

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: P940835

Luminaire Tested: **GALN-SB4A-830-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940835
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-830-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16006 lumens
Efficiency: N/A
Efficacy: 140.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

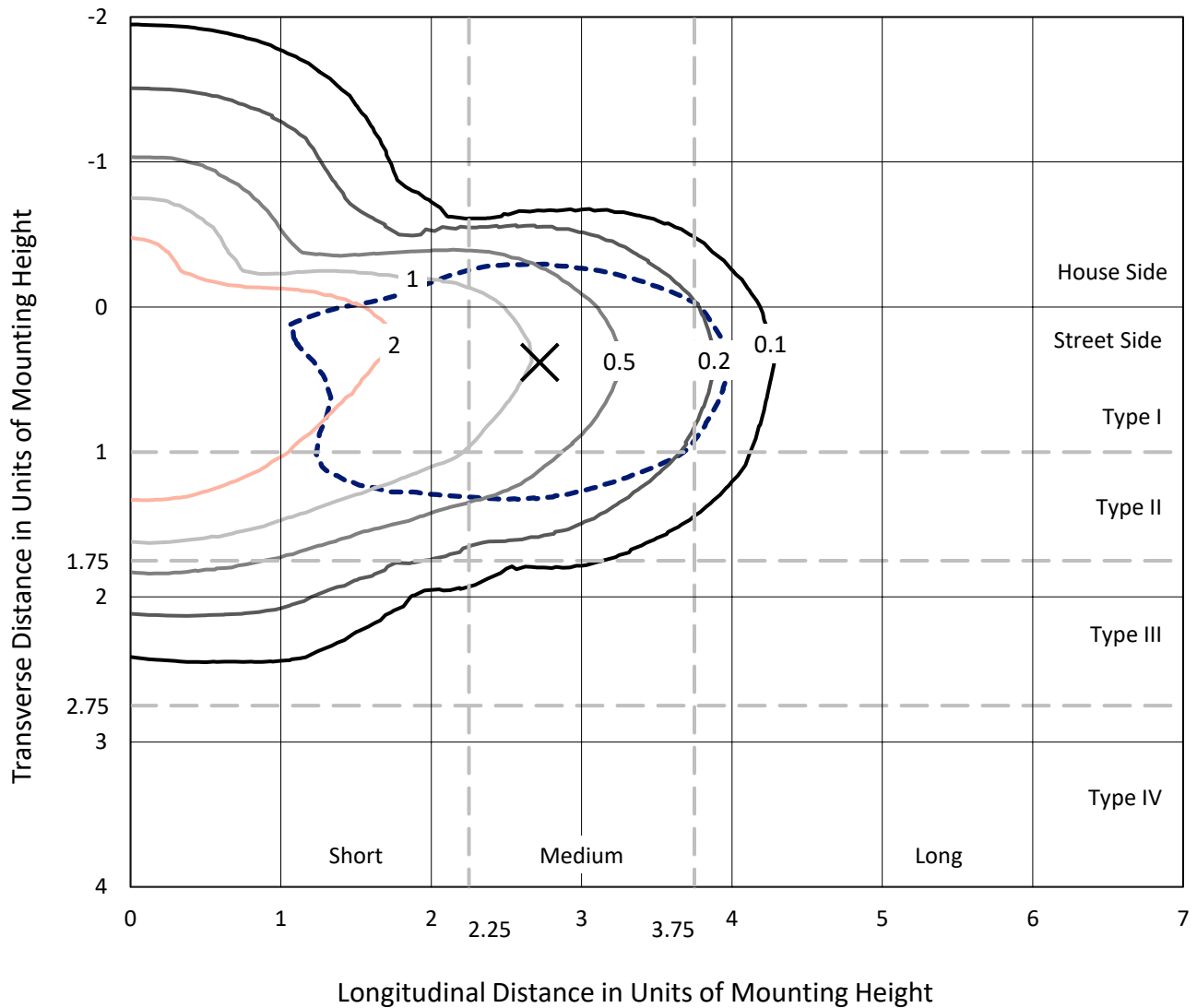
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

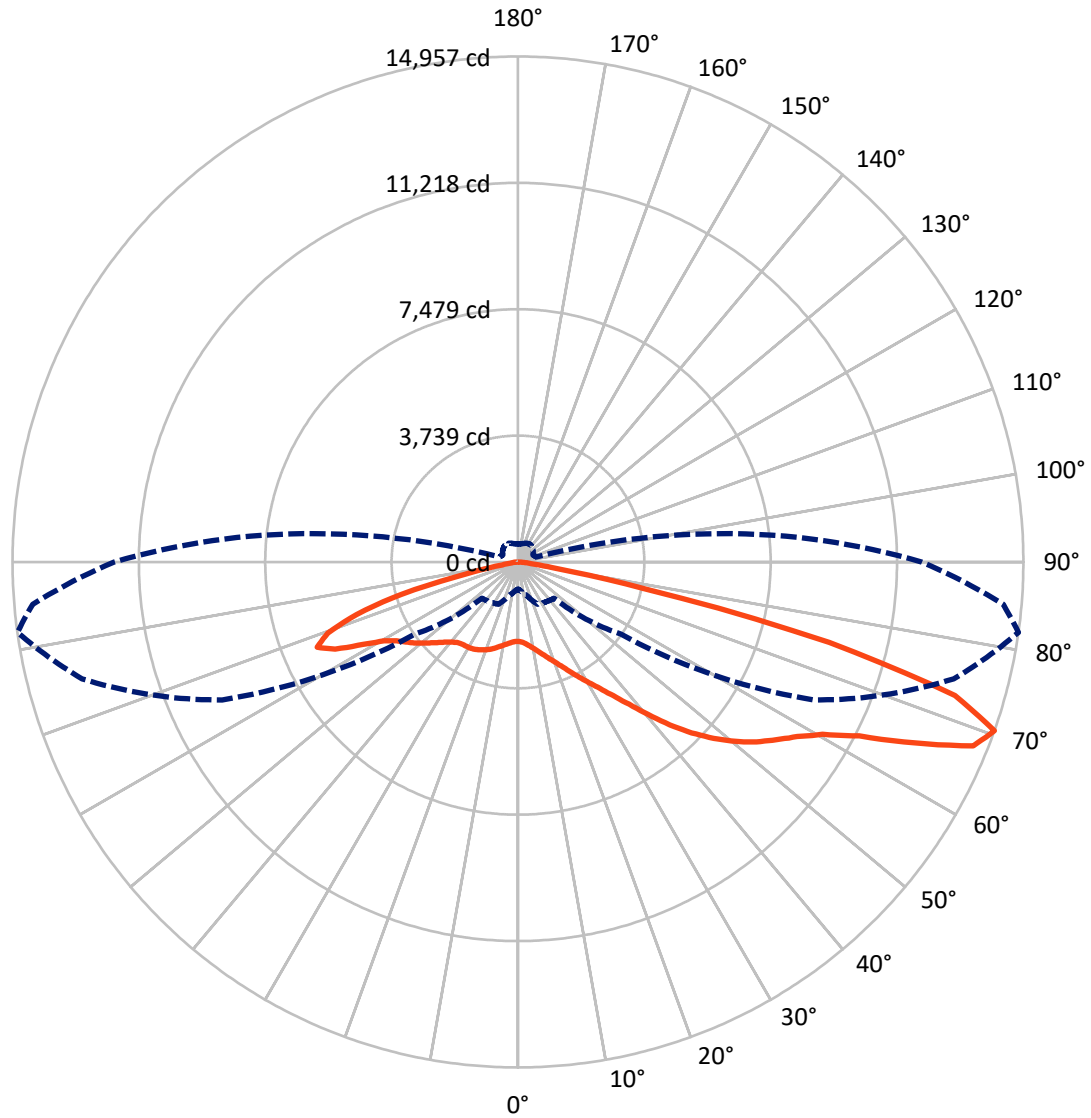
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type II - Medium - N/A

REPORT NUMBER: P940835
CATALOG NUMBER: GALN-SB4A-830-U-T2

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	3945.9	0.0	3945.9
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	12060.1	0.0	12060.1
	% Fixture	75.3	0.0	75.3
Total	Lumens	16006.0	0.0	16006.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.6	1.4
10°-20°	636.6	4.0
20°-30°	1064.9	6.7
30°-40°	1663.7	10.4
40°-50°	2649.6	16.6
50°-60°	3687.3	23.0
60°-70°	3857.1	24.1
70°-80°	2015.9	12.6
80°-90°	209.3	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°	16006.0	100.0
0°-180°	16006.0	100.0

Coefficient of Utilization



REPORT NUMBER: P940835

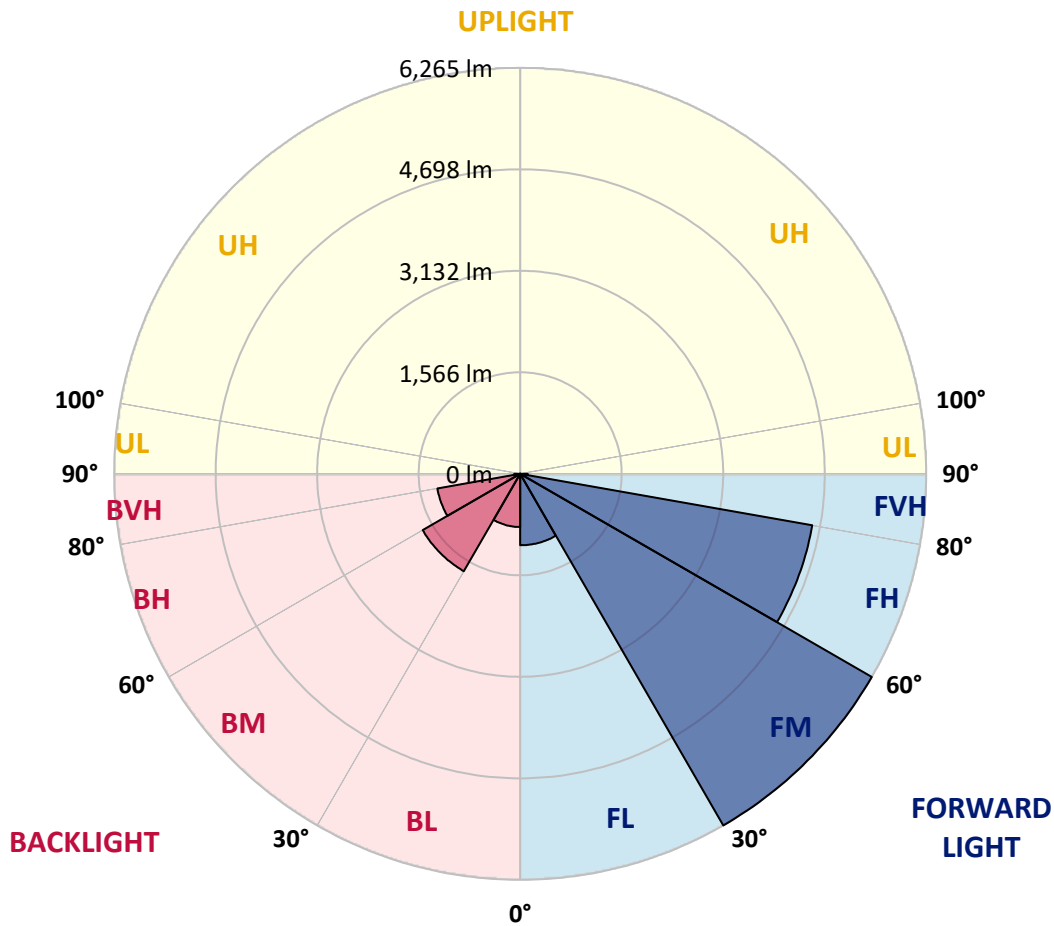
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1102.2	6.9			
FM (30°-60°)	6264.6	39.1			
FH (60°-80°)	4576.2	28.6			G2/5000
FVH (80°-90°)	117.2	0.7			G2/225
BL (0°-30°)	820.9	5.1	B2/1000		
BM (30°-60°)	1736.0	10.8	B2/2500		
BH (60°-80°)	1296.8	8.1	B3/2500		G3/2500
BVH (80°-90°)	92.1	0.6			G1/100
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



REPORT NUMBER: P940835

CATALOG NUMBER: GALN-SB4A-830-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	2346.7	2346.7	2346.7	2346.7	2346.7	2346.7	2346.7	2346.7	2346.7	2346.7
2.5°	2402.7	2416.3	2412.1	2407.8	2407.8	2401.9	2401.0	2392.5	2385.7	2374.7
5°	2433.3	2447.7	2446.1	2449.4	2460.5	2463.0	2465.6	2460.5	2446.9	2433.3
7.5°	2406.1	2422.3	2427.4	2447.7	2481.7	2512.3	2535.2	2544.6	2531.8	2512.3
10°	2314.4	2332.2	2350.1	2398.5	2458.8	2531.0	2592.1	2628.7	2626.1	2607.4
12.5°	2128.4	2147.1	2185.3	2279.6	2390.0	2517.4	2631.2	2707.6	2734.0	2720.4
15°	1979.8	1995.9	2024.8	2121.6	2265.1	2458.8	2645.6	2794.3	2861.4	2853.7
17.5°	1975.5	1982.3	2000.2	2046.0	2156.4	2367.1	2630.4	2879.2	3007.5	3006.6
20°	2050.3	2052.8	2063.0	2072.3	2135.2	2297.4	2591.3	2949.7	3171.4	3171.4
22.5°	2153.9	2152.2	2162.4	2153.9	2184.5	2291.5	2566.7	3011.7	3354.0	3367.6
25°	2309.3	2300.8	2298.3	2278.7	2284.7	2346.7	2593.8	3082.2	3570.6	3598.6
27.5°	2516.5	2503.0	2493.6	2448.6	2433.3	2460.5	2677.1	3167.1	3811.8	3860.2
30°	2786.6	2762.0	2748.4	2670.3	2615.1	2619.3	2802.8	3280.1	4064.0	4142.1
32.5°	3155.2	3117.0	3080.5	2952.2	2851.2	2818.1	2965.0	3436.4	4337.5	4462.3
35°	3568.0	3537.4	3498.4	3300.5	3145.0	3068.6	3184.1	3654.6	4657.7	4855.6
37.5°	3965.5	3939.2	3957.8	3691.2	3490.7	3379.5	3471.2	3947.7	5052.6	5344.8
40°	4376.6	4356.2	4358.7	4103.9	3870.4	3745.5	3819.4	4315.4	5505.3	5926.6
42.5°	4823.3	4808.0	4757.1	4531.1	4268.7	4152.3	4220.3	4740.1	5991.1	6589.0
45°	5323.6	5314.2	5266.7	5007.6	4706.9	4576.2	4667.9	5208.9	6479.5	7212.5
47.5°	5755.9	5763.5	5757.6	5539.3	5227.6	5035.6	5145.2	5698.1	6933.9	7798.5
50°	5963.9	6003.9	6062.5	5994.5	5800.9	5605.5	5626.8	6170.3	7367.0	8348.0
52.5°	5855.2	5930.8	6090.5	6199.2	6273.9	6233.2	6176.3	6639.2	7774.7	8844.0
55°	5450.1	5556.3	5821.3	6083.7	6465.0	6761.5	6836.2	7158.9	8172.2	9280.6
57.5°	4712.0	4884.5	5122.3	5653.1	6295.2	7017.1	7605.7	7880.0	8593.5	9746.8
60°	3446.6	3677.6	3973.1	4763.0	5700.7	6880.4	8260.5	8987.5	9192.2	10350.7
62.5°	2205.7	2348.4	2620.2	3364.2	4442.0	6179.7	8461.0	10371.9	10207.2	11341.0
65°	1510.1	1601.8	1850.7	2268.5	2871.6	4599.9	7924.2	11409.8	11819.2	12910.6
67.5°	1097.3	1167.0	1379.3	1745.4	1871.1	2722.1	6149.1	11362.2	13386.2	14527.7
70°	800.1	849.3	1027.7	1379.3	1439.6	1514.3	3725.1	9658.5	13352.2	14957.4
72.5°	592.8	626.8	746.6	1070.1	1165.3	1022.6	1843.9	7019.7	11473.5	13528.9
75°	428.9	454.4	542.7	818.7	932.6	778.8	919.8	4102.2	8003.2	9516.7
77.5°	327.8	347.4	405.1	599.6	746.6	584.3	570.7	1887.2	3794.8	3813.5
80°	263.3	276.0	307.5	422.1	572.4	437.4	372.0	761.8	1199.2	1014.9
82.5°	193.6	214.9	259.9	296.4	409.4	301.5	226.8	384.7	456.1	392.4
85°	110.4	124.9	157.1	212.3	261.6	184.3	129.9	170.7	212.3	174.1
87.5°	39.1	51.0	55.2	83.2	113.8	76.4	50.1	49.3	69.6	51.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P940835
 CATALOG NUMBER: GALN-SB4A-830-U-T2

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2346.7	0°	2346.7	2346.7	2346.7	2346.7	2346.7	2346.7	2346.7	2346.7	2346.7	2346.7
2372.2	2.5°	2363.7	2359.4	2342.4	2319.5	2295.7	2272.8	2265.1	2249.0	2238.0	2232.0
2427.4	5°	2411.2	2397.6	2357.7	2306.8	2253.3	2195.5	2154.7	2117.4	2090.2	2064.7
2503.0	7.5°	2479.2	2455.4	2386.6	2297.4	2202.3	2106.3	2035.0	1980.6	1944.1	1920.3
2591.3	10°	2558.2	2521.6	2416.3	2283.0	2136.0	1998.5	1914.4	1867.7	1844.7	1832.0
2692.4	12.5°	2649.0	2597.2	2446.9	2249.9	2035.0	1877.9	1820.1	1806.5	1807.4	1808.2
2819.8	15°	2761.1	2689.0	2471.5	2177.7	1903.3	1785.3	1775.1	1797.2	1820.1	1831.1
2964.1	17.5°	2887.7	2785.8	2475.8	2058.8	1774.2	1725.8	1758.1	1805.7	1840.5	1855.8
3125.5	20°	3023.6	2884.3	2445.2	1890.6	1668.1	1677.4	1735.2	1796.3	1834.5	1854.1
3309.8	22.5°	3179.0	2989.6	2372.2	1713.9	1581.4	1624.8	1692.7	1752.2	1792.1	1811.6
3526.4	25°	3356.5	3107.7	2257.5	1565.3	1506.7	1565.3	1633.2	1682.5	1714.8	1732.6
3768.4	27.5°	3553.6	3230.8	2104.6	1447.2	1441.3	1504.2	1560.2	1598.4	1615.4	1629.0
4025.8	30°	3751.5	3342.9	1919.5	1358.1	1384.4	1443.8	1483.8	1500.8	1505.8	1508.4
4312.9	32.5°	3965.5	3439.8	1725.0	1284.2	1330.0	1385.2	1409.0	1416.7	1392.9	1376.8
4661.1	35°	4224.5	3543.4	1534.7	1225.6	1276.5	1324.1	1331.7	1324.9	1296.9	1263.8
5097.6	37.5°	4544.7	3672.5	1382.7	1184.0	1226.4	1257.8	1248.5	1246.8	1249.4	1210.3
5622.5	40°	4937.1	3840.6	1271.4	1151.7	1185.7	1192.4	1166.1	1180.6	1193.3	1133.8
6198.4	42.5°	5372.8	4043.6	1200.9	1129.6	1151.7	1135.5	1094.8	1110.9	1109.2	1031.1
6776.7	45°	5817.0	4264.5	1176.3	1113.5	1120.3	1088.0	1043.0	1047.2	1011.5	941.1
7331.4	47.5°	6258.7	4501.4	1191.6	1099.9	1081.2	1044.7	1009.8	991.2	938.5	885.8
7863.0	50°	6691.8	4750.3	1247.7	1072.7	1027.7	1006.4	981.0	947.8	891.8	846.8
8365.8	52.5°	7093.5	5000.8	1310.5	1027.7	960.6	973.3	957.2	919.0	863.8	817.9
8841.5	55°	7474.0	5251.4	1335.1	965.7	897.7	944.4	935.1	864.6	798.4	761.0
9339.2	57.5°	7888.5	5552.9	1308.0	886.7	846.8	911.3	875.7	797.5	759.3	731.3
9987.2	60°	8462.7	6025.9	1249.4	789.0	798.4	862.1	800.9	768.6	727.0	695.6
10958.8	62.5°	9416.4	6908.4	1155.1	692.2	741.5	789.0	765.2	733.0	690.5	659.9
12620.1	65°	10826.3	8134.8	977.6	616.6	677.8	717.7	727.0	694.7	650.6	618.3
14075.8	67.5°	12015.4	8904.3	739.8	553.8	612.4	659.9	686.3	654.8	608.1	576.7
14416.4	70°	11950.0	8345.4	564.8	491.8	554.6	603.0	637.0	612.4	562.3	532.5
13094.9	72.5°	10614.0	6981.4	456.9	428.9	496.0	543.6	584.3	565.6	514.7	485.8
9593.1	75°	7797.6	4955.8	365.2	365.2	423.0	481.6	526.6	514.7	468.0	447.6
4027.5	77.5°	3286.9	2079.1	286.2	303.2	351.6	413.6	469.7	473.9	433.2	458.6
1065.1	80°	874.0	573.3	218.3	238.7	276.0	341.4	408.5	406.8	362.7	338.9
395.8	82.5°	332.9	225.9	155.4	168.2	199.6	261.6	323.6	333.8	289.6	250.6
155.4	85°	128.2	96.8	96.0	101.1	116.4	173.3	244.6	253.1	218.3	185.2
43.3	87.5°	33.1	28.9	35.7	34.0	53.5	92.6	140.1	145.2	133.3	77.3
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>
2346.7
2238.8
2074.9
1925.4
1835.4
1809.9
1830.3
1859.2
1859.2
1816.7
1737.7
1634.1
1514.3
1381.8
1265.5
1212.8
1135.5
1030.2
943.6
885.8
843.4
818.7
757.6
728.7
693.9
659.9
620.0
577.5
535.1
485.8
441.6
416.2
315.1
250.6
191.1
110.4
0.0

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