

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: P948834

Luminaire Tested: **GALN-SB3D-735-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948834
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-SB3D-735-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31098 lumens
Efficiency: N/A
Efficacy: 142.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

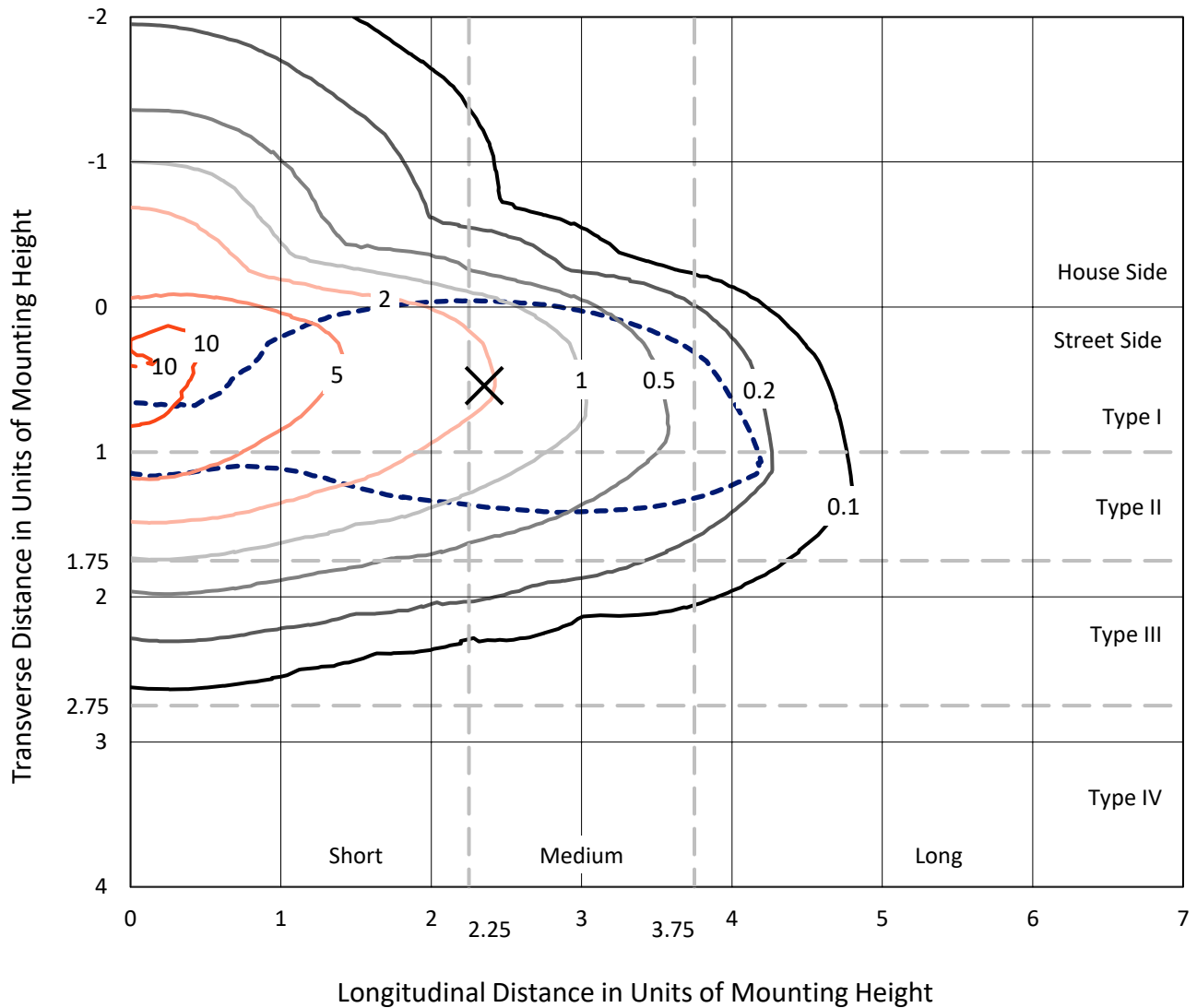
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

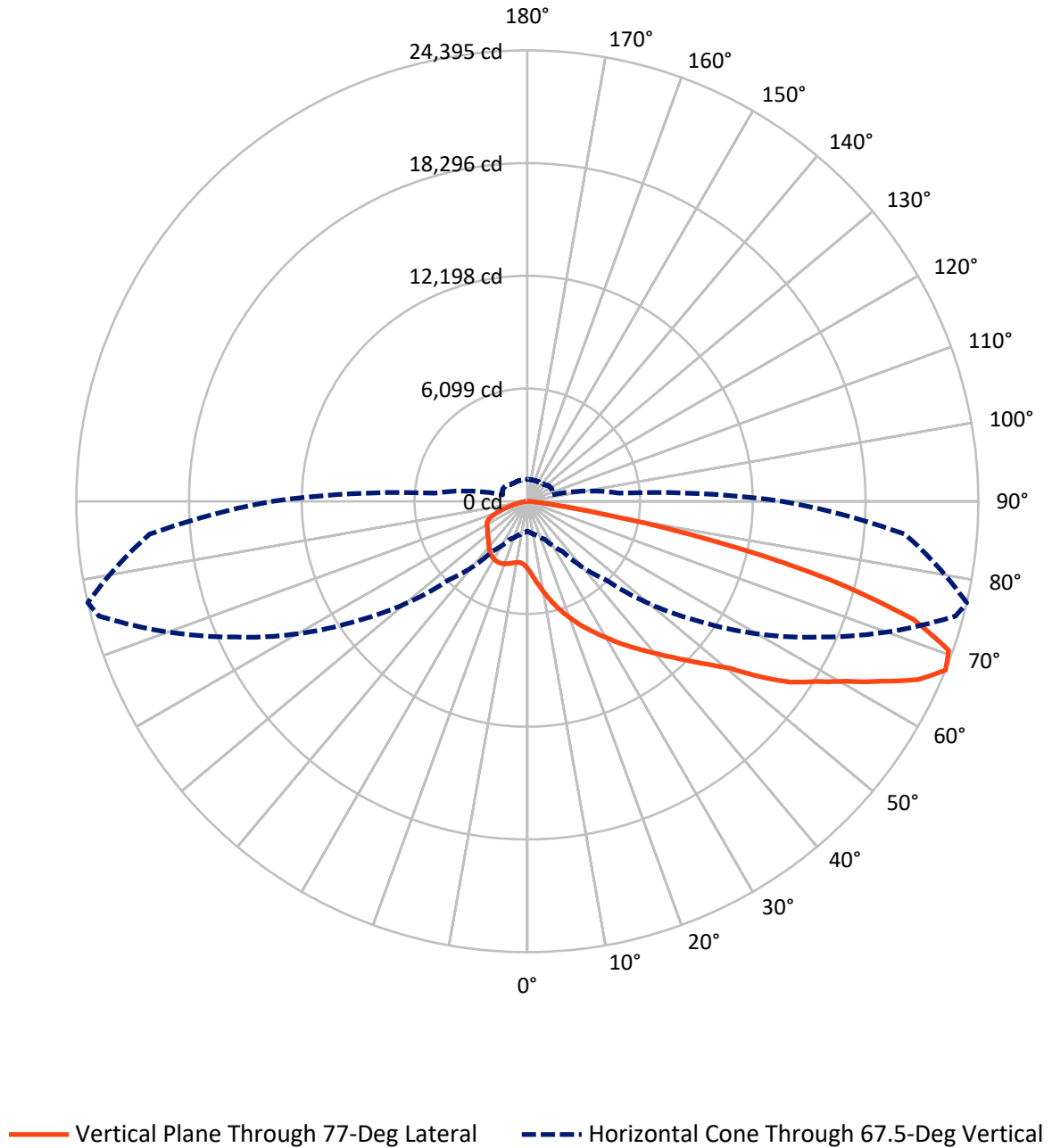
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 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	5882.5	0.0	5882.5
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	25215.5	0.0	25215.5
	% Fixture	81.1	0.0	81.1
Total	Lumens	31098.0	0.0	31098.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	391.1	1.3
10°-20°	1405.1	4.5
20°-30°	2652.9	8.5
30°-40°	4273.8	13.7
40°-50°	5845.7	18.8
50°-60°	6594.0	21.2
60°-70°	6154.7	19.8
70°-80°	3373.8	10.8
80°-90°	407.0	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°	31098.0	100.0
0°-180°	31098.0	100.0



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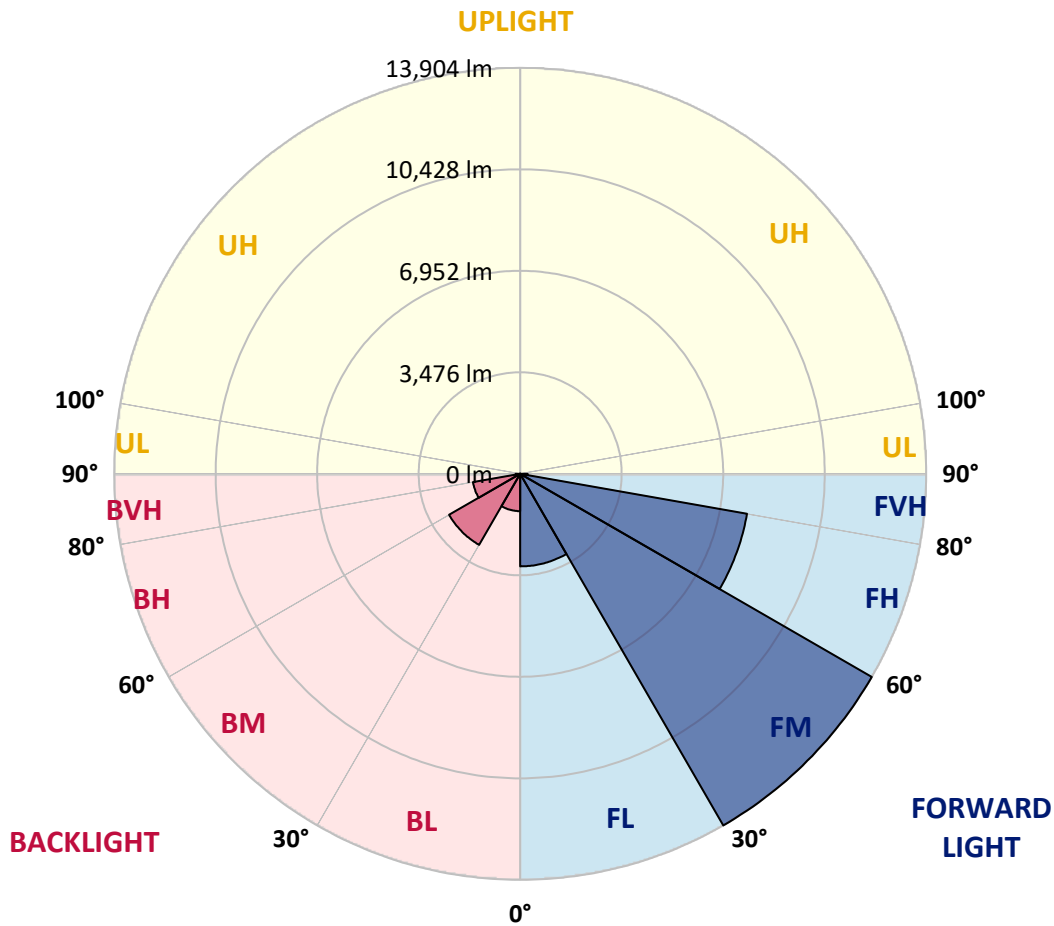
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3170.0	10.2			
FM (30°-60°)	13903.6	44.7			
FH (60°-80°)	7887.4	25.4			G4/12000
FVH (80°-90°)	254.5	0.8			G3/500
BL (0°-30°)	1279.0	4.1	B3/2500		
BM (30°-60°)	2809.9	9.0	B3/5000		
BH (60°-80°)	1641.1	5.3	B3/2500		G3/2500
BVH (80°-90°)	152.5	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°	3648.8	3648.8	3648.8	3648.8	3648.8	3648.8	3648.8	3648.8	3648.8	3648.8
2.5°	4568.6	4600.7	4560.6	4560.6	4425.7	4355.1	4220.2	4117.5	3932.9	3900.8
5°	5400.1	5440.2	5384.1	5360.0	5201.1	5055.0	4828.6	4605.5	4276.4	4242.7
7.5°	6043.8	6095.2	6045.4	6019.7	5878.5	5714.7	5449.9	5138.4	4674.5	4608.7
10°	6568.7	6576.8	6560.7	6570.3	6459.6	6324.7	6053.4	5690.7	5111.2	5021.3
12.5°	6865.7	6902.6	6934.7	6992.5	6973.3	6889.8	6645.8	6212.4	5573.5	5457.9
15°	7005.4	7069.6	7141.8	7275.0	7382.6	7403.5	7217.3	6772.6	6043.8	5904.2
17.5°	7055.1	7116.1	7230.1	7422.7	7653.9	7809.6	7726.1	7316.8	6509.3	6348.8
20°	7307.2	7324.8	7393.8	7576.8	7827.3	8085.7	8148.3	7840.1	6970.0	6788.7
22.5°	7846.5	7811.2	7830.5	7913.9	8093.7	8344.2	8487.0	8302.4	7443.6	7234.9
25°	8737.4	8634.7	8532.0	8435.7	8527.2	8668.4	8830.5	8764.7	7939.6	7674.8
27.5°	9862.7	9737.5	9511.2	9194.9	9084.2	9133.9	9206.2	9193.3	8398.7	8130.7
30°	10970.4	10824.3	10554.6	10097.1	9804.9	9673.3	9618.7	9581.8	8898.0	8612.2
32.5°	11854.9	11739.3	11474.4	10962.3	10538.5	10313.8	10132.4	10000.8	9419.7	9133.9
35°	12628.6	12521.0	12217.7	11659.0	11198.3	10959.1	10721.5	10440.6	9962.3	9673.3
37.5°	13334.9	13227.4	12811.6	12230.5	11766.6	11601.2	11389.3	10912.6	10506.4	10233.5
40°	13781.2	13757.1	13368.6	12710.5	12228.9	12147.0	12076.4	11460.0	11110.0	10856.4
42.5°	13895.2	13948.1	13639.9	13098.9	12639.8	12574.0	12739.4	12079.6	11787.4	11545.0
45°	13620.7	13773.2	13570.9	13203.3	12932.0	12896.7	13326.9	12757.0	12537.1	12315.6
47.5°	12925.6	13184.0	13100.5	13049.2	13010.7	13163.2	13843.8	13476.2	13386.3	13193.7
50°	11522.6	12012.2	12158.3	12482.5	12854.9	13370.2	14314.1	14261.2	14378.3	14184.1
52.5°	9097.0	9771.2	10618.8	11431.1	12376.6	13301.2	14831.0	15388.0	15882.5	15776.5
55°	7509.4	7812.8	8464.5	9954.2	11448.7	13010.7	15063.8	16298.2	17375.4	17280.7
57.5°	6289.4	6560.7	6962.0	8206.1	10045.7	12350.9	15208.3	16853.7	18397.9	18388.3
60°	4981.1	5268.5	5679.4	6560.7	8406.8	11211.2	15176.2	17486.1	19703.0	19783.3
62.5°	3504.3	3820.5	4276.4	5098.3	6732.5	9734.3	14521.2	17943.6	21239.2	21457.5
65°	2303.6	2512.2	2855.8	3565.3	5016.4	7835.3	13270.7	18003.0	22883.0	23252.2
67.5°	1614.9	1695.2	1897.4	2282.7	3306.8	6008.5	11278.6	17388.2	23979.4	24395.2
70°	1260.1	1300.3	1403.0	1557.1	2077.2	4040.4	8642.7	15789.4	23745.0	24178.5
72.5°	1088.4	1126.9	1165.4	1184.7	1393.4	2494.6	5854.4	13201.7	21537.8	21831.6
75°	987.2	996.9	1029.0	1022.6	1062.7	1618.1	3379.1	9618.7	16993.3	16892.2
77.5°	829.9	842.8	895.7	887.7	943.9	1106.0	1754.6	6207.5	11016.9	10329.9
80°	703.1	709.5	767.3	757.7	820.3	801.0	895.7	3164.0	4672.9	3958.6
82.5°	244.0	301.8	585.9	603.6	626.1	484.8	516.9	1290.6	1427.1	1093.2
85°	118.8	126.8	298.6	423.8	422.2	244.0	252.0	460.7	449.5	353.2
87.5°	19.3	24.1	35.3	165.3	131.6	64.2	86.7	89.9	93.1	80.3
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°
3648.8	0°	3648.8	3648.8	3648.8	3648.8	3648.8	3648.8	3648.8	3648.8	3648.8	3648.8
3778.8	2.5°	3688.9	3608.6	3440.1	3284.4	3162.4	3045.2	2979.4	2923.2	2891.1	2884.7
3955.4	5°	3788.4	3623.1	3316.5	3058.0	2889.5	2764.3	2698.4	2656.7	2635.8	2623.0
4192.9	7.5°	3931.3	3688.9	3252.3	2958.5	2781.9	2692.0	2658.3	2651.9	2650.3	2651.9
4480.3	10°	4128.7	3796.4	3245.8	2934.4	2786.7	2737.0	2735.4	2737.0	2743.4	2745.0
4793.3	12.5°	4342.2	3907.2	3271.5	2955.3	2847.7	2820.4	2815.6	2814.0	2818.8	2822.1
5109.6	15°	4575.0	4053.3	3314.9	3000.2	2915.2	2886.3	2881.4	2871.8	2870.2	2868.6
5441.8	17.5°	4814.2	4197.8	3363.0	3048.4	2958.5	2918.4	2900.7	2878.2	2860.6	2855.8
5785.4	20°	5056.6	4340.6	3396.7	3072.5	2961.7	2905.5	2870.2	2831.7	2801.2	2783.5
6132.1	22.5°	5315.0	4489.9	3417.6	3066.1	2932.8	2855.8	2791.6	2746.6	2700.1	2669.6
6482.0	25°	5567.1	4619.9	3416.0	3032.3	2876.6	2778.7	2696.8	2639.1	2574.8	2542.7
6843.2	27.5°	5809.4	4737.1	3375.9	2972.9	2796.4	2687.2	2589.3	2520.3	2457.7	2427.2
7207.6	30°	6059.9	4835.1	3313.3	2886.3	2701.7	2581.3	2473.7	2414.3	2358.1	2329.2
7592.9	32.5°	6308.7	4924.9	3225.0	2778.7	2592.5	2476.9	2371.0	2316.4	2282.7	2282.7
8007.0	35°	6571.9	4987.6	3107.8	2653.5	2476.9	2366.2	2282.7	2250.6	2247.4	2228.1
8445.3	37.5°	6849.7	5027.7	2964.9	2525.1	2362.9	2258.6	2232.9	2194.4	2162.3	2120.6
8926.9	40°	7141.8	5067.8	2793.2	2391.8	2242.6	2184.8	2173.5	2122.2	2030.7	1927.9
9472.7	42.5°	7496.6	5095.1	2615.0	2258.6	2115.7	2096.5	2112.5	2024.2	1878.2	1801.1
10130.8	45°	7907.5	5140.1	2451.2	2127.0	1985.7	1985.7	2053.1	1937.6	1817.2	1769.0
10882.1	47.5°	8440.5	5244.4	2298.7	1982.5	1865.3	1897.4	1921.5	1833.2	1765.8	1706.4
11797.1	50°	9211.0	5494.8	2141.4	1836.4	1773.8	1838.0	1804.3	1752.9	1674.3	1626.1
13251.4	52.5°	10167.7	5642.5	2001.8	1704.8	1695.2	1759.4	1711.2	1663.1	1603.7	1539.4
14354.3	55°	10819.5	5669.8	1884.6	1608.5	1642.2	1635.8	1618.1	1574.8	1542.7	1457.6
15442.6	57.5°	11548.3	5724.4	1788.3	1550.7	1608.5	1537.8	1531.4	1494.5	1452.8	1395.0
16770.2	60°	12419.9	5809.4	1704.8	1528.2	1579.6	1473.6	1441.5	1427.1	1385.3	1356.4
18367.4	62.5°	13370.2	5886.5	1619.7	1531.4	1545.9	1411.0	1362.9	1358.1	1332.4	1322.7
19866.7	65°	14018.8	5676.2	1513.8	1528.2	1492.9	1346.8	1285.8	1284.2	1263.3	1260.1
20516.9	67.5°	13792.4	5010.0	1370.9	1483.3	1438.3	1282.6	1215.2	1208.8	1181.5	1183.1
19837.8	70°	12659.1	4059.7	1173.4	1372.5	1370.9	1224.8	1141.3	1120.5	1083.6	1090.0
17248.5	72.5°	10533.7	3008.3	908.6	1187.9	1263.3	1171.8	1056.3	1022.6	976.0	982.4
12732.9	75°	7607.3	2045.1	661.4	903.8	1099.6	1109.2	972.8	915.0	858.8	868.4
7087.2	77.5°	3892.8	1159.0	486.4	622.8	863.6	1008.1	897.3	820.3	807.4	897.3
2043.5	80°	1269.8	581.1	337.1	436.6	566.7	825.1	786.6	698.3	695.1	715.9
428.6	82.5°	378.8	245.6	216.7	287.3	313.0	632.5	679.0	528.1	454.3	478.4
142.9	85°	130.0	118.8	123.6	142.9	149.3	370.8	475.2	349.9	330.7	364.4
32.1	87.5°	30.5	41.7	35.3	32.1	32.1	89.9	184.6	146.1	202.3	134.8
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>
3648.8
2884.7
2621.4
2656.7
2746.6
2823.7
2867.0
2860.6
2789.9
2671.2
2542.7
2425.6
2327.6
2284.3
2223.3
2114.1
1913.5
1802.7
1777.0
1704.8
1621.3
1526.6
1459.2
1375.7
1364.5
1322.7
1258.5
1183.1
1096.4
980.8
871.7
884.5
614.8
494.4
359.6
130.0
0.0

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