.7	2343.0	2194.8	2174.8	2191.5	2099.9	1948.3	1868.4
10509.4	45°	8203.0	5332.1	2542.8	2206.4	2059.9	2059.9	2129.8	2009.9	1885.1	1835.1
11288.7	47.5°	8755.9	5440.4	2384.6	2056.6	1935.0	1968.3	1993.3	1901.7	1831.8	1770.2
12237.9	50°	9555.2	5700.1	2221.4	1905.0	1840.1	1906.7	1871.7	1818.4	1736.8	1686.9
13746.6	52.5°	10547.7	5853.3	2076.6	1768.5	1758.5	1825.1	1775.2	1725.2	1663.6	1597.0
14890.6	55°	11223.7	5881.6	1955.0	1668.6	1703.5	1696.9	1678.6	1633.6	1600.3	1512.0
16019.6	57.5°	11979.8	5938.3	1855.1	1608.6	1668.6	1595.3	1588.6	1550.3	1507.0	1447.1
17396.8	60°	12884.0	6026.5	1768.5	1585.3	1638.6	1528.7	1495.4	1480.4	1437.1	1407.1
19053.7	62.5°	13869.8	6106.5	1680.2	1588.6	1603.6	1463.7	1413.8	1408.8	1382.2	1372.2
20609.1	65°	14542.6	5888.3	1570.3	1585.3	1548.7	1397.1	1333.9	1332.2	1310.5	1307.2
21283.5	67.5°	14307.8	5197.2	1422.1	1538.7	1492.1	1330.5	1260.6	1253.9	1225.6	1227.3
20579.1	70°	13132.1	4211.4	1217.3	1423.8	1422.1	1270.6	1184.0	1162.3	1124.0	1130.7
17893.0	72.5°	10927.3	3120.7	942.5	1232.3	1310.5	1215.6	1095.7	1060.8	1012.5	1019.1
13208.7	75°	7891.6	2121.5	686.1	937.5	1140.7	1150.7	1009.1	949.2	890.9	900.9
7352.1	77.5°	4038.2	1202.3	504.6	646.1	895.9	1045.8	930.9	850.9	837.6	930.9
2119.9	80°	1317.2	602.8	349.7	452.9	587.8	855.9	816.0	724.4	721.1	742.7
444.6	82.5°	393.0	254.8	224.8	298.1	324.7	656.1	704.4	547.9	471.3	496.2
148.2	85°	134.9	123.2	128.2	148.2	154.9	384.7	492.9	363.0	343.0	378.0
33.3	87.5°	31.6	43.3	36.6	33.3	33.3	93.3	191.5	151.5	209.8	139.9
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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<u>180°</u>
3785.1
2992.4
2719.3
2756.0
2849.2
2929.2
2974.1
2967.5
2894.2
2771.0
2637.7
2516.2
2414.6
2369.6
2306.4
2193.1
1985.0
1870.1
1843.4
1768.5
1681.9
1583.6
1513.7
1427.1
1415.5
1372.2
1305.6
1227.3
1137.4
1017.5
904.2
917.5
637.8
512.9
373.0
134.9
0.0

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