

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: P947158

Luminaire Tested: **GALN-SB2C-830-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947158
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-SB2C-830-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13815 lumens
Efficiency: N/A
Efficacy: 136.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

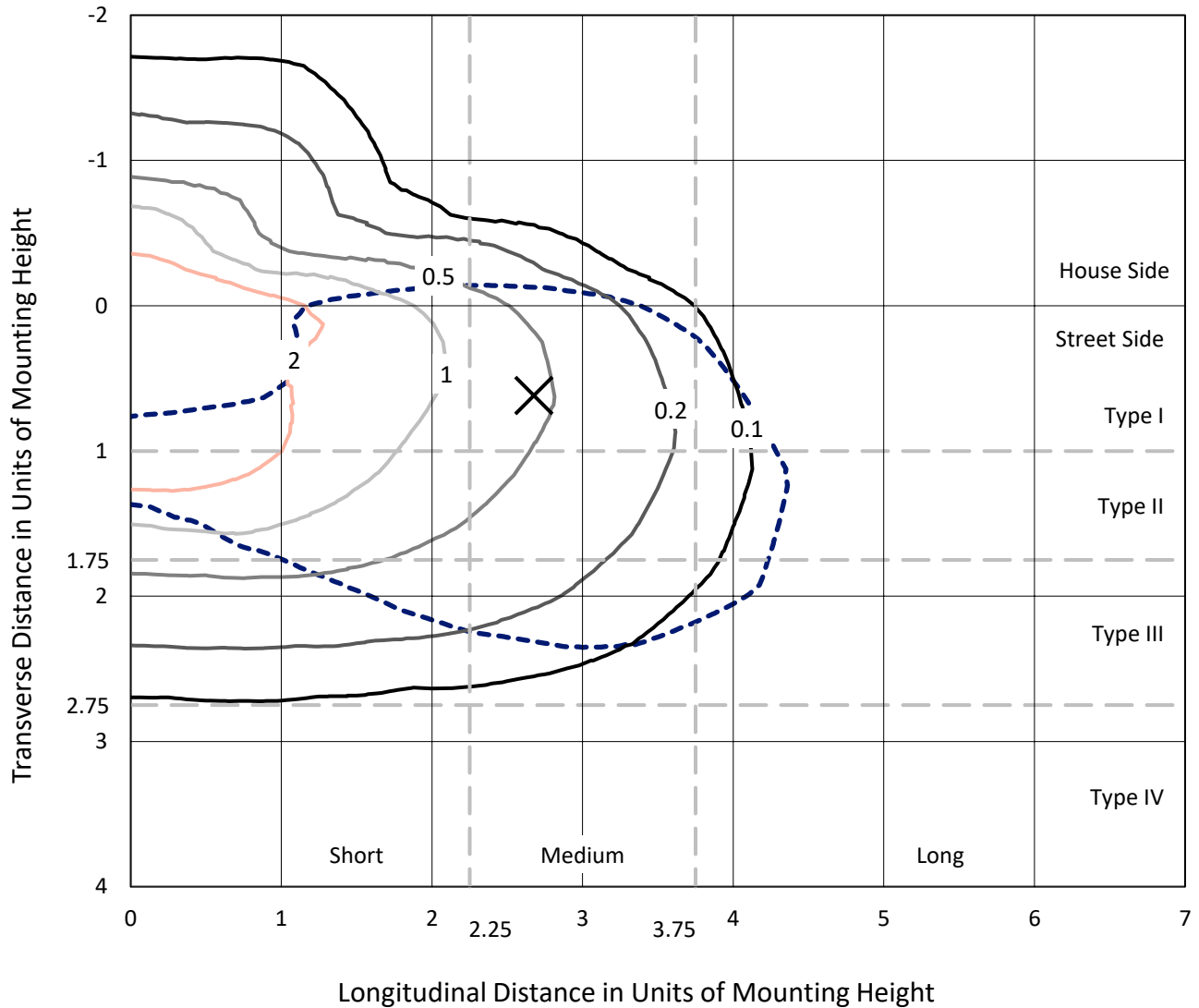
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

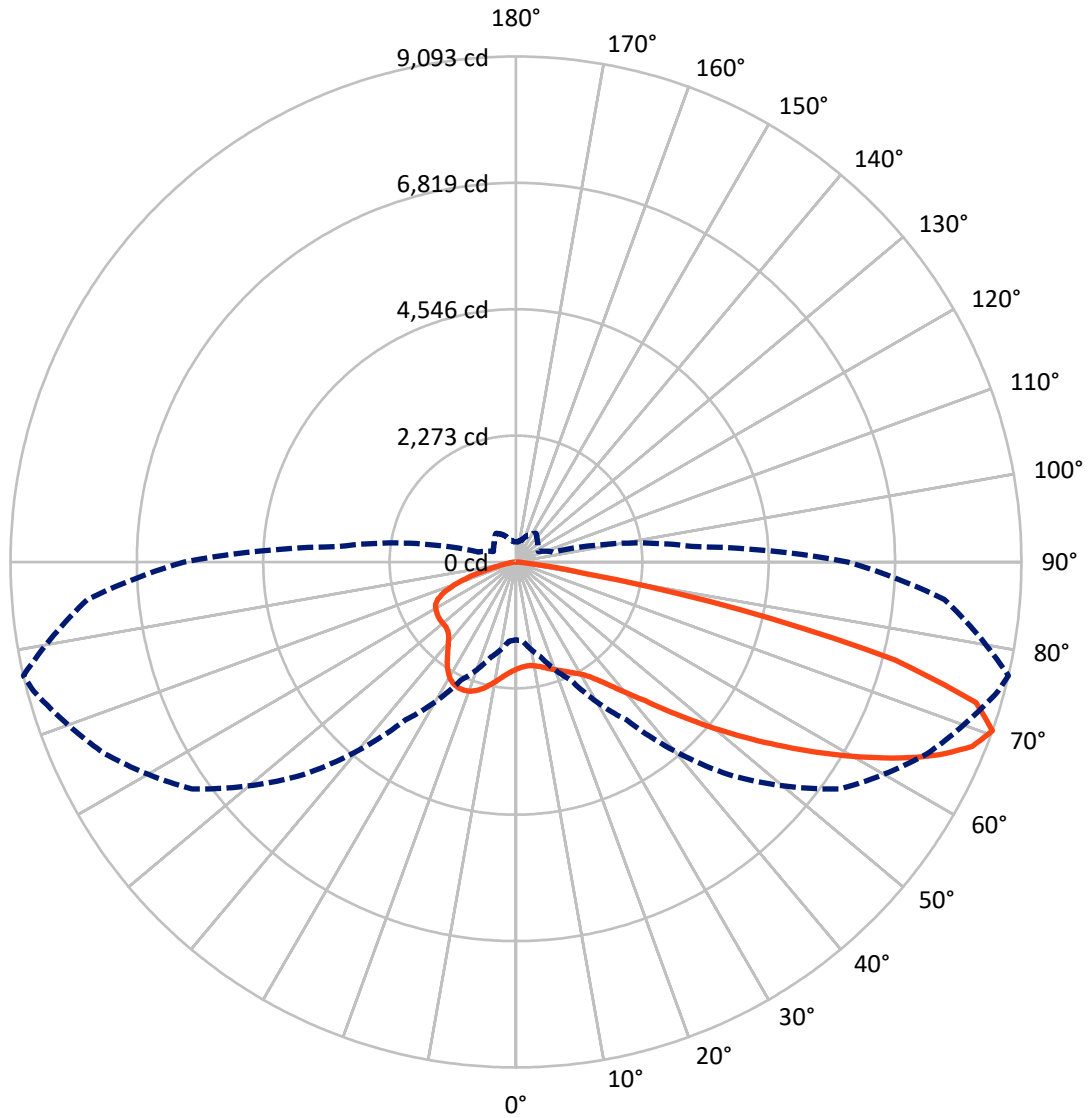
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	3025.3	0.0	3025.3
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	10789.7	0.0	10789.7
	% Fixture	78.1	0.0	78.1
Total	Lumens	13815.0	0.0	13815.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.8	1.3
10°-20°	530.5	3.8
20°-30°	907.2	6.6
30°-40°	1458.9	10.6
40°-50°	2277.8	16.5
50°-60°	3042.6	22.0
60°-70°	3242.9	23.5
70°-80°	1996.3	14.5
80°-90°	174.9	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°	13815.0	100.0
0°-180°	13815.0	100.0



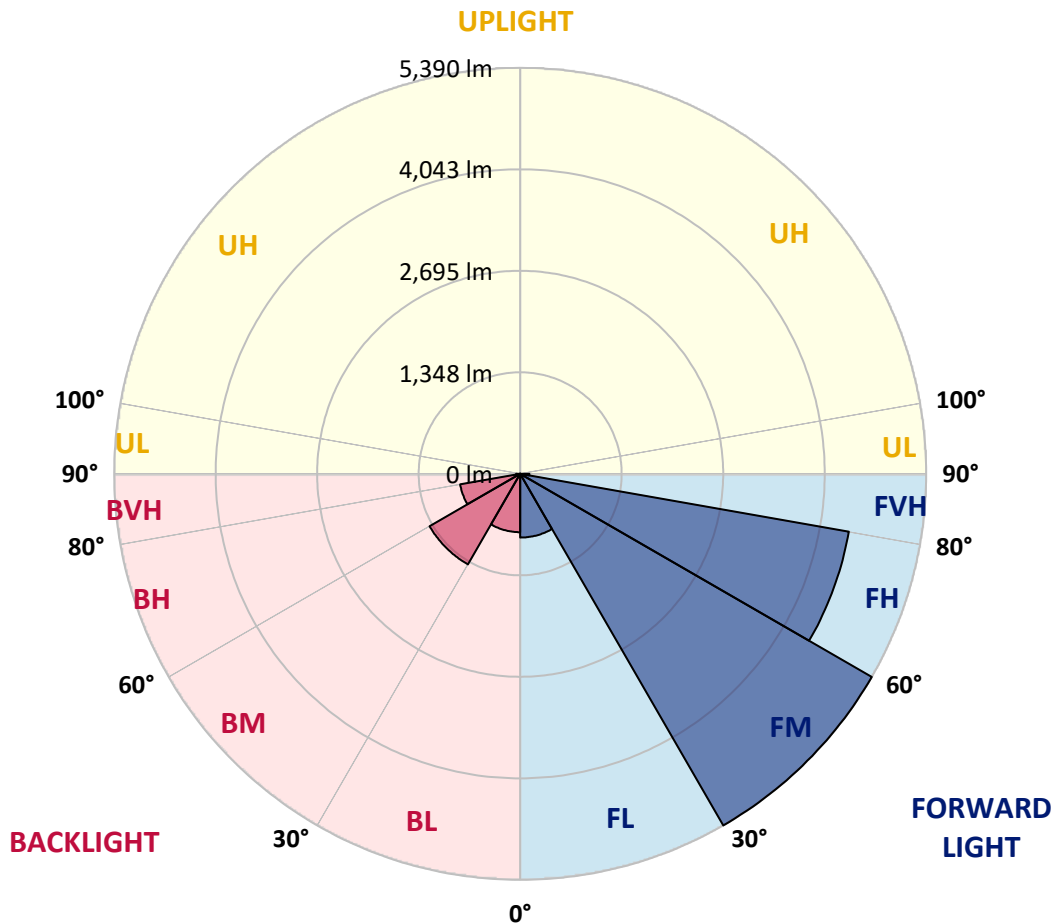
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	846.4	6.1			
FM (30°-60°)	5390.3	39.0			
FH (60°-80°)	4430.7	32.1			G2/5000
FVH (80°-90°)	122.3	0.9			G2/225
BL (0°-30°)	775.2	5.6	B2/1000		
BM (30°-60°)	1389.0	10.1	B2/2500		
BH (60°-80°)	808.5	5.9	B2/1000		G2/1000
BVH (80°-90°)	52.6	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°	1927.3	1927.3	1927.3	1927.3	1927.3	1927.3	1927.3	1927.3	1927.3	1927.3
2.5°	1776.6	1775.9	1785.1	1787.9	1804.9	1816.9	1839.6	1863.6	1894.8	1898.3
5°	1674.0	1674.0	1684.6	1696.0	1717.9	1741.9	1776.6	1818.4	1872.1	1880.6
7.5°	1587.0	1592.7	1601.9	1623.8	1649.3	1683.9	1737.0	1796.4	1867.2	1880.6
10°	1516.9	1523.3	1534.6	1552.3	1590.5	1638.6	1708.0	1784.4	1879.2	1900.4
12.5°	1495.0	1501.4	1507.8	1521.2	1556.6	1613.2	1696.0	1790.1	1908.2	1929.4
15°	1546.0	1553.7	1548.8	1545.3	1563.6	1615.3	1701.6	1810.6	1944.3	1974.7
17.5°	1663.4	1666.2	1654.9	1621.7	1618.8	1646.4	1728.5	1838.9	1989.6	2022.8
20°	1853.0	1848.1	1824.7	1758.9	1721.4	1715.8	1774.5	1881.3	2036.3	2071.7
22.5°	2110.6	2104.9	2058.2	1954.2	1870.7	1815.5	1841.0	1936.5	2088.6	2128.3
25°	2431.8	2424.0	2355.4	2213.9	2084.4	1947.8	1931.6	2009.4	2153.0	2189.8
27.5°	2806.8	2800.4	2726.1	2539.3	2352.5	2129.0	2044.1	2095.0	2220.2	2262.0
30°	3210.1	3228.5	3096.9	2895.9	2659.6	2365.3	2195.5	2200.4	2307.3	2344.8
32.5°	3684.1	3716.0	3557.5	3302.8	2980.1	2622.1	2386.5	2347.6	2433.9	2465.0
35°	4153.9	4190.0	4058.4	3776.8	3405.4	2924.9	2586.0	2516.7	2602.3	2636.3
37.5°	4560.0	4608.2	4540.2	4295.4	3860.3	3290.0	2846.4	2715.5	2809.6	2852.1
40°	4880.6	4954.1	4949.2	4796.4	4396.6	3732.9	3176.8	2961.0	3067.2	3113.1
42.5°	5140.9	5204.6	5259.8	5252.0	4956.3	4236.0	3565.3	3280.1	3360.8	3413.8
45°	5320.6	5388.6	5507.4	5635.5	5494.7	4774.4	4010.3	3658.7	3732.2	3812.2
47.5°	5481.3	5558.4	5712.6	5915.7	5951.8	5315.0	4497.8	4099.4	4166.7	4249.4
50°	5495.4	5561.9	5801.1	6089.0	6276.5	5834.3	5021.4	4594.0	4657.0	4745.4
52.5°	5153.7	5258.4	5675.8	6084.1	6425.8	6268.7	5541.4	5108.4	5179.1	5285.3
55°	4000.4	4153.9	5308.6	5894.5	6372.7	6549.6	6036.0	5655.3	5745.9	5857.0
57.5°	3445.7	3512.9	4214.1	5549.2	6130.8	6622.5	6453.4	6207.9	6353.6	6475.3
60°	3096.9	3152.8	3567.4	5012.2	5812.4	6507.2	6776.0	6723.0	6974.9	7119.9
62.5°	2723.3	2776.4	3153.5	4185.1	5404.8	6315.4	6979.8	7198.4	7611.6	7770.1
65°	2352.5	2397.8	2759.4	3516.4	4886.9	6123.7	7085.2	7609.5	8201.0	8365.2
67.5°	1939.3	1976.8	2318.6	2966.7	4257.2	5861.2	7137.6	7932.9	8714.0	8854.8
70°	1399.5	1428.5	1781.6	2346.2	3466.9	5409.8	7116.4	8162.1	8980.0	9092.5
72.5°	661.5	687.7	1102.3	1523.3	2448.8	4531.0	6686.9	7980.3	8709.7	8653.8
75°	353.1	375.7	633.2	835.6	1293.4	3106.1	5472.1	6874.4	7313.8	7042.1
77.5°	239.1	256.8	392.0	501.6	590.8	1474.5	3517.1	4759.6	4579.2	4130.6
80°	189.6	208.0	321.2	339.6	285.8	532.8	1453.3	2203.3	1582.8	1265.8
82.5°	145.8	166.3	270.3	246.2	155.7	218.6	423.1	696.9	405.4	308.5
85°	89.1	111.1	212.3	157.1	87.7	99.8	143.6	193.9	123.8	103.3
87.5°	45.3	63.7	107.5	57.3	39.6	23.3	38.2	38.2	32.5	28.3
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°
1927.3	0°	1927.3	1927.3	1927.3	1927.3	1927.3	1927.3	1927.3	1927.3	1927.3	1927.3
1917.4	2.5°	1934.4	1948.5	1972.6	1995.2	2012.9	2029.9	2046.9	2056.1	2058.9	2070.2
1928.0	5°	1957.0	1983.2	2029.9	2073.8	2101.4	2118.4	2130.4	2137.5	2138.9	2142.4
1957.0	7.5°	1998.8	2040.5	2105.6	2149.5	2170.0	2168.6	2163.6	2145.9	2138.9	2132.5
1999.5	10°	2057.5	2112.7	2192.6	2223.1	2210.3	2176.4	2132.5	2080.9	2056.8	2033.4
2057.5	12.5°	2130.4	2200.4	2279.0	2277.5	2214.6	2127.6	2025.7	1946.4	1896.2	1860.1
2129.0	15°	2218.8	2299.5	2359.6	2311.5	2173.5	2017.2	1867.9	1764.6	1719.3	1679.7
2201.1	17.5°	2310.1	2396.4	2424.0	2300.9	2070.2	1853.7	1684.6	1603.3	1558.7	1537.5
2279.0	20°	2399.2	2484.9	2462.2	2240.0	1913.2	1668.4	1517.7	1473.1	1463.9	1468.8
2354.7	22.5°	2493.3	2569.8	2470.0	2122.6	1712.9	1478.7	1396.0	1397.4	1417.9	1432.8
2433.9	25°	2589.6	2641.2	2449.5	1952.8	1497.8	1339.4	1318.8	1341.5	1381.8	1410.8
2523.1	27.5°	2682.3	2704.9	2404.9	1742.7	1313.2	1239.6	1243.1	1289.8	1350.7	1391.0
2631.3	30°	2787.0	2761.5	2319.3	1506.3	1185.1	1154.0	1183.7	1238.2	1299.0	1335.1
2767.9	32.5°	2905.1	2810.3	2183.4	1287.7	1094.6	1085.4	1134.2	1169.6	1196.4	1207.1
2949.0	35°	3052.3	2878.9	2009.4	1134.2	1013.2	1035.1	1081.8	1064.1	1053.5	1047.9
3192.4	37.5°	3243.3	2971.6	1805.6	1034.4	947.4	999.0	1018.1	963.0	921.2	900.7
3487.4	40°	3473.3	3107.5	1609.6	957.3	905.6	967.9	934.7	868.1	815.1	786.1
3819.3	42.5°	3728.7	3249.7	1444.8	899.3	882.3	942.4	873.1	793.9	708.2	699.0
4214.8	45°	3996.9	3396.2	1332.3	854.7	871.0	920.5	837.7	709.7	648.8	686.3
4611.7	47.5°	4265.0	3530.6	1264.4	821.4	865.3	895.7	806.6	663.0	619.8	674.3
5036.9	50°	4563.6	3650.9	1233.9	797.4	858.9	885.8	759.9	650.9	589.4	625.5
5477.0	52.5°	4860.0	3744.3	1211.3	773.3	849.7	878.0	737.2	636.8	552.6	554.7
5919.9	55°	5155.8	3805.1	1186.5	741.5	829.2	861.1	735.1	621.2	525.0	515.1
6388.3	57.5°	5471.3	3839.8	1156.1	706.1	793.9	817.9	733.0	609.2	516.5	500.2
6867.3	60°	5792.6	3890.7	1116.5	663.0	746.4	766.3	728.1	604.9	511.5	484.0
7318.7	62.5°	6080.5	3908.4	1069.1	621.9	685.6	715.3	717.4	601.4	498.1	450.7
7693.7	65°	6269.4	3832.0	986.3	575.2	619.8	663.0	696.9	589.4	474.0	426.6
7879.1	67.5°	6261.7	3614.1	856.8	515.1	556.1	604.9	667.2	568.9	445.0	396.9
7739.0	70°	5970.2	3183.9	692.7	445.0	486.1	542.7	629.0	538.4	410.4	364.4
6881.5	72.5°	5120.4	2491.9	503.1	363.0	404.7	478.3	579.5	501.6	375.0	335.4
5085.7	75°	3657.9	1577.1	341.0	278.8	314.9	405.4	517.9	458.5	342.4	336.8
2547.1	77.5°	1868.6	753.5	225.7	203.8	219.3	319.8	435.1	409.7	347.4	278.1
724.5	80°	607.8	278.1	142.2	138.7	145.8	213.0	336.8	336.1	263.2	188.9
175.5	82.5°	193.9	119.6	92.7	89.1	85.6	133.7	234.9	266.0	177.6	119.6
63.0	85°	77.1	71.5	54.5	50.2	36.1	63.0	123.1	176.9	132.3	86.3
16.3	87.5°	28.3	28.3	14.9	10.6	7.8	21.2	33.3	53.1	75.7	44.6
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>
1927.3
2076.6
2148.1
2133.9
2026.4
1851.6
1675.4
1543.8
1466.7
1436.3
1418.6
1400.9
1343.6
1212.7
1053.5
905.6
788.2
708.2
706.1
699.7
652.3
569.6
522.2
502.3
486.1
450.7
426.6
399.0
368.6
333.2
317.7
247.6
167.0
118.9
88.4
43.9
0.0

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