

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: P949823

Luminaire Tested: **GALN-SB4B-950-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949823  
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-950-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

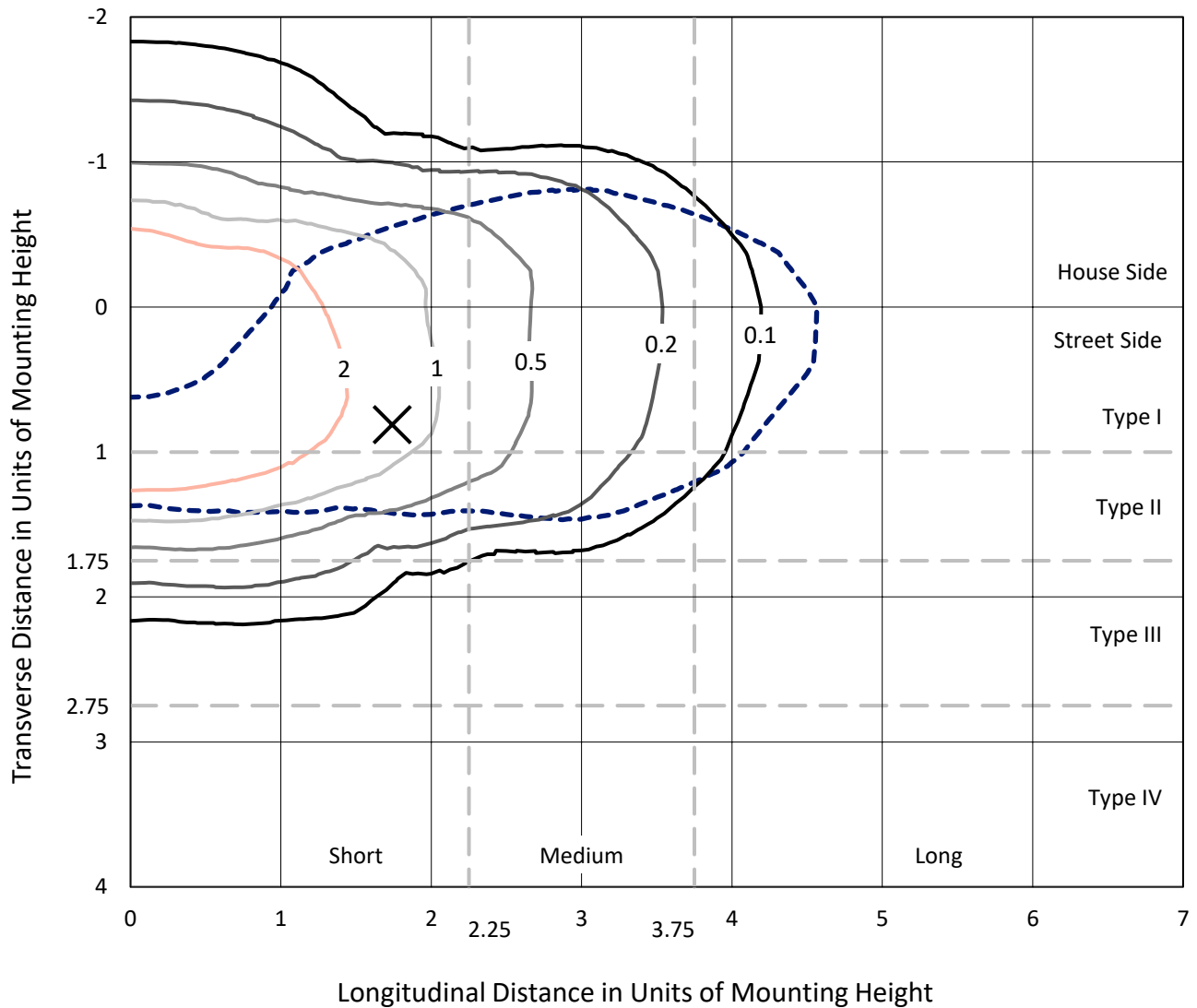
Lumens per Lamp: N/A  
Luminaire Lumens: 15910 lumens  
Efficiency: N/A  
Efficacy: 108.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

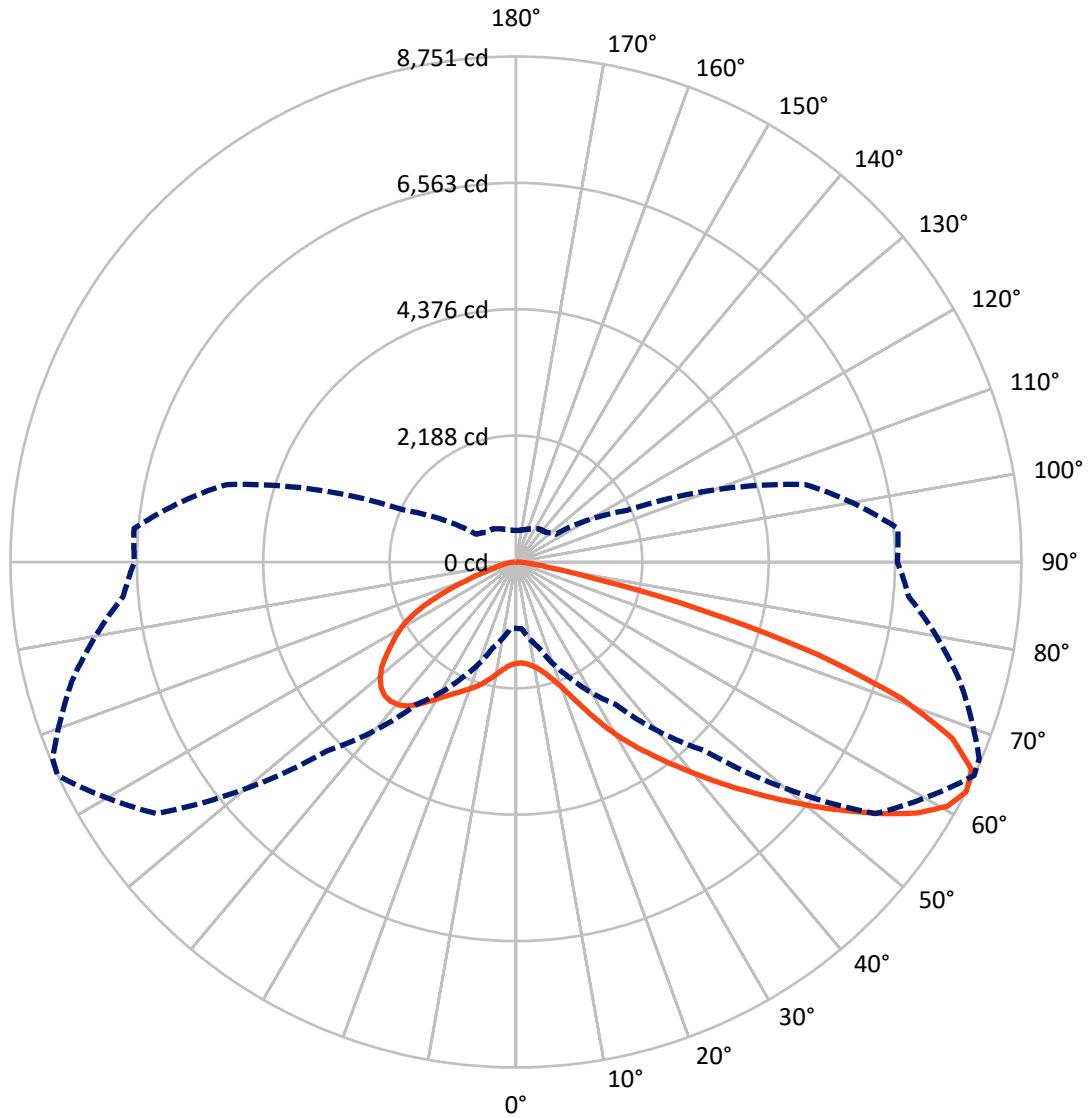
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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	5020.5	0.0	5020.5
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	10889.5	0.0	10889.5
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	15910.0	0.0	15910.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	174.8	1.1
10°-20°	592.7	3.7
20°-30°	1201.8	7.6
30°-40°	2079.8	13.1
40°-50°	3147.3	19.8
50°-60°	3690.0	23.2
60°-70°	3093.7	19.4
70°-80°	1708.0	10.7
80°-90°	221.9	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°	15910.0	100.0
0°-180°	15910.0	100.0



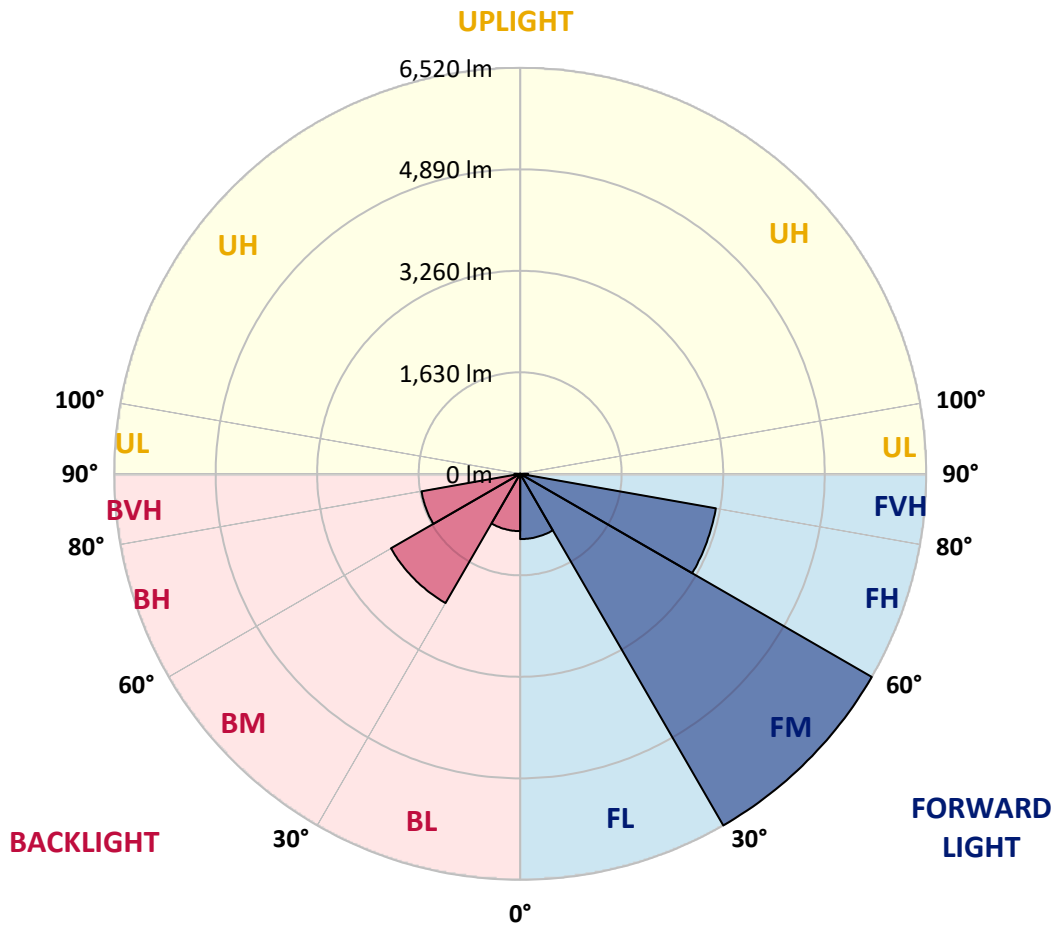
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1048.7	6.6			
FM (30°-60°)	6520.4	41.0			
FH (60°-80°)	3191.1	20.1			G2/5000
FVH (80°-90°)	129.3	0.8			G2/225
BL (0°-30°)	920.7	5.8	B2/1000		
BM (30°-60°)	2396.7	15.1	B2/2500		
BH (60°-80°)	1610.5	10.1	B3/2500		G3/2500
BVH (80°-90°)	92.6	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°	1753.2	1753.2	1753.2	1753.2	1753.2	1753.2	1753.2	1753.2	1753.2	1753.2
2.5°	1741.7	1736.7	1740.8	1740.8	1742.5	1741.7	1747.4	1749.1	1751.6	1756.5
5°	1724.3	1723.5	1730.9	1737.5	1744.1	1749.9	1757.3	1768.1	1769.7	1775.5
7.5°	1718.5	1713.6	1725.1	1733.4	1749.1	1763.1	1782.9	1801.1	1808.5	1811.0
10°	1763.1	1754.9	1765.6	1770.5	1783.8	1797.8	1820.9	1849.8	1858.0	1867.9
12.5°	1839.1	1830.0	1845.7	1853.1	1865.5	1877.9	1893.5	1921.6	1925.7	1943.9
15°	1943.1	1932.3	1942.2	1951.3	1972.0	1983.5	1999.2	2026.4	2026.4	2040.5
17.5°	2084.2	2070.2	2077.6	2080.9	2094.1	2111.4	2137.9	2161.8	2174.2	2169.2
20°	2294.7	2277.4	2277.4	2260.9	2255.9	2269.9	2304.6	2337.6	2350.8	2325.2
22.5°	2610.8	2586.1	2572.0	2515.9	2493.6	2495.3	2529.9	2570.4	2581.1	2535.7
25°	3012.8	2974.0	2955.0	2872.5	2822.1	2778.4	2805.6	2857.6	2872.5	2816.4
27.5°	3414.8	3417.3	3399.1	3300.1	3216.7	3136.6	3122.6	3177.1	3192.8	3129.2
30°	3978.6	3920.0	3885.3	3766.4	3647.6	3535.3	3477.5	3499.8	3503.9	3428.0
32.5°	4464.8	4449.9	4375.6	4271.6	4118.9	3943.1	3846.5	3811.0	3804.4	3696.3
35°	5018.6	5010.4	4931.9	4808.1	4643.0	4398.7	4224.5	4123.0	4114.8	3962.9
37.5°	5581.6	5581.6	5504.8	5369.4	5198.6	4893.1	4628.2	4467.2	4440.8	4242.7
40°	6030.6	6003.4	6017.4	5960.4	5764.8	5440.4	5076.4	4842.8	4807.3	4569.6
42.5°	6285.6	6276.6	6360.8	6424.3	6344.3	6085.1	5570.0	5249.7	5200.2	4929.5
45°	6342.6	6332.7	6482.9	6715.7	6828.0	6721.5	6106.5	5678.1	5617.9	5305.9
47.5°	6211.4	6191.5	6411.9	6779.3	7139.1	7326.5	6687.6	6142.8	6055.4	5672.4
50°	5816.8	5797.8	6131.3	6619.1	7244.0	7737.6	7318.3	6635.6	6501.9	6065.3
52.5°	4959.2	4968.3	5490.8	6161.0	7106.1	7993.5	7861.4	7154.8	6993.9	6467.2
55°	3863.0	3882.8	4525.0	5262.9	6554.7	7954.7	8232.0	7689.7	7529.6	6845.3
57.5°	2766.0	2853.5	3455.2	4185.8	5495.7	7339.7	8312.9	8198.2	8043.0	7258.0
60°	1792.8	1808.5	2427.6	3163.9	4184.9	6246.9	8148.6	8583.6	8462.3	7679.0
62.5°	1149.0	1159.7	1537.0	2213.0	3012.0	4621.6	7595.6	8751.2	8714.1	7957.1
65°	844.4	836.2	1032.6	1462.7	2028.9	2850.2	6521.7	8670.3	8743.8	8131.3
67.5°	704.9	693.4	789.9	1012.8	1494.9	1618.7	4825.5	8144.5	8413.6	8111.5
70°	642.2	632.3	690.9	752.0	1166.3	1083.8	2432.5	7080.5	7494.9	7886.2
72.5°	544.0	526.6	606.7	667.8	907.1	831.2	1005.4	5438.8	5943.9	7163.9
75°	421.8	410.2	478.7	587.7	681.8	648.8	635.6	3302.5	3853.9	5540.3
77.5°	334.3	318.6	381.3	458.1	613.3	489.5	463.1	1422.2	1968.7	3537.0
80°	251.8	237.7	289.7	362.4	471.3	369.0	299.6	580.3	742.1	1792.0
82.5°	179.1	166.7	202.2	265.8	317.0	331.0	184.1	325.2	365.7	690.9
85°	114.7	107.3	135.4	166.7	201.4	213.0	112.3	170.0	186.5	284.8
87.5°	62.7	51.2	72.6	77.6	93.3	85.0	53.7	61.9	66.9	103.2
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°
1753.2	0°	1753.2	1753.2	1753.2	1753.2	1753.2	1753.2	1753.2	1753.2	1753.2	1753.2
1756.5	2.5°	1759.8	1762.3	1770.5	1773.0	1778.8	1786.2	1791.2	1796.1	1796.1	1801.1
1782.9	5°	1783.8	1789.5	1806.9	1815.9	1830.8	1845.7	1854.7	1865.5	1872.1	1875.4
1825.0	7.5°	1830.0	1839.1	1863.8	1879.5	1905.1	1925.7	1939.8	1954.6	1957.9	1967.0
1883.6	10°	1892.7	1903.4	1931.5	1961.2	1991.8	2017.4	2030.6	2041.3	2045.4	2047.1
1958.7	12.5°	1964.5	1980.2	2016.5	2052.8	2085.0	2107.3	2110.6	2108.1	2096.6	2086.7
2051.2	15°	2052.8	2066.9	2107.3	2146.9	2178.3	2182.4	2161.8	2148.6	2134.6	2132.1
2154.4	17.5°	2158.5	2165.9	2203.1	2241.9	2244.3	2230.3	2199.8	2187.4	2174.2	2165.1
2288.9	20°	2281.5	2279.0	2305.4	2321.9	2304.6	2261.7	2215.5	2194.8	2181.6	2170.9
2454.0	22.5°	2428.4	2409.4	2406.1	2402.0	2355.8	2265.8	2203.1	2176.7	2156.0	2141.2
2684.3	25°	2642.2	2569.6	2519.2	2491.1	2387.1	2243.5	2163.5	2104.8	2066.1	2040.5
2965.8	27.5°	2909.6	2787.5	2660.4	2591.8	2387.1	2198.1	2067.7	1972.8	1909.2	1882.8
3238.2	30°	3164.7	3036.8	2849.4	2713.2	2381.4	2123.8	1913.3	1781.3	1707.0	1680.6
3470.9	32.5°	3382.6	3243.1	3050.0	2846.1	2367.3	2003.3	1721.8	1575.7	1503.9	1472.6
3701.2	35°	3584.8	3436.3	3251.4	2992.2	2330.2	1826.7	1511.4	1399.9	1319.9	1269.5
3935.6	37.5°	3792.0	3615.4	3442.0	3124.3	2263.3	1620.3	1349.6	1254.7	1160.6	1092.9
4184.9	40°	4017.4	3806.1	3645.9	3202.7	2153.5	1423.9	1224.1	1137.4	1037.6	965.8
4472.2	42.5°	4280.7	4034.7	3872.9	3243.1	2003.3	1284.4	1142.4	1057.4	963.3	904.7
4780.1	45°	4555.5	4286.5	4080.1	3242.3	1835.8	1219.2	1116.0	1031.8	927.8	866.7
5096.2	47.5°	4843.6	4549.8	4259.2	3189.5	1690.5	1228.2	1101.1	976.5	861.7	802.3
5415.6	50°	5132.5	4837.8	4432.6	3090.4	1628.6	1208.4	1045.8	898.9	763.5	709.9
5715.3	52.5°	5418.9	5144.1	4582.0	2949.3	1565.8	1135.0	974.8	798.2	723.1	685.9
6024.8	55°	5707.0	5447.0	4744.6	2743.7	1409.0	1049.1	856.0	760.2	690.9	657.0
6327.7	57.5°	5995.9	5797.0	4898.9	2538.2	1211.7	943.5	790.8	714.0	658.7	629.8
6581.2	60°	6296.4	6197.3	5058.2	2349.2	1016.9	808.1	742.9	676.9	620.7	588.5
6824.7	62.5°	6605.9	6638.1	5182.9	2105.7	837.8	725.6	700.0	632.3	577.8	547.3
7026.1	65°	6917.9	7063.2	5264.6	1768.1	679.3	647.1	653.7	583.6	528.3	501.9
7173.8	67.5°	7153.2	7369.4	5241.5	1338.0	557.2	572.8	596.0	532.4	480.4	459.8
7149.9	70°	7179.6	7333.1	5013.7	916.2	466.4	500.2	531.6	482.1	428.4	413.5
6813.1	72.5°	6828.0	6837.9	4378.9	598.4	394.6	439.1	463.9	430.9	378.9	364.0
5960.4	75°	5906.0	5655.0	3215.0	394.6	330.2	377.2	400.3	377.2	326.9	330.2
4459.8	77.5°	4474.7	4005.0	1952.1	280.6	275.7	317.0	348.3	331.8	288.9	324.4
2242.7	80°	2305.4	2166.8	870.8	209.7	217.9	253.4	286.4	265.0	228.6	217.9
501.0	82.5°	528.3	614.1	343.4	150.2	157.7	182.4	218.7	198.9	164.3	138.7
208.8	85°	184.9	202.2	151.9	94.1	92.4	113.9	148.6	132.9	111.4	89.1
88.3	87.5°	58.6	76.8	57.0	38.0	39.6	51.2	68.5	62.7	52.0	33.8
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>
1753.2
1801.1
1877.0
1963.7
2042.9
2086.7
2132.1
2165.9
2171.7
2146.1
2050.4
1896.0
1696.3
1488.3
1286.0
1111.0
979.8
916.2
876.6
810.6
713.2
685.9
653.7
624.9
586.1
546.4
501.0
460.6
414.4
363.2
318.6
285.6
198.9
137.0
94.1
35.5
0.0

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