

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: P947160

Luminaire Tested: **GALN-SB2C-830-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947160  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB2C-830-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

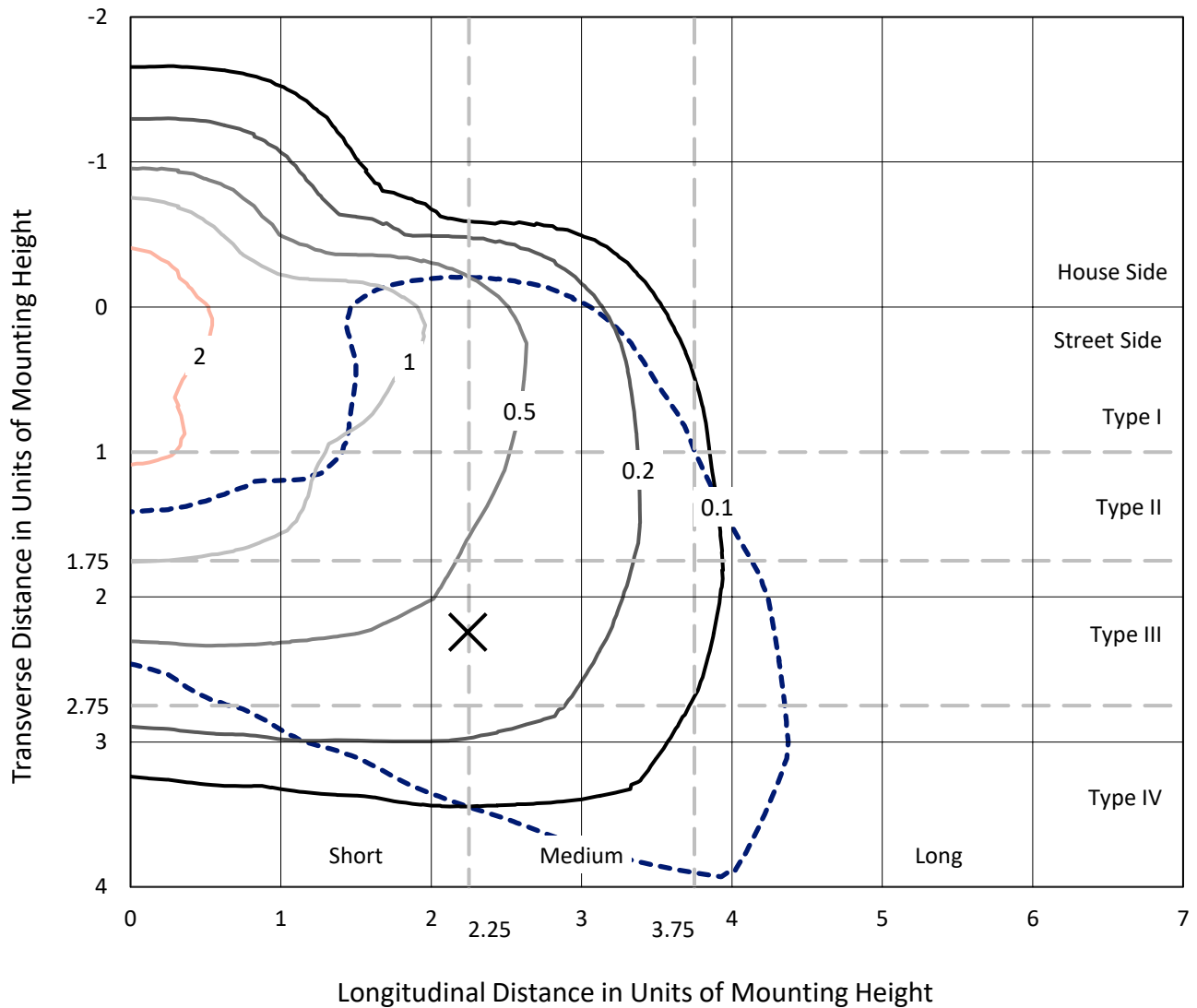
Lumens per Lamp: N/A  
Luminaire Lumens: 13431 lumens  
Efficiency: N/A  
Efficacy: 133.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 100.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

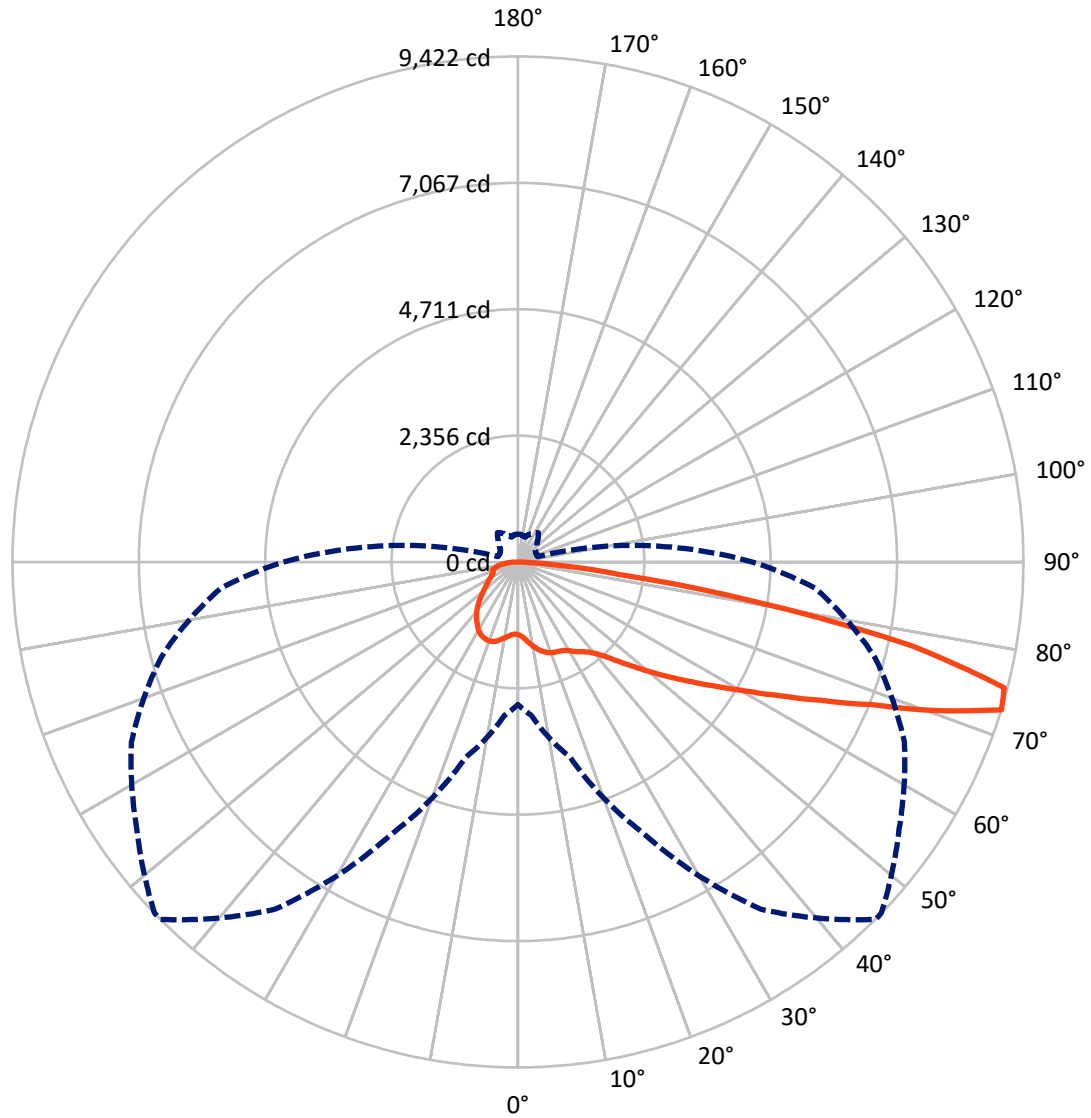
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3036.3	0.0	3036.3
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	10394.7	0.0	10394.7
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	13431.0	0.0	13431.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.9	1.0
10°-20°	459.8	3.4
20°-30°	799.8	6.0
30°-40°	1146.6	8.5
40°-50°	1614.5	12.0
50°-60°	2472.9	18.4
60°-70°	3582.4	26.7
70°-80°	2860.8	21.3
80°-90°	356.3	2.7
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°	13431.0	100.0
0°-180°	13431.0	100.0



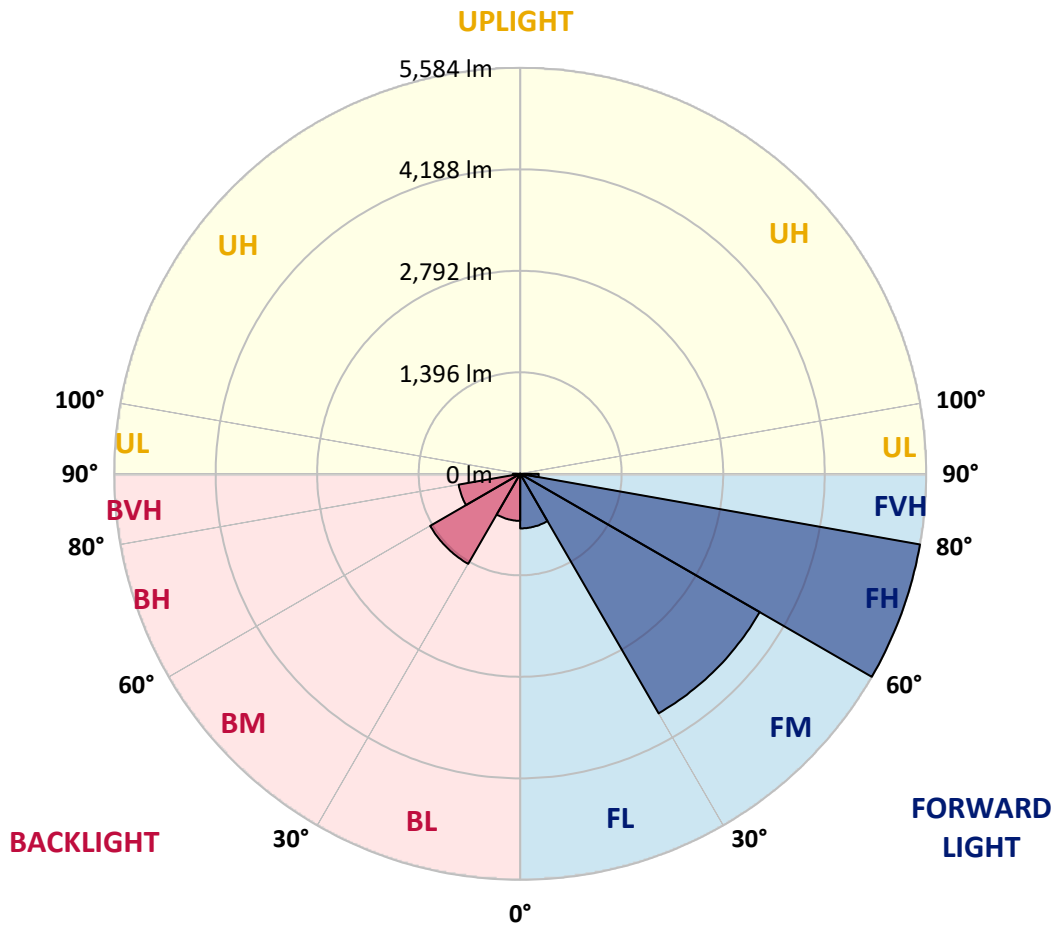
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	751.1	5.6			
FM (30°-60°)	3804.4	28.3			
FH (60°-80°)	5583.7	41.6			G3/7500
FVH (80°-90°)	255.6	1.9			G3/500
BL (0°-30°)	646.5	4.8	B2/1000		
BM (30°-60°)	1429.7	10.6	B2/2500		
BH (60°-80°)	859.5	6.4	B2/1000		G2/1000
BVH (80°-90°)	100.7	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1354.9	1354.9	1354.9	1354.9	1354.9	1354.9	1354.9	1354.9	1354.9	1354.9
2.5°	1408.0	1417.2	1408.7	1400.9	1397.4	1388.2	1387.5	1381.8	1378.3	1368.4
5°	1506.3	1518.4	1504.2	1488.7	1474.5	1451.9	1449.0	1432.8	1414.4	1393.1
7.5°	1617.4	1628.0	1611.8	1588.4	1563.6	1526.1	1525.4	1495.7	1466.7	1430.6
10°	1714.4	1728.5	1706.6	1674.7	1643.6	1601.1	1596.2	1562.2	1525.4	1478.7
12.5°	1800.0	1809.9	1788.6	1749.7	1713.6	1671.2	1664.8	1627.3	1586.3	1533.2
15°	1867.9	1880.6	1852.3	1810.6	1772.4	1730.6	1725.0	1691.0	1650.0	1594.1
17.5°	1912.5	1923.1	1894.1	1847.4	1810.6	1775.9	1771.7	1743.4	1707.3	1650.7
20°	1929.4	1940.8	1910.3	1862.9	1829.0	1802.1	1800.0	1779.4	1754.7	1703.0
22.5°	1946.4	1957.0	1917.4	1867.9	1838.2	1821.2	1820.5	1807.0	1797.1	1754.7
25°	2015.1	2017.9	1964.8	1893.4	1850.9	1836.0	1835.3	1834.6	1838.9	1805.6
27.5°	2074.5	2073.8	2028.5	1961.3	1895.5	1864.4	1863.6	1870.7	1884.2	1856.6
30°	2161.5	2153.7	2100.0	2029.9	1969.8	1921.7	1917.4	1911.0	1921.7	1899.7
32.5°	2346.2	2321.4	2234.4	2109.9	2031.3	1994.5	1988.9	1949.3	1953.5	1940.1
35°	2610.8	2578.3	2462.2	2261.3	2107.7	2055.4	2052.6	2002.3	1993.8	1981.8
37.5°	2925.7	2885.3	2750.2	2480.6	2239.3	2126.1	2121.9	2076.6	2041.9	2029.2
40°	3241.9	3191.0	3079.2	2748.1	2433.2	2244.3	2230.9	2162.2	2122.6	2101.4
42.5°	3549.0	3506.5	3411.0	3048.1	2672.4	2416.9	2387.2	2269.8	2240.1	2220.2
45°	3820.7	3782.5	3712.4	3368.6	2952.5	2651.8	2622.8	2431.1	2421.9	2421.9
47.5°	4041.4	4032.9	3958.6	3695.4	3283.0	2919.3	2869.0	2655.4	2680.1	2718.3
50°	4286.2	4262.9	4183.6	4017.4	3671.4	3225.6	3184.6	2930.6	3023.3	3128.0
52.5°	4511.2	4524.0	4435.5	4352.7	4110.1	3567.4	3495.2	3255.4	3455.6	3628.9
55°	4742.6	4743.3	4718.5	4707.2	4570.0	3945.2	3866.0	3645.9	3964.3	4179.4
57.5°	4959.8	4961.2	4998.0	5097.8	5103.4	4381.0	4291.2	4125.6	4529.6	4749.0
60°	5153.7	5163.6	5264.0	5497.5	5572.5	4880.6	4795.7	4692.4	5114.1	5334.8
62.5°	5218.8	5254.9	5478.4	5810.3	6036.0	5493.3	5409.8	5348.2	5728.2	5933.4
65°	5108.4	5191.2	5623.5	6068.5	6512.8	6221.3	6138.6	6071.3	6366.4	6559.5
67.5°	4837.4	4944.2	5615.0	6339.5	7091.6	7097.3	7020.1	6862.4	7050.6	7124.9
70°	4123.5	4283.4	5120.4	6440.7	7756.0	8295.1	8220.8	7814.7	7733.3	7373.9
72.5°	2656.8	2871.9	3770.4	5607.9	7903.9	9422.2	9418.0	8674.4	7949.1	6890.0
75°	969.3	1100.9	1751.9	3520.0	6634.5	9364.9	9392.5	8527.2	7256.5	5322.1
77.5°	353.1	386.3	571.7	1352.8	4080.3	7514.0	7571.3	6817.1	5165.0	2670.9
80°	185.4	203.8	292.9	525.0	1748.3	4462.4	4552.3	4051.3	2427.5	804.5
82.5°	102.6	111.1	164.1	285.1	787.5	1908.2	1962.0	1600.4	854.0	341.0
85°	55.2	58.7	77.1	155.7	384.9	661.5	676.4	478.3	340.3	200.2
87.5°	16.3	19.8	25.5	49.5	150.7	148.6	152.1	94.8	134.4	101.2
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°
1354.9	0°	1354.9	1354.9	1354.9	1354.9	1354.9	1354.9	1354.9	1354.9	1354.9	1354.9
1365.5	2.5°	1361.3	1359.2	1351.4	1347.9	1343.6	1342.9	1346.4	1347.1	1347.9	1348.6
1381.1	5°	1374.0	1367.0	1359.9	1355.6	1357.0	1357.8	1364.8	1369.8	1373.3	1376.2
1410.1	7.5°	1398.8	1393.1	1381.1	1380.4	1382.5	1388.9	1398.1	1409.4	1415.8	1420.7
1447.6	10°	1435.6	1425.0	1410.8	1412.9	1417.2	1426.4	1445.5	1454.7	1465.3	1474.5
1493.6	12.5°	1473.1	1463.9	1447.6	1449.0	1456.1	1472.4	1490.8	1502.1	1509.2	1516.2
1543.1	15°	1521.9	1505.6	1487.9	1487.9	1500.7	1518.4	1526.9	1536.1	1540.3	1548.1
1596.2	17.5°	1572.1	1550.9	1527.6	1526.1	1541.7	1550.2	1555.2	1556.6	1558.0	1566.5
1647.8	20°	1622.4	1599.0	1565.8	1562.9	1566.5	1565.1	1564.4	1562.9	1565.1	1575.7
1700.9	22.5°	1671.9	1645.0	1599.0	1586.3	1576.4	1562.9	1562.2	1561.5	1562.9	1573.6
1758.2	25°	1729.9	1697.4	1635.8	1597.6	1564.4	1546.0	1548.1	1548.8	1550.2	1558.7
1817.7	27.5°	1792.9	1756.8	1669.8	1594.1	1533.9	1521.2	1517.7	1519.8	1524.7	1538.2
1877.1	30°	1855.9	1813.4	1700.9	1579.9	1495.7	1478.0	1466.7	1471.7	1487.2	1500.7
1928.7	32.5°	1913.2	1870.7	1725.7	1548.8	1446.9	1419.3	1404.5	1410.8	1426.4	1431.3
1986.0	35°	1980.4	1932.3	1736.3	1499.3	1393.8	1351.4	1331.6	1322.4	1330.2	1325.2
2053.3	37.5°	2055.4	2005.1	1734.9	1434.2	1331.6	1282.8	1255.2	1220.5	1204.2	1187.2
2152.3	40°	2166.5	2094.3	1717.9	1355.6	1254.5	1209.9	1160.4	1101.6	1064.8	1031.6
2312.2	42.5°	2317.9	2218.1	1686.8	1269.3	1167.4	1125.7	1058.5	989.8	931.8	876.6
2554.9	45°	2543.6	2380.1	1647.8	1177.3	1073.3	1032.3	959.4	882.3	816.5	745.7
2899.5	47.5°	2869.0	2598.1	1611.1	1072.6	974.3	936.8	871.0	799.5	721.7	653.1
3397.6	50°	3316.2	2910.8	1577.1	970.7	876.6	848.3	796.0	723.1	644.6	589.4
3981.3	52.5°	3885.1	3336.0	1562.9	872.4	785.4	774.7	733.0	665.1	590.8	544.1
4661.9	55°	4538.1	3844.7	1562.9	778.3	705.4	708.9	679.9	617.0	552.6	510.8
5363.8	57.5°	5204.6	4359.8	1534.6	691.3	637.5	652.3	633.9	578.8	520.7	477.6
6101.8	60°	5818.8	4791.4	1420.0	612.0	577.3	600.7	588.7	541.3	470.5	434.4
6718.7	62.5°	6290.7	5034.8	1199.3	549.0	527.8	554.7	548.3	491.7	461.3	446.5
7225.3	65°	6527.0	4995.2	917.0	493.2	486.1	527.8	514.4	512.3	488.2	471.2
7390.2	67.5°	6382.0	4654.2	665.1	452.1	462.0	503.1	554.7	563.2	518.6	485.4
6926.0	70°	5745.9	4037.2	495.3	413.2	431.6	503.8	632.5	589.4	508.7	469.8
5554.8	72.5°	4371.1	3010.6	384.2	372.2	392.0	507.3	667.2	577.3	480.4	519.3
3460.5	75°	2499.7	1652.8	308.5	321.9	342.4	474.0	649.5	546.2	458.5	476.9
1371.2	77.5°	953.0	635.4	254.7	272.4	275.2	413.9	621.2	544.1	436.5	425.9
411.1	80°	330.4	248.3	210.8	216.5	213.0	367.9	595.7	473.3	357.3	319.8
169.8	82.5°	135.1	123.8	167.0	159.9	151.4	285.8	481.1	387.0	292.2	258.2
82.1	85°	58.7	78.5	110.4	96.9	87.7	198.1	385.6	327.6	246.9	213.0
26.9	87.5°	12.0	29.7	46.7	43.9	45.3	132.3	273.8	232.8	174.8	130.9
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>
1354.9
1351.4
1377.6
1422.1
1472.4
1519.1
1550.9
1569.3
1579.9
1580.6
1570.0
1551.6
1515.5
1449.0
1340.8
1197.9
1033.7
871.7
737.2
645.3
585.8
540.6
506.6
470.5
428.8
441.5
465.6
479.7
463.4
<i>515.1</i>
476.9
388.4
309.2
255.4
212.3
102.6
0.0

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