

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: P950100

Luminaire Tested: **GALN-SB4C-927-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950100
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4C-927-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18234 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

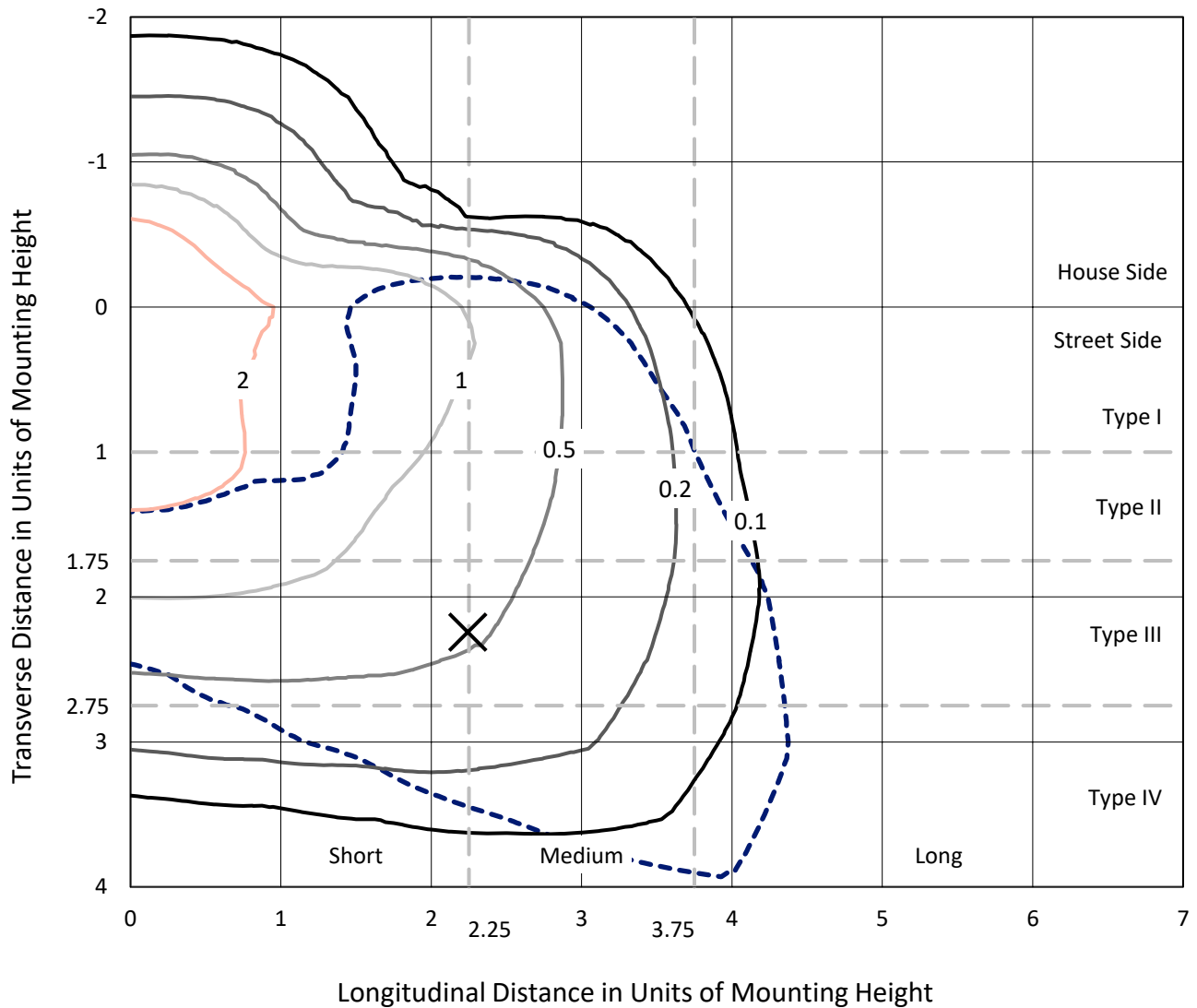
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

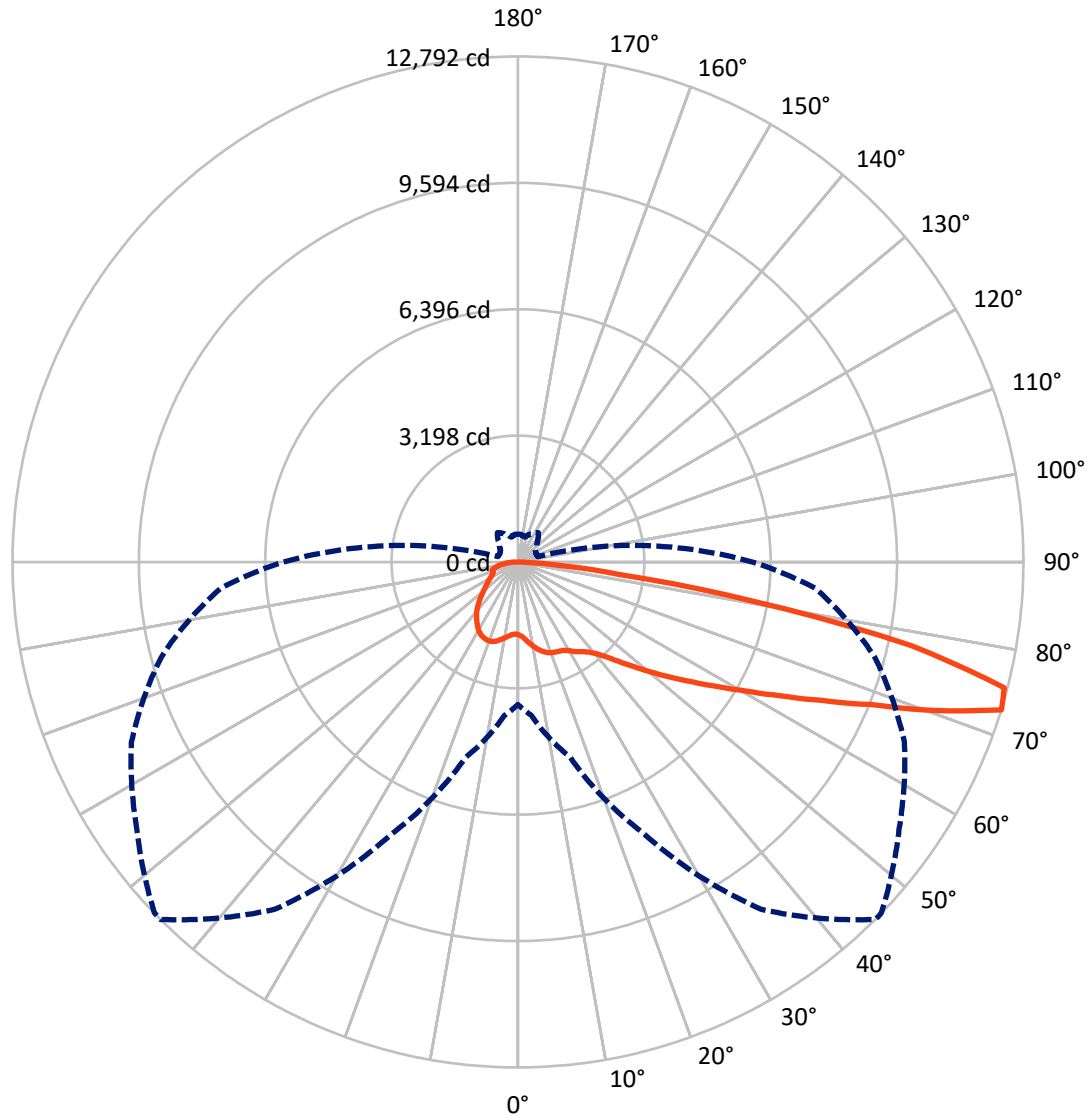
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4122.1	0.0	4122.1
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	14111.9	0.0	14111.9
	% Fixture	77.4	0.0	77.4
Total	Lumens	18234.0	0.0	18234.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.2	1.0
10°-20°	624.2	3.4
20°-30°	1085.9	6.0
30°-40°	1556.6	8.5
40°-50°	2191.8	12.0
50°-60°	3357.3	18.4
60°-70°	4863.5	26.7
70°-80°	3883.8	21.3
80°-90°	483.7	2.7
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°	18234.0	100.0
0°-180°	18234.0	100.0

Coefficient of Utilization

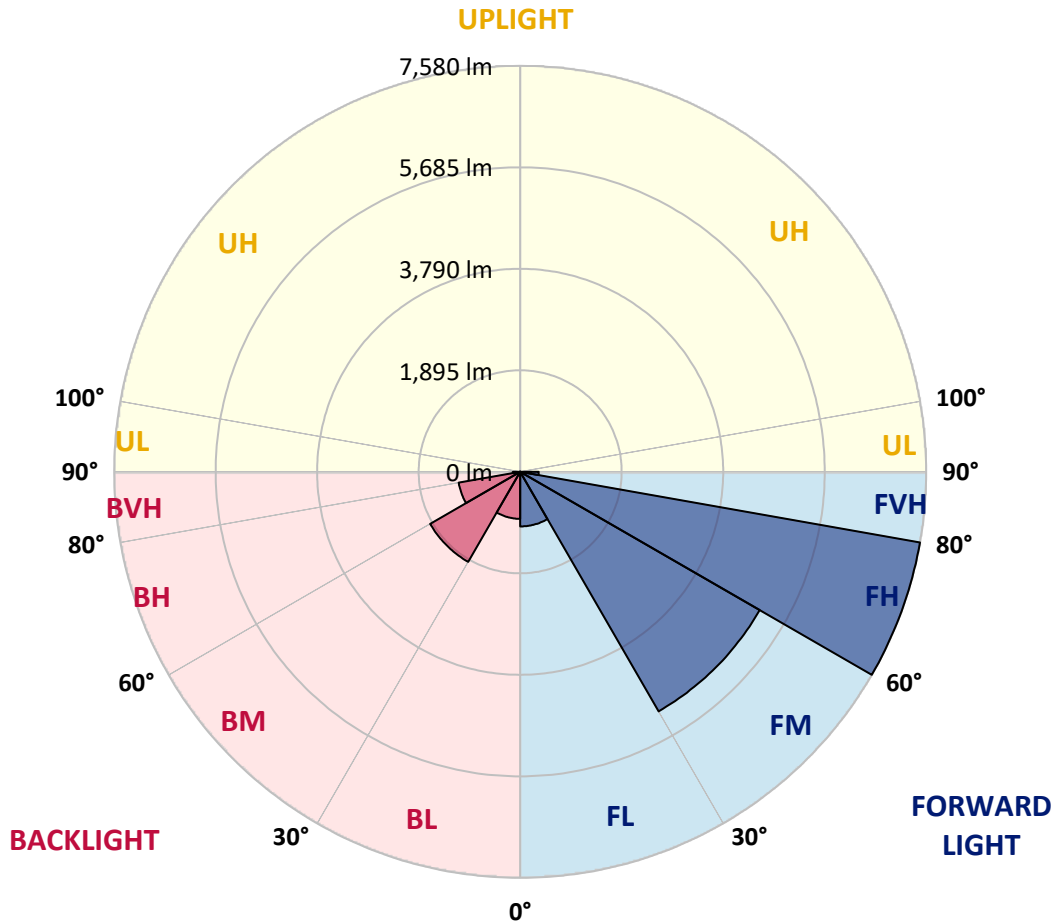


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1019.7	5.6			
FM (30°-60°)	5164.8	28.3			
FH (60°-80°)	7580.4	41.6			G4/12000
FVH (80°-90°)	347.0	1.9			G3/500
BL (0°-30°)	877.6	4.8	B2/1000		
BM (30°-60°)	1940.9	10.6	B2/2500		
BH (60°-80°)	1166.9	6.4	B3/2500		G3/2500
BVH (80°-90°)	136.7	0.7			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1839.5	1839.5	1839.5	1839.5	1839.5	1839.5	1839.5	1839.5	1839.5	1839.5
2.5°	1911.5	1924.0	1912.5	1901.9	1897.1	1884.6	1883.6	1876.0	1871.2	1857.7
5°	2045.0	2061.3	2042.1	2021.0	2001.8	1971.1	1967.2	1945.1	1920.1	1891.3
7.5°	2195.8	2210.2	2188.1	2156.4	2122.8	2071.9	2070.9	2030.6	1991.2	1942.2
10°	2327.4	2346.6	2316.8	2273.6	2231.4	2173.7	2167.0	2120.9	2070.9	2007.6
12.5°	2443.6	2457.1	2428.3	2375.4	2326.5	2268.8	2260.2	2209.3	2153.6	2081.5
15°	2535.9	2553.1	2514.7	2458.1	2406.2	2349.5	2341.8	2295.7	2240.0	2164.1
17.5°	2596.4	2610.8	2571.4	2508.0	2458.1	2411.0	2405.2	2366.8	2317.8	2241.0
20°	2619.4	2634.8	2593.5	2529.1	2483.0	2446.5	2443.6	2415.8	2382.2	2312.0
22.5°	2642.5	2656.9	2603.1	2535.9	2495.5	2472.5	2471.5	2453.2	2439.8	2382.2
25°	2735.7	2739.5	2667.5	2570.4	2512.8	2492.6	2491.7	2490.7	2496.5	2451.3
27.5°	2816.3	2815.4	2753.9	2662.6	2573.3	2531.1	2530.1	2539.7	2557.9	2520.5
30°	2934.5	2923.9	2850.9	2755.8	2674.2	2608.9	2603.1	2594.4	2608.9	2579.1
32.5°	3185.2	3151.6	3033.4	2864.4	2757.7	2707.8	2700.1	2646.3	2652.1	2633.8
35°	3544.4	3500.2	3342.7	3069.9	2861.5	2790.4	2786.6	2718.4	2706.8	2690.5
37.5°	3971.9	3917.1	3733.7	3367.7	3040.1	2886.5	2880.7	2819.2	2772.2	2754.9
40°	4401.2	4332.1	4180.3	3730.8	3303.3	3046.9	3028.6	2935.4	2881.7	2852.8
42.5°	4818.1	4760.5	4630.8	4138.1	3628.0	3281.2	3240.9	3081.4	3041.1	3014.2
45°	5187.0	5135.1	5040.0	4573.2	4008.4	3600.1	3560.8	3300.5	3288.0	3288.0
47.5°	5486.7	5475.1	5374.3	5017.0	4457.0	3963.2	3895.0	3604.9	3638.6	3690.4
50°	5819.0	5787.3	5679.7	5454.0	4984.3	4379.2	4323.4	3978.6	4104.4	4246.6
52.5°	6124.5	6141.8	6021.7	5909.3	5579.8	4843.1	4745.1	4419.5	4691.3	4926.7
55°	6438.6	6439.5	6405.9	6390.5	6204.2	5356.0	5248.5	4949.7	5382.0	5674.0
57.5°	6733.5	6735.4	6785.3	6920.8	6928.5	5947.7	5825.7	5601.0	6149.4	6447.2
60°	6996.7	7010.1	7146.5	7463.5	7565.3	6625.9	6510.6	6370.4	6942.9	7242.6
62.5°	7085.0	7134.0	7437.5	7888.0	8194.5	7457.7	7344.4	7260.8	7776.6	8055.2
65°	6935.2	7047.6	7634.5	8238.6	8841.9	8446.1	8333.7	8242.5	8643.0	8905.3
67.5°	6567.3	6712.3	7622.9	8606.5	9627.6	9635.3	9530.6	9316.4	9571.9	9672.8
70°	5598.1	5815.2	6951.5	8743.9	10529.6	11261.5	11160.6	10609.3	10498.8	10010.9
72.5°	3606.9	3898.9	5118.8	7613.3	10730.3	12791.7	12785.9	11776.4	10791.8	9353.8
75°	1316.0	1494.6	2378.3	4778.7	9007.1	12713.9	12751.3	11576.6	9851.4	7225.3
77.5°	479.3	524.5	776.1	1836.6	5539.5	10201.1	10278.9	9254.9	7012.0	3626.1
80°	251.7	276.6	397.7	712.7	2373.5	6058.2	6180.2	5500.1	3295.7	1092.1
82.5°	139.3	150.8	222.8	387.1	1069.1	2590.6	2663.6	2172.8	1159.4	463.0
85°	74.9	79.7	104.7	211.3	522.5	898.1	918.3	649.3	462.0	271.8
87.5°	22.1	26.9	34.6	67.2	204.6	201.7	206.5	128.7	182.5	137.4
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°
1839.5	0°	1839.5	1839.5	1839.5	1839.5	1839.5	1839.5	1839.5	1839.5	1839.5	1839.5
1853.9	2.5°	1848.1	1845.2	1834.7	1829.9	1824.1	1823.1	1827.9	1828.9	1829.9	1830.8
1875.0	5°	1865.4	1855.8	1846.2	1840.4	1842.3	1843.3	1852.9	1859.6	1864.4	1868.3
1914.4	7.5°	1899.0	1891.3	1875.0	1874.0	1876.9	1885.6	1898.0	1913.4	1922.1	1928.8
1965.3	10°	1949.0	1934.6	1915.3	1918.2	1924.0	1936.5	1962.4	1974.9	1989.3	2001.8
2027.7	12.5°	1999.9	1987.4	1965.3	1967.2	1976.8	1998.9	2023.9	2039.3	2048.9	2058.5
2095.0	15°	2066.1	2044.1	2020.0	2020.0	2037.3	2061.3	2072.9	2085.4	2091.1	2101.7
2167.0	17.5°	2134.3	2105.5	2073.8	2071.9	2093.0	2104.6	2111.3	2113.2	2115.1	2126.7
2237.1	20°	2202.5	2170.8	2125.7	2121.9	2126.7	2124.7	2123.8	2121.9	2124.7	2139.1
2309.2	22.5°	2269.8	2233.3	2170.8	2153.6	2140.1	2121.9	2120.9	2119.9	2121.9	2136.3
2387.0	25°	2348.5	2304.4	2220.8	2168.9	2123.8	2098.8	2101.7	2102.6	2104.6	2116.1
2467.7	27.5°	2434.0	2385.0	2266.9	2164.1	2082.5	2065.2	2060.4	2063.3	2070.0	2088.2
2548.3	30°	2519.5	2461.9	2309.2	2144.9	2030.6	2006.6	1991.2	1997.9	2019.1	2037.3
2618.5	32.5°	2597.3	2539.7	2342.8	2102.6	1964.3	1926.9	1906.7	1915.3	1936.5	1943.2
2696.3	35°	2688.6	2623.3	2357.2	2035.4	1892.3	1834.7	1807.8	1795.3	1805.8	1799.1
2787.5	37.5°	2790.4	2722.2	2355.3	1947.0	1807.8	1741.5	1704.0	1657.0	1634.9	1611.8
2922.0	40°	2941.2	2843.2	2332.2	1840.4	1703.1	1642.5	1575.3	1495.6	1445.6	1400.5
3139.1	42.5°	3146.8	3011.3	2290.0	1723.2	1584.9	1528.2	1437.0	1343.8	1265.0	1190.1
3468.6	45°	3453.2	3231.3	2237.1	1598.4	1457.2	1401.4	1302.5	1197.8	1108.5	1012.4
3936.3	47.5°	3895.0	3527.1	2187.2	1456.2	1322.7	1271.8	1182.4	1085.4	979.8	886.6
4612.6	50°	4502.1	3951.7	2141.1	1317.9	1190.1	1151.7	1080.6	981.7	875.1	800.1
5405.0	52.5°	5274.4	4529.0	2121.9	1184.4	1066.2	1051.8	995.1	902.9	802.1	738.7
6329.1	55°	6161.0	5219.6	2121.9	1056.6	957.7	962.5	923.1	837.6	750.2	693.5
7281.9	57.5°	7065.8	5918.9	2083.4	938.5	865.5	885.6	860.7	785.7	707.0	648.4
8283.8	60°	7899.6	6504.9	1927.8	830.9	783.8	815.5	799.2	734.8	638.8	589.8
9121.4	62.5°	8540.3	6835.3	1628.1	745.4	716.6	753.1	744.4	667.6	626.3	606.1
9809.1	65°	8861.1	6781.5	1244.9	669.5	659.9	716.6	698.3	695.4	662.8	639.7
10033.0	67.5°	8664.2	6318.5	902.9	613.8	627.2	683.0	753.1	764.6	704.1	658.9
9402.8	70°	7800.6	5480.9	672.4	561.0	585.9	683.9	858.7	800.1	690.6	637.8
7541.3	72.5°	5934.3	4087.1	521.6	505.2	532.1	688.7	905.8	783.8	652.2	705.0
4698.1	75°	3393.6	2243.8	418.8	437.1	464.9	643.6	881.8	741.5	622.4	647.4
1861.5	77.5°	1293.9	862.6	345.8	369.8	373.7	561.9	843.4	738.7	592.7	578.3
558.1	80°	448.6	337.2	286.2	293.9	289.1	499.5	808.8	642.6	485.1	434.2
230.5	82.5°	183.5	168.1	226.7	217.1	205.6	388.1	653.2	525.4	396.7	350.6
111.4	85°	79.7	106.6	149.8	131.6	119.1	269.0	523.5	444.7	335.2	289.1
36.5	87.5°	16.3	40.3	63.4	59.6	61.5	179.6	371.7	316.0	237.3	177.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
1839.5
1834.7
1870.2
1930.7
1998.9
2062.3
2105.5
2130.5
2144.9
2145.9
2131.5
2106.5
2057.5
1967.2
1820.2
1626.2
1403.4
1183.4
1000.9
876.0
795.3
733.9
687.8
638.8
582.1
599.4
632.0
651.3
629.2
699.3
647.4
527.3
419.8
346.8
288.2
139.3
0.0

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