

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: P953496

Luminaire Tested: **GALN-SB7A-740-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953496
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-SB7A-740-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34377 lumens
Efficiency: N/A
Efficacy: 172.7 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

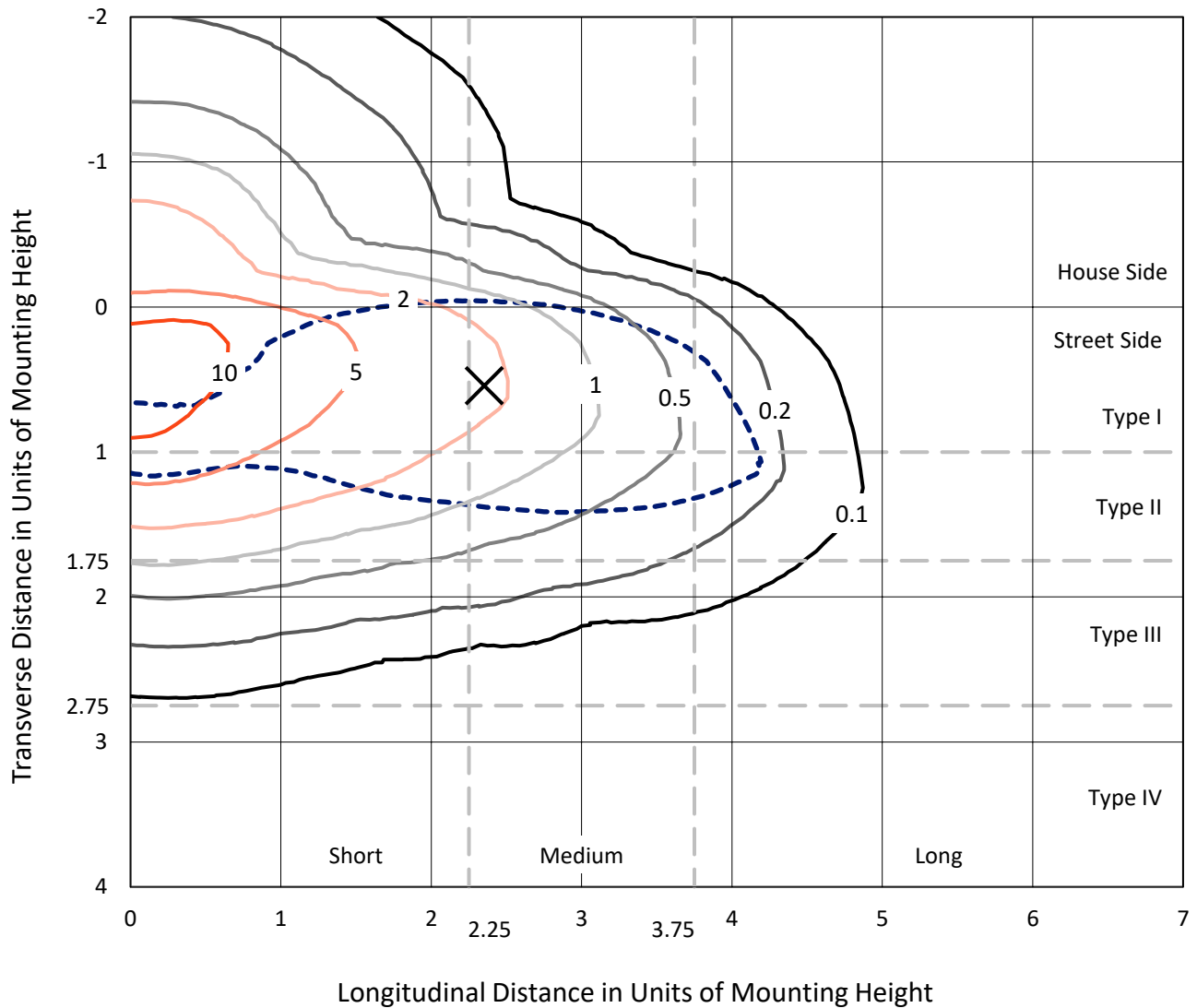
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

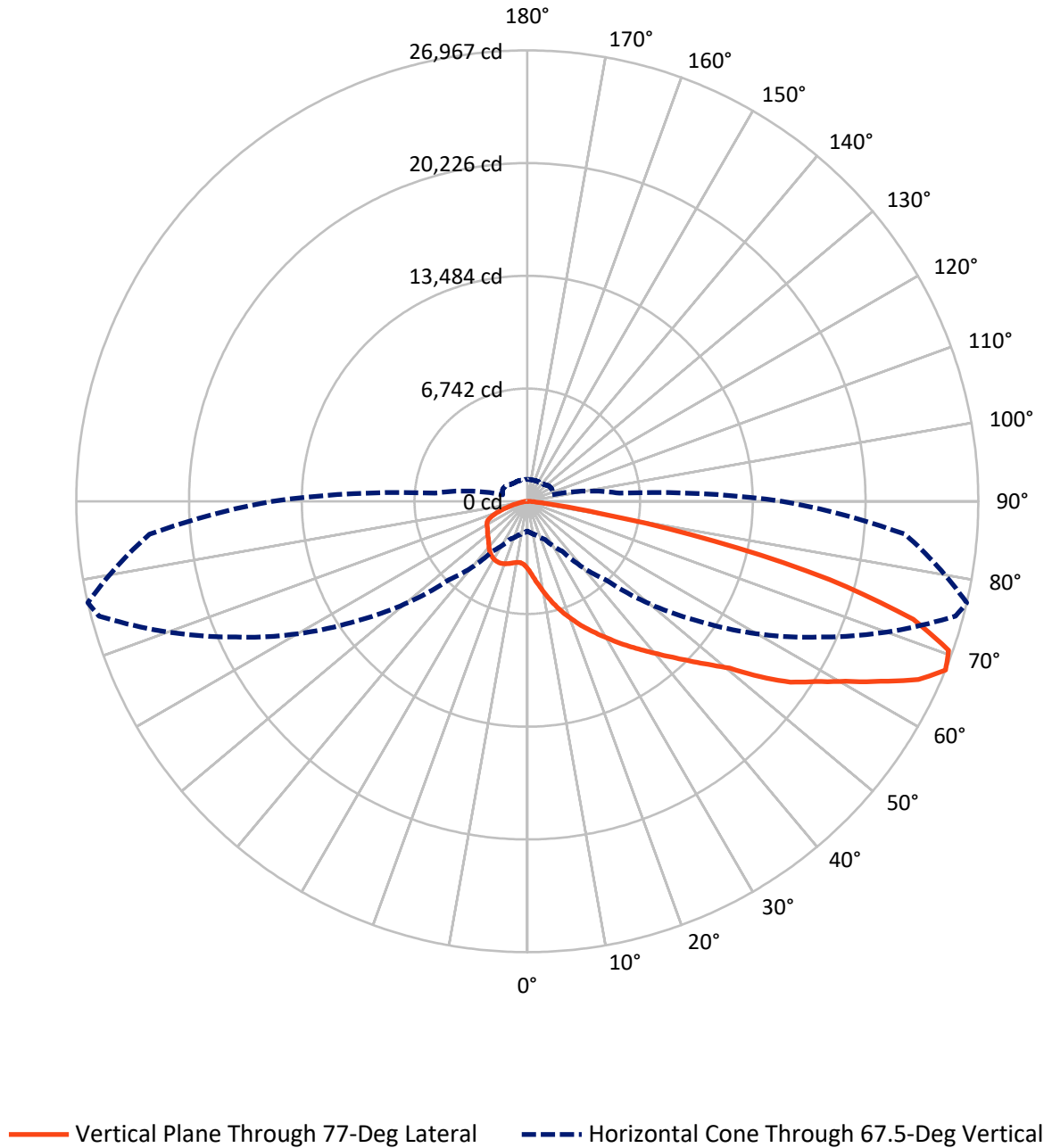
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 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	6502.7	0.0	6502.7
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	27874.3	0.0	27874.3
	% Fixture	81.1	0.0	81.1
Total	Lumens	34377.0	0.0	34377.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	432.3	1.3
10°-20°	1553.2	4.5
20°-30°	2932.6	8.5
30°-40°	4724.4	13.7
40°-50°	6462.1	18.8
50°-60°	7289.3	21.2
60°-70°	6803.6	19.8
70°-80°	3729.5	10.8
80°-90°	449.9	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°	34377.0	100.0
0°-180°	34377.0	100.0

Coefficient of Utilization



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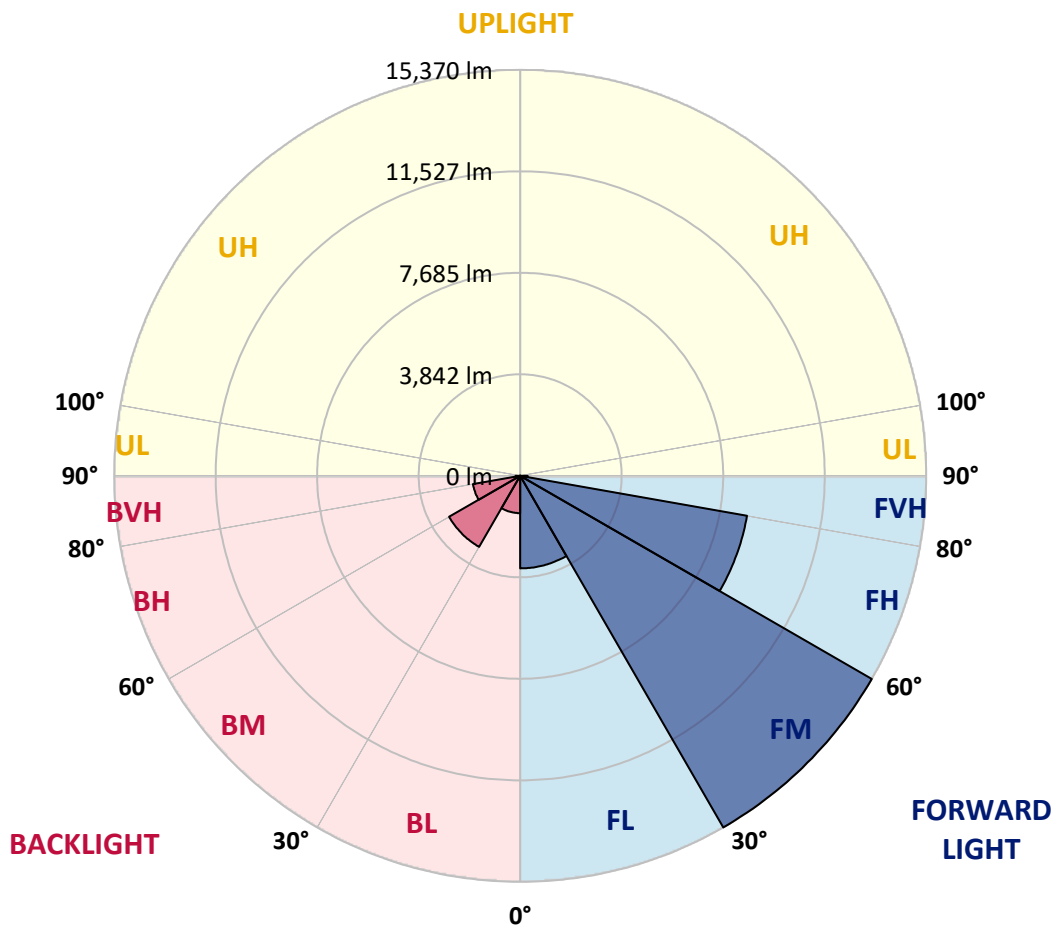
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3504.3	10.2			
FM (30°-60°)	15369.6	44.7			
FH (60°-80°)	8719.0	25.4			G4/12000
FVH (80°-90°)	281.3	0.8			G3/500
BL (0°-30°)	1413.8	4.1	B3/2500		
BM (30°-60°)	3106.2	9.0	B3/5000		
BH (60°-80°)	1814.2	5.3	B3/2500		G3/2500
BVH (80°-90°)	168.5	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°	4033.5	4033.5	4033.5	4033.5	4033.5	4033.5	4033.5	4033.5	4033.5	4033.5
2.5°	5050.3	5085.8	5041.4	5041.4	4892.4	4814.3	4665.2	4551.7	4347.6	4312.1
5°	5969.5	6013.9	5951.7	5925.1	5749.5	5588.0	5337.8	5091.1	4727.3	4690.1
7.5°	6681.1	6737.9	6682.9	6654.5	6498.3	6317.3	6024.5	5680.2	5167.4	5094.7
10°	7261.3	7270.2	7252.5	7263.1	7140.7	6991.6	6691.7	6290.7	5650.1	5550.7
12.5°	7589.6	7630.4	7665.9	7729.8	7708.5	7616.3	7346.5	6867.4	6161.1	6033.4
15°	7744.0	7815.0	7894.9	8042.1	8161.0	8184.1	7978.3	7486.7	6681.1	6526.7
17.5°	7799.0	7866.5	7992.5	8205.4	8460.9	8633.1	8540.8	8088.3	7195.7	7018.2
20°	8077.6	8097.1	8173.5	8375.7	8652.6	8938.3	9007.5	8666.8	7705.0	7504.5
22.5°	8673.9	8634.8	8656.1	8748.4	8947.1	9224.0	9381.9	9177.8	8228.5	7997.8
25°	9658.7	9545.2	9431.6	9325.1	9426.3	9582.4	9761.6	9688.9	8776.8	8484.0
27.5°	10902.7	10764.3	10514.0	10164.5	10042.0	10097.0	10176.9	10162.7	9284.3	8988.0
30°	12127.1	11965.6	11667.5	11161.7	10838.8	10693.3	10632.9	10592.1	9836.2	9520.3
32.5°	13104.9	12977.1	12684.3	12118.2	11649.7	11401.3	11200.8	11055.3	10412.9	10097.0
35°	13960.2	13841.3	13505.9	12888.4	12379.1	12114.7	11852.0	11541.5	11012.7	10693.3
37.5°	14741.0	14622.1	14162.5	13520.1	13007.3	12824.5	12590.2	12063.2	11614.3	11312.6
40°	15234.3	15207.7	14778.2	14050.7	13518.3	13427.8	13349.7	12668.3	12281.5	12001.1
42.5°	15360.3	15418.8	15078.1	14480.1	13972.6	13899.8	14082.6	13353.3	13030.3	12762.4
45°	15056.8	15225.4	15001.8	14595.4	14295.6	14256.5	14732.1	14102.1	13859.0	13614.1
47.5°	14288.5	14574.2	14481.9	14425.1	14382.5	14551.1	15303.5	14897.1	14797.7	14584.8
50°	12737.5	13278.8	13440.2	13798.7	14210.4	14780.0	15823.4	15764.9	15894.4	15679.7
52.5°	10056.2	10801.5	11738.5	12636.4	13681.6	14703.7	16394.8	17010.6	17557.1	17440.0
55°	8301.2	8636.6	9357.1	11003.8	12655.9	14382.5	16652.1	18016.7	19207.4	19102.7
57.5°	6952.6	7252.5	7696.1	9071.4	11105.0	13653.2	16811.8	18630.7	20337.8	20327.2
60°	5506.3	5824.0	6278.3	7252.5	9293.2	12393.3	16776.3	19329.9	21780.5	21869.2
62.5°	3873.8	4223.4	4727.3	5635.9	7442.3	10760.7	16052.3	19835.6	23478.7	23720.0
65°	2546.4	2777.1	3156.9	3941.2	5545.4	8661.4	14670.0	19901.3	25295.8	25704.0
67.5°	1785.2	1873.9	2097.5	2523.4	3655.5	6642.0	12467.8	19221.6	26507.8	26967.4
70°	1393.0	1437.4	1550.9	1721.3	2296.2	4466.5	9554.0	17454.2	26248.7	26727.9
72.5°	1203.1	1245.7	1288.3	1309.6	1540.3	2757.6	6471.7	14593.7	23808.8	24133.5
75°	1091.3	1102.0	1137.5	1130.4	1174.7	1788.7	3735.4	10632.9	18785.1	18673.3
77.5°	917.4	931.6	990.2	981.3	1043.4	1222.6	1939.6	6862.1	12178.5	11419.1
80°	777.2	784.3	848.2	837.6	906.8	885.5	990.2	3497.6	5165.6	4376.0
82.5°	269.7	333.6	647.7	667.2	692.1	535.9	571.4	1426.7	1577.6	1208.4
85°	131.3	140.2	330.1	468.5	466.7	269.7	278.6	509.3	496.9	390.4
87.5°	21.3	26.6	39.0	182.8	145.5	71.0	95.8	99.4	102.9	88.7
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°
4033.5	0°	4033.5	4033.5	4033.5	4033.5	4033.5	4033.5	4033.5	4033.5	4033.5	4033.5
4177.2	2.5°	4077.9	3989.1	3802.8	3630.7	3495.8	3366.3	3293.5	3231.4	3195.9	3188.8
4372.4	5°	4187.9	4005.1	3666.2	3380.5	3194.1	3055.7	2983.0	2936.8	2913.8	2899.6
4635.1	7.5°	4345.8	4077.9	3595.2	3270.4	3075.2	2975.9	2938.6	2931.5	2929.7	2931.5
4952.7	10°	4564.1	4196.7	3588.1	3243.8	3080.6	3025.6	3023.8	3025.6	3032.7	3034.4
5298.7	12.5°	4800.1	4319.2	3616.5	3266.9	3148.0	3117.8	3112.5	3110.7	3116.1	3119.6
5648.3	15°	5057.4	4480.7	3664.4	3316.6	3222.5	3190.6	3185.3	3174.6	3172.8	3171.1
6015.6	17.5°	5321.8	4640.4	3717.6	3369.8	3270.4	3226.1	3206.6	3181.7	3162.2	3156.9
6395.4	20°	5589.7	4798.3	3754.9	3396.4	3274.0	3211.9	3172.8	3130.3	3096.5	3077.0
6778.7	22.5°	5875.4	4963.3	3778.0	3389.3	3242.1	3156.9	3085.9	3036.2	2984.7	2951.0
7165.5	25°	6154.0	5107.1	3776.2	3352.1	3179.9	3071.7	2981.2	2917.3	2846.3	2810.8
7564.8	27.5°	6422.0	5236.6	3731.8	3286.4	3091.2	2970.6	2862.3	2786.0	2716.8	2683.1
7967.6	30°	6698.8	5344.9	3662.6	3190.6	2986.5	2853.4	2734.5	2668.9	2606.8	2574.8
8393.5	32.5°	6973.9	5444.2	3565.0	3071.7	2865.9	2738.1	2621.0	2560.6	2523.4	2523.4
8851.3	35°	7264.9	5513.4	3435.5	2933.3	2738.1	2615.6	2523.4	2487.9	2484.3	2463.0
9335.8	37.5°	7571.9	5557.8	3277.5	2791.3	2612.1	2496.8	2468.4	2425.8	2390.3	2344.1
9868.1	40°	7894.9	5602.2	3087.7	2644.0	2479.0	2415.1	2402.7	2345.9	2244.8	2131.2
10471.5	42.5°	8287.0	5632.3	2890.7	2496.8	2338.8	2317.5	2335.3	2237.7	2076.2	1991.0
11199.0	45°	8741.3	5682.0	2709.7	2351.2	2195.1	2195.1	2269.6	2141.8	2008.8	1955.5
12029.5	47.5°	9330.4	5797.4	2541.1	2191.5	2062.0	2097.5	2124.1	2026.5	1952.0	1886.3
13041.0	50°	10182.2	6074.2	2367.2	2030.1	1960.8	2031.8	1994.6	1937.8	1850.8	1797.6
14648.7	52.5°	11239.8	6237.4	2212.8	1884.5	1873.9	1944.9	1891.6	1838.4	1772.7	1701.8
15867.8	55°	11960.3	6267.6	2083.3	1778.1	1815.3	1808.2	1788.7	1740.8	1705.3	1611.3
17070.9	57.5°	12765.9	6327.9	1976.8	1714.2	1778.1	1700.0	1692.9	1652.1	1605.9	1542.1
18538.4	60°	13729.5	6422.0	1884.5	1689.3	1746.1	1629.0	1593.5	1577.6	1531.4	1499.5
20304.1	62.5°	14780.0	6507.2	1790.5	1692.9	1708.9	1559.8	1506.6	1501.2	1472.9	1462.2
21961.5	65°	15496.9	6274.7	1673.4	1689.3	1650.3	1488.8	1421.4	1419.6	1396.5	1393.0
22680.2	67.5°	15246.7	5538.3	1515.4	1639.7	1590.0	1417.8	1343.3	1336.2	1306.0	1307.8
21929.6	70°	13993.9	4487.8	1297.2	1517.2	1515.4	1354.0	1261.7	1238.6	1197.8	1204.9
19067.2	72.5°	11644.4	3325.5	1004.4	1313.1	1396.5	1295.4	1167.6	1130.4	1078.9	1086.0
14075.5	75°	8409.5	2260.7	731.1	999.1	1215.5	1226.2	1075.4	1011.5	949.4	960.0
7834.5	77.5°	4303.2	1281.2	537.7	688.5	954.7	1114.4	992.0	906.8	892.6	992.0
2259.0	80°	1403.6	642.4	372.6	482.7	626.4	912.1	869.5	771.9	768.4	791.4
473.8	82.5°	418.8	271.5	239.6	317.6	346.0	699.2	750.6	583.8	502.2	528.8
157.9	85°	143.7	131.3	136.6	157.9	165.0	409.9	525.3	386.8	365.6	402.8
35.5	87.5°	33.7	46.1	39.0	35.5	35.5	99.4	204.1	161.5	223.6	149.1
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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180°
4033.5
3188.8
2897.8
2936.8
3036.2
3121.4
3169.3
3162.2
3084.1
2952.8
2810.8
2681.3
2573.1
2525.1
2457.7
2337.0
2115.2
1992.8
1964.4
1884.5
1792.3
1687.6
1613.0
1520.8
1508.3
1462.2
1391.2
1307.8
1212.0
1084.2
963.6
977.8
679.6
546.6
397.5
143.7
0.0

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