

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: P949298

Luminaire Tested: **GALN-SB4A-830-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949298
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
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-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16371 lumens
Efficiency: N/A
Efficacy: 143.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

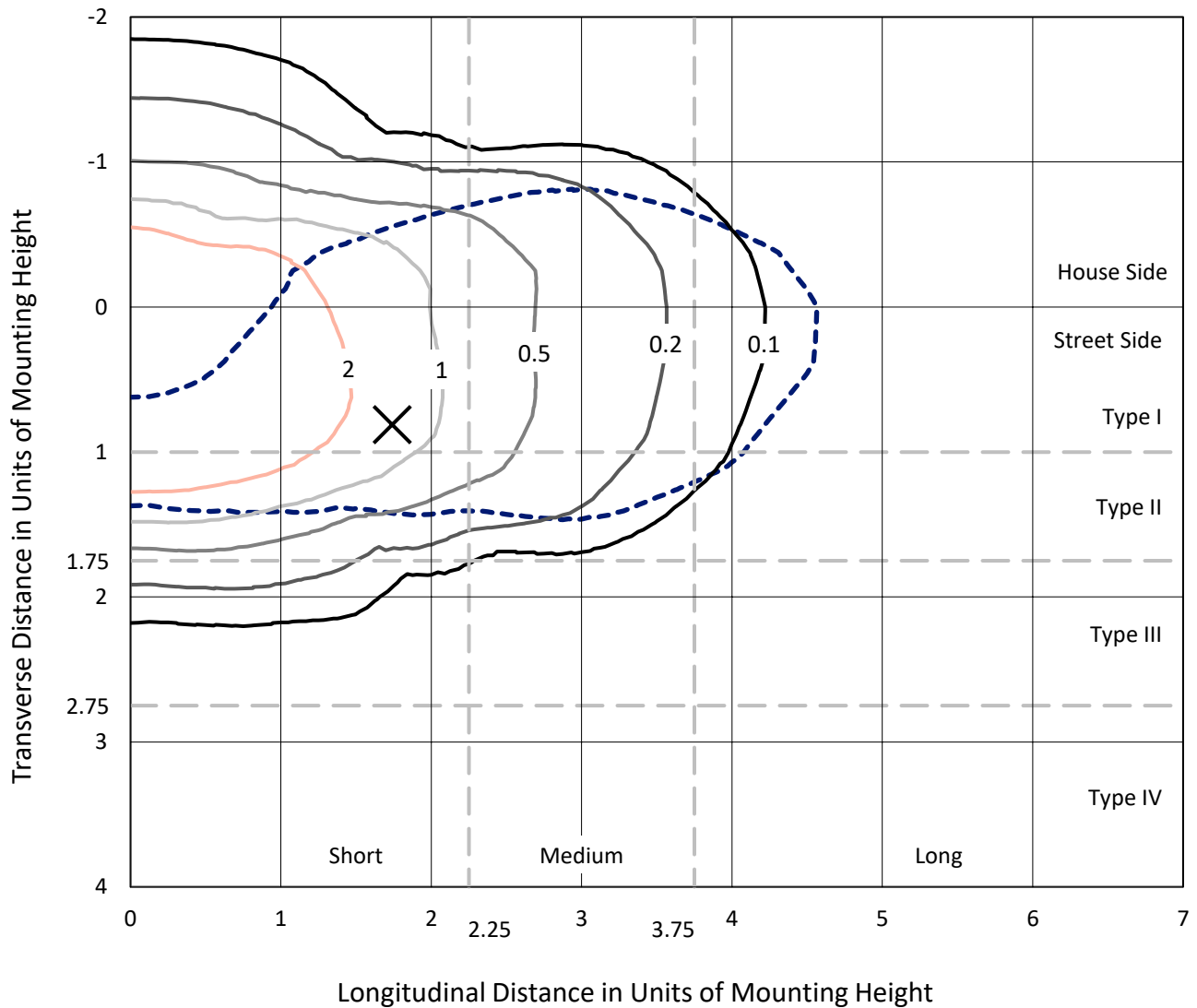
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

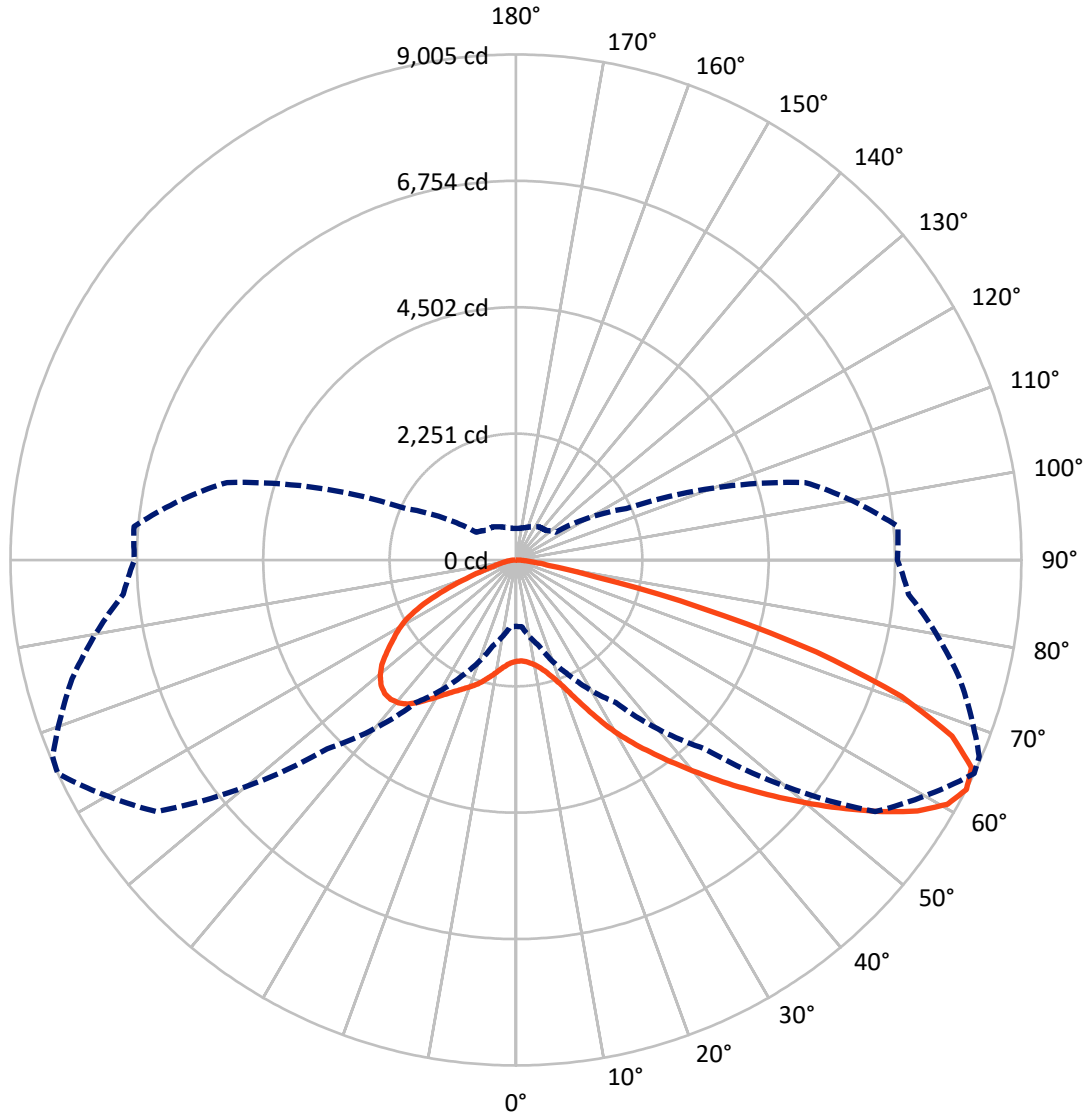
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5166.0	0.0	5166.0
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	11205.0	0.0	11205.0
	% Fixture	68.4	0.0	68.4
Total	Lumens	16371.0	0.0	16371.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.9	1.1
10°-20°	609.9	3.7
20°-30°	1236.7	7.6
30°-40°	2140.0	13.1
40°-50°	3238.5	19.8
50°-60°	3797.0	23.2
60°-70°	3183.3	19.4
70°-80°	1757.4	10.7
80°-90°	228.3	1.4
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°	16371.0	100.0
0°-180°	16371.0	100.0



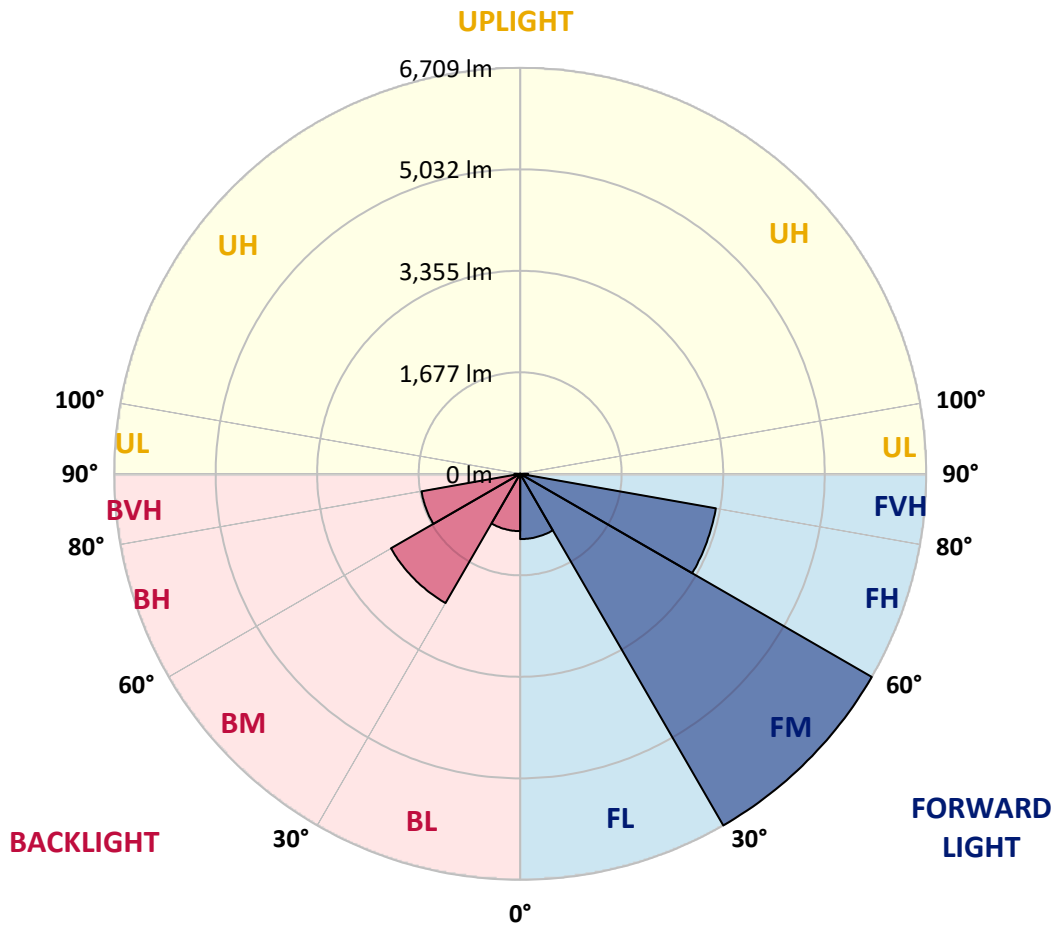
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1079.1	6.6			
FM (30°-60°)	6709.4	41.0			
FH (60°-80°)	3283.5	20.1			G2/5000
FVH (80°-90°)	133.1	0.8			G2/225
BL (0°-30°)	947.4	5.8	B2/1000		
BM (30°-60°)	2466.2	15.1	B2/2500		
BH (60°-80°)	1657.2	10.1	B3/2500		G3/2500
BVH (80°-90°)	95.2	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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	1804.0	1804.0	1804.0	1804.0	1804.0	1804.0	1804.0	1804.0	1804.0	1804.0
2.5°	1792.1	1787.0	1791.3	1791.3	1793.0	1792.1	1798.1	1799.8	1802.3	1807.4
5°	1774.3	1773.4	1781.1	1787.9	1794.7	1800.6	1808.3	1819.3	1821.0	1826.9
7.5°	1768.3	1763.2	1775.1	1783.6	1799.8	1814.2	1834.6	1853.3	1860.9	1863.5
10°	1814.2	1805.7	1816.8	1821.8	1835.4	1849.9	1873.7	1903.4	1911.9	1922.1
12.5°	1892.3	1883.0	1899.1	1906.8	1919.5	1932.3	1948.4	1977.3	1981.5	2000.2
15°	1999.4	1988.3	1998.5	2007.9	2029.1	2041.0	2057.1	2085.1	2085.1	2099.6
17.5°	2144.6	2130.2	2137.8	2141.2	2154.8	2172.6	2199.8	2224.4	2237.2	2232.1
20°	2361.2	2343.3	2343.3	2326.4	2321.3	2335.7	2371.4	2405.4	2418.9	2392.6
22.5°	2686.5	2661.0	2646.6	2588.8	2565.9	2567.6	2603.2	2644.9	2655.9	2609.2
25°	3100.1	3060.2	3040.7	2955.7	2903.9	2858.9	2886.9	2940.4	2955.7	2898.0
27.5°	3513.7	3516.3	3497.6	3395.7	3309.9	3227.5	3213.1	3269.1	3285.3	3219.9
30°	4093.9	4033.5	3997.9	3875.6	3753.3	3637.8	3578.3	3601.2	3605.5	3527.3
32.5°	4594.1	4578.8	4502.4	4395.4	4238.2	4057.3	3958.0	3921.4	3914.6	3803.4
35°	5164.0	5155.5	5074.8	4947.4	4777.6	4526.2	4347.0	4242.5	4234.0	4077.7
37.5°	5743.3	5743.3	5664.3	5525.0	5349.2	5034.9	4762.3	4596.7	4569.5	4365.6
40°	6205.3	6177.3	6191.7	6133.1	5931.8	5598.0	5223.5	4983.1	4946.6	4702.0
42.5°	6467.8	6458.4	6545.1	6610.5	6528.1	6261.4	5731.4	5401.8	5350.9	5072.3
45°	6526.4	6516.2	6670.8	6910.3	7025.8	6916.2	6283.5	5842.7	5780.7	5459.6
47.5°	6391.3	6371.0	6597.7	6975.7	7346.0	7538.8	6881.4	6320.8	6230.8	5836.7
50°	5985.3	5965.8	6309.0	6810.9	7453.9	7961.8	7530.3	6827.9	6690.3	6241.0
52.5°	5102.9	5112.2	5649.9	6339.5	7312.0	8225.1	8089.2	7362.1	7196.5	6654.6
55°	3974.9	3995.3	4656.1	5415.4	6744.7	8185.2	8470.5	7912.5	7747.7	7043.6
57.5°	2846.2	2936.2	3555.4	4307.0	5655.0	7552.4	8553.8	8435.7	8276.0	7468.3
60°	1844.8	1860.9	2497.9	3255.5	4306.2	6427.9	8384.8	8832.4	8707.5	7901.5
62.5°	1182.3	1193.3	1581.5	2277.1	3099.3	4755.5	7815.7	9004.8	8966.6	8187.7
65°	868.9	860.4	1062.5	1505.0	2087.7	2932.8	6710.7	8921.5	8997.1	8366.9
67.5°	725.3	713.5	812.8	1042.1	1538.2	1665.6	4965.3	8380.5	8657.4	8346.5
70°	660.8	650.6	710.9	773.8	1200.1	1115.2	2503.0	7285.7	7712.1	8114.7
72.5°	559.7	541.9	624.3	687.1	933.4	855.3	1034.5	5596.3	6116.1	7371.5
75°	434.0	422.1	492.6	604.7	701.6	667.6	654.0	3398.2	3965.6	5700.8
77.5°	344.0	327.8	392.4	471.4	631.1	503.7	476.5	1463.4	2025.7	3639.5
80°	259.1	244.6	298.1	372.9	485.0	379.7	308.3	597.1	763.6	1843.9
82.5°	184.3	171.6	208.1	273.5	326.1	340.6	189.4	334.6	376.3	710.9
85°	118.1	110.4	139.3	171.6	207.2	219.1	115.5	175.0	192.0	293.0
87.5°	64.6	52.7	74.7	79.8	96.0	87.5	55.2	63.7	68.8	106.2
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°
1804.0	0°	1804.0	1804.0	1804.0	1804.0	1804.0	1804.0	1804.0	1804.0	1804.0	1804.0
1807.4	2.5°	1810.8	1813.4	1821.8	1824.4	1830.3	1838.0	1843.1	1848.2	1848.2	1853.3
1834.6	5°	1835.4	1841.4	1859.2	1868.6	1883.9	1899.1	1908.5	1919.5	1926.3	1929.7
1877.9	7.5°	1883.0	1892.3	1917.8	1934.0	1960.3	1981.5	1996.0	2011.3	2014.7	2024.0
1938.2	10°	1947.6	1958.6	1987.5	2018.0	2049.5	2075.8	2089.4	2100.4	2104.7	2106.4
2015.5	12.5°	2021.4	2037.6	2075.0	2112.3	2145.5	2168.4	2171.8	2169.2	2157.3	2147.1
2110.6	15°	2112.3	2126.8	2168.4	2209.2	2241.4	2245.7	2224.4	2210.9	2196.4	2193.9
2216.8	17.5°	2221.0	2228.7	2266.9	2306.8	2309.4	2294.9	2263.5	2250.8	2237.2	2227.8
2355.2	20°	2347.6	2345.0	2372.2	2389.2	2371.4	2327.2	2279.6	2258.4	2244.8	2233.8
2525.1	22.5°	2498.8	2479.2	2475.8	2471.6	2424.0	2331.5	2266.9	2239.7	2218.5	2203.2
2762.1	25°	2718.8	2644.0	2592.2	2563.3	2456.3	2308.5	2226.1	2165.8	2125.9	2099.6
3051.7	27.5°	2993.9	2868.2	2737.4	2666.9	2456.3	2261.8	2127.6	2029.9	1964.5	1937.4
3332.0	30°	3256.4	3124.7	2931.9	2791.8	2450.4	2185.4	1968.8	1832.9	1756.4	1729.3
3571.5	32.5°	3480.6	3337.1	3138.3	2928.5	2435.9	2061.4	1771.7	1621.4	1547.5	1515.2
3808.5	35°	3688.7	3535.8	3345.6	3078.9	2397.7	1879.6	1555.2	1440.5	1358.1	1306.3
4049.7	37.5°	3901.9	3720.1	3541.8	3214.8	2328.9	1667.3	1388.7	1291.0	1194.2	1124.5
4306.2	40°	4133.8	3916.3	3751.6	3295.5	2215.9	1465.1	1259.6	1170.4	1067.6	993.7
4601.8	42.5°	4404.7	4151.6	3985.1	3337.1	2061.4	1321.6	1175.5	1088.0	991.2	930.9
4918.6	45°	4687.5	4410.7	4198.3	3336.2	1888.9	1254.5	1148.3	1061.7	954.7	891.8
5243.9	47.5°	4984.0	4681.6	4382.6	3281.9	1739.5	1263.8	1133.0	1004.8	886.7	825.6
5572.6	50°	5281.2	4978.0	4561.0	3180.0	1675.8	1243.4	1076.1	924.9	785.6	730.4
5880.9	52.5°	5576.0	5293.1	4714.7	3034.7	1611.2	1167.9	1003.1	821.3	744.0	705.8
6199.4	55°	5872.4	5604.8	4882.0	2823.2	1449.8	1079.5	880.8	782.2	710.9	676.1
6511.1	57.5°	6169.7	5965.0	5040.9	2611.7	1246.8	970.8	813.7	734.7	677.8	648.1
6771.8	60°	6478.8	6376.9	5204.8	2417.2	1046.4	831.5	764.4	696.5	638.7	605.6
7022.4	62.5°	6797.3	6830.4	5333.1	2166.7	862.1	746.6	720.2	650.6	594.5	563.1
7229.6	65°	7118.4	7267.9	5417.1	1819.3	699.0	665.9	672.7	600.5	543.6	516.4
7381.7	67.5°	7360.4	7583.0	5393.4	1376.8	573.3	589.4	613.2	547.8	494.3	473.1
7357.0	70°	7387.6	7545.6	5158.9	942.8	479.9	514.7	547.0	496.0	440.8	425.5
7010.5	72.5°	7025.8	7036.0	4505.8	615.8	406.0	451.9	477.3	443.4	389.9	374.6
6133.1	75°	6077.1	5818.9	3308.2	406.0	339.7	388.2	411.9	388.2	336.3	339.7
4589.0	77.5°	4604.3	4121.0	2008.7	288.8	283.7	326.1	358.4	341.4	297.3	333.8
2307.7	80°	2372.2	2229.5	896.1	215.7	224.2	260.7	294.7	272.6	235.3	224.2
515.6	82.5°	543.6	631.9	353.3	154.6	162.2	187.7	225.1	204.7	169.0	142.7
214.9	85°	190.3	208.1	156.3	96.8	95.1	117.2	152.9	136.7	114.7	91.7
90.9	87.5°	60.3	79.0	58.6	39.1	40.8	52.7	70.5	64.6	53.5	34.8
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>
1804.0
1853.3
1931.4
2020.6
2102.1
2147.1
2193.9
2228.7
2234.6
2208.3
2109.8
1951.0
1745.4
1531.4
1323.3
1143.2
1008.2
942.8
902.0
834.1
733.8
705.8
672.7
643.0
603.0
562.3
515.6
473.9
426.4
373.7
327.8
293.9
204.7
141.0
96.8
36.5
0.0

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