

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: P955491

Luminaire Tested: **GALN-SB8B-935-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955491
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-SB8B-935-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 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: 32263 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

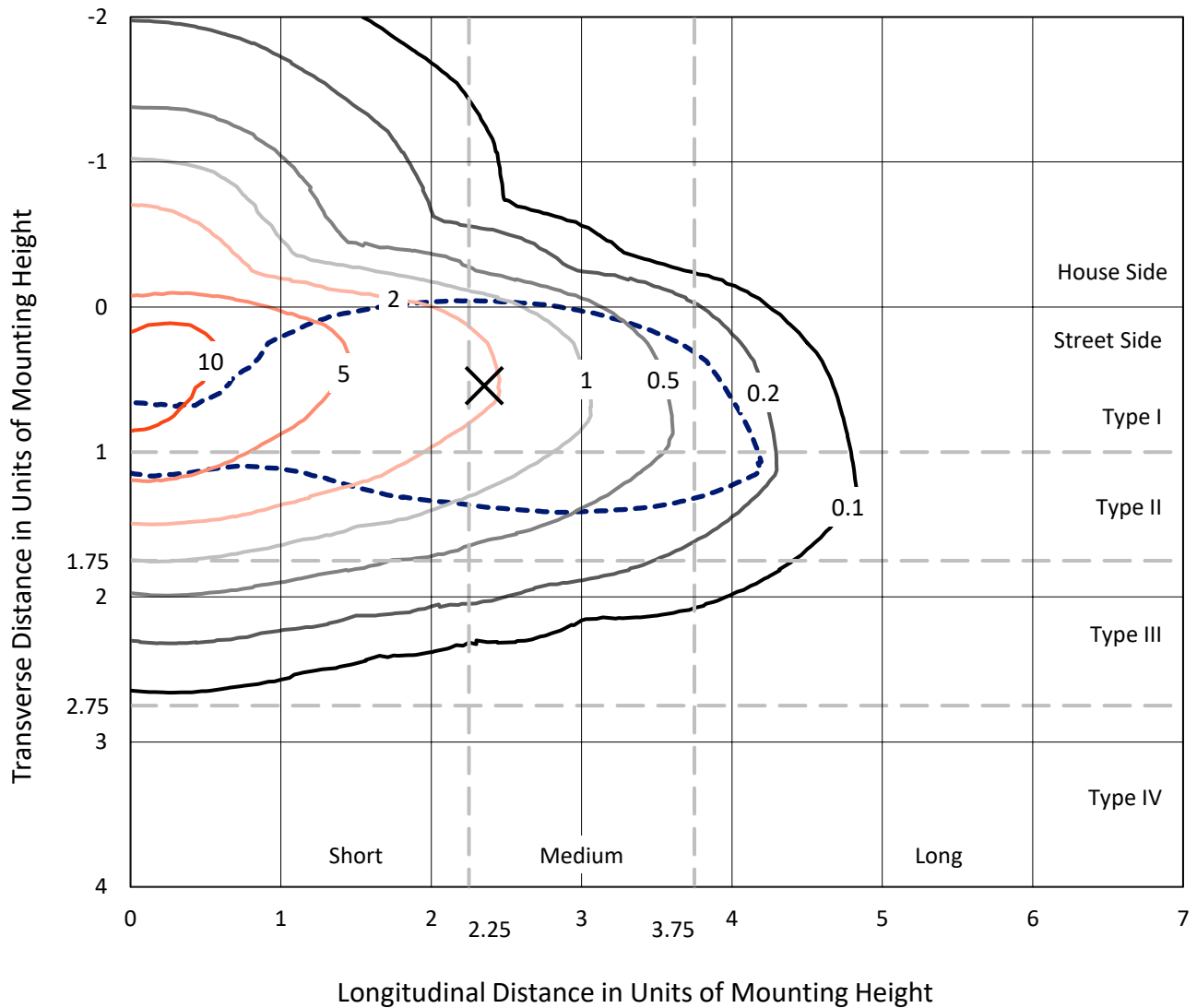
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

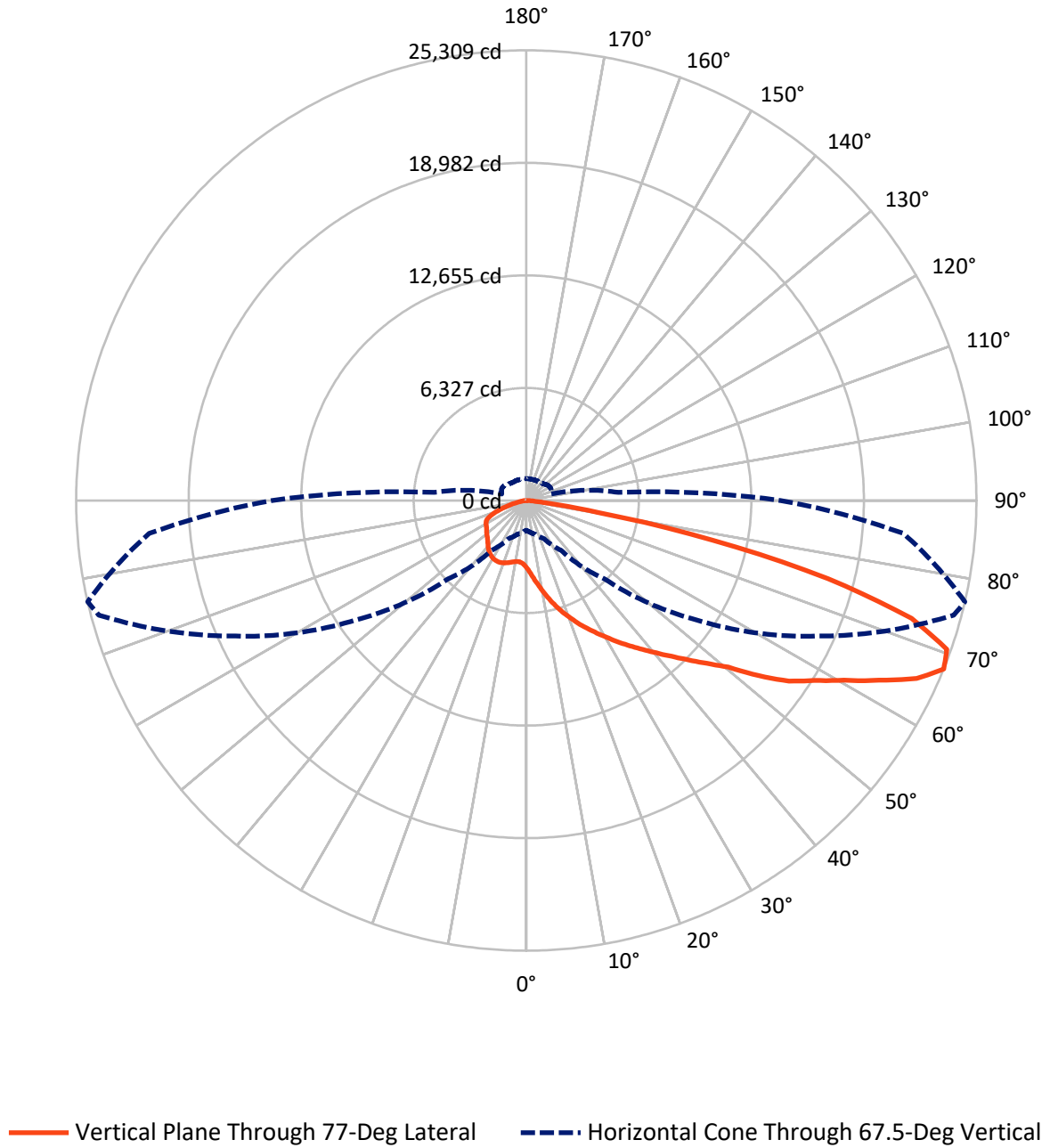
✕ Max cd
 - - - 1/2 Max cd



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	6102.9	0.0	6102.9
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	26160.1	0.0	26160.1
	% Fixture	81.1	0.0	81.1
Total	Lumens	32263.0	0.0	32263.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.8	1.3
10°-20°	1457.7	4.5
20°-30°	2752.3	8.5
30°-40°	4433.9	13.7
40°-50°	6064.7	18.8
50°-60°	6841.0	21.2
60°-70°	6385.3	19.8
70°-80°	3500.2	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°	32263.0	100.0
0°-180°	32263.0	100.0

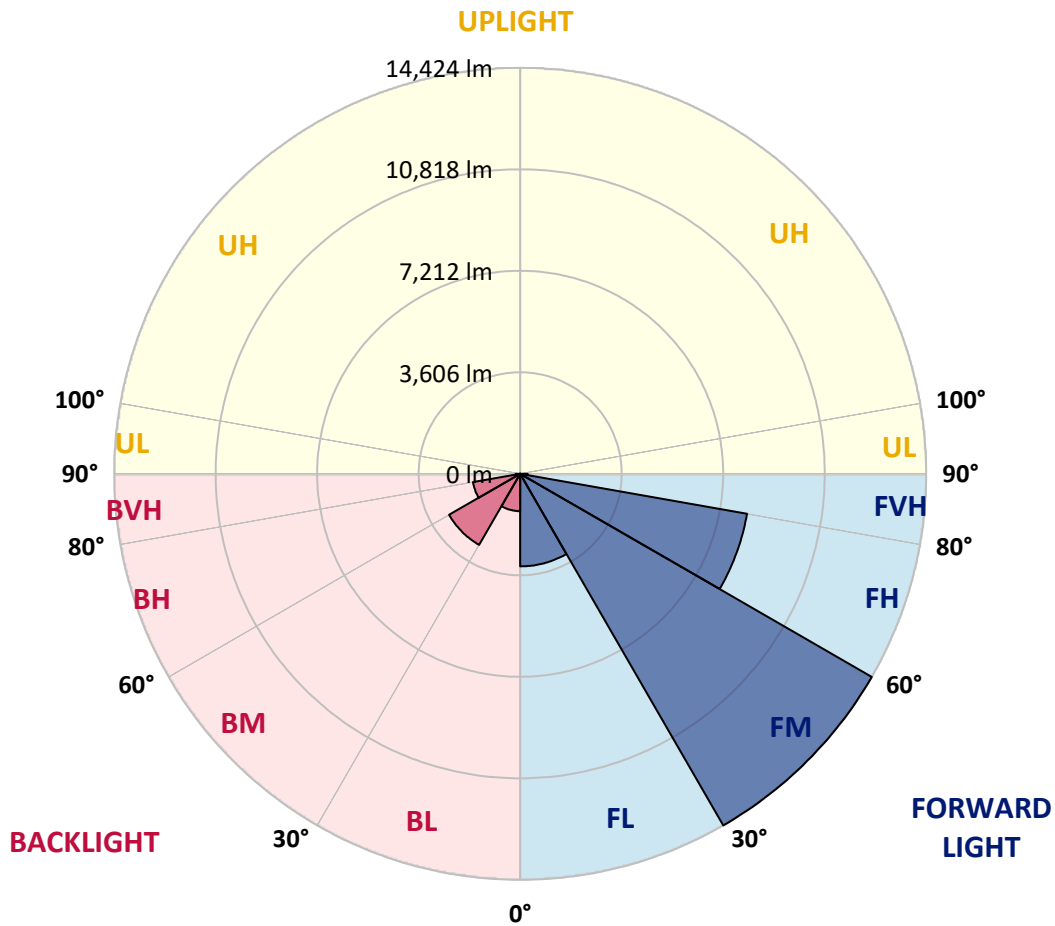


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3288.8	10.2			
FM (30°-60°)	14424.4	44.7			
FH (60°-80°)	8182.9	25.4			G4/12000
FVH (80°-90°)	264.0	0.8			G3/500
BL (0°-30°)	1326.9	4.1	B3/2500		
BM (30°-60°)	2915.2	9.0	B3/5000		
BH (60°-80°)	1702.6	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°	3785.5	3785.5	3785.5	3785.5	3785.5	3785.5	3785.5	3785.5	3785.5	3785.5
2.5°	4739.7	4773.0	4731.4	4731.4	4591.5	4518.2	4378.3	4271.7	4080.2	4046.9
5°	5602.4	5644.0	5585.7	5560.8	5395.9	5244.3	5009.5	4778.0	4436.6	4401.6
7.5°	6270.2	6323.5	6271.9	6245.2	6098.7	5928.8	5654.0	5330.9	4849.6	4781.4
10°	6814.8	6823.1	6806.5	6816.5	6701.6	6561.7	6280.2	5903.8	5302.6	5209.4
12.5°	7122.9	7161.2	7194.5	7254.5	7234.5	7147.9	6894.8	6445.1	5782.3	5662.4
15°	7267.8	7334.4	7409.4	7547.6	7659.2	7680.8	7487.6	7026.3	6270.2	6125.3
17.5°	7319.4	7382.7	7501.0	7700.8	7940.6	8102.2	8015.6	7590.9	6753.2	6586.7
20°	7580.9	7599.2	7670.8	7860.7	8120.5	8388.6	8453.6	8133.8	7231.2	7043.0
22.5°	8140.5	8103.8	8123.8	8210.4	8396.9	8656.7	8805.0	8613.4	7722.5	7506.0
25°	9064.8	8958.2	8851.6	8751.7	8846.6	8993.2	9161.4	9093.1	8237.1	7962.3
27.5°	10232.2	10102.3	9867.5	9539.4	9424.5	9476.1	9551.1	9537.7	8713.4	8435.2
30°	11381.3	11229.8	10950.0	10475.4	10172.3	10035.7	9979.1	9940.8	9231.3	8934.9
32.5°	12299.0	12179.1	11904.3	11373.0	10933.3	10700.2	10512.0	10375.4	9772.6	9476.1
35°	13101.7	12990.1	12675.4	12095.8	11617.8	11369.7	11123.2	10831.8	10335.5	10035.7
37.5°	13834.5	13722.9	13291.6	12688.7	12207.4	12035.8	11816.0	11321.4	10900.0	10616.9
40°	14297.5	14272.5	13869.4	13186.6	12687.0	12602.1	12528.8	11889.3	11526.2	11263.1
42.5°	14415.7	14470.7	14150.9	13589.7	13113.4	13045.1	13216.6	12532.1	12229.0	11977.6
45°	14130.9	14289.1	14079.3	13697.9	13416.5	13379.8	13826.1	13234.9	13006.8	12776.9
47.5°	13409.8	13677.9	13591.3	13538.0	13498.1	13656.3	14362.4	13981.0	13887.8	13687.9
50°	11954.2	12462.2	12613.7	12950.1	13336.5	13871.1	14850.4	14795.4	14917.0	14715.5
52.5°	9437.8	10137.3	11016.6	11859.3	12840.2	13799.5	15386.6	15964.5	16477.5	16367.5
55°	7790.7	8105.5	8781.6	10327.1	11877.6	13498.1	15628.1	16908.8	18026.3	17928.0
57.5°	6525.0	6806.5	7222.8	8513.5	10422.1	12813.6	15778.0	17485.0	19087.1	19077.1
60°	5167.7	5465.8	5892.2	6806.5	8721.7	11631.1	15744.7	18141.2	20441.1	20524.4
62.5°	3635.6	3963.6	4436.6	5289.3	6984.7	10099.0	15065.2	18615.8	22034.9	22261.4
65°	2389.8	2606.3	2962.7	3698.9	5204.4	8128.8	13767.9	18677.5	23740.3	24123.3
67.5°	1675.4	1758.7	1968.5	2368.2	3430.7	6233.6	11701.1	18039.6	24877.7	25309.1
70°	1307.3	1349.0	1455.6	1615.4	2155.0	4191.8	8966.5	16380.9	24634.6	25084.2
72.5°	1129.1	1169.1	1209.1	1229.1	1445.6	2588.0	6073.7	13696.2	22344.7	22649.4
75°	1024.2	1034.2	1067.5	1060.9	1102.5	1678.7	3505.7	9979.1	17629.9	17525.0
77.5°	861.0	874.3	929.3	921.0	979.3	1147.5	1820.3	6440.1	11429.6	10716.8
80°	729.4	736.1	796.1	786.1	851.0	831.0	929.3	3282.5	4848.0	4106.9
82.5°	253.1	313.1	607.9	626.2	649.5	503.0	536.3	1339.0	1480.5	1134.1
85°	123.2	131.6	309.8	439.7	438.0	253.1	261.5	478.0	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°
3785.5	0°	3785.5	3785.5	3785.5	3785.5	3785.5	3785.5	3785.5	3785.5	3785.5	3785.5
3920.3	2.5°	3827.1	3743.8	3569.0	3407.4	3280.8	3159.3	3091.0	3032.7	2999.4	2992.7
4103.5	5°	3930.3	3758.8	3440.7	3172.6	2997.7	2867.8	2799.5	2756.2	2734.6	2721.3
4350.0	7.5°	4078.6	3827.1	3374.1	3069.3	2886.1	2792.9	2757.9	2751.2	2749.6	2751.2
4648.1	10°	4283.4	3938.7	3367.4	3044.3	2891.1	2839.5	2837.8	2839.5	2846.2	2847.8
4972.9	12.5°	4504.9	4053.6	3394.1	3066.0	2954.4	2926.1	2921.1	2919.4	2924.4	2927.8
5301.0	15°	4746.4	4205.1	3439.0	3112.6	3024.4	2994.4	2989.4	2979.4	2977.7	2976.1
5645.7	17.5°	4994.5	4355.0	3489.0	3162.6	3069.3	3027.7	3009.4	2986.1	2967.7	2962.7
6002.1	20°	5246.0	4503.2	3524.0	3187.6	3072.7	3014.4	2977.7	2937.8	2906.1	2887.8
6361.8	22.5°	5514.1	4658.1	3545.6	3180.9	3042.7	2962.7	2896.1	2849.5	2801.2	2769.6
6724.9	25°	5775.6	4793.0	3544.0	3145.9	2984.4	2882.8	2797.9	2737.9	2671.3	2638.0
7099.6	27.5°	6027.1	4914.6	3502.3	3084.3	2901.1	2787.9	2686.3	2614.7	2549.7	2518.1
7477.6	30°	6286.9	5016.2	3437.4	2994.4	2802.9	2678.0	2566.4	2504.8	2446.5	2416.5
7877.3	32.5°	6545.0	5109.4	3345.8	2882.8	2689.6	2569.7	2459.8	2403.2	2368.2	2368.2
8307.0	35°	6818.1	5174.4	3224.2	2752.9	2569.7	2454.8	2368.2	2334.9	2331.6	2311.6
8761.7	37.5°	7106.3	5216.0	3076.0	2619.7	2451.5	2343.2	2316.6	2276.6	2243.3	2200.0
9261.3	40°	7409.4	5257.7	2897.8	2481.4	2326.6	2266.6	2255.0	2201.7	2106.7	2000.1
9827.5	42.5°	7777.4	5286.0	2712.9	2343.2	2195.0	2175.0	2191.7	2100.1	1948.5	1868.6
10510.3	45°	8203.8	5332.6	2543.1	2206.7	2060.1	2060.1	2130.0	2010.1	1885.2	1835.3
11289.7	47.5°	8756.7	5440.9	2384.9	2056.8	1935.2	1968.5	1993.5	1901.9	1831.9	1770.3
12239.0	50°	9556.1	5700.7	2221.6	1905.2	1840.3	1906.9	1871.9	1818.6	1737.0	1687.0
13747.9	52.5°	10548.6	5853.9	2076.8	1768.7	1758.7	1825.3	1775.3	1725.4	1663.7	1597.1
14892.0	55°	11224.8	5882.2	1955.2	1668.7	1703.7	1697.0	1678.7	1633.8	1600.4	1512.2
16021.1	57.5°	11980.9	5938.8	1855.3	1608.8	1668.7	1595.5	1588.8	1550.5	1507.2	1447.2
17398.4	60°	12885.2	6027.1	1768.7	1585.5	1638.8	1528.8	1495.5	1480.5	1437.2	1407.3
19055.5	62.5°	13871.1	6107.0	1680.4	1588.8	1603.8	1463.9	1413.9	1408.9	1382.3	1372.3
20611.0	65°	14543.9	5888.9	1570.5	1585.5	1548.8	1397.3	1334.0	1332.3	1310.7	1307.3
21285.5	67.5°	14309.1	5197.7	1422.3	1538.8	1492.2	1330.7	1260.7	1254.0	1225.7	1227.4
20581.0	70°	13133.3	4211.8	1217.4	1423.9	1422.3	1270.7	1184.1	1162.4	1124.1	1130.8
17894.7	72.5°	10928.3	3121.0	942.6	1232.4	1310.7	1215.7	1095.8	1060.9	1012.6	1019.2
13209.9	75°	7892.3	2121.7	686.1	937.6	1140.8	1150.8	1009.2	949.3	891.0	901.0
7352.7	77.5°	4038.6	1202.4	504.6	646.2	896.0	1045.9	931.0	851.0	837.7	931.0
2120.1	80°	1317.3	602.9	349.7	453.0	587.9	856.0	816.0	724.4	721.1	742.8
444.7	82.5°	393.0	254.8	224.8	298.1	324.8	656.2	704.5	547.9	471.3	496.3
148.2	85°	134.9	123.2	128.2	148.2	154.9	384.7	493.0	363.1	343.1	378.0
33.3	87.5°	31.6	43.3	36.6	33.3	33.3	93.3	191.5	151.6	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>
3785.5
2992.7
2719.6
2756.2
2849.5
2929.4
2974.4
2967.7
2894.5
2771.2
2638.0
2516.4
2414.8
2369.9
2306.6
2193.3
1985.2
1870.2
1843.6
1768.7
1682.1
1583.8
1513.8
1427.2
1415.6
1372.3
1305.7
1227.4
1137.5
1017.6
904.3
917.6
637.8
512.9
373.0
134.9
0.0

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