

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: P939605

Luminaire Tested: **GALN-SB2B-740-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939605  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2B-740-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11805 lumens  
Efficiency: N/A  
Efficacy: 159.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2

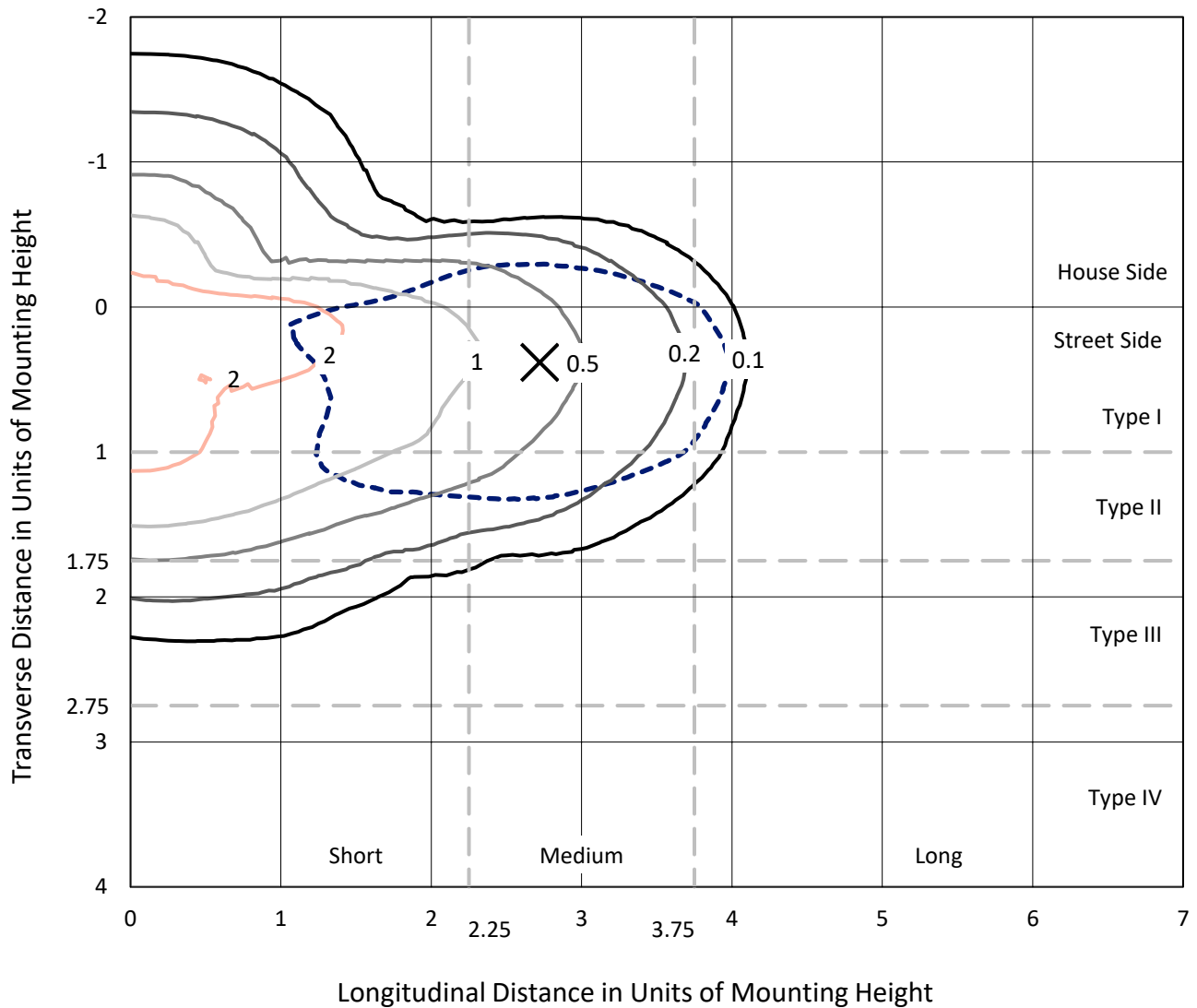
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

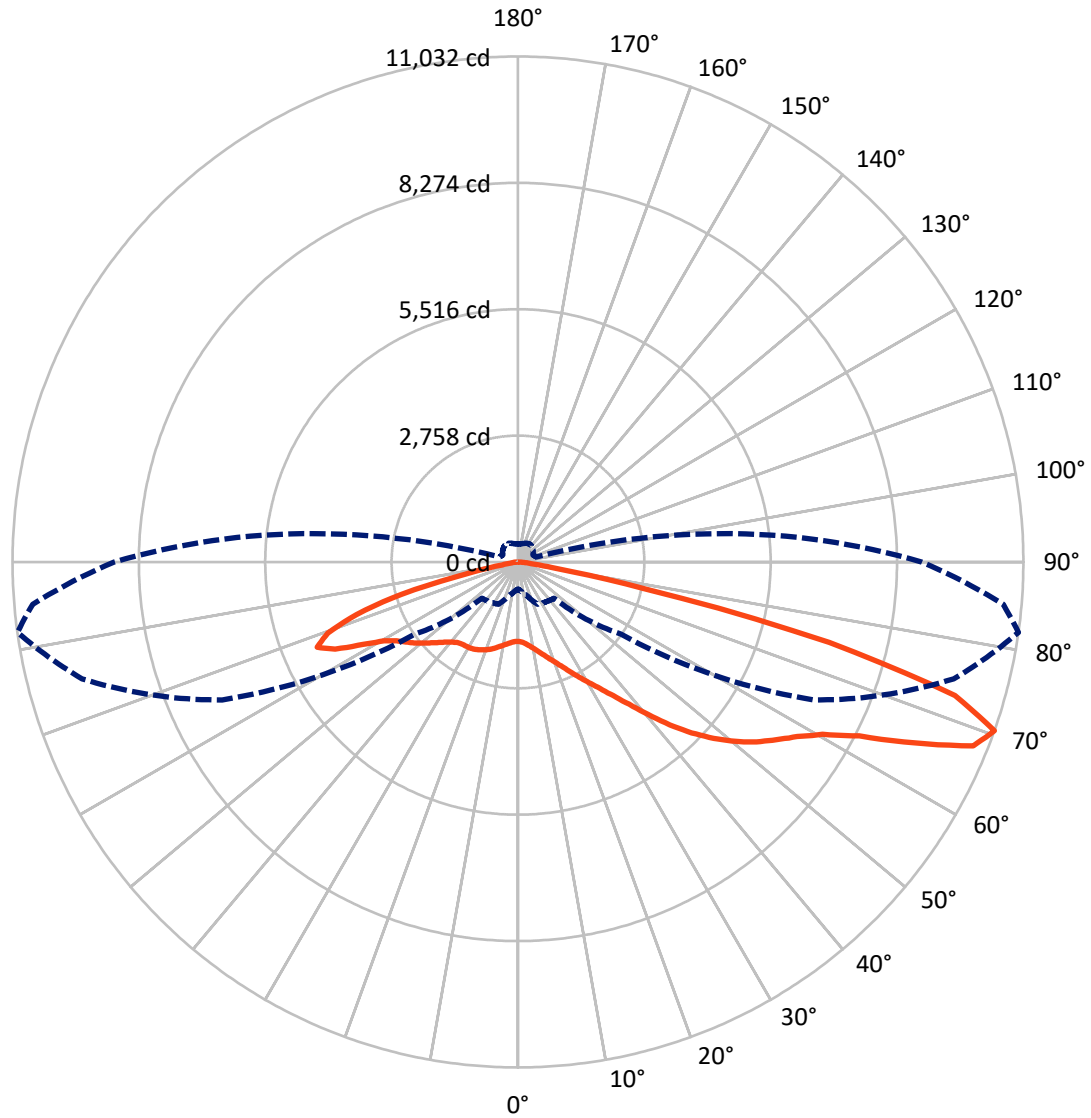
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2910.2	0.0	2910.2
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	8894.8	0.0	8894.8
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	11805.0	0.0	11805.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	163.4	1.4
10°-20°	469.5	4.0
20°-30°	785.4	6.7
30°-40°	1227.0	10.4
40°-50°	1954.2	16.6
50°-60°	2719.5	23.0
60°-70°	2844.7	24.1
70°-80°	1486.8	12.6
80°-90°	154.4	1.3
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°	11805.0	100.0
0°-180°	11805.0	100.0

**Coefficient of Utilization**



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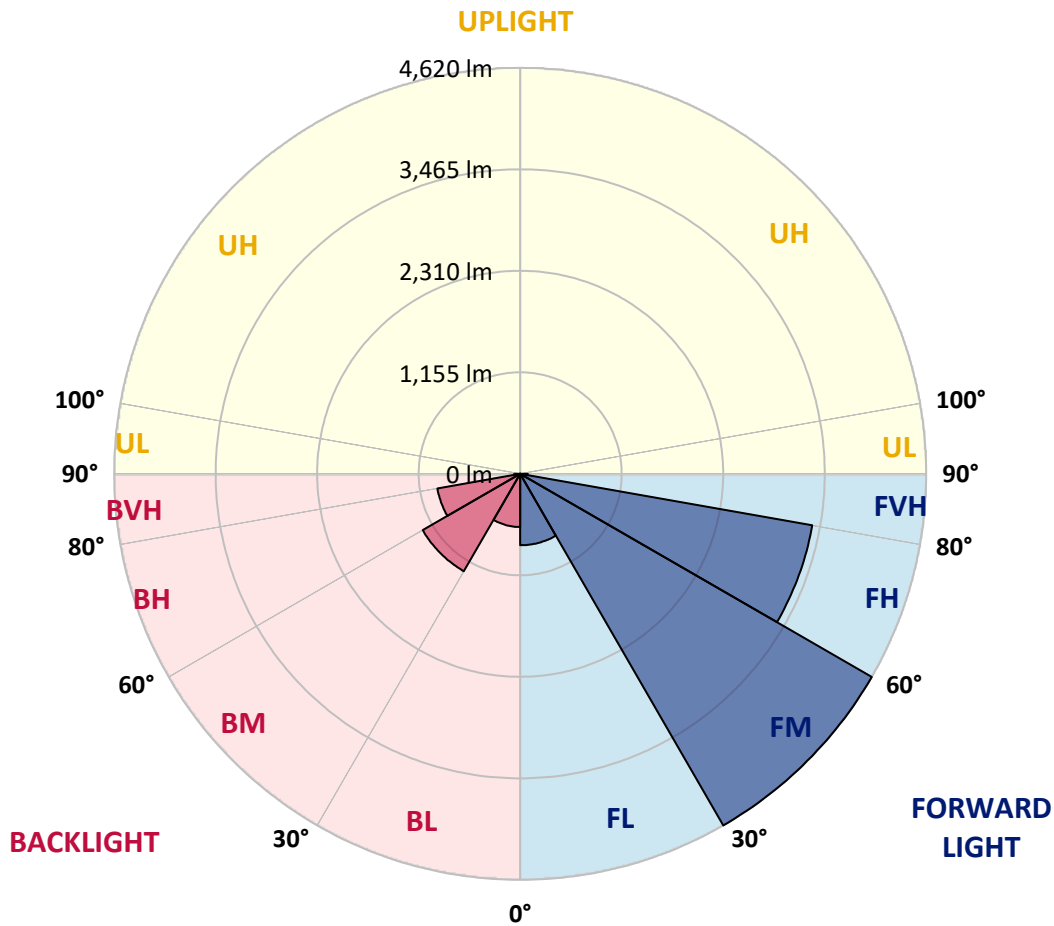
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	812.9	6.9			
FM (30°-60°)	4620.4	39.1			
FH (60°-80°)	3375.1	28.6			G2/5000
FVH (80°-90°)	86.4	0.7			G1/100
BL (0°-30°)	605.4	5.1	B2/1000		
BM (30°-60°)	1280.4	10.8	B2/2500		
BH (60°-80°)	956.4	8.1	B2/1000		G2/1000
BVH (80°-90°)	68.0	0.6			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 II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	1730.8	1730.8	1730.8	1730.8	1730.8	1730.8	1730.8	1730.8	1730.8	1730.8
2.5°	1772.1	1782.1	1779.0	1775.9	1775.9	1771.5	1770.9	1764.6	1759.6	1751.4
5°	1794.7	1805.3	1804.1	1806.6	1814.7	1816.6	1818.5	1814.7	1804.7	1794.7
7.5°	1774.6	1786.5	1790.3	1805.3	1830.4	1852.9	1869.8	1876.7	1867.3	1852.9
10°	1707.0	1720.1	1733.3	1769.0	1813.4	1866.7	1911.8	1938.7	1936.8	1923.1
12.5°	1569.8	1583.6	1611.7	1681.3	1762.7	1856.7	1940.6	1997.0	2016.4	2006.4
15°	1460.2	1472.1	1493.4	1564.8	1670.6	1813.4	1951.3	2060.9	2110.4	2104.7
17.5°	1457.0	1462.0	1475.2	1509.0	1590.4	1745.8	1940.0	2123.5	2218.1	2217.5
20°	1512.1	1514.0	1521.5	1528.4	1574.8	1694.4	1911.2	2175.5	2339.0	2339.0
22.5°	1588.6	1587.3	1594.8	1588.6	1611.1	1690.0	1893.0	2221.2	2473.7	2483.7
25°	1703.2	1696.9	1695.1	1680.6	1685.0	1730.8	1913.0	2273.2	2633.4	2654.1
27.5°	1856.0	1846.0	1839.1	1805.9	1794.7	1814.7	1974.4	2335.9	2811.3	2847.0
30°	2055.2	2037.1	2027.1	1969.4	1928.7	1931.8	2067.1	2419.2	2997.4	3055.0
32.5°	2327.1	2298.9	2272.0	2177.4	2102.8	2078.4	2186.8	2534.4	3199.1	3291.1
35°	2631.5	2609.0	2580.2	2434.2	2319.6	2263.2	2348.4	2695.4	3435.2	3581.2
37.5°	2924.7	2905.3	2919.1	2722.4	2574.5	2492.5	2560.1	2911.5	3726.5	3942.0
40°	3227.9	3212.8	3214.7	3026.8	2854.5	2762.5	2816.9	3182.8	4060.4	4371.1
42.5°	3557.4	3546.1	3508.5	3341.9	3148.3	3062.5	3112.6	3496.0	4418.7	4859.7
45°	3926.3	3919.4	3884.3	3693.3	3471.5	3375.1	3442.7	3841.7	4778.9	5319.4
47.5°	4245.2	4250.8	4246.4	4085.4	3855.5	3714.0	3794.8	4202.6	5114.0	5751.7
50°	4398.6	4428.1	4471.3	4421.2	4278.4	4134.3	4149.9	4550.8	5433.4	6156.9
52.5°	4318.4	4374.2	4492.0	4572.1	4627.3	4597.2	4555.2	4896.6	5734.1	6522.8
55°	4019.6	4098.0	4293.4	4486.9	4768.2	4986.8	5041.9	5280.0	6027.3	6844.7
57.5°	3475.3	3602.5	3777.9	4169.4	4642.9	5175.4	5609.5	5811.8	6338.0	7188.6
60°	2542.0	2712.3	2930.3	3512.9	4204.4	5074.5	6092.4	6628.6	6779.6	7634.0
62.5°	1626.8	1732.0	1932.5	2481.2	3276.1	4557.7	6240.3	7649.7	7528.2	8364.4
65°	1113.8	1181.4	1364.9	1673.1	2117.9	3392.6	5844.4	8415.1	8717.1	9522.0
67.5°	809.3	860.7	1017.3	1287.3	1380.0	2007.6	4535.2	8380.1	9872.8	10714.7
70°	590.1	626.4	758.0	1017.3	1061.8	1116.9	2747.4	7123.5	9847.7	11031.6
72.5°	437.2	462.3	550.6	789.3	859.4	754.2	1359.9	5177.2	8462.1	9978.0
75°	316.3	335.1	400.3	603.9	687.8	574.4	678.4	3025.5	5902.6	7018.9
77.5°	241.8	256.2	298.8	442.2	550.6	431.0	420.9	1391.9	2798.8	2812.6
80°	194.2	203.6	226.8	311.3	422.2	322.6	274.4	561.9	884.5	748.6
82.5°	142.8	158.5	191.7	218.6	301.9	222.4	167.3	283.8	336.4	289.4
85°	81.4	92.1	115.9	156.6	192.9	135.9	95.8	125.9	156.6	128.4
87.5°	28.8	37.6	40.7	61.4	83.9	56.4	37.0	36.3	51.4	38.2
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°
1730.8	0°	1730.8	1730.8	1730.8	1730.8	1730.8	1730.8	1730.8	1730.8	1730.8	1730.8
1749.6	2.5°	1743.3	1740.2	1727.6	1710.7	1693.2	1676.3	1670.6	1658.7	1650.6	1646.2
1790.3	5°	1778.4	1768.3	1738.9	1701.3	1661.9	1619.3	1589.2	1561.6	1541.6	1522.8
1846.0	7.5°	1828.5	1810.9	1760.2	1694.4	1624.3	1553.5	1500.9	1460.8	1433.8	1416.3
1911.2	10°	1886.7	1859.8	1782.1	1683.8	1575.4	1473.9	1411.9	1377.5	1360.6	1351.2
1985.7	12.5°	1953.8	1915.6	1804.7	1659.4	1500.9	1385.0	1342.4	1332.4	1333.0	1333.6
2079.7	15°	2036.4	1983.2	1822.8	1606.1	1403.8	1316.7	1309.2	1325.5	1342.4	1350.5
2186.2	17.5°	2129.8	2054.6	1826.0	1518.4	1308.6	1272.9	1296.7	1331.7	1357.4	1368.7
2305.2	20°	2230.0	2127.3	1803.4	1394.4	1230.3	1237.2	1279.7	1324.8	1353.0	1367.4
2441.1	22.5°	2344.6	2205.0	1749.6	1264.1	1166.4	1198.3	1248.4	1292.3	1321.7	1336.1
2600.8	25°	2475.6	2292.0	1665.0	1154.5	1111.2	1154.5	1204.6	1240.9	1264.7	1277.9
2779.4	27.5°	2620.9	2382.8	1552.2	1067.4	1063.0	1109.4	1150.7	1178.9	1191.4	1201.4
2969.2	30°	2766.8	2465.5	1415.7	1001.6	1021.0	1064.9	1094.3	1106.9	1110.6	1112.5
3180.9	32.5°	2924.7	2536.9	1272.2	947.1	981.0	1021.7	1039.2	1044.8	1027.3	1015.4
3437.7	35°	3115.7	2613.4	1131.9	903.9	941.5	976.6	982.2	977.2	956.5	932.1
3759.7	37.5°	3351.9	2708.6	1019.8	873.2	904.5	927.7	920.8	919.6	921.4	892.6
4146.8	40°	3641.3	2832.6	937.7	849.4	874.5	879.5	860.1	870.7	880.1	836.3
4571.5	42.5°	3962.6	2982.3	885.7	833.1	849.4	837.5	807.4	819.3	818.1	760.5
4998.1	45°	4290.3	3145.2	867.6	821.2	826.2	802.4	769.2	772.4	746.0	694.1
5407.1	47.5°	4616.0	3320.0	878.8	811.2	797.4	770.5	744.8	731.0	692.2	653.3
5799.3	50°	4935.5	3503.5	920.2	791.2	758.0	742.3	723.5	699.1	657.7	624.5
6170.1	52.5°	5231.7	3688.3	966.5	758.0	708.5	717.9	706.0	677.8	637.1	603.2
6520.9	55°	5512.4	3873.1	984.7	712.2	662.1	696.6	689.7	637.7	588.8	561.3
6888.0	57.5°	5818.1	4095.4	964.7	654.0	624.5	672.1	645.8	588.2	560.0	539.3
7365.9	60°	6241.5	4444.4	921.4	581.9	588.8	635.8	590.7	566.9	536.2	513.0
8082.5	62.5°	6945.0	5095.2	851.9	510.5	546.9	581.9	564.4	540.6	509.3	486.7
9307.8	65°	7984.8	5999.7	721.0	454.8	499.9	529.3	536.2	512.4	479.8	456.0
10381.4	67.5°	8861.8	6567.2	545.6	408.4	451.6	486.7	506.1	483.0	448.5	425.3
10632.6	70°	8813.5	6155.1	416.6	362.7	409.0	444.7	469.8	451.6	414.7	392.8
9657.9	72.5°	7828.2	5149.1	337.0	316.3	365.8	400.9	431.0	417.2	379.6	358.3
7075.3	75°	5751.0	3655.1	269.4	269.4	312.0	355.2	388.4	379.6	345.1	330.1
2970.4	77.5°	2424.2	1533.4	211.1	223.6	259.3	305.1	346.4	349.5	319.5	338.3
785.5	80°	644.6	422.8	161.0	176.0	203.6	251.8	301.3	300.0	267.5	249.9
291.9	82.5°	245.6	166.6	114.6	124.0	147.2	192.9	238.7	246.2	213.6	184.8
114.6	85°	94.6	71.4	70.8	74.5	85.8	127.8	180.4	186.7	161.0	136.6
31.9	87.5°	24.4	21.3	26.3	25.1	39.5	68.3	103.4	107.1	98.3	57.0
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>
1730.8
1651.2
1530.3
1420.1
1353.7
1334.9
1349.9
1371.2
1371.2
1339.9
1281.6
1205.2
1116.9
1019.2
933.3
894.5
837.5
759.8
695.9
653.3
622.0
603.9
558.8
537.5
511.8
486.7
457.3
426.0
394.6
358.3
325.7
306.9
232.4
184.8
140.9
81.4
0.0

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