

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: P947872

Luminaire Tested: **GALN-SB3A-830-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947872  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB3A-830-U-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

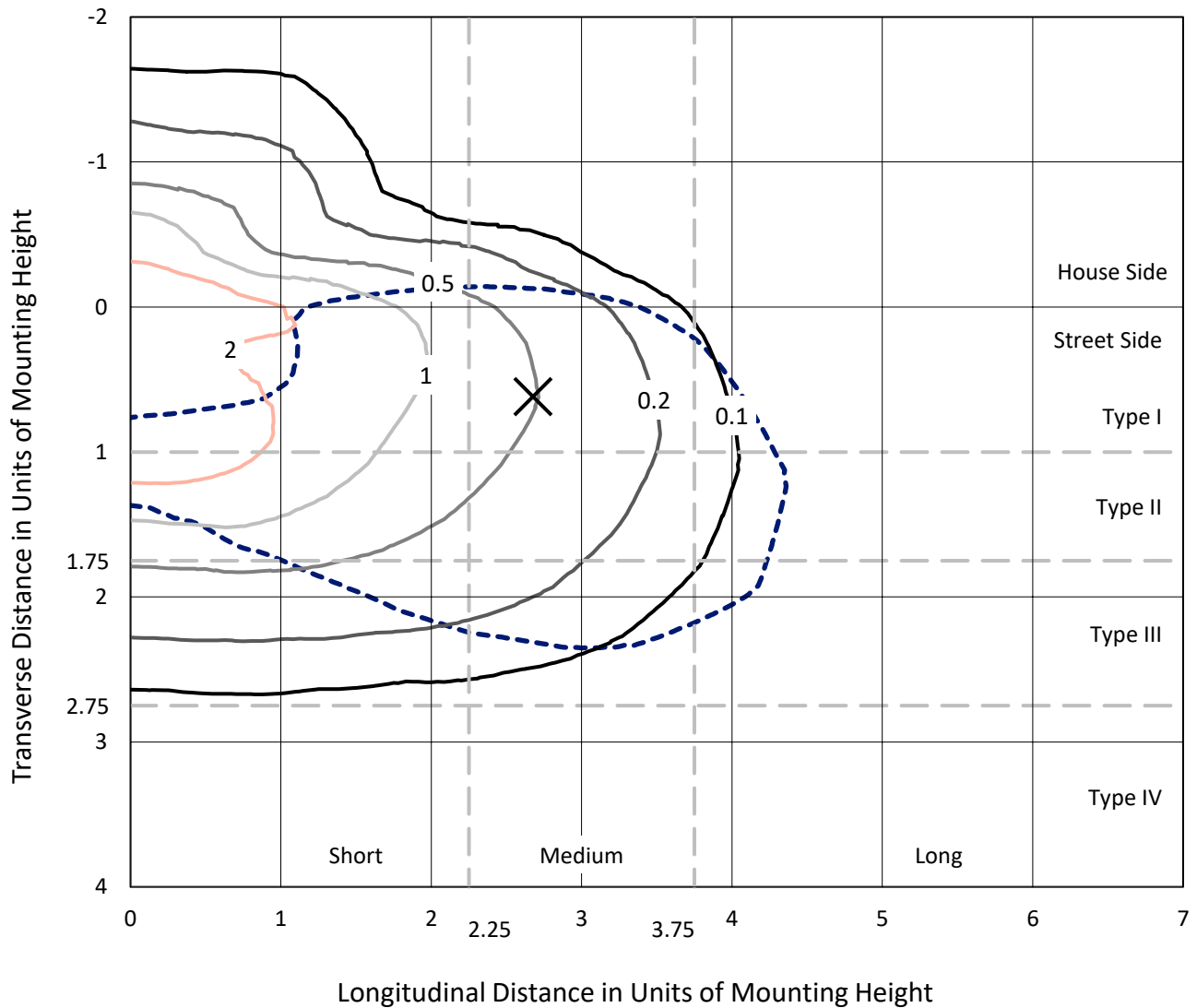
Lumens per Lamp: N/A  
Luminaire Lumens: 12415 lumens  
Efficiency: N/A  
Efficacy: 146.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 84.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

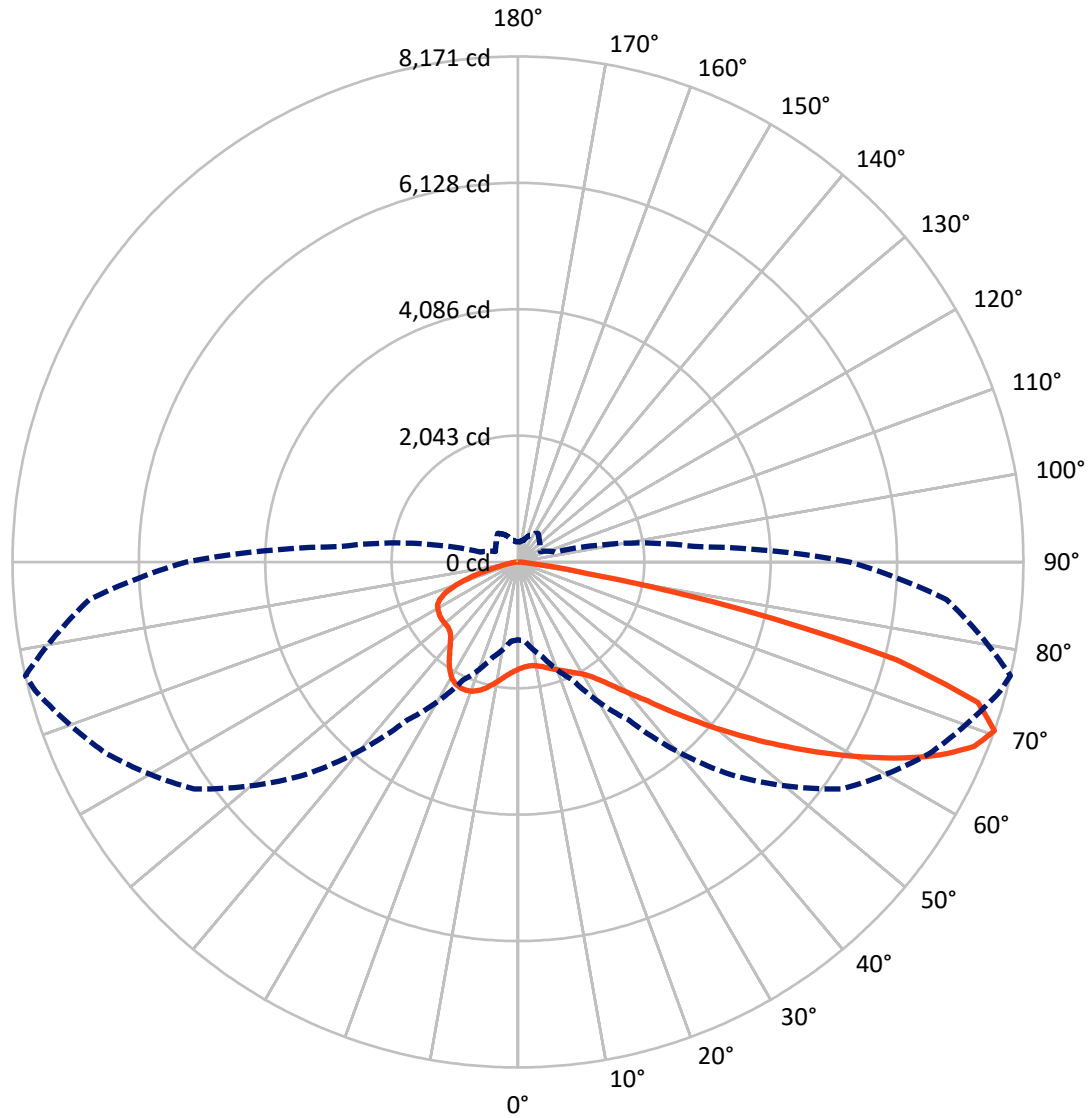
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2718.7	0.0	2718.7
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	9696.3	0.0	9696.3
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	12415.0	0.0	12415.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.2	1.3
10°-20°	476.7	3.8
20°-30°	815.3	6.6
30°-40°	1311.1	10.6
40°-50°	2047.0	16.5
50°-60°	2734.2	22.0
60°-70°	2914.3	23.5
70°-80°	1794.0	14.5
80°-90°	157.2	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°	12415.0	100.0
0°-180°	12415.0	100.0



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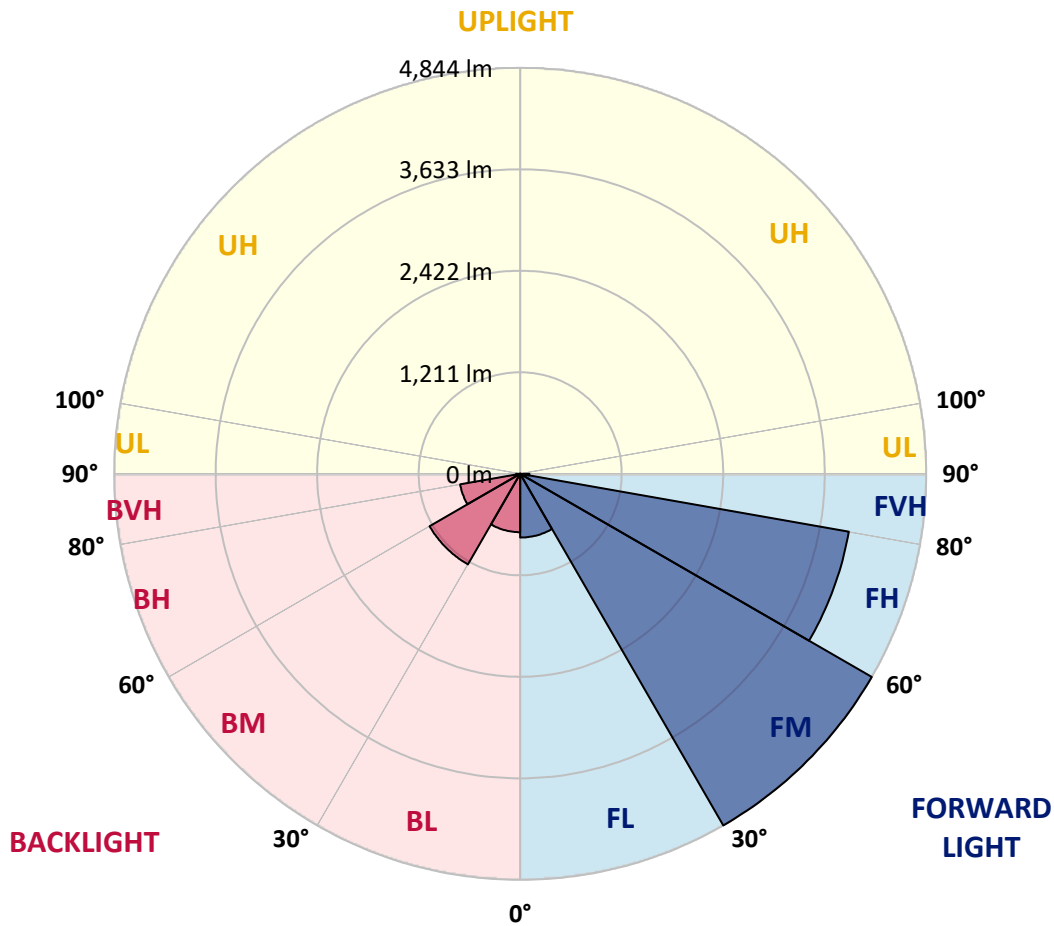
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	760.6	6.1			
FM (30°-60°)	4844.1	39.0			
FH (60°-80°)	3981.7	32.1			G2/5000
FVH (80°-90°)	109.9	0.9			G2/225
BL (0°-30°)	696.6	5.6	B2/1000		
BM (30°-60°)	1248.2	10.1	B2/2500		
BH (60°-80°)	726.6	5.9	B2/1000		G2/1000
BVH (80°-90°)	47.3	0.4			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 Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1732.0	1732.0	1732.0	1732.0	1732.0	1732.0	1732.0	1732.0	1732.0	1732.0
2.5°	1596.6	1595.9	1604.2	1606.7	1622.0	1632.8	1653.2	1674.8	1702.8	1705.9
5°	1504.4	1504.4	1513.9	1524.1	1543.8	1565.4	1596.6	1634.1	1682.4	1690.0
7.5°	1426.2	1431.3	1439.5	1459.2	1482.1	1513.3	1561.0	1614.4	1678.0	1690.0
10°	1363.2	1368.9	1379.1	1395.0	1429.3	1472.6	1534.9	1603.6	1688.8	1707.8
12.5°	1343.5	1349.2	1355.0	1367.0	1398.8	1449.7	1524.1	1608.7	1714.8	1733.9
15°	1389.3	1396.3	1391.8	1388.7	1405.2	1451.6	1529.2	1627.1	1747.3	1774.6
17.5°	1494.8	1497.4	1487.2	1457.3	1454.8	1479.6	1553.3	1652.5	1788.0	1817.8
20°	1665.2	1660.8	1639.8	1580.7	1547.0	1541.9	1594.7	1690.7	1829.9	1861.7
22.5°	1896.7	1891.6	1849.6	1756.2	1681.1	1631.5	1654.4	1740.3	1877.0	1912.6
25°	2185.4	2178.4	2116.7	1989.5	1873.2	1750.4	1735.8	1805.8	1934.8	1967.9
27.5°	2522.3	2516.6	2449.9	2282.0	2114.1	1913.2	1836.9	1882.7	1995.2	2032.8
30°	2884.8	2901.3	2783.0	2602.5	2390.1	2125.6	1973.0	1977.4	2073.4	2107.1
32.5°	3310.8	3339.4	3197.0	2968.1	2678.1	2356.4	2144.7	2109.7	2187.3	2215.2
35°	3733.0	3765.4	3647.1	3394.1	3060.3	2628.5	2324.0	2261.7	2338.6	2369.1
37.5°	4097.9	4141.2	4080.1	3860.1	3469.1	2956.6	2558.0	2440.3	2524.9	2563.0
40°	4386.0	4452.1	4447.6	4310.3	3951.1	3354.6	2854.9	2661.0	2756.3	2797.7
42.5°	4620.0	4677.2	4726.8	4719.8	4454.0	3806.7	3204.0	2947.7	3020.2	3067.9
45°	4781.5	4842.5	4949.3	5064.4	4937.9	4290.6	3603.9	3287.9	3354.0	3425.9
47.5°	4925.8	4995.1	5133.7	5316.2	5348.6	4776.4	4042.0	3684.0	3744.4	3818.8
50°	4938.5	4998.3	5213.2	5472.0	5640.5	5243.1	4512.5	4128.5	4185.0	4264.5
52.5°	4631.4	4725.5	5100.6	5467.5	5774.6	5633.5	4979.8	4590.7	4654.3	4749.7
55°	3595.0	3733.0	4770.6	5297.1	5726.9	5885.9	5424.3	5082.2	5163.6	5263.4
57.5°	3096.5	3156.9	3787.0	4986.8	5509.5	5951.4	5799.4	5578.8	5709.8	5819.1
60°	2783.0	2833.3	3205.9	4504.2	5223.4	5847.7	6089.4	6041.7	6268.0	6398.4
62.5°	2447.3	2495.0	2833.9	3760.9	4857.1	5675.4	6272.5	6469.0	6840.3	6982.7
65°	2114.1	2154.8	2479.7	3160.1	4391.7	5503.1	6367.2	6838.4	7369.9	7517.4
67.5°	1742.8	1776.5	2083.6	2666.0	3825.8	5267.2	6414.3	7128.9	7830.9	7957.4
70°	1257.7	1283.7	1601.0	2108.4	3115.6	4861.6	6395.2	7335.0	8070.0	8171.1
72.5°	594.5	618.0	990.6	1368.9	2200.6	4071.9	6009.2	7171.5	7827.1	7776.9
75°	317.3	337.6	569.1	750.9	1162.3	2791.3	4917.5	6177.7	6572.6	6328.4
77.5°	214.9	230.8	352.3	450.8	530.9	1325.1	3160.7	4277.2	4115.1	3712.0
80°	170.4	186.9	288.7	305.2	256.9	478.8	1306.0	1980.0	1422.4	1137.5
82.5°	131.0	149.4	242.9	221.3	139.9	196.5	380.2	626.3	364.3	277.2
85°	80.1	99.8	190.7	141.2	78.8	89.7	129.1	174.2	111.3	92.8
87.5°	40.7	57.2	96.6	51.5	35.6	21.0	34.3	34.3	29.2	25.4
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°
1732.0	0°	1732.0	1732.0	1732.0	1732.0	1732.0	1732.0	1732.0	1732.0	1732.0	1732.0
1723.1	2.5°	1738.4	1751.1	1772.7	1793.0	1808.9	1824.2	1839.5	1847.7	1850.3	1860.4
1732.6	5°	1758.7	1782.2	1824.2	1863.6	1888.4	1903.7	1914.5	1920.8	1922.1	1925.3
1758.7	7.5°	1796.2	1833.7	1892.2	1931.7	1950.1	1948.8	1944.4	1928.5	1922.1	1916.4
1796.9	10°	1849.0	1898.6	1970.4	1997.8	1986.3	1955.8	1916.4	1870.0	1848.4	1827.4
1849.0	12.5°	1914.5	1977.4	2048.0	2046.7	1990.2	1911.9	1820.4	1749.2	1704.0	1671.6
1913.2	15°	1994.0	2066.5	2120.5	2077.3	1953.3	1812.8	1678.6	1585.8	1545.1	1509.5
1978.1	17.5°	2076.0	2153.6	2178.4	2067.7	1860.4	1665.9	1513.9	1440.8	1400.7	1381.7
2048.0	20°	2156.1	2233.0	2212.7	2013.0	1719.3	1499.3	1363.9	1323.8	1315.5	1320.0
2116.0	22.5°	2240.7	2309.3	2219.7	1907.5	1539.3	1328.9	1254.5	1255.8	1274.2	1287.6
2187.3	25°	2327.1	2373.6	2201.2	1754.9	1346.1	1203.6	1185.2	1205.5	1241.8	1267.8
2267.4	27.5°	2410.4	2430.8	2161.2	1566.1	1180.1	1114.0	1117.2	1159.1	1213.8	1250.0
2364.7	30°	2504.5	2481.7	2084.3	1353.7	1065.0	1037.0	1063.7	1112.7	1167.4	1199.8
2487.4	32.5°	2610.7	2525.5	1962.2	1157.2	983.6	975.4	1019.2	1051.0	1075.2	1084.7
2650.1	35°	2743.0	2587.2	1805.8	1019.2	910.5	930.2	972.2	956.3	946.8	941.7
2868.9	37.5°	2914.7	2670.5	1622.6	929.6	851.4	897.8	915.0	865.4	827.9	809.4
3134.0	40°	3121.3	2792.6	1446.5	860.3	813.9	869.8	839.9	780.2	732.5	706.4
3432.2	42.5°	3350.8	2920.4	1298.4	808.1	792.9	846.9	784.6	713.4	636.5	628.2
3787.6	45°	3591.8	3052.0	1197.3	768.1	782.7	827.2	752.8	637.7	583.1	616.8
4144.4	47.5°	3832.8	3172.8	1136.2	738.2	777.6	805.0	724.8	595.8	557.0	605.9
4526.5	50°	4101.1	3280.9	1108.9	716.6	771.9	796.1	682.9	585.0	529.6	562.1
4922.0	52.5°	4367.5	3364.8	1088.5	695.0	763.6	789.1	662.5	572.2	496.6	498.5
5320.0	55°	4633.3	3419.5	1066.3	666.4	745.2	773.8	660.6	558.3	471.8	462.9
5740.9	57.5°	4916.9	3450.7	1038.9	634.6	713.4	735.0	658.7	547.5	464.2	449.5
6171.4	60°	5205.6	3496.4	1003.3	595.8	670.8	688.6	654.3	543.6	459.7	434.9
6577.0	62.5°	5464.3	3512.3	960.7	558.9	616.1	642.8	644.7	540.5	447.6	405.0
6914.0	65°	5634.1	3443.7	886.3	516.9	557.0	595.8	626.3	529.6	426.0	383.4
7080.6	67.5°	5627.1	3247.8	770.0	462.9	499.8	543.6	599.6	511.2	399.9	356.7
6954.7	70°	5365.1	2861.2	622.5	399.9	436.8	487.7	565.3	483.9	368.8	327.5
6184.1	72.5°	4601.5	2239.4	452.1	326.2	363.7	429.8	520.7	450.8	337.0	301.4
4570.4	75°	3287.3	1417.3	306.5	250.5	282.9	364.3	465.4	412.0	307.7	302.7
2289.0	77.5°	1679.2	677.2	202.8	183.1	197.1	287.4	391.0	368.1	312.2	249.9
651.1	80°	546.2	249.9	127.8	124.6	131.0	191.4	302.7	302.0	236.5	169.8
157.7	82.5°	174.2	107.5	83.3	80.1	76.9	120.2	211.1	239.1	159.6	107.5
56.6	85°	69.3	64.2	49.0	45.1	32.4	56.6	110.6	159.0	118.9	77.6
14.6	87.5°	25.4	25.4	13.4	9.5	7.0	19.1	29.9	47.7	68.0	40.1
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>
1732.0
1866.2
1930.4
1917.7
1821.0
1664.0
1505.6
1387.4
1318.1
1290.7
1274.8
1258.9
1207.4
1089.8
946.8
813.9
708.3
636.5
634.6
628.8
586.2
511.8
469.2
451.4
436.8
405.0
383.4
358.6
331.3
299.5
285.5
222.5
150.1
106.8
79.5
39.4
0.0

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