

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: P946696

Luminaire Tested: **GALN-SB2B-735-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946696
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-SB2B-735-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11561 lumens
Efficiency: N/A
Efficacy: 156.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

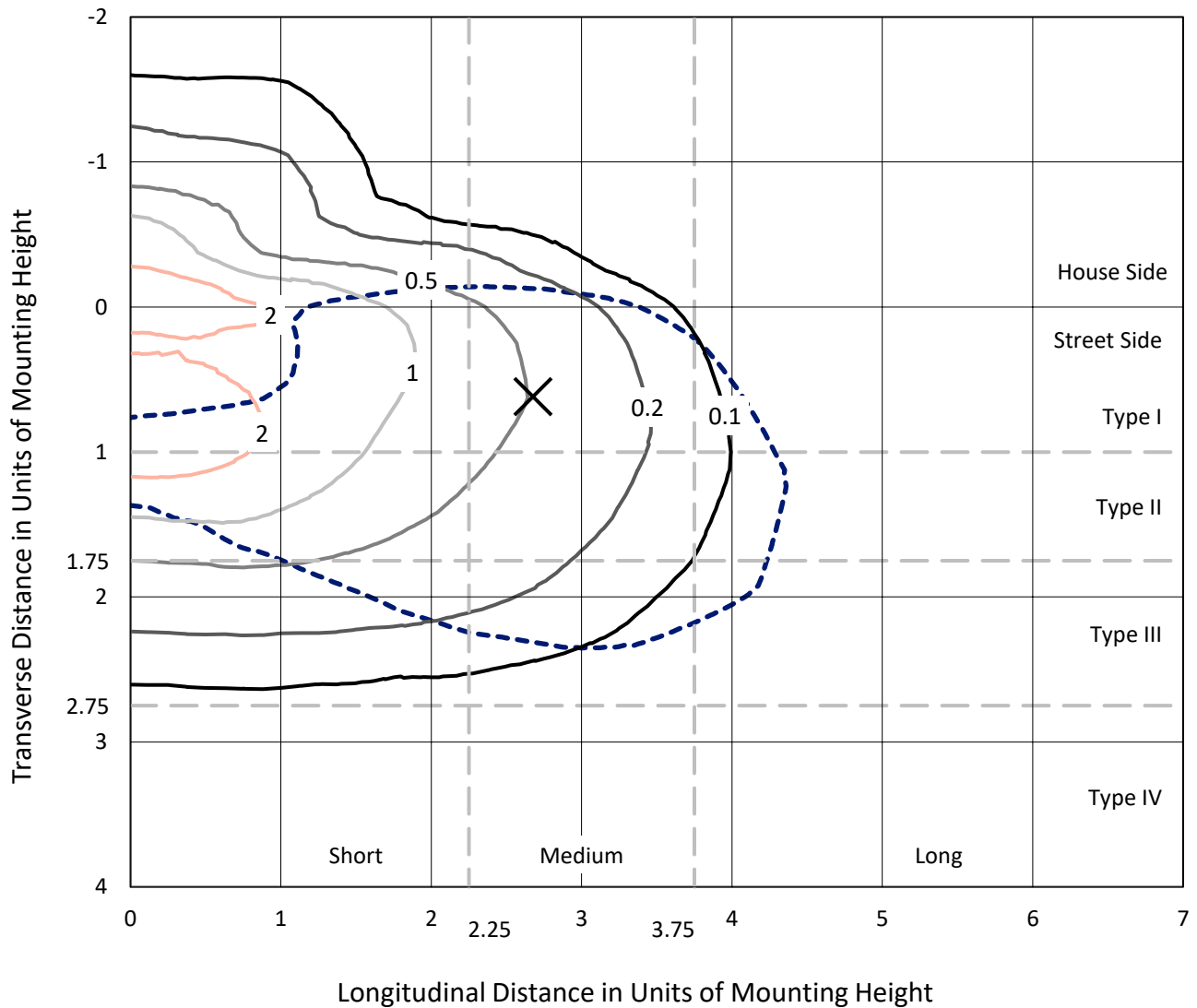
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

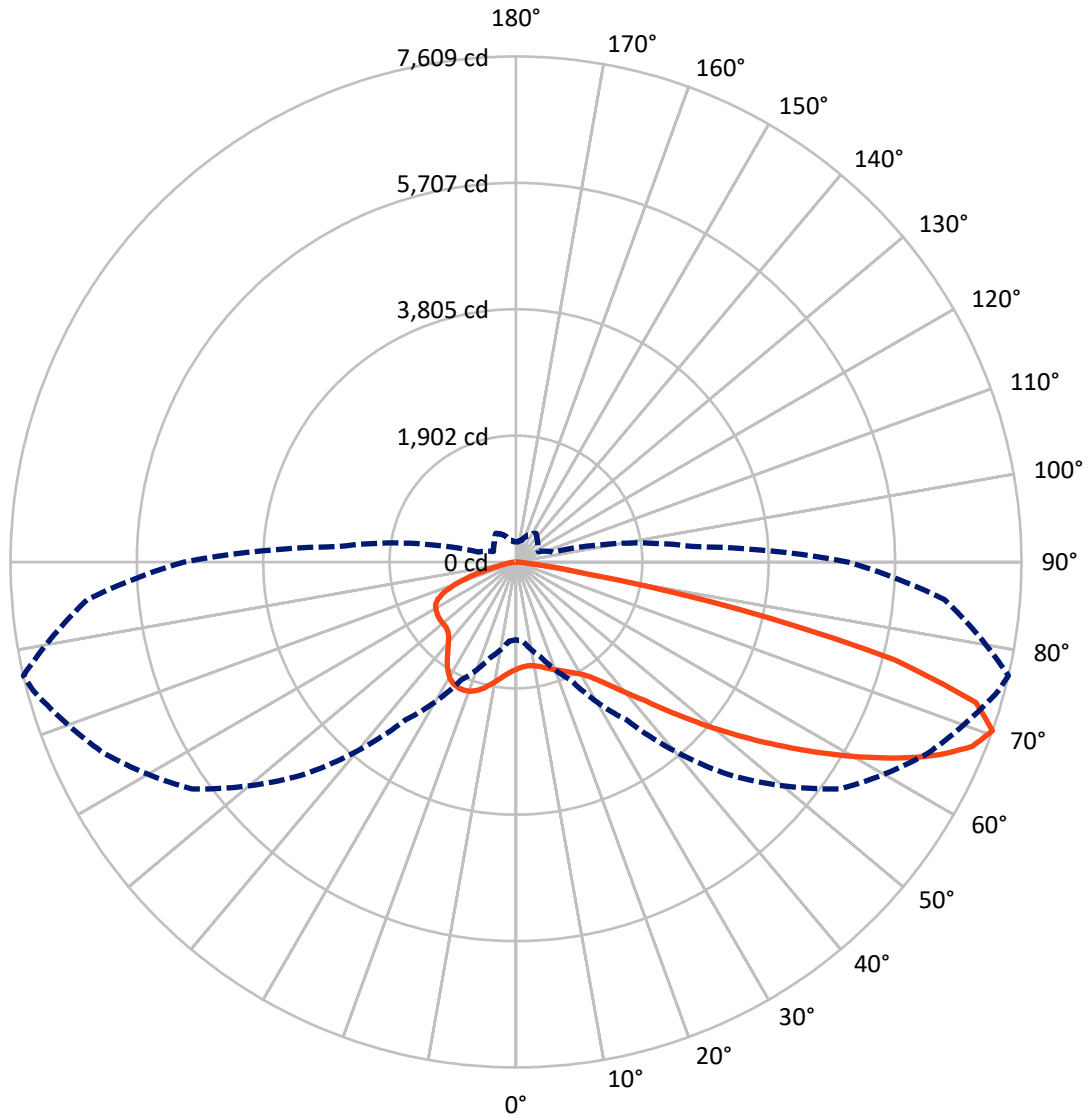
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type 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
House Side	Lumens	2531.7	0.0	2531.7
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	9029.3	0.0	9029.3
	% Fixture	78.1	0.0	78.1
Total	Lumens	11561.0	0.0	11561.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.8	1.3
10°-20°	444.0	3.8
20°-30°	759.2	6.6
30°-40°	1220.9	10.6
40°-50°	1906.1	16.5
50°-60°	2546.2	22.0
60°-70°	2713.8	23.5
70°-80°	1670.6	14.5
80°-90°	146.4	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°	11561.0	100.0
0°-180°	11561.0	100.0



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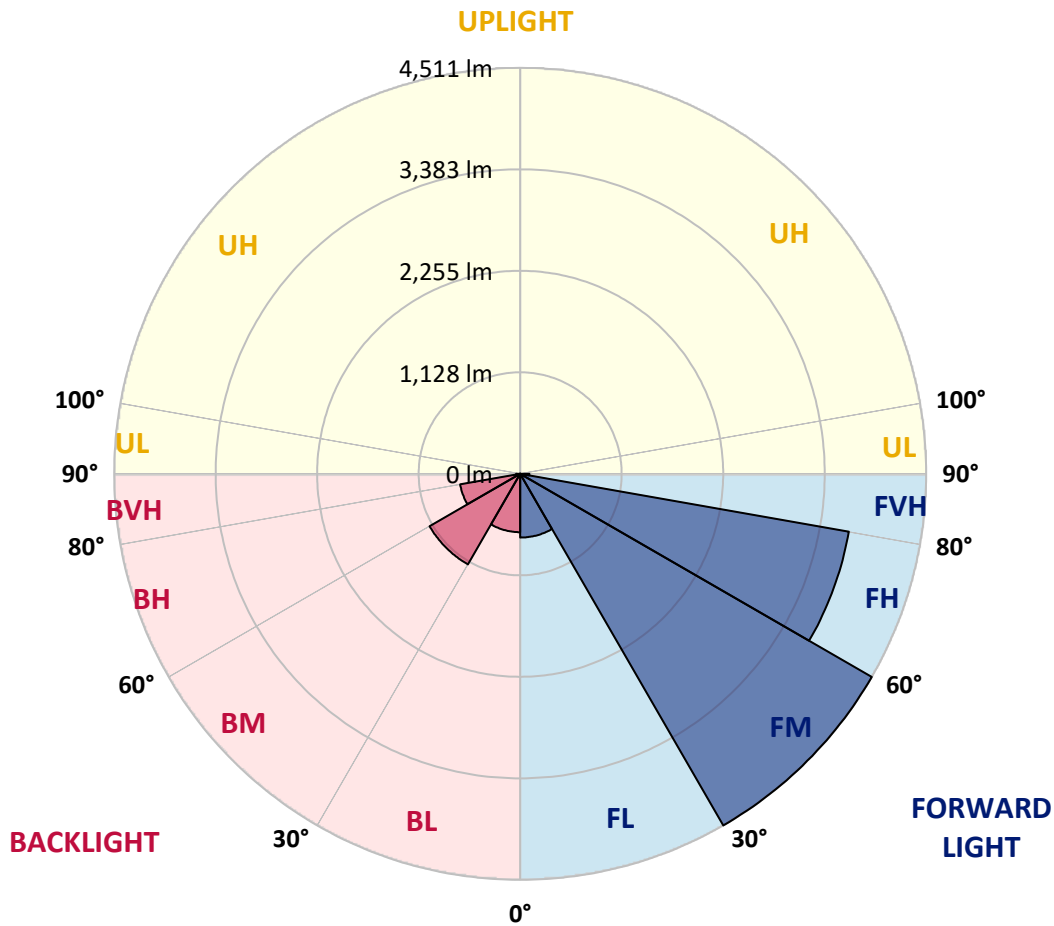
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	708.3	6.1			
FM (30°-60°)	4510.9	39.0			
FH (60°-80°)	3707.8	32.1			G2/5000
FVH (80°-90°)	102.4	0.9			G2/225
BL (0°-30°)	648.7	5.6	B2/1000		
BM (30°-60°)	1162.3	10.1	B2/2500		
BH (60°-80°)	676.6	5.9	B2/1000		G2/1000
BVH (80°-90°)	44.0	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°	1612.9	1612.9	1612.9	1612.9	1612.9	1612.9	1612.9	1612.9	1612.9	1612.9
2.5°	1486.7	1486.2	1493.9	1496.2	1510.4	1520.5	1539.4	1559.6	1585.6	1588.6
5°	1400.9	1400.9	1409.8	1419.3	1437.6	1457.7	1486.7	1521.7	1566.7	1573.8
7.5°	1328.1	1332.8	1340.5	1358.9	1380.2	1409.2	1453.6	1503.3	1562.5	1573.8
10°	1269.5	1274.8	1284.3	1299.1	1331.0	1371.3	1429.3	1493.3	1572.6	1590.4
12.5°	1251.1	1256.4	1261.8	1273.0	1302.6	1350.0	1419.3	1498.0	1596.9	1614.6
15°	1293.7	1300.2	1296.1	1293.1	1308.5	1351.8	1424.0	1515.2	1627.1	1652.5
17.5°	1392.0	1394.4	1384.9	1357.1	1354.7	1377.8	1446.5	1538.9	1665.0	1692.8
20°	1550.7	1546.6	1527.0	1471.9	1440.6	1435.8	1485.0	1574.4	1704.0	1733.7
22.5°	1766.2	1761.5	1722.4	1635.4	1565.5	1519.3	1540.6	1620.6	1747.9	1781.0
25°	2035.0	2028.5	1971.1	1852.7	1744.3	1630.0	1616.4	1681.5	1801.7	1832.5
27.5°	2348.8	2343.5	2281.3	2125.0	1968.7	1781.6	1710.6	1753.2	1858.0	1892.9
30°	2686.3	2701.7	2591.6	2423.4	2225.7	1979.4	1837.3	1841.4	1930.8	1962.2
32.5°	3083.0	3109.7	2977.1	2763.9	2493.9	2194.3	1997.1	1964.6	2036.8	2062.9
35°	3476.2	3506.4	3396.3	3160.6	2849.8	2447.7	2164.1	2106.1	2177.7	2206.1
37.5°	3816.0	3856.3	3799.5	3594.6	3230.5	2753.2	2382.0	2272.5	2351.2	2386.7
40°	4084.3	4145.8	4141.7	4013.8	3679.3	3123.9	2658.5	2477.9	2566.7	2605.2
42.5°	4302.2	4355.4	4401.6	4395.1	4147.6	3544.9	2983.6	2744.9	2812.4	2856.9
45°	4452.5	4509.4	4608.9	4716.0	4598.2	3995.5	3356.0	3061.7	3123.3	3190.2
47.5°	4587.0	4651.5	4780.6	4950.5	4980.7	4447.8	3763.9	3430.6	3486.8	3556.1
50°	4598.8	4654.5	4854.6	5095.6	5252.5	4882.4	4202.1	3844.5	3897.2	3971.2
52.5°	4312.8	4400.4	4749.8	5091.4	5377.4	5246.0	4637.3	4274.9	4334.1	4422.9
55°	3347.7	3476.2	4442.5	4932.7	5333.0	5481.0	5051.2	4732.6	4808.4	4901.4
57.5°	2883.5	2939.7	3526.5	4643.8	5130.5	5542.0	5400.5	5195.0	5317.0	5418.8
60°	2591.6	2638.4	2985.3	4194.4	4864.1	5445.5	5670.5	5626.1	5836.9	5958.2
62.5°	2279.0	2323.4	2639.0	3502.2	4523.0	5285.0	5841.0	6024.0	6369.8	6502.4
65°	1968.7	2006.6	2309.2	2942.7	4089.6	5124.6	5929.2	6368.0	6863.0	7000.3
67.5°	1622.9	1654.3	1940.3	2482.7	3562.6	4904.9	5973.0	6638.6	7292.2	7410.1
70°	1171.2	1195.4	1490.9	1963.4	2901.3	4527.2	5955.3	6830.4	7514.9	7609.0
72.5°	553.6	575.5	922.5	1274.8	2049.2	3791.8	5595.9	6678.2	7288.7	7241.9
75°	295.5	314.4	529.9	699.3	1082.3	2599.3	4579.3	5752.8	6120.5	5893.1
77.5°	200.1	214.9	328.0	419.8	494.4	1233.9	2943.3	3983.0	3832.0	3456.6
80°	158.7	174.1	268.8	284.2	239.2	445.8	1216.2	1843.8	1324.5	1059.3
82.5°	122.0	139.1	226.2	206.0	130.3	183.0	354.1	583.2	339.3	258.2
85°	74.6	93.0	177.6	131.4	73.4	83.5	120.2	162.2	103.6	86.4
87.5°	37.9	53.3	90.0	48.0	33.2	19.5	32.0	32.0	27.2	23.7
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°
1612.9	0°	1612.9	1612.9	1612.9	1612.9	1612.9	1612.9	1612.9	1612.9	1612.9	1612.9
1604.6	2.5°	1618.8	1630.6	1650.8	1669.7	1684.5	1698.7	1712.9	1720.6	1723.0	1732.5
1613.5	5°	1637.7	1659.6	1698.7	1735.4	1758.5	1772.7	1782.8	1788.7	1789.9	1792.9
1637.7	7.5°	1672.7	1707.6	1762.1	1798.8	1816.0	1814.8	1810.6	1795.8	1789.9	1784.6
1673.3	10°	1721.8	1768.0	1834.9	1860.4	1849.7	1821.3	1784.6	1741.3	1721.2	1701.7
1721.8	12.5°	1782.8	1841.4	1907.1	1906.0	1853.3	1780.4	1695.2	1628.9	1586.8	1556.6
1781.6	15°	1856.8	1924.3	1974.6	1934.4	1818.9	1688.1	1563.1	1476.7	1438.8	1405.6
1842.0	17.5°	1933.2	2005.4	2028.5	1925.5	1732.5	1551.3	1409.8	1341.7	1304.4	1286.6
1907.1	20°	2007.8	2079.4	2060.5	1874.6	1601.0	1396.2	1270.0	1232.7	1225.0	1229.2
1970.5	22.5°	2086.5	2150.5	2067.0	1776.3	1433.5	1237.5	1168.2	1169.4	1186.6	1199.0
2036.8	25°	2167.1	2210.3	2049.8	1634.2	1253.5	1120.8	1103.7	1122.6	1156.4	1180.6
2111.4	27.5°	2244.6	2263.6	2012.5	1458.3	1098.9	1037.3	1040.3	1079.4	1130.3	1164.1
2202.0	30°	2332.3	2310.9	1940.9	1260.6	991.8	965.7	990.6	1036.2	1087.1	1117.3
2316.3	32.5°	2431.1	2351.8	1827.2	1077.6	916.0	908.3	949.1	978.7	1001.2	1010.1
2467.8	35°	2554.3	2409.2	1681.5	949.1	847.9	866.2	905.3	890.5	881.6	876.9
2671.5	37.5°	2714.2	2486.8	1511.0	865.6	792.8	836.0	852.0	805.8	770.9	753.7
2918.4	40°	2906.6	2600.5	1347.0	801.1	757.9	810.0	782.2	726.5	682.1	657.8
3196.1	42.5°	3120.3	2719.5	1209.1	752.6	738.3	788.7	730.6	664.3	592.7	585.0
3527.1	45°	3344.7	2842.1	1114.9	715.2	728.9	770.3	701.0	593.9	543.0	574.3
3859.3	47.5°	3569.1	2954.6	1058.1	687.4	724.1	749.6	675.0	554.8	518.7	564.3
4215.1	50°	3819.0	3055.2	1032.6	667.3	718.8	741.3	635.9	544.7	493.2	523.4
4583.4	52.5°	4067.1	3133.4	1013.7	647.2	711.1	734.8	617.0	532.9	462.4	464.2
4954.1	55°	4314.6	3184.3	992.9	620.5	693.9	720.6	615.2	519.9	439.3	431.0
5346.0	57.5°	4578.7	3213.3	967.5	590.9	664.3	684.5	613.4	509.8	432.2	418.6
5746.9	60°	4847.5	3255.9	934.3	554.8	624.7	641.2	609.3	506.2	428.1	405.0
6124.6	62.5°	5088.5	3270.7	894.7	520.5	573.7	598.6	600.4	503.3	416.8	377.2
6438.4	65°	5246.5	3206.8	825.4	481.4	518.7	554.8	583.2	493.2	396.7	357.0
6593.6	67.5°	5240.0	3024.4	717.0	431.0	465.4	506.2	558.3	476.0	372.4	332.2
6476.3	70°	4996.1	2664.4	579.7	372.4	406.8	454.1	526.4	450.6	343.4	304.9
5758.7	72.5°	4285.0	2085.4	421.0	303.7	338.7	400.3	484.9	419.8	313.8	280.7
4256.0	75°	3061.1	1319.8	285.4	233.3	263.5	339.3	433.4	383.7	286.6	281.8
2131.5	77.5°	1563.7	630.6	188.9	170.5	183.5	267.6	364.1	342.8	290.7	232.7
606.3	80°	508.6	232.7	119.0	116.1	122.0	178.2	281.8	281.2	220.3	158.1
146.8	82.5°	162.2	100.1	77.6	74.6	71.6	111.9	196.6	222.6	148.6	100.1
52.7	85°	64.5	59.8	45.6	42.0	30.2	52.7	103.0	148.0	110.7	72.2
13.6	87.5°	23.7	23.7	12.4	8.9	6.5	17.8	27.8	44.4	63.4	37.3
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>
1612.9
1737.8
1797.6
1785.8
1695.8
1549.5
1402.1
1291.9
1227.4
1202.0
1187.1
1172.3
1124.4
1014.8
881.6
757.9
659.6
592.7
590.9
585.6
545.9
476.6
437.0
420.4
406.8
377.2
357.0
333.9
308.5
278.9
265.9
207.2
139.7
99.5
74.0
36.7
0.0

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