

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: P948670

Luminaire Tested: **GALN-SB3C-927-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948670
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-SB3C-927-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14041 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

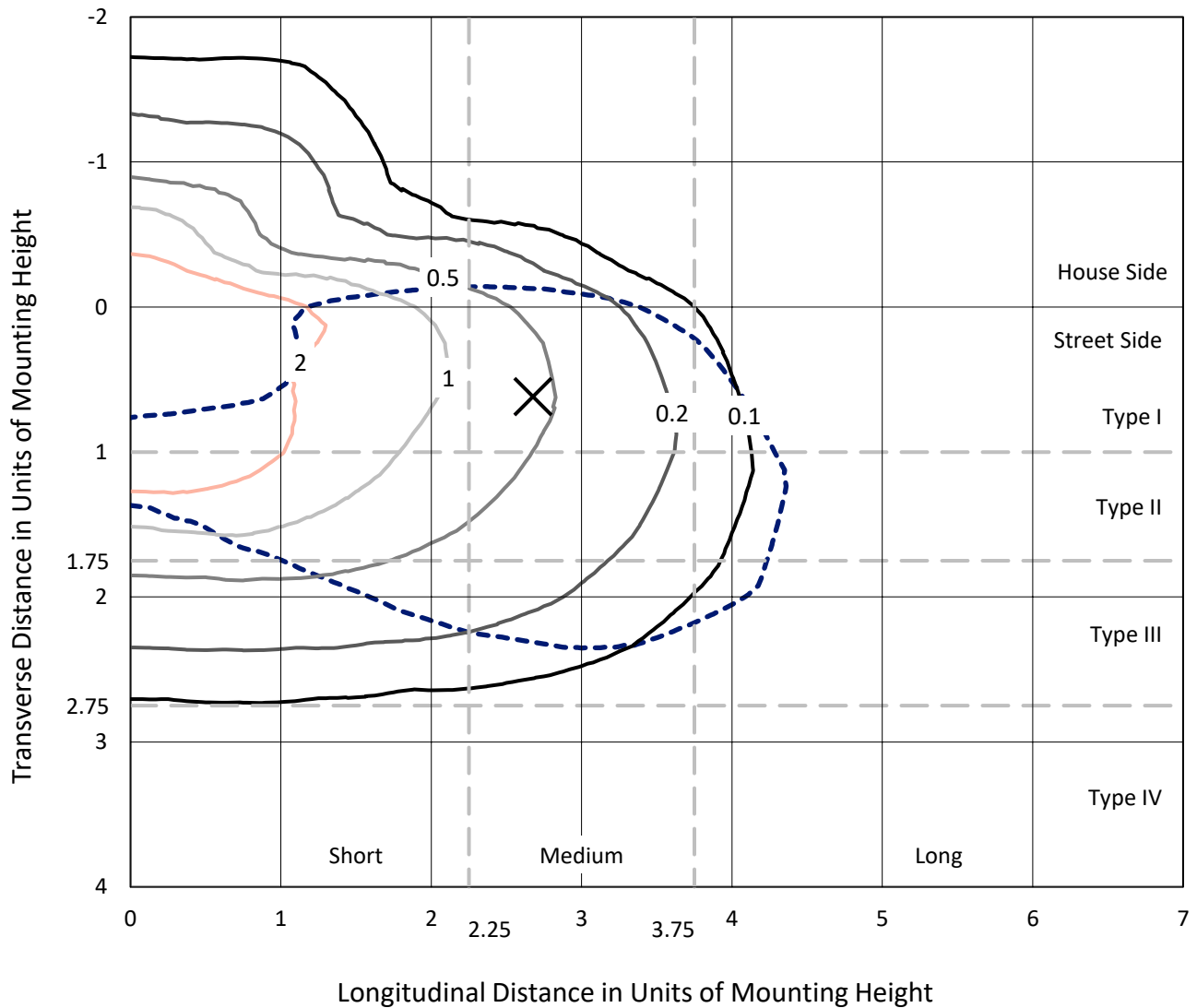
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

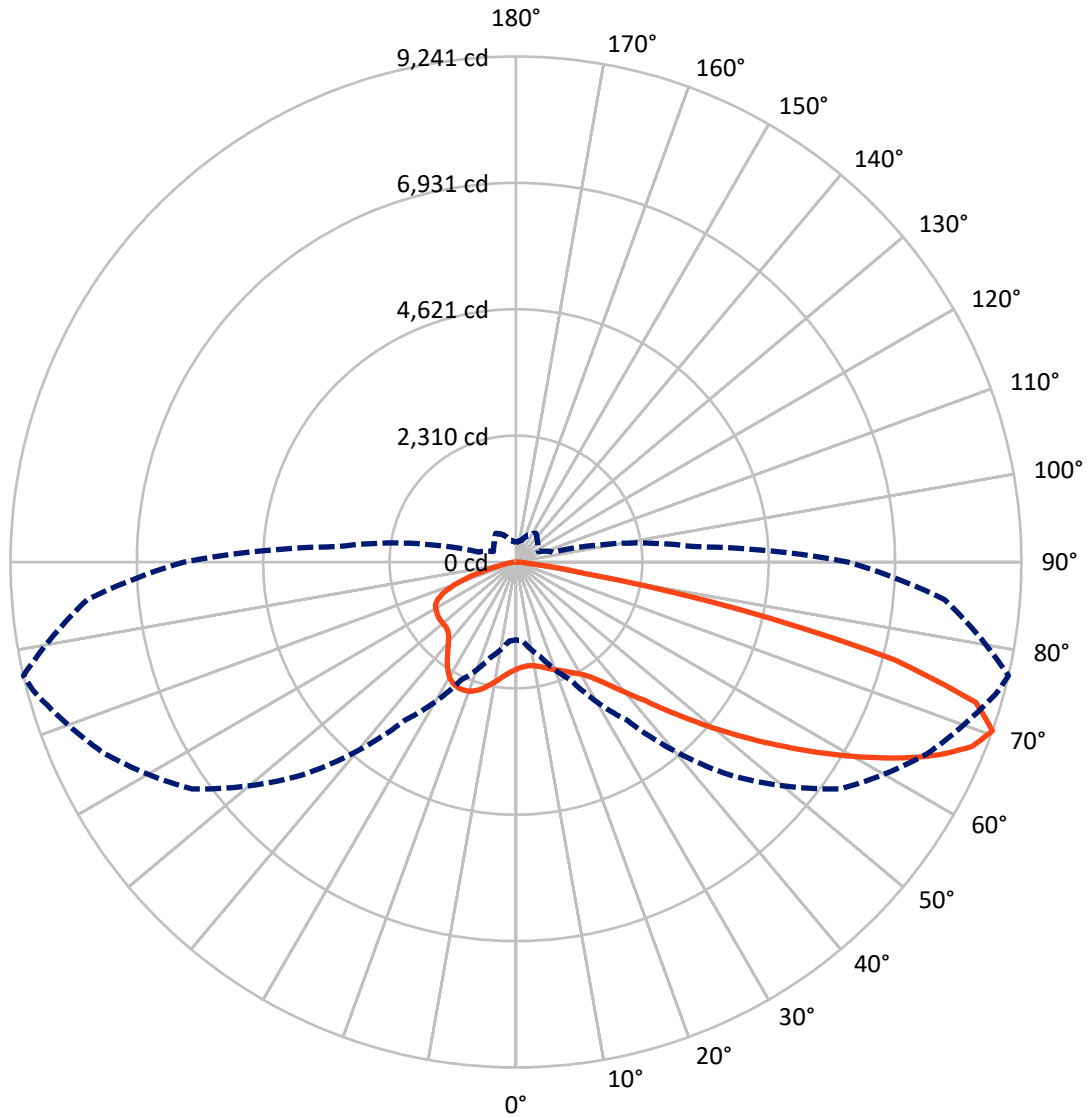
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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	3074.8	0.0	3074.8
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	10966.2	0.0	10966.2
	% Fixture	78.1	0.0	78.1
Total	Lumens	14041.0	0.0	14041.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.8	1.3
10°-20°	539.2	3.8
20°-30°	922.1	6.6
30°-40°	1482.8	10.6
40°-50°	2315.0	16.5
50°-60°	3092.3	22.0
60°-70°	3296.0	23.5
70°-80°	2029.0	14.5
80°-90°	177.8	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°	14041.0	100.0
0°-180°	14041.0	100.0



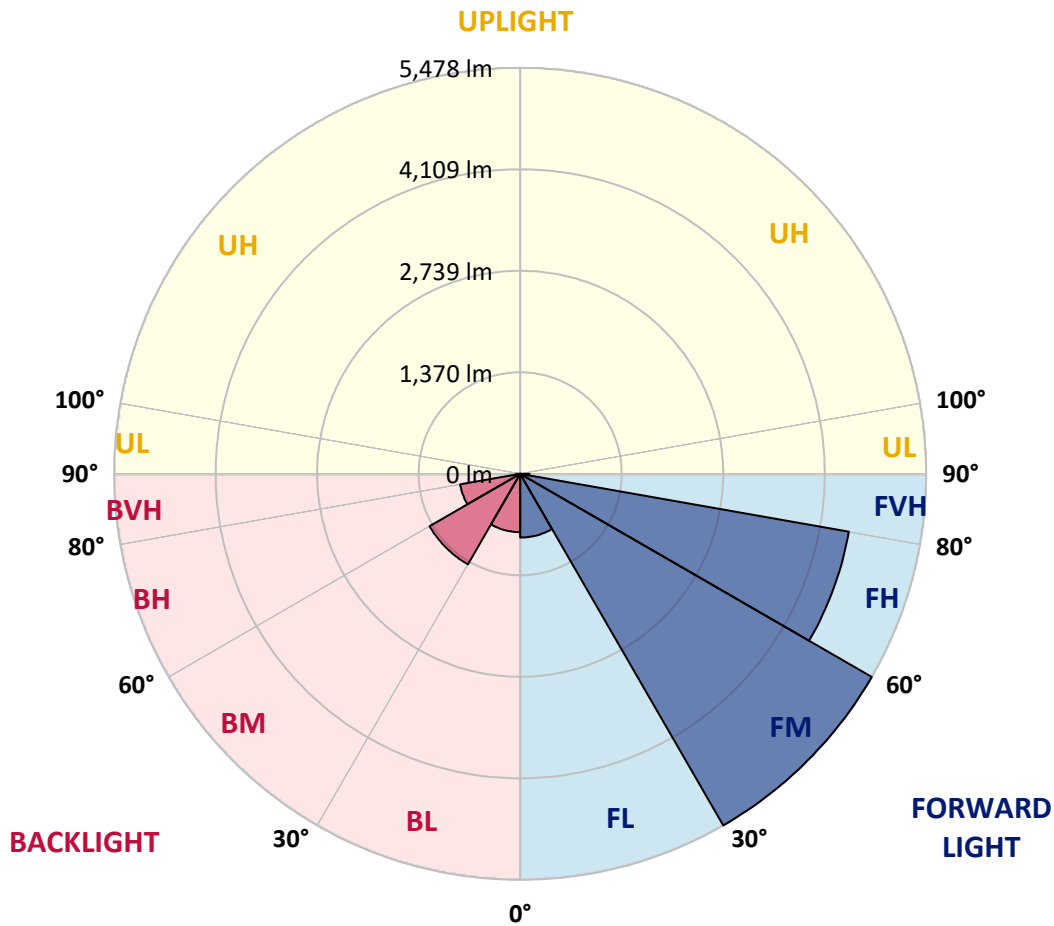
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	860.2	6.1			
FM (30°-60°)	5478.5	39.0			
FH (60°-80°)	4503.2	32.1			G2/5000
FVH (80°-90°)	124.3	0.9			G2/225
BL (0°-30°)	787.9	5.6	B2/1000		
BM (30°-60°)	1411.7	10.1	B2/2500		
BH (60°-80°)	821.7	5.9	B2/1000		G2/1000
BVH (80°-90°)	53.5	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°	1958.8	1958.8	1958.8	1958.8	1958.8	1958.8	1958.8	1958.8	1958.8	1958.8
2.5°	1805.7	1805.0	1814.3	1817.2	1834.4	1846.7	1869.7	1894.1	1925.8	1929.4
5°	1701.4	1701.4	1712.2	1723.7	1746.0	1770.4	1805.7	1848.1	1902.8	1911.4
7.5°	1613.0	1618.7	1628.1	1650.4	1676.2	1711.5	1765.4	1825.8	1897.7	1911.4
10°	1541.8	1548.2	1559.7	1577.7	1616.6	1665.5	1735.9	1813.6	1909.9	1931.5
12.5°	1519.5	1525.9	1532.4	1546.1	1582.0	1639.6	1723.7	1819.3	1939.4	1961.0
15°	1571.2	1579.2	1574.1	1570.5	1589.2	1641.7	1729.5	1840.2	1976.1	2007.0
17.5°	1690.6	1693.5	1682.0	1648.2	1645.3	1673.4	1756.8	1869.0	2022.1	2055.9
20°	1883.3	1878.3	1854.6	1787.7	1749.6	1743.8	1803.5	1912.1	2069.6	2105.5
22.5°	2145.1	2139.3	2091.9	1986.2	1901.3	1845.2	1871.1	1968.2	2122.8	2163.1
25°	2471.6	2463.7	2393.9	2250.1	2118.5	1979.7	1963.2	2042.3	2188.2	2225.6
27.5°	2852.7	2846.2	2770.7	2580.9	2391.0	2163.8	2077.5	2129.3	2256.6	2299.0
30°	3262.6	3281.3	3147.5	2943.3	2703.1	2404.0	2231.4	2236.4	2345.0	2383.1
32.5°	3744.4	3776.8	3615.7	3356.8	3028.9	2665.0	2425.5	2386.0	2473.7	2505.4
35°	4221.9	4258.6	4124.8	3838.6	3461.1	2972.8	2628.3	2557.9	2644.9	2679.4
37.5°	4634.6	4683.5	4614.5	4365.7	3923.4	3343.8	2893.0	2759.9	2855.6	2898.7
40°	4960.4	5035.2	5030.2	4874.8	4468.5	3794.0	3228.8	3009.5	3117.3	3164.1
42.5°	5225.0	5289.8	5345.8	5337.9	5037.3	4305.3	3623.6	3333.8	3415.8	3469.7
45°	5407.7	5476.7	5597.5	5727.7	5584.6	4852.5	4075.9	3718.5	3793.3	3874.5
47.5°	5570.9	5649.3	5806.1	6012.5	6049.1	5401.9	4571.4	4166.5	4234.8	4319.0
50°	5585.3	5652.9	5896.0	6188.6	6379.2	5929.8	5103.5	4669.2	4733.2	4823.1
52.5°	5238.0	5344.4	5768.7	6183.6	6530.9	6371.3	5632.0	5192.0	5263.9	5371.7
55°	4065.8	4221.9	5395.5	5990.9	6477.0	6656.8	6134.7	5747.8	5839.9	5952.8
57.5°	3502.1	3570.4	4283.0	5640.0	6231.1	6730.8	6559.0	6309.4	6457.6	6581.3
60°	3147.5	3204.3	3625.7	5094.2	5907.5	6613.6	6886.9	6833.0	7089.0	7236.4
62.5°	2767.8	2821.8	3205.1	4253.5	5493.3	6418.7	7094.0	7316.2	7736.2	7897.2
65°	2391.0	2437.1	2804.5	3574.0	4966.9	6223.9	7201.1	7734.0	8335.2	8502.0
67.5°	1971.1	2009.2	2356.5	3015.2	4326.9	5957.1	7254.4	8062.6	8856.5	8999.6
70°	1422.4	1451.9	1810.7	2384.6	3523.6	5498.3	7232.8	8295.6	9126.9	9241.2
72.5°	672.4	699.0	1120.4	1548.2	2488.8	4605.2	6796.3	8110.8	8852.2	8795.4
75°	358.8	381.8	643.6	849.3	1314.5	3156.9	5561.6	6986.8	7433.4	7157.3
77.5°	243.1	261.0	398.4	509.8	600.5	1498.6	3574.7	4837.4	4654.1	4198.1
80°	192.7	211.4	326.5	345.2	290.5	541.5	1477.0	2239.3	1608.6	1286.5
82.5°	148.1	169.0	274.7	250.2	158.2	222.2	430.0	708.3	412.0	313.5
85°	90.6	112.9	215.7	159.6	89.2	101.4	146.0	197.0	125.8	105.0
87.5°	46.0	64.7	109.3	58.2	40.3	23.7	38.8	38.8	33.1	28.8
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°
1958.8	0°	1958.8	1958.8	1958.8	1958.8	1958.8	1958.8	1958.8	1958.8	1958.8	1958.8
1948.8	2.5°	1966.0	1980.4	2004.9	2027.9	2045.9	2063.1	2080.4	2089.7	2092.6	2104.1
1959.6	5°	1989.1	2015.7	2063.1	2107.7	2135.7	2153.0	2165.2	2172.4	2173.9	2177.5
1989.1	7.5°	2031.5	2073.9	2140.1	2184.6	2205.5	2204.1	2199.0	2181.1	2173.9	2167.4
2032.2	10°	2091.2	2147.3	2228.5	2259.4	2246.5	2212.0	2167.4	2114.9	2090.4	2066.7
2091.2	12.5°	2165.2	2236.4	2316.2	2314.8	2250.8	2162.4	2058.8	1978.3	1927.2	1890.5
2163.8	15°	2255.1	2337.1	2398.2	2349.3	2209.1	2050.2	1898.4	1793.5	1747.4	1707.2
2237.1	17.5°	2347.9	2435.6	2463.7	2338.5	2104.1	1884.1	1712.2	1629.5	1584.2	1562.6
2316.2	20°	2438.5	2525.5	2502.5	2276.7	1944.5	1695.7	1542.5	1497.2	1487.8	1492.9
2393.2	22.5°	2534.1	2611.8	2510.4	2157.3	1741.0	1502.9	1418.8	1420.2	1441.1	1456.2
2473.7	25°	2631.9	2684.4	2489.5	1984.7	1522.3	1361.3	1340.4	1363.4	1404.4	1433.9
2564.3	27.5°	2726.1	2749.1	2444.2	1771.2	1334.7	1259.9	1263.5	1310.9	1372.8	1413.8
2674.4	30°	2832.6	2806.7	2357.2	1531.0	1204.5	1172.9	1203.1	1258.4	1320.3	1357.0
2813.1	32.5°	2952.7	2856.3	2219.2	1308.8	1112.5	1103.1	1152.7	1188.7	1216.0	1226.8
2997.2	35°	3102.2	2926.0	2042.3	1152.7	1029.8	1052.1	1099.5	1081.5	1070.8	1065.0
3244.6	37.5°	3296.4	3020.2	1835.2	1051.3	962.9	1015.4	1034.8	978.7	936.3	915.4
3544.5	40°	3530.1	3158.3	1636.0	973.0	920.5	983.7	949.9	882.3	828.4	798.9
3881.7	42.5°	3789.7	3302.9	1468.4	914.0	896.7	957.9	887.4	806.8	719.8	710.5
4283.7	45°	4062.2	3451.7	1354.1	868.7	885.2	935.6	851.4	721.3	659.4	697.5
4687.1	47.5°	4334.8	3588.3	1285.0	834.9	879.5	910.4	819.8	673.8	629.9	685.3
5119.3	50°	4638.2	3710.6	1254.1	810.4	873.0	900.3	772.3	661.6	599.0	635.7
5566.6	52.5°	4939.5	3805.5	1231.1	786.0	863.6	892.4	749.3	647.2	561.6	563.8
6016.8	55°	5240.1	3867.4	1205.9	753.6	842.8	875.2	747.2	631.4	533.6	523.5
6492.8	57.5°	5560.9	3902.6	1175.0	717.7	806.8	831.3	745.0	619.2	524.9	508.4
6979.7	60°	5887.3	3954.4	1134.8	673.8	758.7	778.8	740.0	614.8	519.9	491.9
7438.4	62.5°	6180.0	3972.3	1086.6	632.1	696.8	727.0	729.2	611.2	506.3	458.1
7819.6	65°	6372.0	3894.7	1002.4	584.6	629.9	673.8	708.3	599.0	481.8	433.6
8008.0	67.5°	6364.1	3673.2	870.8	523.5	565.2	614.8	678.1	578.2	452.3	403.4
7865.6	70°	6067.8	3236.0	704.0	452.3	494.0	551.6	639.3	547.2	417.1	370.3
6994.0	72.5°	5204.2	2532.7	511.3	368.9	411.3	486.1	588.9	509.8	381.1	340.9
5168.9	75°	3717.8	1602.9	346.6	283.3	320.0	412.0	526.4	466.0	348.0	342.3
2588.8	77.5°	1899.2	765.8	229.4	207.1	222.9	325.0	442.3	416.4	353.1	282.6
736.4	80°	617.7	282.6	144.5	140.9	148.1	216.5	342.3	341.6	267.5	192.0
178.3	82.5°	197.0	121.5	94.2	90.6	87.0	135.9	238.7	270.4	180.5	121.5
64.0	85°	78.4	72.6	55.4	51.1	36.7	64.0	125.1	179.8	134.5	87.7
16.5	87.5°	28.8	28.8	15.1	10.8	7.9	21.6	33.8	53.9	76.9	45.3
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>
1958.8
2110.6
2183.2
2168.8
2059.5
1881.9
1702.8
1569.1
1490.7
1459.8
1441.8
1423.8
1365.6
1232.5
1070.8
920.5
801.1
719.8
717.7
711.2
663.0
578.9
530.7
510.6
494.0
458.1
433.6
405.6
374.7
338.7
322.9
251.7
169.7
120.8
89.9
44.6
0.0

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