

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: P939777

Luminaire Tested: **GALN-SB2C-740-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939777
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2C-740-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15856 lumens
Efficiency: N/A
Efficacy: 157.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

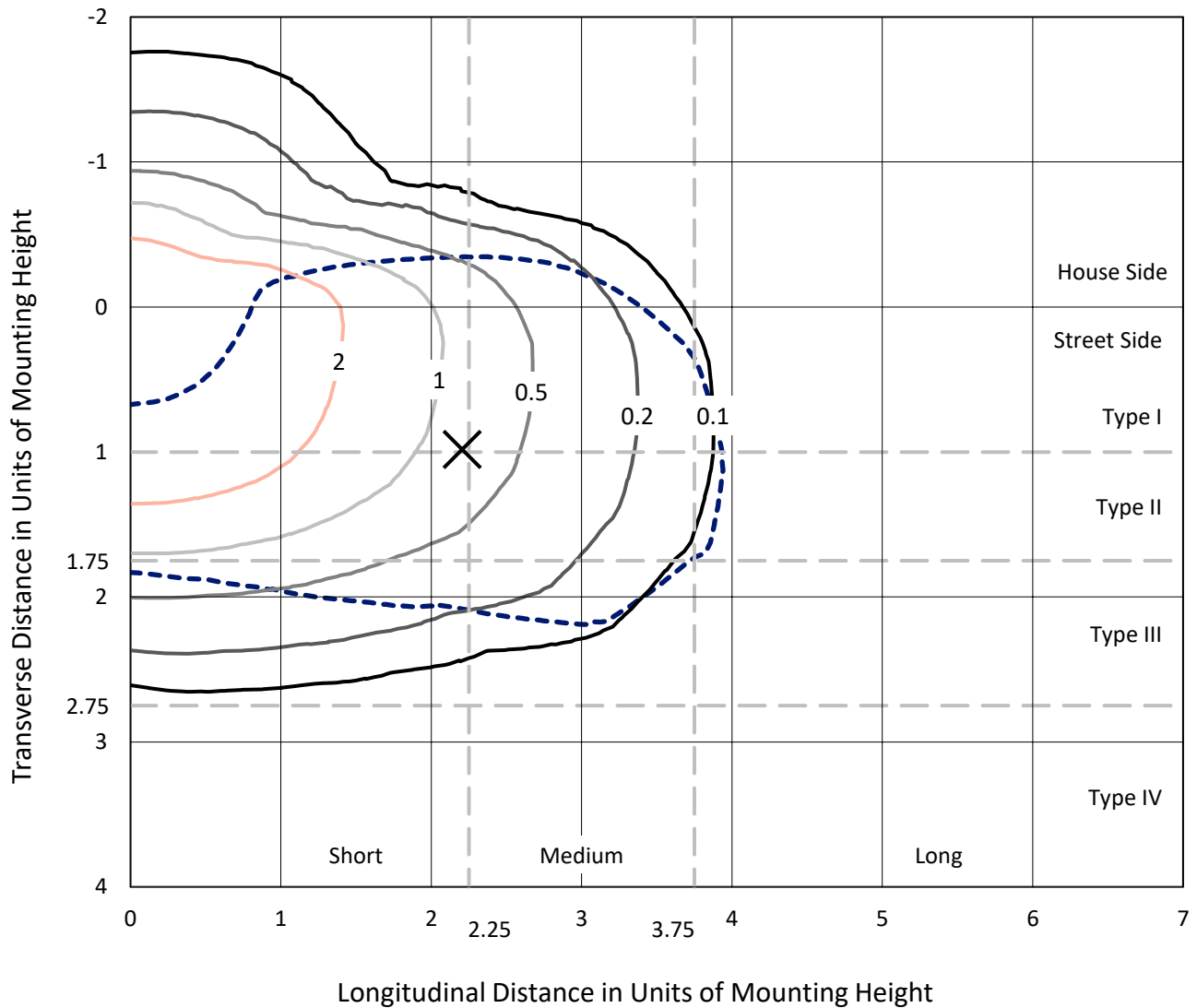
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

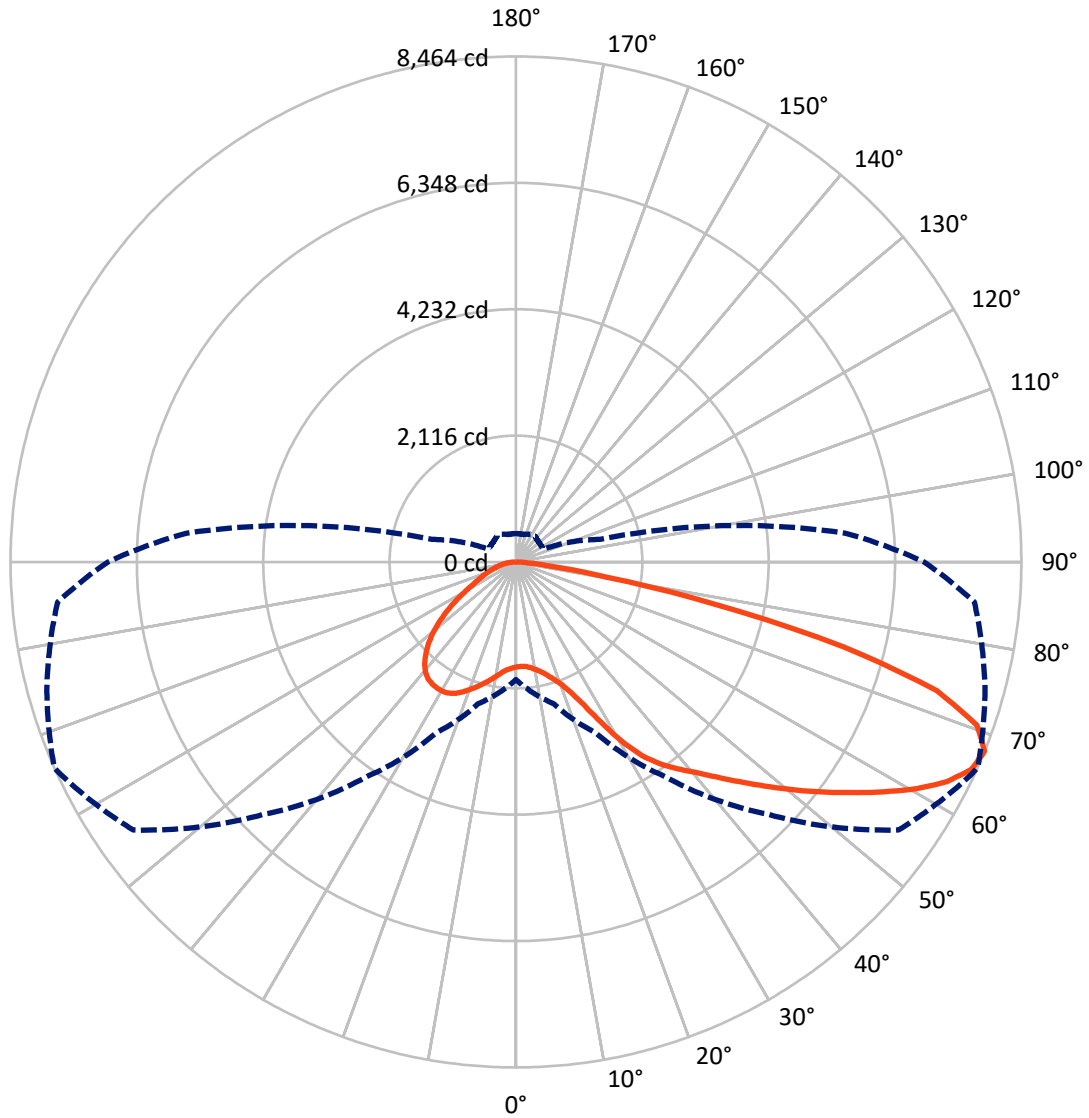
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3942.5	0.0	3942.5
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	11913.5	0.0	11913.5
	% Fixture	75.1	0.0	75.1
Total	Lumens	15856.0	0.0	15856.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.4	1.1
10°-20°	576.1	3.6
20°-30°	1110.3	7.0
30°-40°	1946.8	12.3
40°-50°	2894.3	18.3
50°-60°	3668.8	23.1
60°-70°	3589.9	22.6
70°-80°	1712.4	10.8
80°-90°	183.0	1.2
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°	15856.0	100.0
0°-180°	15856.0	100.0

Coefficient of Utilization



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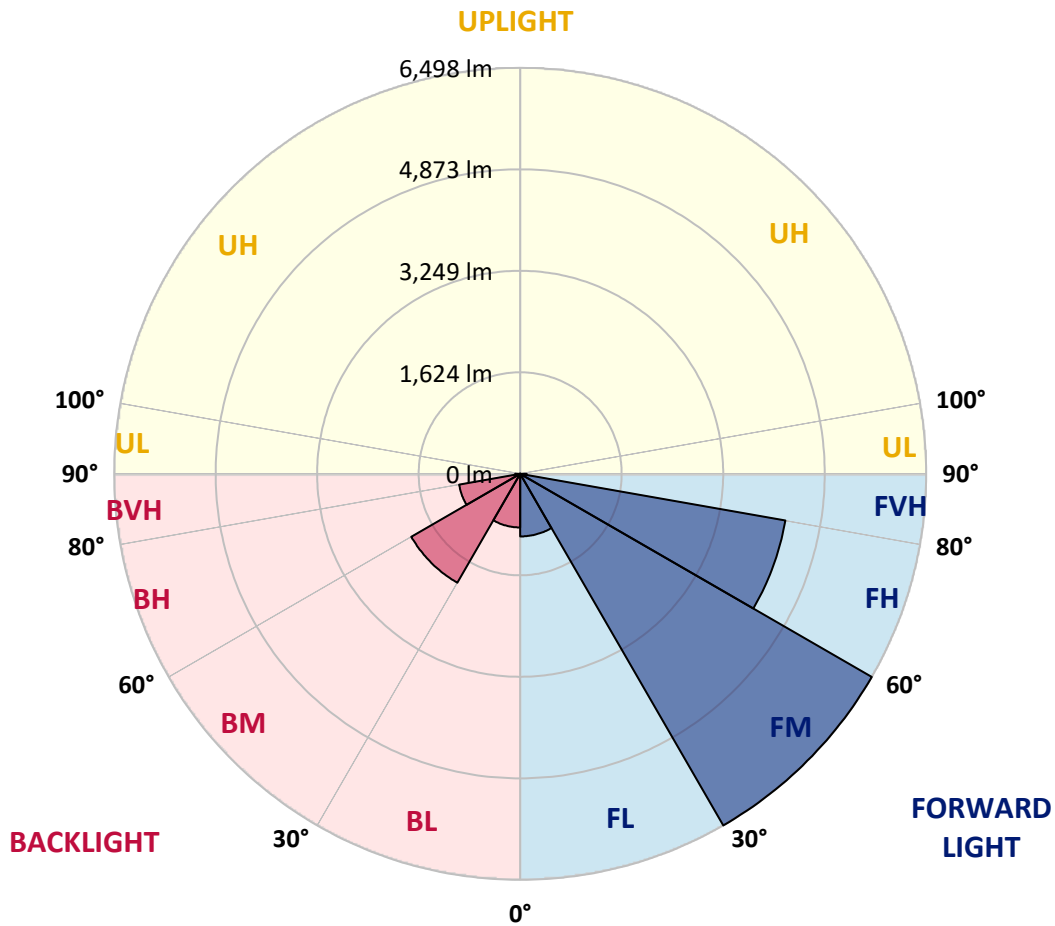
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1001.9	6.3			
FM (30°-60°)	6497.7	41.0			
FH (60°-80°)	4310.1	27.2			G2/5000
FVH (80°-90°)	103.8	0.7			G2/225
BL (0°-30°)	858.8	5.4	B2/1000		
BM (30°-60°)	2012.3	12.7	B2/2500		
BH (60°-80°)	992.2	6.3	B2/1000		G2/1000
BVH (80°-90°)	79.2	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	1758.6	1758.6	1758.6	1758.6	1758.6	1758.6	1758.6	1758.6	1758.6	1758.6
2.5°	1740.3	1750.3	1747.8	1743.6	1742.8	1744.5	1747.0	1749.5	1748.6	1752.8
5°	1735.3	1745.3	1744.5	1744.5	1747.8	1754.5	1758.6	1762.8	1758.6	1763.6
7.5°	1738.6	1746.1	1749.5	1752.8	1761.1	1773.6	1783.6	1792.8	1787.8	1793.6
10°	1781.1	1787.0	1790.3	1790.3	1796.1	1810.3	1820.3	1836.9	1832.8	1841.9
12.5°	1858.6	1864.4	1864.4	1861.1	1865.3	1874.4	1877.8	1896.1	1888.6	1903.6
15°	1953.6	1965.2	1956.1	1950.2	1951.9	1961.1	1960.2	1974.4	1966.9	1979.4
17.5°	2058.6	2073.5	2058.6	2057.7	2054.4	2064.4	2065.2	2077.7	2064.4	2073.5
20°	2182.7	2203.5	2191.0	2195.2	2187.7	2191.8	2196.0	2214.3	2193.5	2200.2
22.5°	2357.6	2382.6	2369.3	2385.1	2380.1	2376.8	2376.0	2408.4	2376.0	2378.5
25°	2612.6	2642.5	2619.2	2640.9	2640.9	2651.7	2664.2	2705.9	2651.7	2635.9
27.5°	2989.1	3019.1	2973.3	2986.6	2982.4	3009.1	2995.8	3099.1	3040.8	3014.9
30°	3442.3	3495.6	3409.0	3405.6	3401.5	3444.0	3463.1	3531.4	3472.3	3446.5
32.5°	3932.2	3988.0	3884.7	3854.7	3838.9	3864.7	3848.8	3903.8	3863.0	3823.0
35°	4450.3	4505.3	4407.0	4348.7	4285.4	4231.2	4174.6	4188.7	4150.4	4089.6
37.5°	4940.2	5041.0	4936.9	4874.4	4757.7	4651.9	4493.7	4427.8	4392.0	4336.2
40°	5439.2	5496.7	5417.5	5364.2	5237.6	5071.8	4818.6	4679.4	4631.1	4577.0
42.5°	5806.6	5861.6	5819.1	5782.4	5683.3	5490.9	5163.5	4989.3	4919.4	4858.5
45°	6098.2	6139.0	6112.3	6125.7	6083.2	5896.6	5520.8	5321.7	5249.3	5175.1
47.5°	6215.6	6259.0	6301.4	6380.6	6453.1	6315.6	5904.9	5681.6	5605.0	5529.2
50°	6202.3	6246.5	6369.8	6538.0	6763.0	6717.2	6309.8	6064.9	5994.0	5907.4
52.5°	6095.7	6145.7	6303.9	6583.9	6942.1	7017.9	6722.2	6460.6	6393.9	6290.6
55°	5815.8	5845.7	6083.2	6479.7	6984.6	7227.8	7126.2	6882.1	6815.5	6671.3
57.5°	5296.7	5340.1	5685.8	6199.0	6877.9	7370.3	7481.1	7325.3	7261.2	7053.7
60°	4619.4	4688.6	5084.3	5727.5	6606.4	7369.5	7803.5	7761.0	7707.7	7430.3
62.5°	3853.0	3933.0	4313.7	5061.0	6131.5	7160.4	8005.1	8125.9	8098.4	7777.7
65°	2959.1	3014.1	3393.2	4198.7	5392.6	6711.3	8028.4	8375.0	8380.0	8041.8
67.5°	1970.2	2128.5	2457.6	3150.7	4402.8	5977.4	7823.5	8415.8	8464.1	8132.6
70°	961.4	1169.6	1492.1	2047.7	3150.7	4851.9	7287.8	8080.9	8188.4	7867.6
72.5°	399.0	466.5	642.3	1010.5	1808.6	3274.0	6211.5	7172.9	7372.0	6971.2
75°	269.1	291.6	367.4	518.2	823.9	1614.5	4479.5	5348.4	5669.1	5265.1
77.5°	207.4	221.6	267.4	362.4	489.9	610.7	2397.6	3223.2	3389.0	3137.4
80°	163.3	174.1	199.9	264.1	347.4	326.6	817.3	1460.4	1556.2	1305.4
82.5°	141.6	145.8	143.3	179.1	230.8	190.8	268.3	539.0	594.8	431.5
85°	102.5	114.1	119.1	110.8	122.5	96.6	110.0	190.8	209.9	187.4
87.5°	41.7	61.6	75.8	71.6	45.0	27.5	34.2	55.8	64.1	70.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1758.6	0°	1758.6	1758.6	1758.6	1758.6	1758.6	1758.6	1758.6	1758.6	1758.6	1758.6
1759.5	2.5°	1760.3	1766.1	1770.3	1775.3	1778.6	1783.6	1793.6	1799.5	1800.3	1804.5
1772.8	5°	1776.1	1784.5	1793.6	1807.0	1822.0	1834.5	1853.6	1866.9	1871.9	1876.1
1805.3	7.5°	1810.3	1822.0	1838.6	1861.9	1883.6	1900.3	1923.6	1939.4	1955.2	1961.1
1856.9	10°	1861.1	1877.8	1901.9	1933.6	1956.9	1978.6	2002.7	2016.1	2031.9	2038.6
1918.6	12.5°	1924.4	1941.9	1973.6	2017.7	2039.4	2054.4	2062.7	2059.4	2062.7	2068.5
1992.7	15°	1996.9	2016.1	2051.9	2099.4	2114.4	2101.0	2082.7	2066.0	2063.5	2065.2
2082.7	17.5°	2082.7	2096.9	2138.5	2178.5	2167.7	2112.7	2072.7	2046.1	2032.7	2028.6
2197.7	20°	2202.7	2202.7	2236.8	2261.8	2189.3	2096.0	2033.6	1990.2	1962.7	1951.1
2354.3	22.5°	2348.5	2335.1	2356.8	2339.3	2185.2	2049.4	1962.7	1887.8	1846.1	1829.5
2573.4	25°	2533.4	2517.6	2511.7	2403.4	2155.2	1975.2	1834.5	1743.6	1707.0	1697.8
2889.1	27.5°	2812.5	2772.5	2696.7	2438.4	2100.2	1858.6	1684.5	1600.4	1579.5	1580.4
3294.8	30°	3184.0	3104.1	2918.3	2444.3	2010.2	1693.7	1531.2	1471.2	1461.2	1465.4
3635.6	32.5°	3528.1	3452.3	3144.9	2417.6	1871.9	1532.0	1393.7	1353.8	1338.8	1343.8
3895.5	35°	3798.0	3777.2	3354.8	2380.1	1702.0	1380.4	1270.5	1236.3	1207.1	1200.5
4140.4	37.5°	4053.0	4044.6	3512.3	2327.6	1533.7	1273.0	1171.3	1126.3	1083.8	1060.5
4411.2	40°	4332.9	4324.5	3615.6	2246.8	1384.6	1179.6	1082.2	1023.0	970.5	928.1
4717.8	42.5°	4647.8	4598.6	3664.7	2131.0	1258.0	1100.5	1009.7	929.7	860.6	821.4
5064.3	45°	4991.8	4881.0	3663.9	1983.6	1151.3	1028.0	932.2	818.9	754.8	718.1
5420.0	47.5°	5356.7	5151.0	3618.9	1820.3	1048.0	948.0	812.3	725.6	683.1	660.6
5806.6	50°	5733.3	5403.4	3542.3	1632.8	942.2	857.2	737.3	678.1	645.6	624.8
6189.8	52.5°	6087.3	5632.5	3449.8	1420.4	834.7	768.9	704.0	658.1	624.0	600.7
6561.4	55°	6416.4	5829.9	3319.0	1203.0	747.3	709.8	688.1	649.8	610.7	583.2
6938.8	57.5°	6708.8	5958.2	3093.2	998.9	684.8	669.0	671.5	635.6	590.7	567.3
7310.3	60°	6952.1	6052.4	2759.2	809.8	634.0	629.0	645.6	609.0	556.5	529.8
7624.4	62.5°	7097.9	6050.7	2349.3	663.1	590.7	592.3	611.5	575.7	522.3	497.4
7788.5	65°	7085.4	5902.4	1899.4	567.3	549.0	550.7	575.7	539.0	494.0	479.0
7706.0	67.5°	6834.6	5540.8	1457.1	504.8	503.2	510.7	539.8	514.0	476.5	474.9
7214.5	70°	6155.7	4790.2	1049.7	454.9	455.7	466.5	504.8	498.2	467.4	470.7
6065.7	72.5°	4936.0	3652.2	704.8	402.4	403.2	420.7	471.5	485.7	458.2	502.3
4303.7	75°	3287.3	2277.7	453.2	346.6	347.4	369.9	442.4	461.5	433.2	500.7
2239.3	77.5°	1579.5	1023.9	328.2	291.6	291.6	312.4	382.4	413.2	369.1	389.1
719.8	80°	545.7	384.9	258.3	234.9	229.9	244.1	322.4	358.2	318.2	293.2
234.9	82.5°	214.9	199.9	207.4	182.4	165.8	174.9	250.8	295.7	234.1	211.6
132.5	85°	123.3	130.0	146.6	120.8	95.8	107.5	184.1	212.4	176.6	155.8
43.3	87.5°	33.3	45.8	67.5	62.5	43.3	45.8	87.5	117.5	101.6	78.3
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>
1758.6
1803.6
1875.3
1961.9
2041.9
2070.2
2071.0
2034.4
1948.6
1827.0
1699.5
1582.9
1479.6
1350.4
1205.5
1061.3
932.2
823.9
716.5
655.6
617.3
590.7
572.3
552.3
518.2
489.9
478.2
477.4
469.9
509.0
504.8
356.6
274.9
210.8
159.1
80.8
0.0

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