

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: P940785

Luminaire Tested: **GALN-SB4A-735-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940785
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-SB4A-735-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17813 lumens
Efficiency: N/A
Efficacy: 156.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

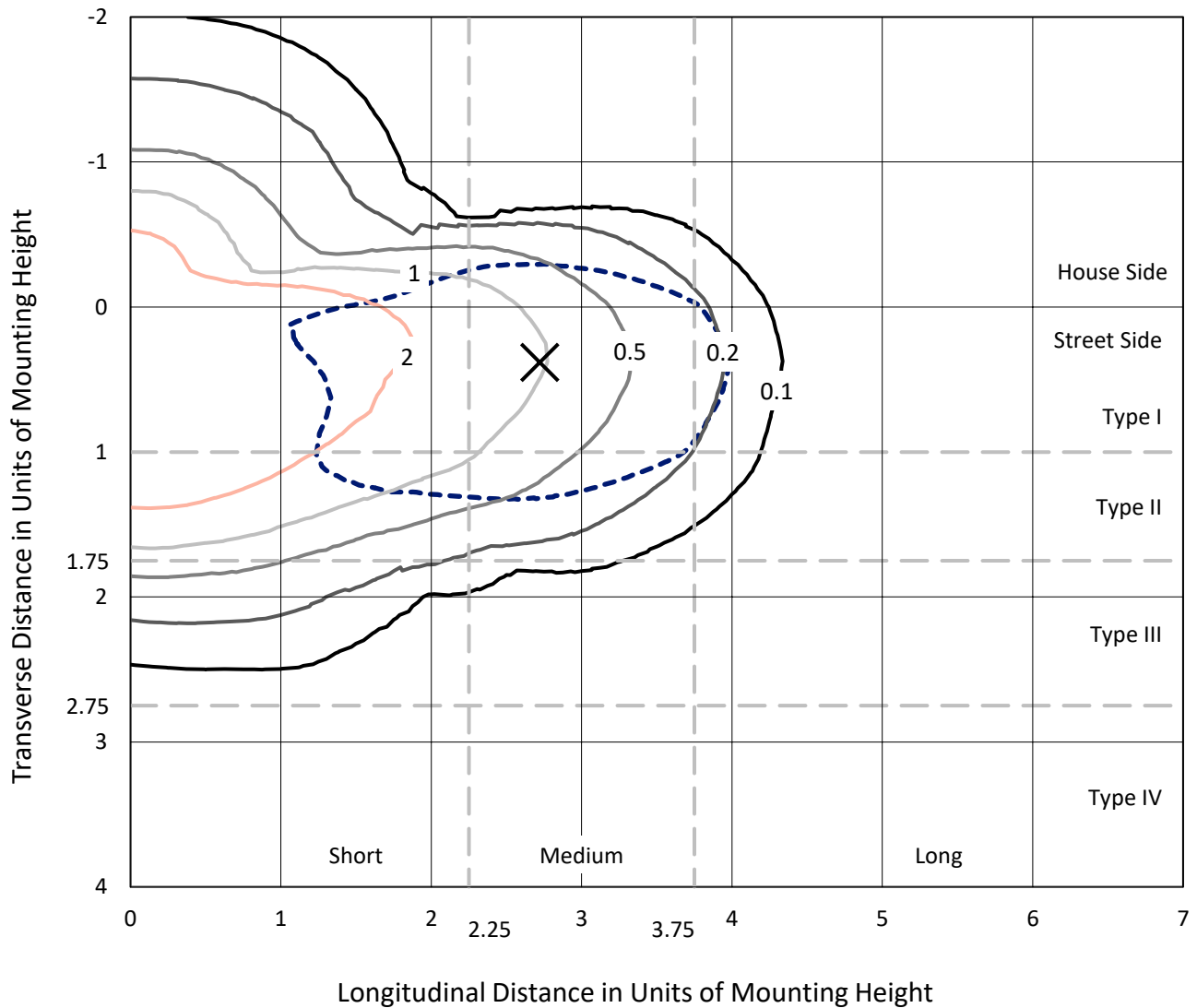
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

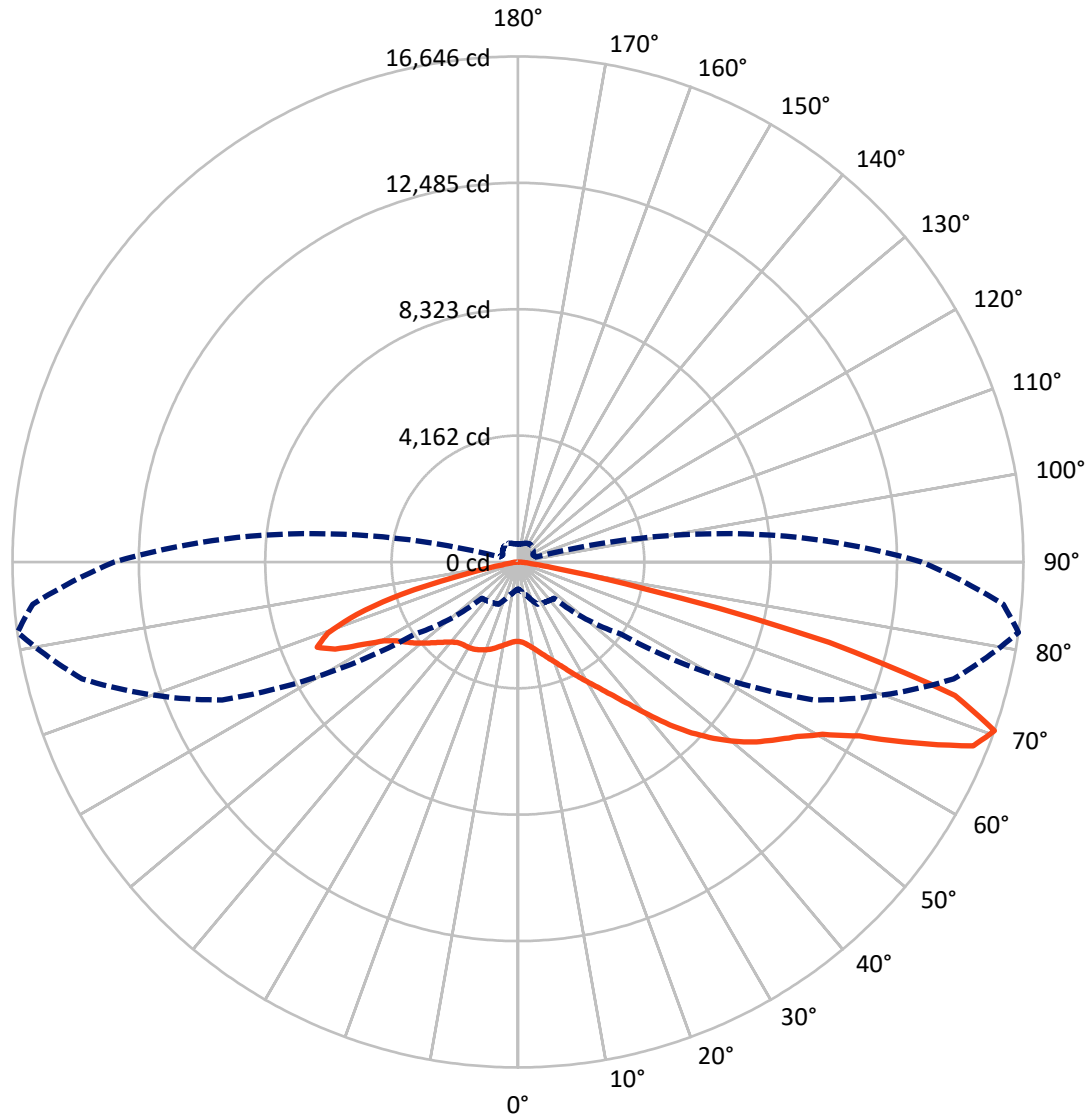
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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	4391.3	0.0	4391.3
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	13421.7	0.0	13421.7
	% Fixture	75.3	0.0	75.3
Total	Lumens	17813.0	0.0	17813.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.6	1.4
10°-20°	708.4	4.0
20°-30°	1185.2	6.7
30°-40°	1851.5	10.4
40°-50°	2948.8	16.6
50°-60°	4103.6	23.0
60°-70°	4292.5	24.1
70°-80°	2243.5	12.6
80°-90°	233.0	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°	17813.0	100.0
0°-180°	17813.0	100.0

Coefficient of Utilization



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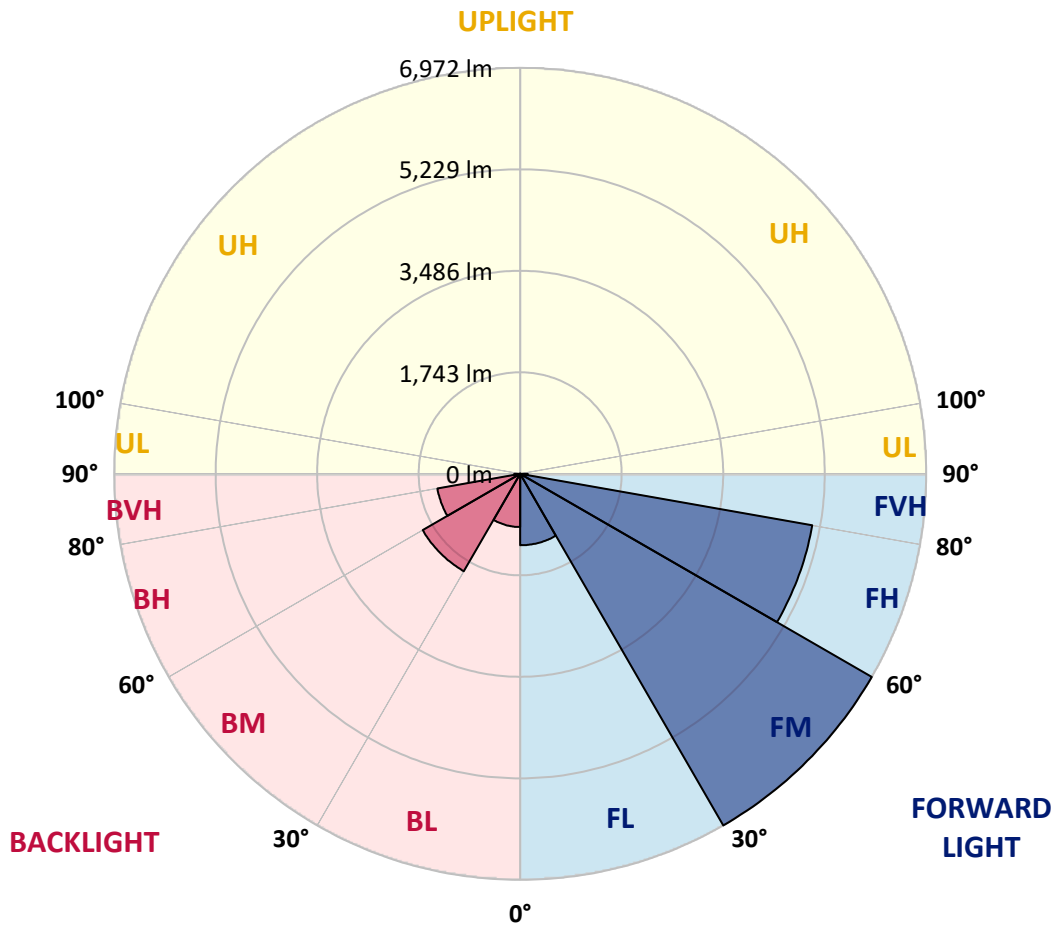
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1226.6	6.9			
FM (30°-60°)	6971.8	39.1			
FH (60°-80°)	5092.8	28.6			G3/7500
FVH (80°-90°)	130.4	0.7			G2/225
BL (0°-30°)	913.6	5.1	B2/1000		
BM (30°-60°)	1932.0	10.8	B2/2500		
BH (60°-80°)	1443.2	8.1	B3/2500		G3/2500
BVH (80°-90°)	102.5	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°	2611.6	2611.6	2611.6	2611.6	2611.6	2611.6	2611.6	2611.6	2611.6	2611.6
2.5°	2674.0	2689.1	2684.4	2679.7	2679.7	2673.0	2672.1	2662.6	2655.1	2642.8
5°	2708.0	2724.1	2722.2	2726.0	2738.3	2741.1	2743.9	2738.3	2723.1	2708.0
7.5°	2677.8	2695.7	2701.4	2724.1	2761.9	2795.9	2821.4	2831.8	2817.7	2795.9
10°	2575.7	2595.5	2615.4	2669.3	2736.4	2816.7	2884.8	2925.4	2922.6	2901.8
12.5°	2368.7	2389.5	2432.0	2536.9	2659.8	2801.6	2928.3	3013.3	3042.6	3027.5
15°	2203.3	2221.2	2253.4	2361.1	2520.9	2736.4	2944.3	3109.7	3184.4	3175.9
17.5°	2198.6	2206.1	2226.0	2277.0	2399.9	2634.3	2927.3	3204.3	3347.0	3346.0
20°	2281.7	2284.6	2295.9	2306.3	2376.3	2556.8	2883.8	3282.7	3529.4	3529.4
22.5°	2397.0	2395.2	2406.5	2397.0	2431.1	2550.2	2856.4	3351.7	3732.6	3747.7
25°	2570.0	2560.6	2557.7	2536.0	2542.6	2611.6	2886.7	3430.2	3973.7	4004.8
27.5°	2800.7	2785.5	2775.1	2725.0	2708.0	2738.3	2979.3	3524.7	4242.1	4296.0
30°	3101.2	3073.8	3058.7	2971.7	2910.3	2915.0	3119.2	3650.4	4522.8	4609.8
32.5°	3511.4	3468.9	3428.3	3285.5	3173.1	3136.2	3299.7	3824.3	4827.2	4966.1
35°	3970.8	3936.8	3893.3	3673.1	3500.1	3415.0	3543.6	4067.2	5183.5	5403.8
37.5°	4413.2	4383.9	4404.7	4107.9	3884.8	3761.0	3863.1	4393.3	5623.0	5948.2
40°	4870.7	4848.0	4850.8	4567.2	4307.3	4168.4	4250.6	4802.6	6126.8	6595.7
42.5°	5367.8	5350.8	5294.1	5042.7	4750.6	4621.1	4696.7	5275.2	6667.5	7332.9
45°	5924.6	5914.2	5861.2	5572.9	5238.3	5092.8	5194.9	5797.0	7211.0	8026.7
47.5°	6405.7	6414.2	6407.6	6164.6	5817.8	5604.1	5726.1	6341.4	7716.7	8678.9
50°	6637.2	6681.7	6746.9	6671.3	6455.8	6238.4	6262.0	6866.9	8198.7	9290.4
52.5°	6516.3	6600.4	6778.1	6899.1	6982.2	6936.9	6873.5	7388.7	8652.4	9842.4
55°	6065.4	6183.5	6478.5	6770.5	7194.9	7524.8	7608.0	7967.2	9094.8	10328.3
57.5°	5244.0	5435.9	5700.5	6291.3	7005.9	7809.3	8464.3	8769.6	9563.6	10847.2
60°	3835.7	4092.7	4421.7	5300.7	6344.2	7657.1	9193.1	10002.2	10230.0	11519.2
62.5°	2454.7	2613.5	2916.0	3744.0	4943.4	6877.3	9416.2	11542.9	11359.5	12621.4
65°	1680.6	1782.7	2059.6	2524.6	3195.7	5119.2	8818.8	12697.9	13153.5	14368.1
67.5°	1221.2	1298.7	1535.0	1942.4	2082.3	3029.4	6843.3	12645.0	14897.4	16167.8
70°	890.4	945.2	1143.7	1535.0	1602.1	1685.3	4145.7	10748.9	14859.6	16646.1
72.5°	659.8	697.6	830.8	1191.0	1296.8	1138.0	2052.0	7812.1	12768.8	15056.2
75°	477.3	505.7	604.0	911.2	1037.8	866.8	1023.7	4565.4	8906.7	10591.1
77.5°	364.9	386.6	450.9	667.3	830.8	650.3	635.2	2100.3	4223.2	4244.0
80°	293.0	307.2	342.2	469.8	637.1	486.8	414.0	847.9	1334.6	1129.5
82.5°	215.5	239.1	289.2	329.9	455.6	335.5	252.4	428.2	507.6	436.7
85°	122.9	138.9	174.9	236.3	291.1	205.1	144.6	190.0	236.3	193.8
87.5°	43.5	56.7	61.4	92.6	126.7	85.1	55.8	54.8	77.5	57.7
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°
2611.6	0°	2611.6	2611.6	2611.6	2611.6	2611.6	2611.6	2611.6	2611.6	2611.6	2611.6
2640.0	2.5°	2630.5	2625.8	2606.9	2581.4	2554.9	2529.4	2520.9	2502.9	2490.6	2484.0
2701.4	5°	2683.4	2668.3	2623.9	2567.2	2507.6	2443.4	2398.0	2356.4	2326.2	2297.8
2785.5	7.5°	2759.1	2732.6	2656.0	2556.8	2450.9	2344.1	2264.7	2204.2	2163.6	2137.1
2883.8	10°	2847.0	2806.3	2689.1	2540.7	2377.2	2224.1	2130.5	2078.5	2053.0	2038.8
2996.3	12.5°	2948.1	2890.4	2723.1	2503.9	2264.7	2089.9	2025.6	2010.5	2011.4	2012.3
3138.1	15°	3072.9	2992.5	2750.6	2423.5	2118.2	1986.8	1975.5	2000.1	2025.6	2037.9
3298.8	17.5°	3213.7	3100.3	2755.3	2291.2	1974.5	1920.7	1956.6	2009.5	2048.3	2065.3
3478.4	20°	3364.9	3209.9	2721.3	2104.0	1856.4	1866.8	1931.1	1999.1	2041.6	2063.4
3683.5	22.5°	3537.9	3327.1	2640.0	1907.4	1760.0	1808.2	1883.8	1950.0	1994.4	2016.1
3924.5	25°	3735.5	3458.5	2512.4	1742.0	1676.8	1742.0	1817.6	1872.5	1908.4	1928.2
4193.9	27.5°	3954.7	3595.6	2342.2	1610.6	1604.0	1674.0	1736.3	1778.9	1797.8	1812.9
4480.3	30°	4175.0	3720.3	2136.2	1511.4	1540.7	1606.9	1651.3	1670.2	1675.9	1678.7
4799.8	32.5°	4413.2	3828.1	1919.7	1429.2	1480.2	1541.6	1568.1	1576.6	1550.1	1532.2
5187.3	35°	4701.5	3943.4	1708.0	1363.9	1420.6	1473.6	1482.1	1474.5	1443.3	1406.5
5673.1	37.5°	5057.8	4087.1	1538.8	1317.6	1364.9	1399.9	1389.5	1387.6	1390.4	1346.9
6257.3	40°	5494.5	4274.2	1415.0	1281.7	1319.5	1327.1	1297.8	1313.8	1328.0	1261.9
6898.1	42.5°	5979.4	4500.1	1336.5	1257.1	1281.7	1263.7	1218.4	1236.3	1234.4	1147.5
7541.8	45°	6473.7	4745.9	1309.1	1239.2	1246.7	1210.8	1160.7	1165.4	1125.7	1047.3
8159.0	47.5°	6965.2	5009.6	1326.1	1224.0	1203.2	1162.6	1123.9	1103.1	1044.5	985.9
8750.7	50°	7447.3	5286.5	1388.5	1193.8	1143.7	1120.1	1091.7	1054.9	992.5	942.4
9310.3	52.5°	7894.4	5565.4	1458.5	1143.7	1069.0	1083.2	1065.2	1022.7	961.3	910.2
9839.6	55°	8317.8	5844.2	1485.9	1074.7	999.1	1051.1	1040.7	962.2	888.5	846.9
10393.5	57.5°	8779.1	6179.8	1455.6	986.8	942.4	1014.2	974.5	887.5	845.0	813.8
11114.7	60°	9418.0	6706.2	1390.4	878.1	888.5	959.4	891.3	855.4	809.1	774.1
12196.0	62.5°	10479.5	7688.3	1285.5	770.3	825.2	878.1	851.6	815.7	768.5	734.4
14044.8	65°	12048.6	9053.2	1087.9	686.2	754.3	798.7	809.1	773.2	724.0	688.1
15664.9	67.5°	13371.9	9909.6	823.3	616.3	681.5	734.4	763.7	728.8	676.8	641.8
16044.0	70°	13299.1	9287.6	628.6	547.3	617.2	671.1	708.9	681.5	625.7	592.6
14573.2	72.5°	11812.3	7769.6	508.5	477.3	552.0	604.9	650.3	629.5	572.8	540.7
10676.1	75°	8678.0	5515.3	406.4	406.4	470.7	535.9	586.0	572.8	520.8	498.1
4482.2	77.5°	3658.0	2313.9	318.5	337.4	391.3	460.3	522.7	527.4	482.1	510.4
1185.3	80°	972.6	638.0	242.9	265.6	307.2	380.0	454.6	452.8	403.6	377.1
440.5	82.5°	370.5	251.4	173.0	187.2	222.1	291.1	360.1	371.5	322.3	278.8
173.0	85°	142.7	107.8	106.8	112.5	129.5	192.8	272.2	281.7	242.9	206.1
48.2	87.5°	36.9	32.1	39.7	37.8	59.5	103.0	156.0	161.6	148.4	86.0
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>
2611.6
2491.6
2309.1
2142.8
2042.6
2014.2
2036.9
2069.1
2069.1
2021.8
1933.9
1818.6
1685.3
1537.9
1408.4
1349.8
1263.7
1146.5
1050.1
985.9
938.6
911.2
843.1
811.0
772.2
734.4
690.0
642.7
595.5
540.7
491.5
463.2
350.7
278.8
212.7
122.9
0.0

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