

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: P950873

Luminaire Tested: **GALN-SB5A-940-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950873  
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-SB5A-940-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

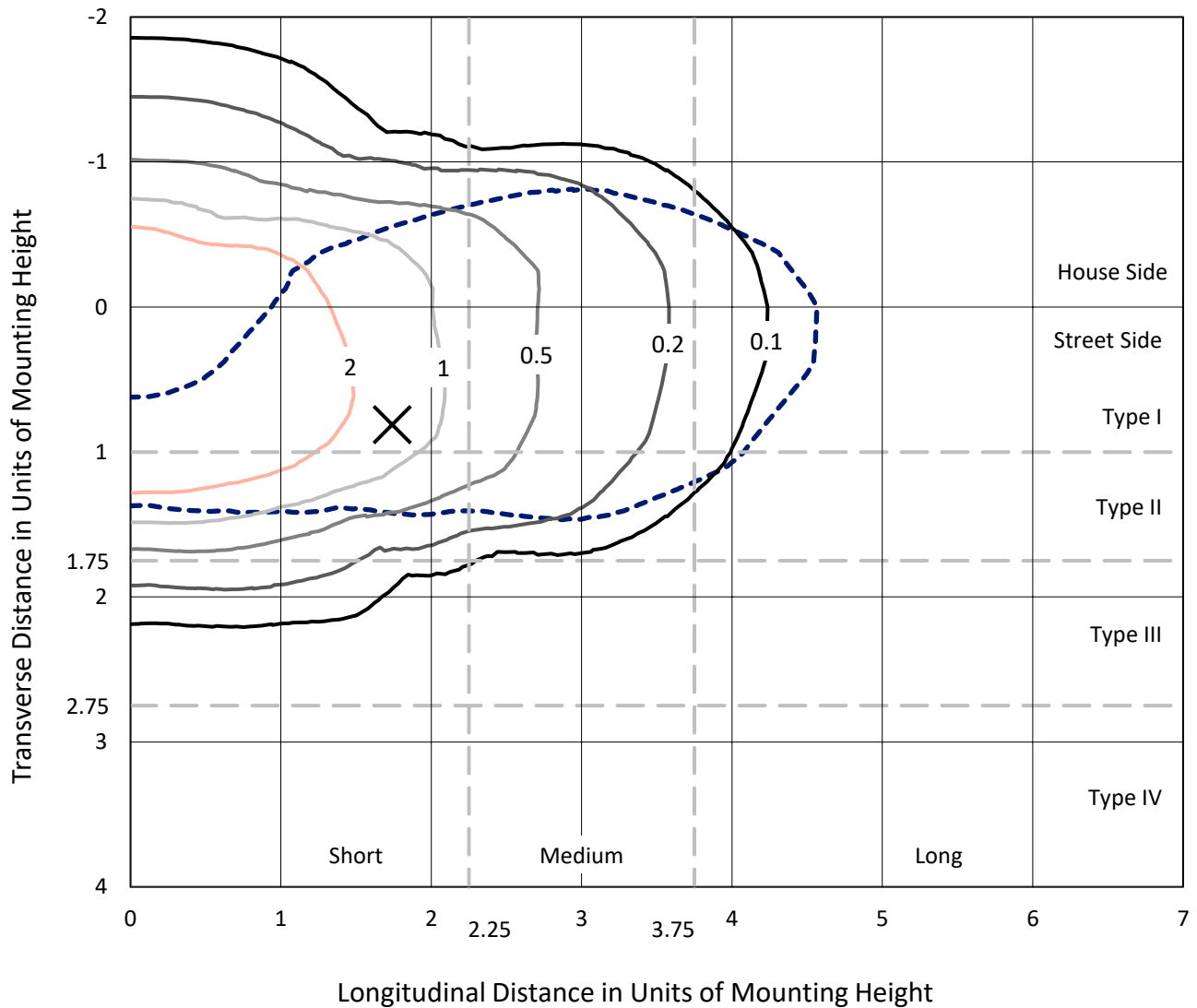
Lumens per Lamp: N/A  
Luminaire Lumens: 16640 lumens  
Efficiency: N/A  
Efficacy: 117.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

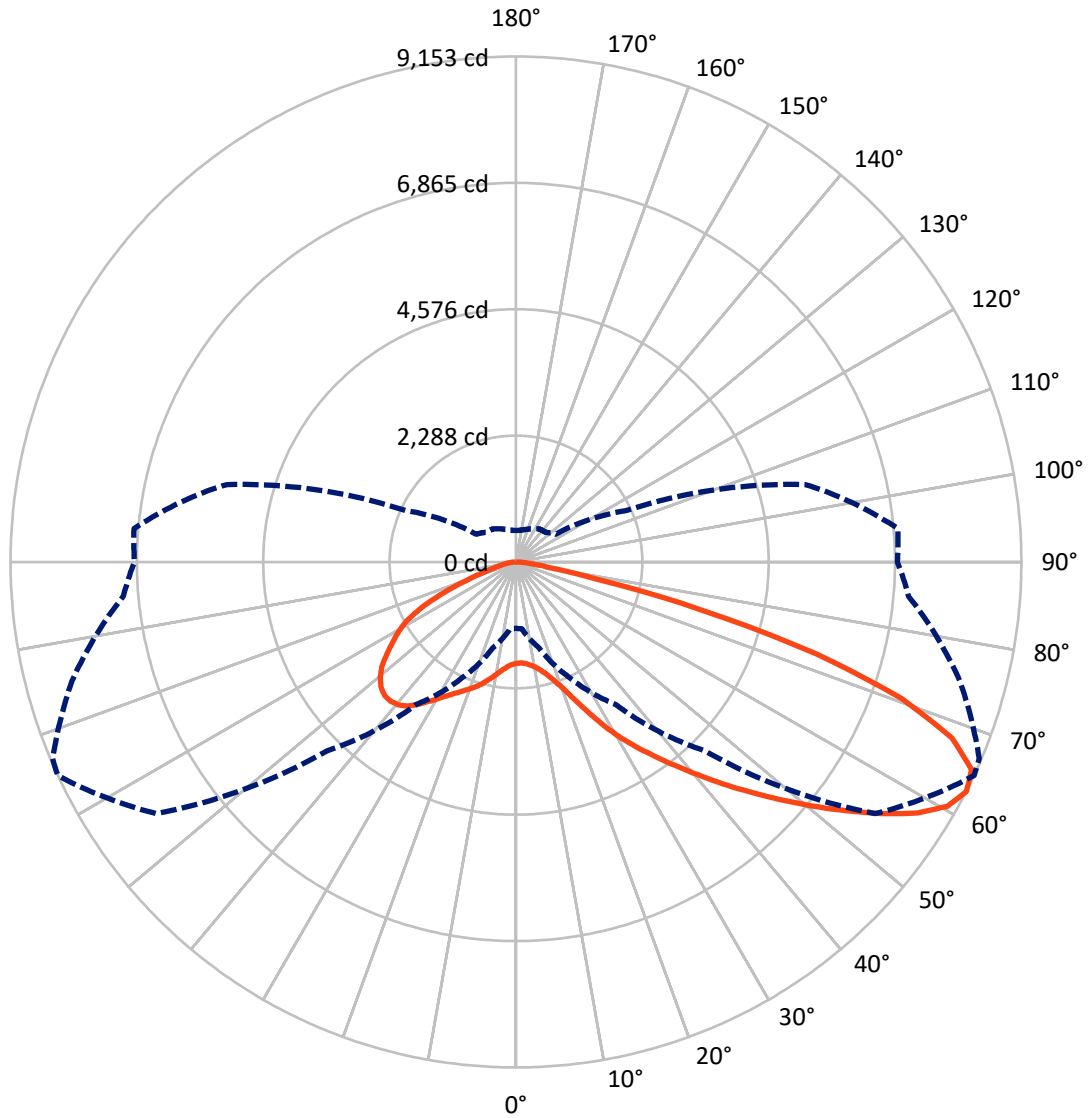
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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
<b>House Side</b>	Lumens	5250.9	0.0	5250.9
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	11389.1	0.0	11389.1
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	16640.0	0.0	16640.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	182.8	1.1
10°-20°	619.9	3.7
20°-30°	1257.0	7.6
30°-40°	2175.2	13.1
40°-50°	3291.7	19.8
50°-60°	3859.4	23.2
60°-70°	3235.6	19.4
70°-80°	1786.3	10.7
80°-90°	232.0	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°	16640.0	100.0
0°-180°	16640.0	100.0



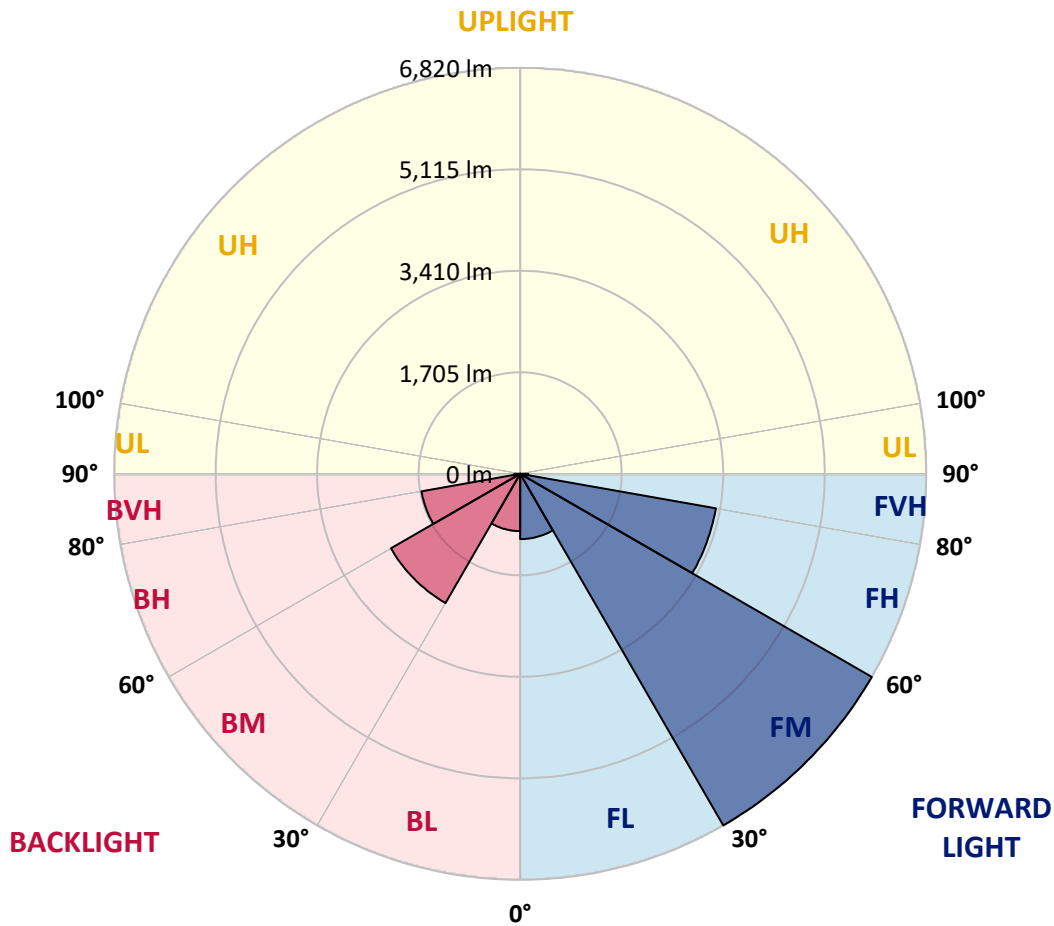
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1096.8	6.6			
FM (30°-60°)	6819.6	41.0			
FH (60°-80°)	3337.5	20.1			G2/5000
FVH (80°-90°)	135.2	0.8			G2/225
BL (0°-30°)	962.9	5.8	B2/1000		
BM (30°-60°)	2506.7	15.1	B3/5000		
BH (60°-80°)	1684.4	10.1	B3/2500		G3/2500
BVH (80°-90°)	96.8	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°	1833.7	1833.7	1833.7	1833.7	1833.7	1833.7	1833.7	1833.7	1833.7	1833.7
2.5°	1821.6	1816.4	1820.7	1820.7	1822.4	1821.6	1827.6	1829.3	1831.9	1837.1
5°	1803.4	1802.6	1810.3	1817.3	1824.2	1830.2	1838.0	1849.2	1850.9	1857.0
7.5°	1797.4	1792.2	1804.3	1812.9	1829.3	1844.0	1864.7	1883.7	1891.5	1894.1
10°	1844.0	1835.4	1846.6	1851.8	1865.6	1880.3	1904.4	1934.7	1943.3	1953.7
12.5°	1923.4	1913.9	1930.3	1938.1	1951.1	1964.0	1980.4	2009.8	2014.1	2033.1
15°	2032.2	2021.0	2031.4	2040.8	2062.4	2074.5	2090.9	2119.4	2119.4	2134.1
17.5°	2179.8	2165.2	2172.9	2176.4	2190.2	2208.3	2236.0	2261.0	2273.9	2268.8
20°	2400.0	2381.9	2381.9	2364.6	2359.4	2374.1	2410.3	2444.9	2458.7	2431.9
22.5°	2730.6	2704.7	2690.1	2631.3	2608.0	2609.8	2646.0	2688.3	2699.5	2652.1
25°	3151.1	3110.5	3090.6	3004.3	2951.6	2905.9	2934.4	2988.8	3004.3	2945.6
27.5°	3571.5	3574.1	3555.1	3451.5	3364.3	3280.6	3265.9	3322.9	3339.3	3272.8
30°	4161.1	4099.8	4063.6	3939.3	3814.9	3697.5	3637.1	3660.4	3664.7	3585.3
32.5°	4669.6	4654.1	4576.4	4467.6	4307.9	4124.0	4023.0	3985.9	3979.0	3865.9
35°	5248.9	5240.2	5158.2	5028.7	4856.1	4600.5	4418.4	4312.2	4303.6	4144.7
37.5°	5837.7	5837.7	5757.4	5615.8	5437.1	5117.7	4840.5	4672.2	4644.6	4437.4
40°	6307.3	6278.8	6293.5	6233.9	6029.3	5690.0	5309.3	5065.0	5027.9	4779.2
42.5°	6574.1	6564.6	6652.6	6719.1	6635.3	6364.3	5825.6	5490.6	5438.8	5155.6
45°	6633.6	6623.3	6780.4	7023.8	7141.2	7029.9	6386.7	5938.7	5875.6	5549.3
47.5°	6496.4	6475.6	6706.1	7090.3	7466.7	7662.7	6994.5	6424.7	6333.2	5932.6
50°	6083.7	6063.8	6412.6	6922.8	7576.3	8092.6	7654.0	6940.1	6800.2	6343.6
52.5°	5186.7	5196.2	5742.7	6443.7	7432.2	8360.2	8222.1	7483.1	7314.8	6764.0
55°	4040.3	4061.0	4732.6	5504.4	6855.5	8319.7	8609.7	8042.5	7875.1	7159.4
57.5°	2892.9	2984.4	3613.8	4377.8	5747.9	7676.5	8694.3	8574.3	8412.0	7591.0
60°	1875.1	1891.5	2539.0	3309.0	4376.9	6533.5	8522.5	8977.5	8850.6	8031.3
62.5°	1201.7	1212.9	1607.5	2314.5	3150.2	4833.6	7944.1	9152.7	9113.9	8322.2
65°	883.2	874.5	1080.0	1529.8	2122.0	2981.0	6821.0	9068.1	9145.0	8504.4
67.5°	737.3	725.2	826.2	1059.3	1563.4	1692.9	5046.9	8518.2	8799.6	8483.7
70°	671.6	661.3	722.6	786.5	1219.8	1133.5	2544.2	7405.4	7838.8	8248.0
72.5°	568.9	550.8	634.5	698.4	948.8	869.3	1051.5	5688.3	6216.6	7492.6
75°	441.1	429.1	500.7	614.7	713.1	678.6	664.7	3454.1	4030.8	5794.5
77.5°	349.6	333.2	398.8	479.1	641.4	511.9	484.3	1487.5	2059.0	3699.3
80°	263.3	248.6	303.0	379.0	492.9	385.9	313.4	606.9	776.1	1874.2
82.5°	187.3	174.4	211.5	278.0	331.5	346.2	192.5	340.1	382.4	722.6
85°	120.0	112.2	141.6	174.4	210.6	222.7	117.4	177.8	195.1	297.8
87.5°	65.6	53.5	76.0	81.2	97.6	88.9	56.1	64.7	69.9	107.9
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°
1833.7	0°	1833.7	1833.7	1833.7	1833.7	1833.7	1833.7	1833.7	1833.7	1833.7	1833.7
1837.1	2.5°	1840.6	1843.2	1851.8	1854.4	1860.4	1868.2	1873.4	1878.5	1878.5	1883.7
1864.7	5°	1865.6	1871.6	1889.8	1899.3	1914.8	1930.3	1939.8	1951.1	1958.0	1961.4
1908.8	7.5°	1913.9	1923.4	1949.3	1965.7	1992.5	2014.1	2028.8	2044.3	2047.8	2057.3
1970.1	10°	1979.6	1990.8	2020.1	2051.2	2083.2	2109.9	2123.7	2134.9	2139.3	2141.0
2048.6	12.5°	2054.7	2071.1	2109.0	2147.0	2180.7	2204.0	2207.5	2204.9	2192.8	2182.4
2145.3	15°	2147.0	2161.7	2204.0	2245.5	2278.3	2282.6	2261.0	2247.2	2232.5	2229.9
2253.2	17.5°	2257.5	2265.3	2304.2	2344.7	2347.3	2332.6	2300.7	2287.8	2273.9	2264.4
2393.9	20°	2386.2	2383.6	2411.2	2428.5	2410.3	2365.5	2317.1	2295.5	2281.7	2270.5
2566.6	22.5°	2539.8	2520.0	2516.5	2512.2	2463.9	2369.8	2304.2	2276.5	2254.9	2239.4
2807.5	25°	2763.4	2687.5	2634.8	2605.4	2496.7	2346.5	2262.7	2201.4	2160.8	2134.1
3101.8	27.5°	3043.1	2915.4	2782.4	2710.8	2496.7	2299.0	2162.6	2063.3	1996.8	1969.2
3386.7	30°	3309.9	3176.1	2980.1	2837.7	2490.6	2221.3	2001.1	1863.0	1785.3	1757.7
3630.2	32.5°	3537.8	3391.9	3189.9	2976.7	2476.0	2095.2	1800.9	1648.0	1572.9	1540.1
3871.1	35°	3749.3	3593.9	3400.6	3129.5	2437.1	1910.5	1580.7	1464.2	1380.4	1327.8
4116.2	37.5°	3966.0	3781.3	3600.0	3267.6	2367.2	1694.7	1411.5	1312.2	1213.8	1143.0
4376.9	40°	4201.7	3980.7	3813.2	3349.6	2252.4	1489.2	1280.3	1189.6	1085.2	1010.1
4677.4	42.5°	4477.1	4219.8	4050.6	3391.9	2095.2	1343.3	1194.8	1105.9	1007.5	946.2
4999.4	45°	4764.6	4483.1	4267.3	3391.1	1920.0	1275.1	1167.2	1079.1	970.4	906.5
5330.0	47.5°	5065.9	4758.5	4454.6	3335.8	1768.0	1284.6	1151.6	1021.3	901.3	839.1
5664.1	50°	5368.0	5059.8	4635.9	3232.2	1703.3	1263.9	1093.8	940.1	798.6	742.4
5977.5	52.5°	5667.6	5380.1	4792.2	3084.6	1637.7	1187.0	1019.6	834.8	756.3	717.4
6301.2	55°	5968.9	5696.9	4962.3	2869.6	1473.7	1097.3	895.2	795.1	722.6	687.2
6618.1	57.5°	6271.0	6063.0	5123.7	2654.7	1267.3	986.8	827.0	746.8	688.9	658.7
6883.1	60°	6585.3	6481.7	5290.3	2457.0	1063.6	845.2	777.0	707.9	649.2	615.5
7137.8	62.5°	6909.0	6942.7	5420.7	2202.3	876.3	758.8	732.1	661.3	604.3	572.4
7348.4	65°	7235.3	7387.3	5506.1	1849.2	710.5	676.8	683.7	610.4	552.5	524.9
7503.0	67.5°	7481.4	7707.6	5482.0	1399.4	582.7	599.1	623.3	556.8	502.4	480.9
7477.9	70°	7509.0	7669.6	5243.7	958.3	487.8	523.2	556.0	504.2	448.1	432.5
7125.7	72.5°	7141.2	7151.6	4579.8	625.9	412.7	459.3	485.2	450.6	396.3	380.7
6233.9	75°	6176.9	5914.5	3362.6	412.7	345.3	394.5	418.7	394.5	341.9	345.3
4664.4	77.5°	4680.0	4188.7	2041.7	293.5	288.3	331.5	364.3	347.0	302.2	339.3
2345.6	80°	2411.2	2266.2	910.8	219.3	227.9	265.0	299.6	277.1	239.1	227.9
524.0	82.5°	552.5	642.3	359.1	157.1	164.9	190.8	228.8	208.1	171.8	145.0
218.4	85°	193.4	211.5	158.8	98.4	96.7	119.1	155.4	139.0	116.5	93.2
92.4	87.5°	61.3	80.3	59.6	39.7	41.4	53.5	71.7	65.6	54.4	35.4
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>
1833.7
1883.7
1963.2
2053.8
2136.7
2182.4
2229.9
2265.3
2271.4
2244.6
2144.4
1983.0
1774.1
1556.5
1345.0
1162.0
1024.7
958.3
916.8
847.8
745.9
717.4
683.7
653.5
612.9
571.5
524.0
481.7
433.4
379.9
333.2
298.7
208.1
143.3
98.4
37.1
0.0

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