

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: P949802

Luminaire Tested: **GALN-SB4B-940-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949802
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-SB4B-940-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16573 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

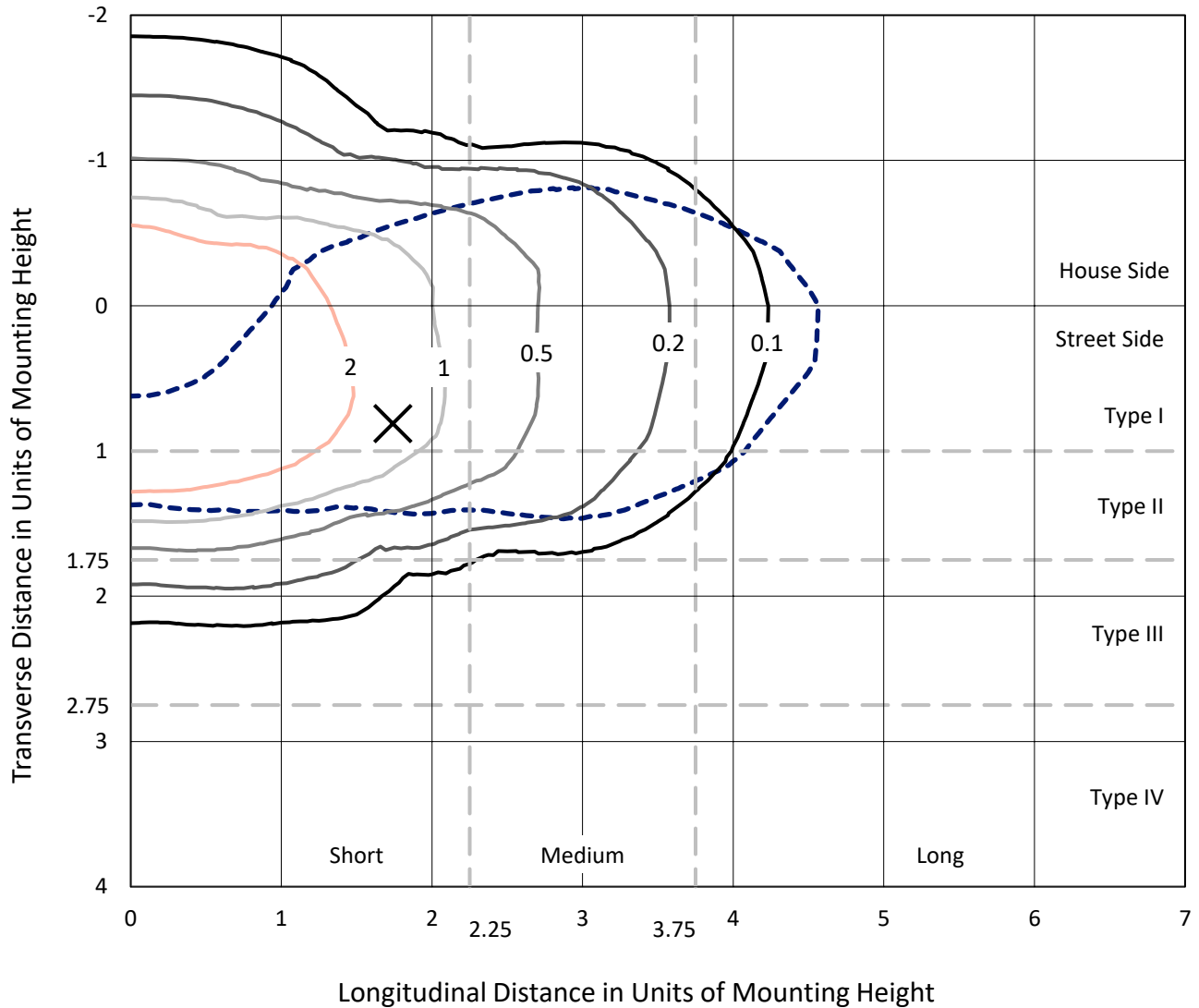
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

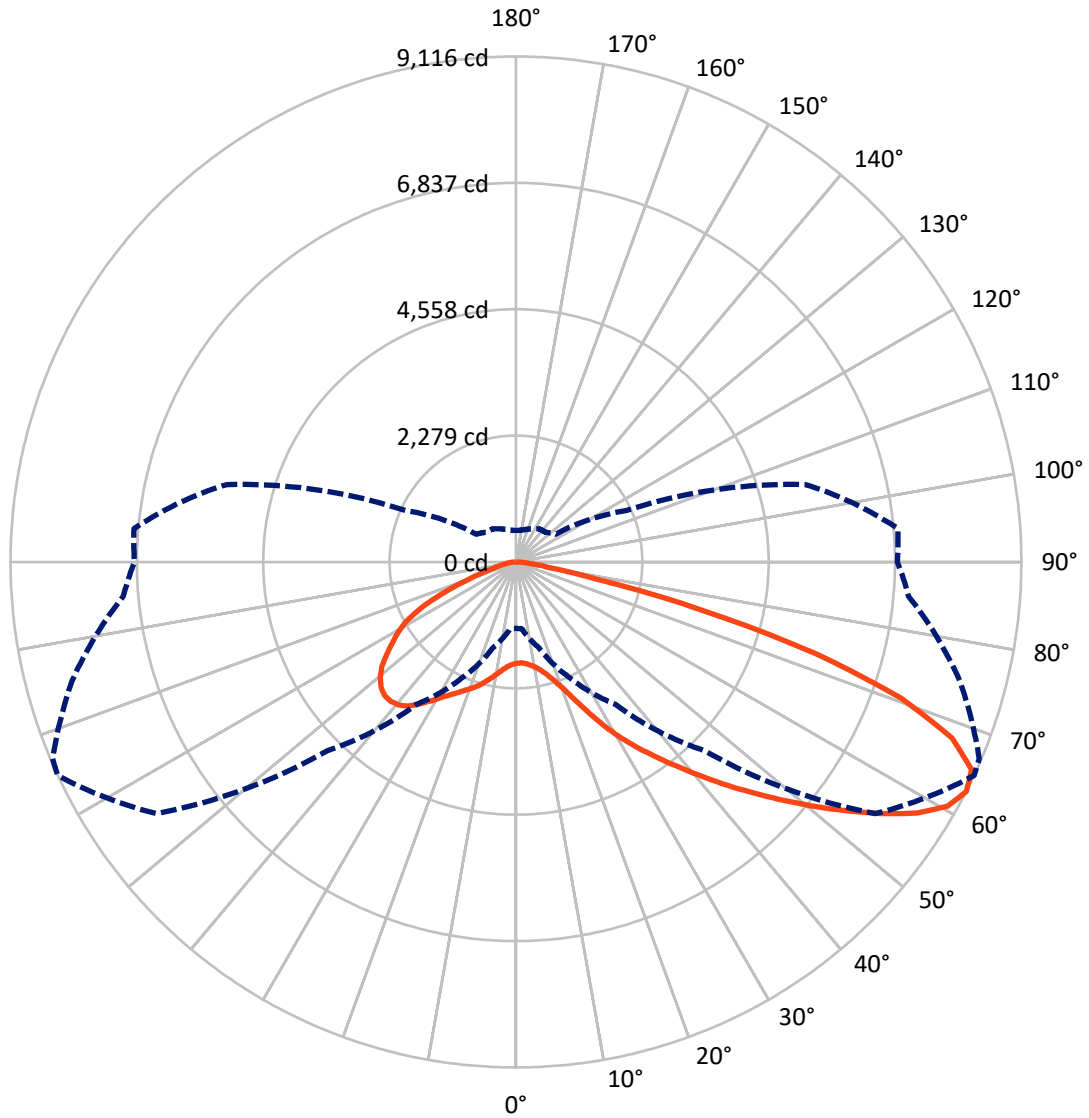
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	5229.7	0.0	5229.7
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	11343.3	0.0	11343.3
	% Fixture	68.4	0.0	68.4
Total	Lumens	16573.0	0.0	16573.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.1	1.1
10°-20°	617.4	3.7
20°-30°	1251.9	7.6
30°-40°	2166.4	13.1
40°-50°	3278.5	19.8
50°-60°	3843.8	23.2
60°-70°	3222.6	19.4
70°-80°	1779.1	10.7
80°-90°	231.1	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°	16573.0	100.0
0°-180°	16573.0	100.0



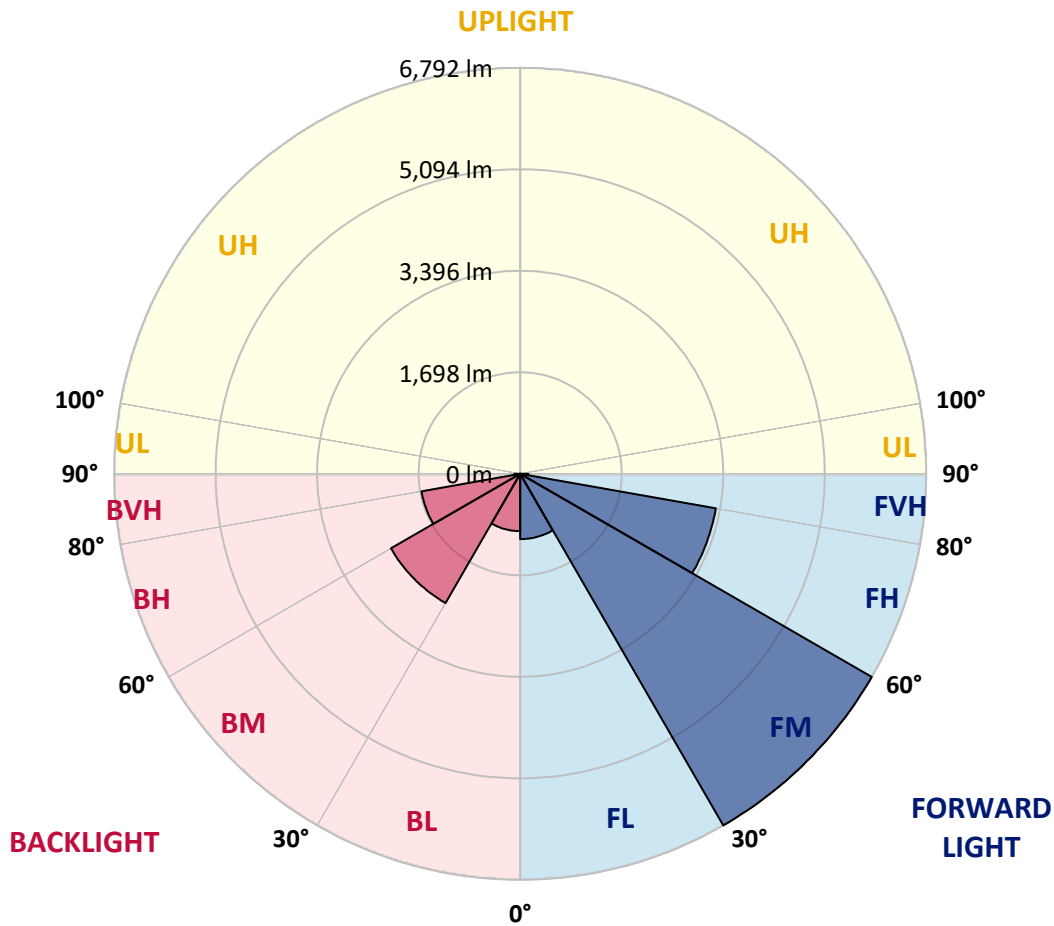
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1092.4	6.6			
FM (30°-60°)	6792.2	41.0			
FH (60°-80°)	3324.1	20.1			G2/5000
FVH (80°-90°)	134.7	0.8			G2/225
BL (0°-30°)	959.1	5.8	B2/1000		
BM (30°-60°)	2496.6	15.1	B2/2500		
BH (60°-80°)	1677.6	10.1	B3/2500		G3/2500
BVH (80°-90°)	96.4	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°	1826.3	1826.3	1826.3	1826.3	1826.3	1826.3	1826.3	1826.3	1826.3	1826.3
2.5°	1814.2	1809.1	1813.4	1813.4	1815.1	1814.2	1820.3	1822.0	1824.6	1829.7
5°	1796.2	1795.3	1803.1	1809.9	1816.8	1822.8	1830.6	1841.7	1843.5	1849.5
7.5°	1790.2	1785.0	1797.0	1805.6	1822.0	1836.6	1857.2	1876.1	1883.9	1886.5
10°	1836.6	1828.0	1839.2	1844.3	1858.1	1872.7	1896.8	1926.9	1935.5	1945.8
12.5°	1915.7	1906.2	1922.6	1930.3	1943.2	1956.1	1972.4	2001.7	2006.0	2024.9
15°	2024.0	2012.9	2023.2	2032.6	2054.1	2066.2	2082.5	2110.9	2110.9	2125.5
17.5°	2171.1	2156.4	2164.2	2167.6	2181.4	2199.4	2227.0	2251.9	2264.8	2259.6
20°	2390.3	2372.3	2372.3	2355.1	2349.9	2364.5	2400.6	2435.0	2448.8	2422.1
22.5°	2719.6	2693.8	2679.2	2620.8	2597.5	2599.3	2635.4	2677.5	2688.7	2641.4
25°	3138.4	3098.0	3078.2	2992.2	2939.7	2894.2	2922.6	2976.7	2992.2	2933.7
27.5°	3557.1	3559.7	3540.8	3437.6	3350.7	3267.3	3252.7	3309.5	3325.8	3259.6
30°	4144.4	4083.3	4047.2	3923.4	3799.6	3682.6	3622.5	3645.7	3650.0	3570.9
32.5°	4650.8	4635.3	4557.9	4449.6	4290.5	4107.4	4006.8	3969.8	3962.9	3850.3
35°	5227.7	5219.2	5137.5	5008.5	4836.5	4582.0	4400.6	4294.8	4286.2	4128.0
37.5°	5814.2	5814.2	5734.2	5593.2	5415.2	5097.1	4821.1	4653.4	4625.9	4419.5
40°	6281.9	6253.5	6268.1	6208.8	6005.0	5667.1	5287.9	5044.6	5007.6	4760.0
42.5°	6547.6	6538.1	6625.8	6692.0	6608.6	6338.6	5802.1	5468.5	5416.9	5134.9
45°	6606.9	6596.6	6753.1	6995.6	7112.5	7001.6	6361.0	5914.8	5852.0	5527.0
47.5°	6470.2	6449.6	6679.1	7061.8	7436.6	7631.8	6966.3	6398.8	6307.7	5908.7
50°	6059.2	6039.4	6386.8	6895.0	7545.8	8060.0	7623.2	6912.1	6772.9	6318.0
52.5°	5165.8	5175.3	5719.6	6417.7	7402.3	8326.6	8189.0	7453.0	7285.3	6736.7
55°	4024.0	4044.6	4713.6	5482.3	6827.9	8286.2	8575.1	8010.1	7843.3	7130.5
57.5°	2881.3	2972.4	3599.2	4360.2	5724.7	7645.6	8659.3	8539.8	8378.2	7560.5
60°	1867.5	1883.9	2528.8	3295.7	4359.3	6507.2	8488.2	8941.3	8814.9	7999.0
62.5°	1196.9	1208.1	1601.0	2305.2	3137.5	4814.2	7912.1	9115.9	9077.2	8288.7
65°	879.6	871.0	1075.6	1523.6	2113.5	2969.0	6793.5	9031.6	9108.1	8470.2
67.5°	734.3	722.3	822.9	1055.0	1557.1	1686.1	5026.5	8483.9	8764.2	8449.5
70°	668.9	658.6	719.7	783.3	1214.9	1129.0	2533.9	7375.6	7807.2	8214.8
72.5°	566.6	548.6	632.0	695.6	944.9	865.8	1047.3	5665.4	6191.6	7462.4
75°	439.4	427.3	498.7	612.2	710.2	675.8	662.1	3440.2	4014.5	5771.2
77.5°	348.2	331.9	397.2	477.2	638.9	509.9	482.4	1481.5	2050.7	3684.4
80°	262.2	247.6	301.8	377.5	491.0	384.3	312.1	604.5	773.0	1866.7
82.5°	186.6	173.7	210.7	276.9	330.2	344.8	191.7	338.8	380.9	719.7
85°	119.5	111.8	141.0	173.7	209.8	221.8	116.9	177.1	194.3	296.6
87.5°	65.3	53.3	75.7	80.8	97.2	88.6	55.9	64.5	69.6	107.5
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°
1826.3	0°	1826.3	1826.3	1826.3	1826.3	1826.3	1826.3	1826.3	1826.3	1826.3	1826.3
1829.7	2.5°	1833.2	1835.7	1844.3	1846.9	1852.9	1860.7	1865.8	1871.0	1871.0	1876.1
1857.2	5°	1858.1	1864.1	1882.2	1891.6	1907.1	1922.6	1932.0	1943.2	1950.1	1953.5
1901.1	7.5°	1906.2	1915.7	1941.5	1957.8	1984.5	2006.0	2020.6	2036.1	2039.5	2049.0
1962.1	10°	1971.6	1982.8	2012.0	2042.9	2074.8	2101.4	2115.2	2126.4	2130.7	2132.4
2040.4	12.5°	2046.4	2062.7	2100.6	2138.4	2171.9	2195.1	2198.6	2196.0	2184.0	2173.6
2136.7	15°	2138.4	2153.0	2195.1	2236.4	2269.1	2273.4	2251.9	2238.1	2223.5	2220.9
2244.1	17.5°	2248.4	2256.2	2294.9	2335.3	2337.9	2323.3	2291.4	2278.5	2264.8	2255.3
2384.3	20°	2376.6	2374.0	2401.5	2418.7	2400.6	2355.9	2307.8	2286.3	2272.5	2261.3
2556.3	22.5°	2529.6	2509.8	2506.4	2502.1	2453.9	2360.2	2294.9	2267.4	2245.9	2230.4
2796.2	25°	2752.3	2676.6	2624.2	2595.0	2486.6	2337.0	2253.6	2192.6	2152.1	2125.5
3089.4	27.5°	3030.9	2903.6	2771.2	2699.9	2486.6	2289.7	2153.9	2055.0	1988.8	1961.3
3373.1	30°	3296.6	3163.3	2968.1	2826.3	2480.6	2212.3	1993.1	1855.5	1778.1	1750.6
3615.6	32.5°	3523.6	3378.3	3177.1	2964.7	2466.0	2086.8	1793.6	1641.4	1566.6	1533.9
3855.5	35°	3734.2	3579.5	3386.9	3116.9	2427.3	1902.8	1574.3	1458.3	1374.9	1322.4
4099.7	37.5°	3950.0	3766.0	3585.5	3254.4	2357.6	1687.8	1405.8	1306.9	1208.9	1138.4
4359.3	40°	4184.8	3964.7	3797.9	3336.1	2243.3	1483.2	1275.1	1184.8	1080.8	1006.0
4658.5	42.5°	4459.1	4202.8	4034.3	3378.3	2086.8	1337.9	1190.0	1101.4	1003.4	942.4
4979.3	45°	4745.4	4465.1	4250.1	3377.4	1912.3	1270.0	1162.5	1074.8	966.4	902.8
5308.6	47.5°	5045.5	4739.4	4436.7	3322.4	1760.9	1279.4	1147.0	1017.2	897.7	835.8
5641.3	50°	5346.4	5039.4	4617.3	3219.2	1696.4	1258.8	1089.4	936.4	795.3	739.5
5953.4	52.5°	5644.8	5358.4	4772.9	3072.2	1631.1	1182.3	1015.5	831.5	753.2	714.5
6275.9	55°	5944.8	5674.0	4942.3	2858.1	1467.7	1092.8	891.6	791.9	719.7	684.4
6591.4	57.5°	6245.8	6038.6	5103.1	2644.0	1262.2	982.8	823.7	743.8	686.1	656.0
6855.4	60°	6558.8	6455.6	5269.0	2447.1	1059.3	841.8	773.8	705.1	646.6	613.1
7109.1	62.5°	6881.2	6914.7	5398.9	2193.4	872.7	755.8	729.1	658.6	601.9	570.1
7318.8	65°	7206.2	7357.5	5484.0	1841.7	707.6	674.1	681.0	607.9	550.3	522.8
7472.8	67.5°	7451.3	7676.5	5459.9	1393.8	580.4	596.7	620.8	554.6	500.4	478.9
7447.8	70°	7478.8	7638.7	5222.6	954.4	485.8	521.1	553.7	502.1	446.3	430.8
7097.0	72.5°	7112.5	7122.8	4561.4	623.4	411.0	457.4	483.2	448.8	394.7	379.2
6208.8	75°	6152.1	5890.7	3349.0	411.0	343.9	392.9	417.0	392.9	340.5	343.9
4645.6	77.5°	4661.1	4171.9	2033.5	292.3	287.2	330.2	362.8	345.7	300.9	337.9
2336.2	80°	2401.5	2257.0	907.1	218.4	227.0	264.0	298.4	276.0	238.2	227.0
521.9	82.5°	550.3	639.7	357.7	156.5	164.2	190.0	227.9	207.2	171.1	144.5
217.5	85°	192.6	210.7	158.2	98.0	96.3	118.7	154.8	138.4	116.1	92.9
92.0	87.5°	61.0	80.0	59.3	39.6	41.3	53.3	71.4	65.3	54.2	35.3
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>
1826.3
1876.1
1955.2
2045.5
2128.1
2173.6
2220.9
2256.2
2262.2
2235.6
2135.8
1975.0
1766.9
1550.3
1339.6
1157.3
1020.6
954.4
913.1
844.4
742.9
714.5
681.0
650.9
610.5
569.2
521.9
479.8
431.6
378.3
331.9
297.5
207.2
142.7
98.0
37.0
0.0

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