

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: P940965

Luminaire Tested: **GALN-SB4B-740-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940965
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB4B-740-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23658 lumens
Efficiency: N/A
Efficacy: 160.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

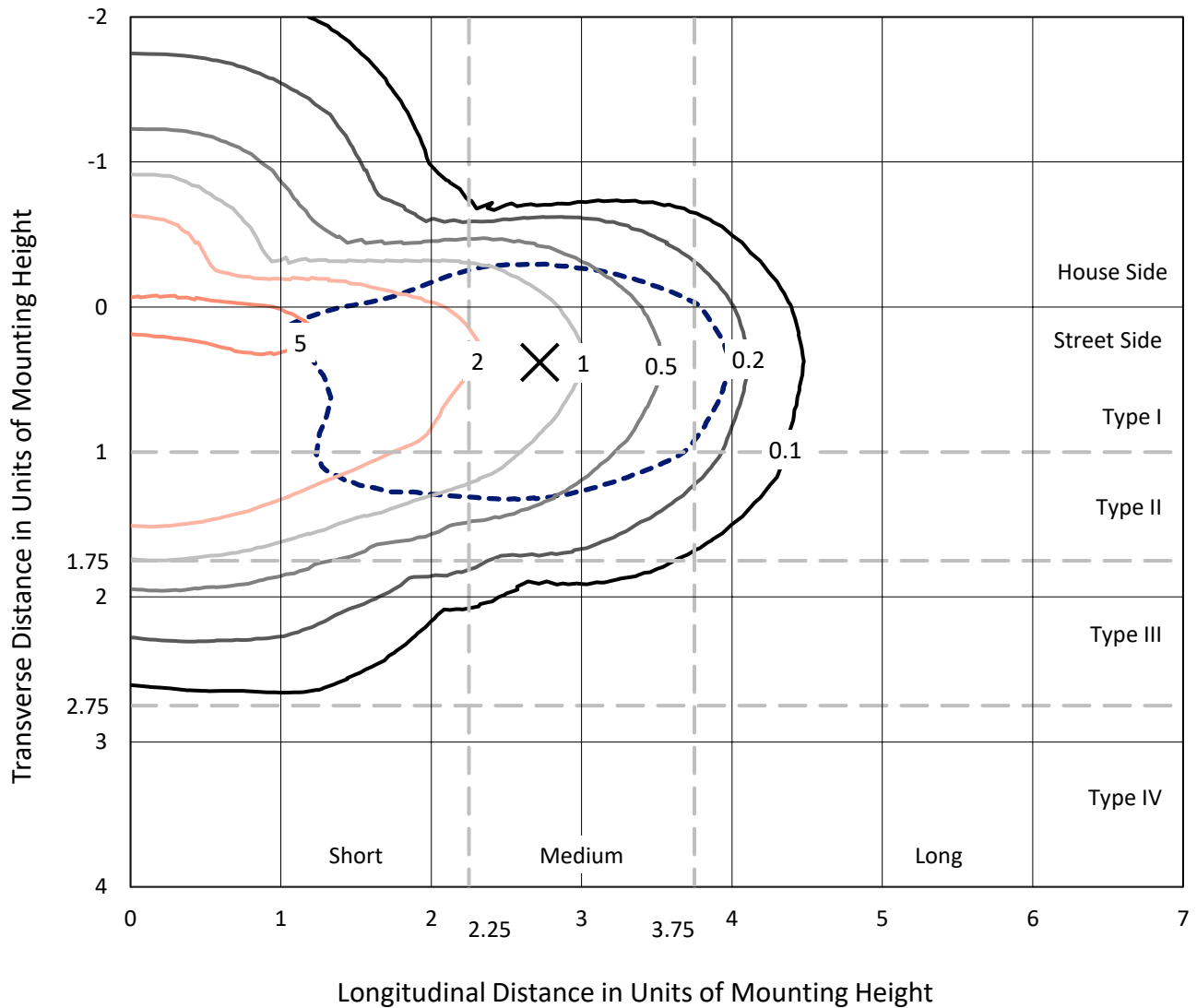
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

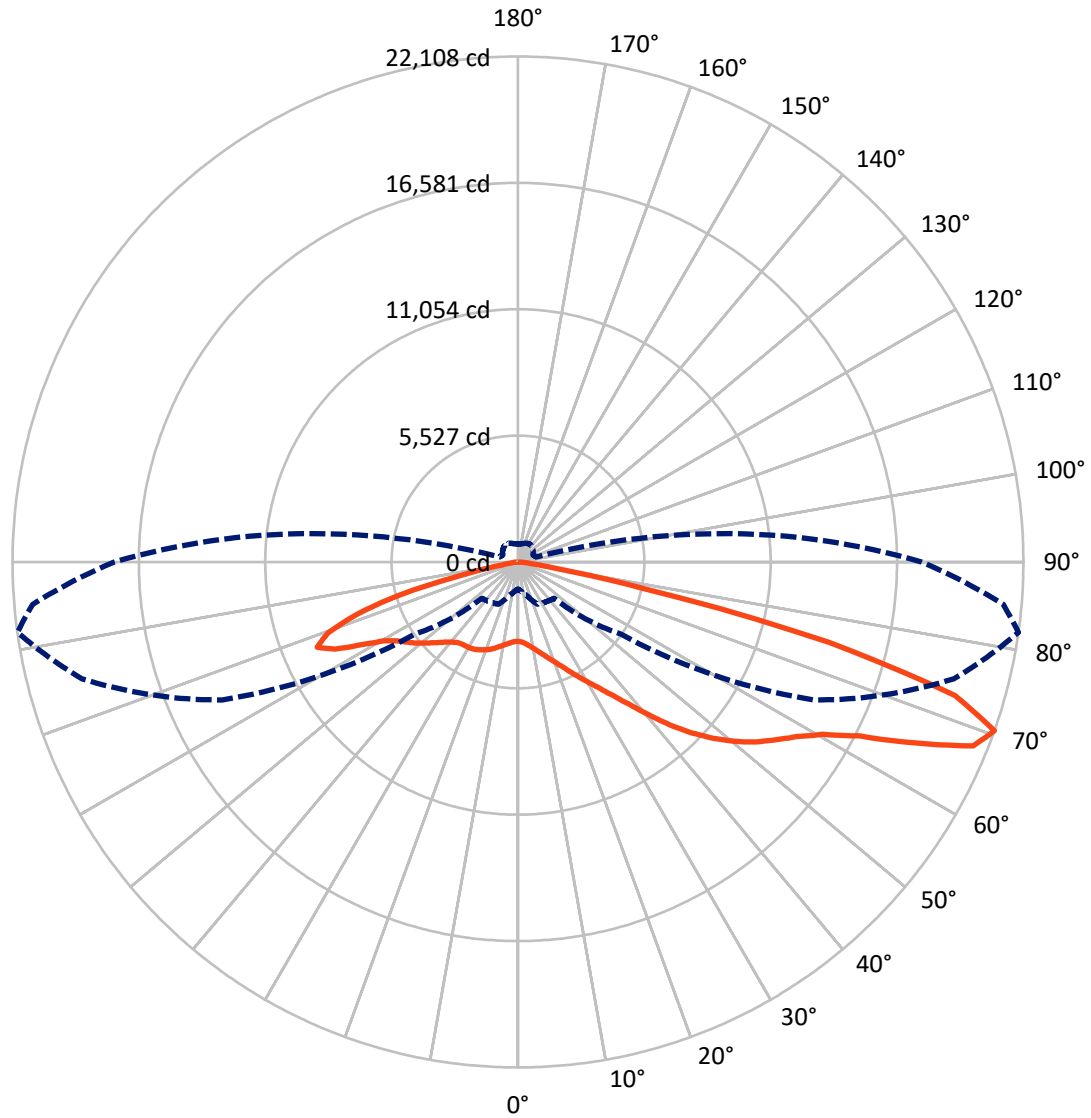
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5832.3	0.0	5832.3
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	17825.7	0.0	17825.7
	% Fixture	75.3	0.0	75.3
Total	Lumens	23658.0	0.0	23658.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.5	1.4
10°-20°	940.9	4.0
20°-30°	1574.0	6.7
30°-40°	2459.1	10.4
40°-50°	3916.3	16.6
50°-60°	5450.1	23.0
60°-70°	5701.0	24.1
70°-80°	2979.7	12.6
80°-90°	309.4	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°	23658.0	100.0
0°-180°	23658.0	100.0

Coefficient of Utilization



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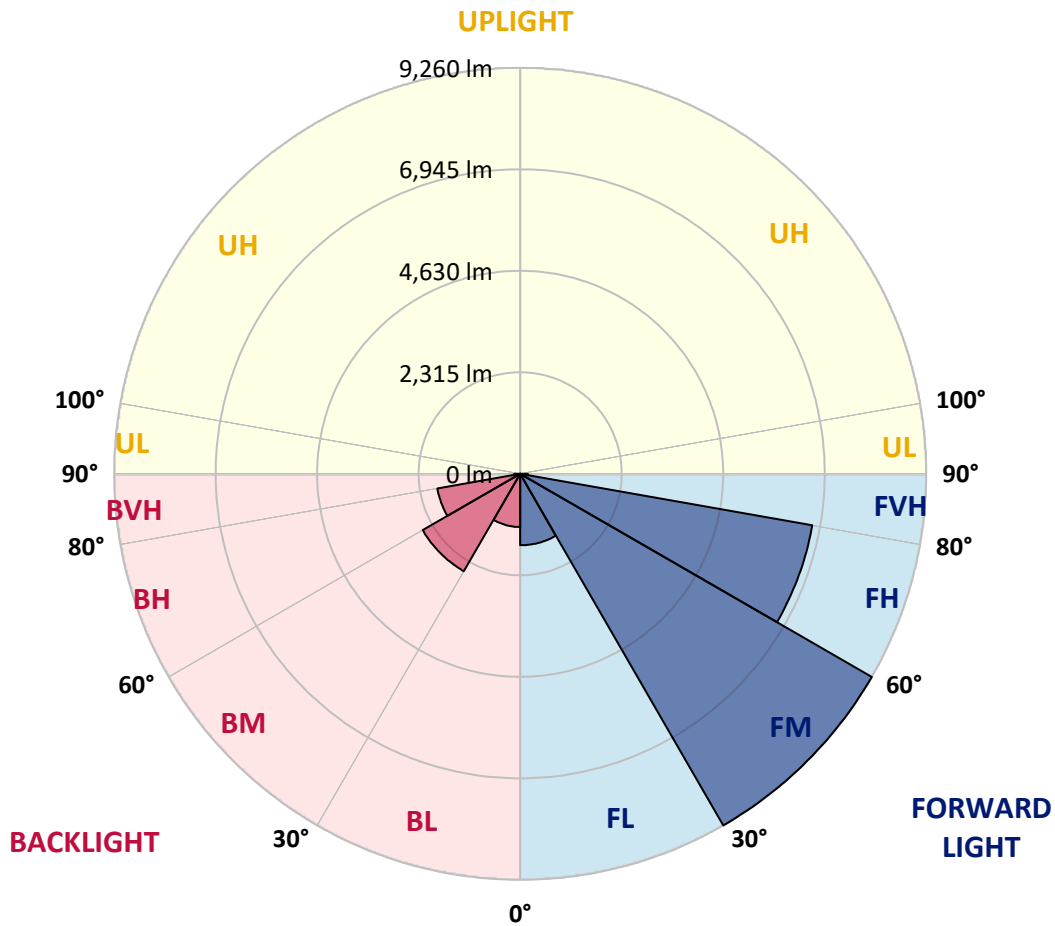
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1629.1	6.9			
FM (30°-60°)	9259.5	39.1			
FH (60°-80°)	6763.9	28.6			G3/7500
FVH (80°-90°)	173.2	0.7			G2/225
BL (0°-30°)	1213.3	5.1	B3/2500		
BM (30°-60°)	2566.0	10.8	B3/5000		
BH (60°-80°)	1916.8	8.1	B3/2500		G3/2500
BVH (80°-90°)	136.2	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	3468.6	3468.6	3468.6	3468.6	3468.6	3468.6	3468.6	3468.6	3468.6	3468.6
2.5°	3551.4	3571.5	3565.2	3558.9	3558.9	3550.2	3548.9	3536.3	3526.3	3510.0
5°	3596.6	3617.9	3615.4	3620.5	3636.8	3640.5	3644.3	3636.8	3616.7	3596.6
7.5°	3556.4	3580.3	3587.8	3617.9	3668.2	3713.4	3747.2	3761.1	3742.2	3713.4
10°	3420.9	3447.2	3473.6	3545.1	3634.3	3741.0	3831.4	3885.3	3881.6	3854.0
12.5°	3145.9	3173.5	3230.0	3369.4	3532.6	3720.9	3889.1	4002.1	4041.0	4020.9
15°	2926.2	2950.1	2992.8	3135.9	3348.0	3634.3	3910.4	4130.1	4229.3	4218.0
17.5°	2920.0	2930.0	2956.4	3024.2	3187.4	3498.7	3887.8	4255.7	4445.2	4444.0
20°	3030.4	3034.2	3049.3	3063.1	3156.0	3395.7	3830.1	4359.9	4687.5	4687.5
22.5°	3183.6	3181.1	3196.1	3183.6	3228.8	3387.0	3793.7	4451.5	4957.4	4977.5
25°	3413.3	3400.8	3397.0	3368.1	3376.9	3468.6	3833.9	4555.7	5277.5	5319.0
27.5°	3719.6	3699.5	3685.7	3619.2	3596.6	3636.8	3956.9	4681.2	5634.1	5705.6
30°	4118.8	4082.4	4062.3	3946.9	3865.3	3871.5	4142.7	4848.2	6006.9	6122.4
32.5°	4663.7	4607.2	4553.2	4363.6	4214.2	4165.3	4382.5	5079.2	6411.1	6595.7
35°	5273.8	5228.6	5170.8	4878.3	4648.6	4535.6	4706.3	5401.8	6884.4	7176.9
37.5°	5861.3	5822.4	5850.0	5455.8	5159.5	4995.1	5130.7	5834.9	7468.1	7900.0
40°	6468.9	6438.7	6442.5	6065.9	5720.7	5536.1	5645.4	6378.5	8137.2	8759.9
42.5°	7129.2	7106.6	7031.3	6697.3	6309.4	6137.5	6237.9	7006.2	8855.3	9739.1
45°	7868.6	7854.8	7784.5	7401.6	6957.2	6763.9	6899.5	7699.1	9577.1	10660.5
47.5°	8507.6	8518.9	8510.1	8187.5	7726.7	7443.0	7605.0	8422.2	10248.8	11526.7
50°	8815.1	8874.1	8960.8	8860.3	8574.1	8285.4	8316.8	9120.2	10889.0	12338.9
52.5°	8654.4	8766.2	9002.2	9162.9	9273.3	9213.1	9129.0	9813.1	11491.6	13072.1
55°	8055.6	8212.6	8604.2	8992.1	9555.8	9993.9	10104.4	10581.4	12079.1	13717.3
57.5°	6964.7	7219.6	7571.1	8355.7	9304.7	10371.8	11241.7	11647.2	12701.7	14406.5
60°	5094.2	5435.7	5872.6	7040.1	8426.0	10169.7	12209.6	13284.2	13586.8	15299.1
62.5°	3260.2	3471.1	3872.8	4972.5	6565.5	9134.0	12505.9	15330.5	15086.9	16762.8
65°	2232.0	2367.6	2735.4	3353.1	4244.4	6799.0	11712.5	16864.5	17469.6	19082.7
67.5°	1621.9	1724.9	2038.7	2579.8	2765.6	4023.4	9088.8	16794.2	19785.7	21472.9
70°	1182.5	1255.4	1519.0	2038.7	2127.8	2238.3	5506.0	14275.9	19735.5	22108.1
72.5°	876.2	926.5	1103.5	1581.8	1722.4	1511.5	2725.4	10375.5	16958.7	19996.6
75°	634.0	671.6	802.2	1210.2	1378.4	1151.2	1359.6	6063.4	11829.3	14066.3
77.5°	484.6	513.4	598.8	886.3	1103.5	863.7	843.6	2789.4	5608.9	5636.6
80°	389.2	408.0	454.4	623.9	846.1	646.5	549.8	1126.1	1772.6	1500.2
82.5°	286.2	317.6	384.1	438.1	605.1	445.7	335.2	568.7	674.1	580.0
85°	163.2	184.5	232.2	313.8	386.7	272.4	192.1	252.3	313.8	257.3
87.5°	57.7	75.3	81.6	123.0	168.2	113.0	74.1	72.8	102.9	76.6
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°
3468.6	0°	3468.6	3468.6	3468.6	3468.6	3468.6	3468.6	3468.6	3468.6	3468.6	3468.6
3506.2	2.5°	3493.7	3487.4	3462.3	3428.4	3393.2	3359.3	3348.0	3324.2	3307.9	3299.1
3587.8	5°	3564.0	3543.9	3484.9	3409.6	3330.5	3245.1	3184.8	3129.6	3089.4	3051.8
3699.5	7.5°	3664.4	3629.2	3527.6	3395.7	3255.1	3113.3	3007.8	2927.5	2873.5	2838.4
3830.1	10°	3781.1	3727.2	3571.5	3374.4	3157.2	2953.9	2829.6	2760.5	2726.6	2707.8
3979.5	12.5°	3915.5	3838.9	3616.7	3325.4	3007.8	2775.6	2690.2	2670.1	2671.4	2672.7
4167.8	15°	4081.2	3974.5	3653.1	3218.7	2813.3	2638.8	2623.7	2656.3	2690.2	2706.6
4381.2	17.5°	4268.2	4117.6	3659.4	3043.0	2622.4	2550.9	2598.6	2668.9	2720.4	2743.0
4619.7	20°	4469.1	4263.2	3614.2	2794.4	2465.5	2479.3	2564.7	2655.1	2711.6	2740.5
4892.1	22.5°	4698.8	4418.9	3506.2	2533.3	2337.5	2401.5	2501.9	2589.8	2648.8	2677.7
5212.3	25°	4961.2	4593.4	3336.7	2313.6	2227.0	2313.6	2414.1	2486.9	2534.6	2560.9
5570.0	27.5°	5252.4	4775.4	3110.8	2139.1	2130.3	2223.2	2306.1	2362.6	2387.7	2407.8
5950.4	30°	5544.9	4941.1	2837.1	2007.3	2046.2	2134.1	2193.1	2218.2	2225.8	2229.5
6374.7	32.5°	5861.3	5084.2	2549.6	1898.1	1965.9	2047.5	2082.6	2093.9	2058.8	2034.9
6889.4	35°	6244.2	5237.4	2268.4	1811.5	1886.8	1957.1	1968.4	1958.4	1916.9	1868.0
7534.7	37.5°	6717.4	5428.2	2043.7	1750.0	1812.7	1859.2	1845.4	1842.9	1846.6	1788.9
8310.5	40°	7297.4	5676.7	1879.3	1702.3	1752.5	1762.5	1723.6	1744.9	1763.8	1675.9
9161.6	42.5°	7941.4	5976.8	1775.1	1669.6	1702.3	1678.4	1618.2	1642.0	1639.5	1524.0
10016.5	45°	8598.0	6303.2	1738.7	1645.8	1655.8	1608.1	1541.6	1547.9	1495.1	1390.9
10836.3	47.5°	9250.7	6653.4	1761.3	1625.7	1598.1	1544.1	1492.6	1465.0	1387.2	1309.3
11622.1	50°	9891.0	7021.2	1844.1	1585.5	1519.0	1487.6	1449.9	1401.0	1318.1	1251.6
12365.3	52.5°	10484.8	7391.6	1937.0	1519.0	1419.8	1438.6	1414.8	1358.3	1276.7	1208.9
13068.3	55°	11047.2	7761.9	1973.4	1427.3	1326.9	1396.0	1382.2	1278.0	1180.0	1124.8
13803.9	57.5°	11659.8	8207.5	1933.3	1310.6	1251.6	1347.0	1294.3	1178.8	1122.3	1080.9
14761.8	60°	12508.4	8906.8	1846.6	1166.2	1180.0	1274.2	1183.8	1136.1	1074.6	1028.1
16197.9	62.5°	13918.2	10211.1	1707.3	1023.1	1095.9	1166.2	1131.1	1083.4	1020.6	975.4
18653.4	65°	16002.1	12023.8	1444.9	911.4	1001.8	1060.8	1074.6	1026.9	961.6	913.9
20805.1	67.5°	17759.6	13161.2	1093.4	818.5	905.1	975.4	1014.3	967.9	898.8	852.4
21308.5	70°	17662.9	12335.2	834.8	726.9	819.7	891.3	941.5	905.1	831.0	787.1
19355.1	72.5°	15688.2	10319.1	675.4	634.0	733.1	803.4	863.7	836.1	760.7	718.1
14179.3	75°	11525.5	7325.0	539.8	539.8	625.2	711.8	778.3	760.7	691.7	661.6
5952.9	77.5°	4858.2	3073.1	423.1	448.2	519.7	611.4	694.2	700.5	640.2	677.9
1574.2	80°	1291.8	847.4	322.6	352.8	408.0	504.7	603.8	601.3	536.0	500.9
585.0	82.5°	492.1	333.9	229.7	248.6	295.0	386.7	478.3	493.4	428.1	370.3
229.7	85°	189.6	143.1	141.9	149.4	172.0	256.1	361.5	374.1	322.6	273.7
64.0	87.5°	49.0	42.7	52.7	50.2	79.1	136.8	207.1	214.7	197.1	114.2
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>
3468.6
3309.1
3066.8
2845.9
2712.8
2675.2
2705.3
2748.0
2748.0
2685.2
2568.5
2415.3
2238.3
2042.5
1870.5
1792.7
1678.4
1522.8
1394.7
1309.3
1246.6
1210.2
1119.8
1077.1
1025.6
975.4
916.4
853.6
790.9
718.1
652.8
615.1
465.7
370.3
282.5
163.2
0.0

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