

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: P947095

Luminaire Tested: **GALN-SB2C-750-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947095
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-750-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16267 lumens
Efficiency: N/A
Efficacy: 161.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

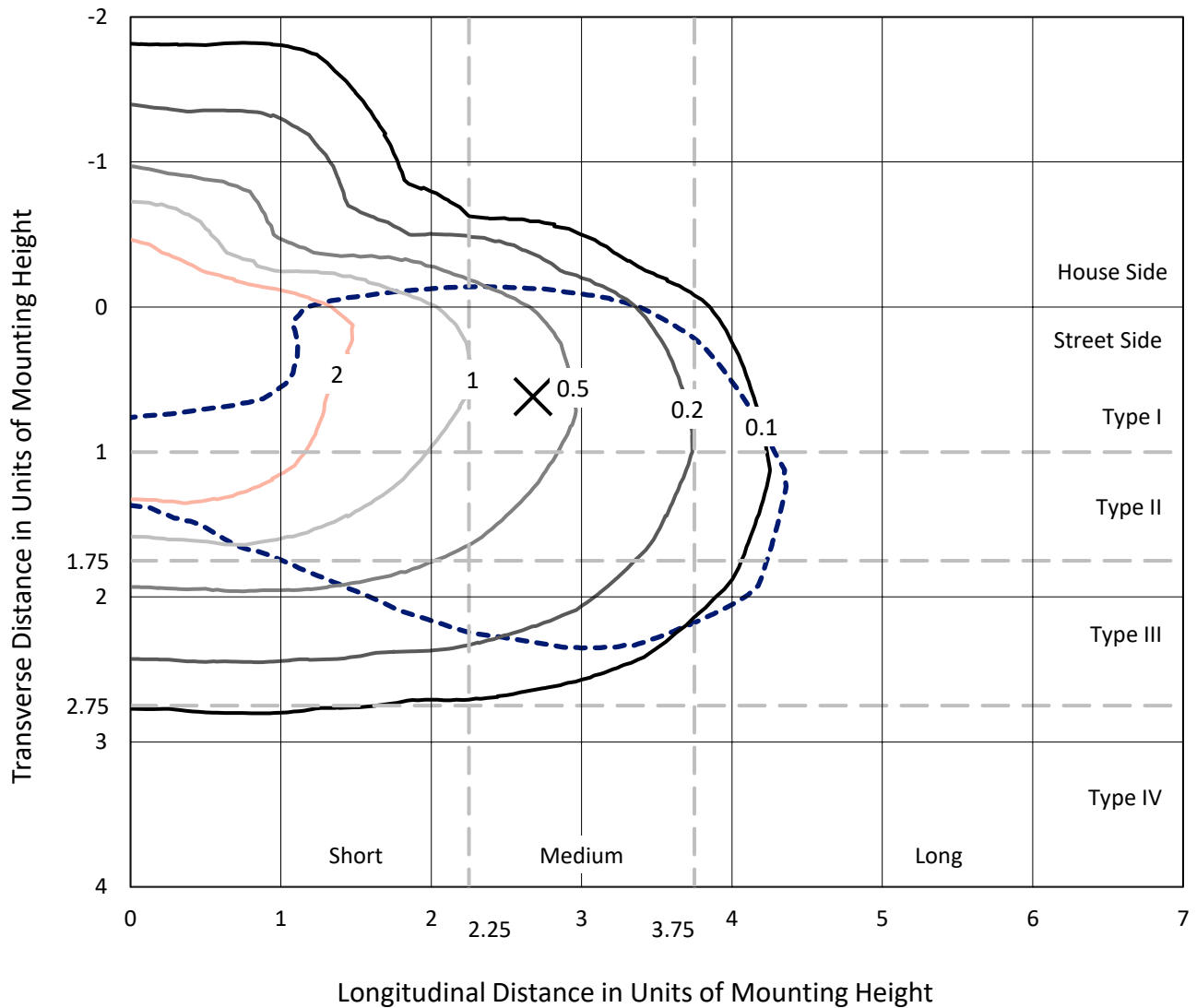
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

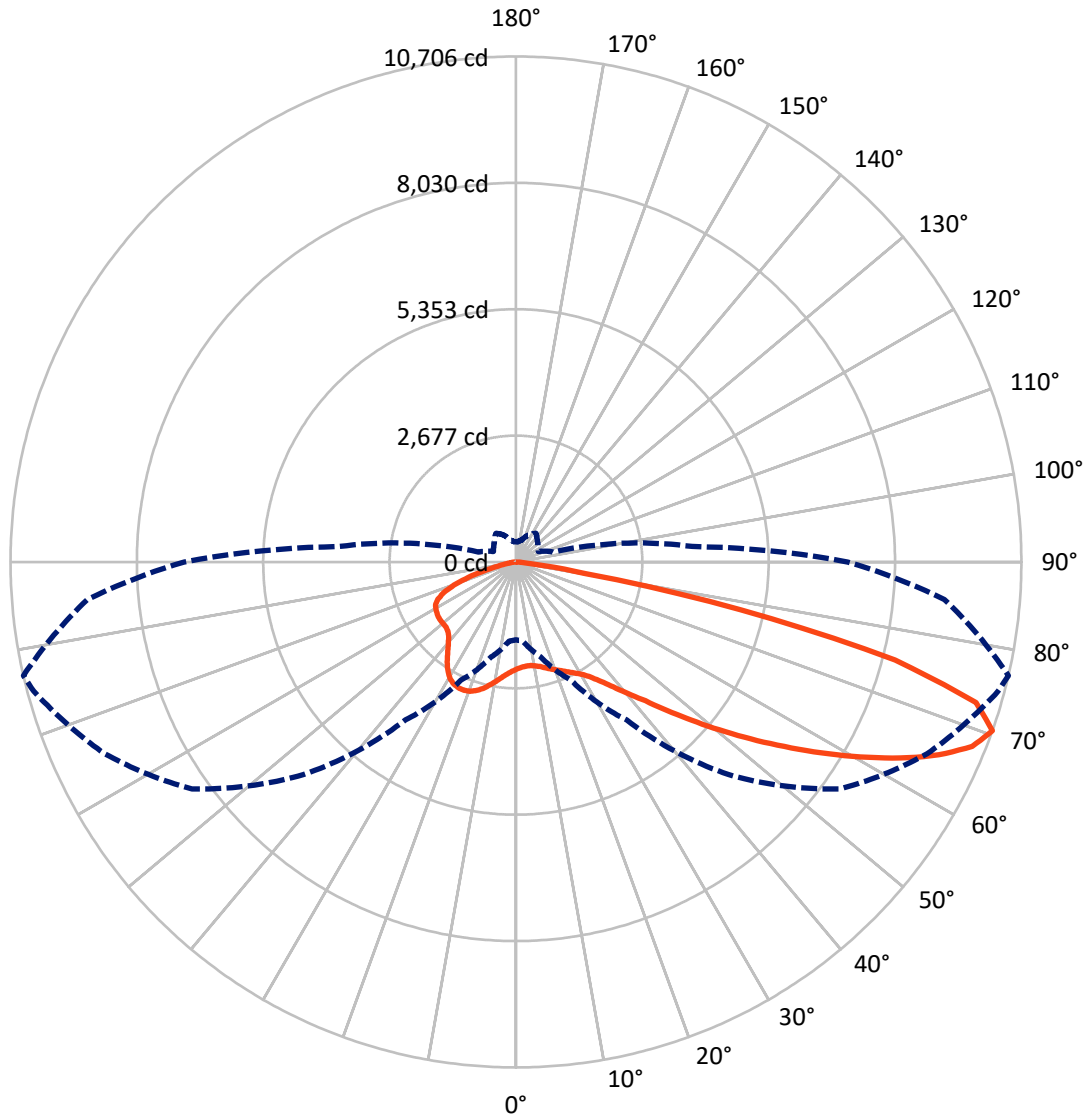
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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
House Side	Lumens	3562.2	0.0	3562.2
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	12704.8	0.0	12704.8
	% Fixture	78.1	0.0	78.1
Total	Lumens	16267.0	0.0	16267.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.4	1.3
10°-20°	624.7	3.8
20°-30°	1068.3	6.6
30°-40°	1717.9	10.6
40°-50°	2682.1	16.5
50°-60°	3582.6	22.0
60°-70°	3818.5	23.5
70°-80°	2350.6	14.5
80°-90°	206.0	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°	16267.0	100.0
0°-180°	16267.0	100.0



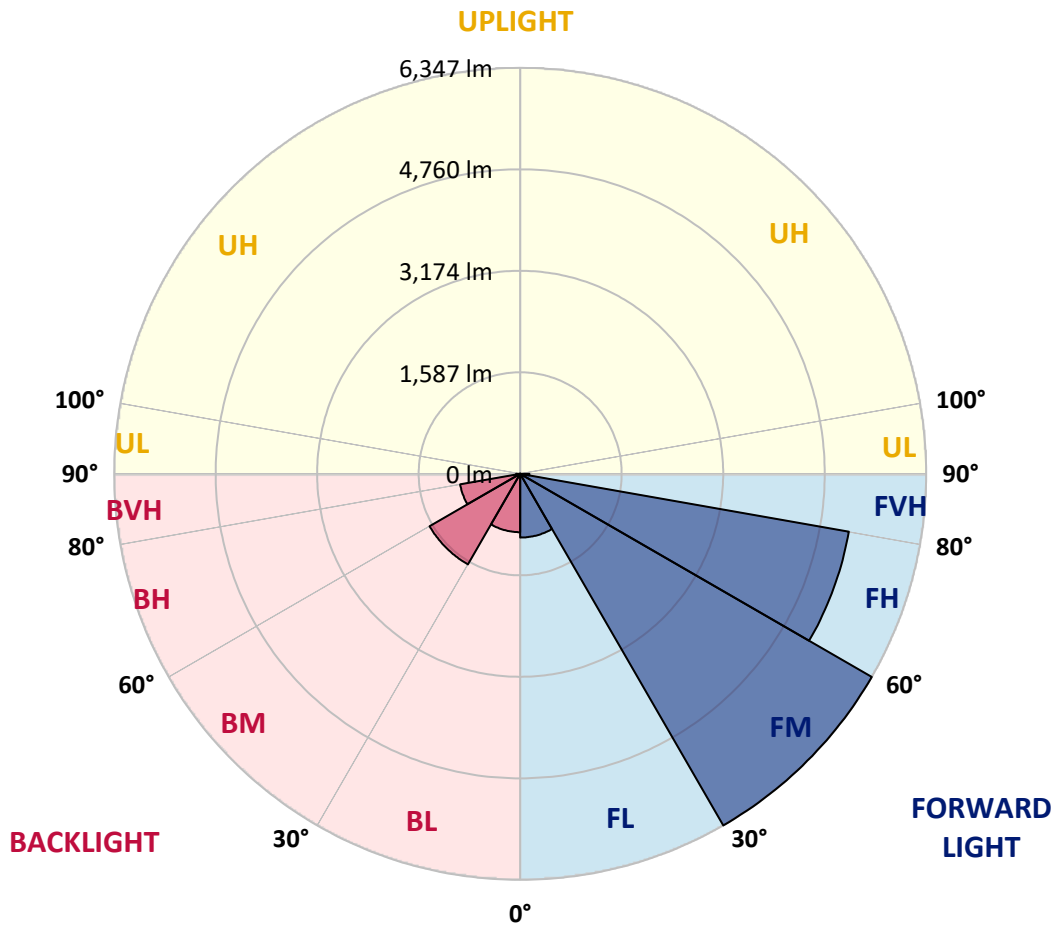
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	996.6	6.1			
FM (30°-60°)	6347.0	39.0			
FH (60°-80°)	5217.1	32.1			G3/7500
FVH (80°-90°)	144.0	0.9			G2/225
BL (0°-30°)	912.8	5.6	B2/1000		
BM (30°-60°)	1635.5	10.1	B2/2500		
BH (60°-80°)	952.0	5.9	B2/1000		G2/1000
BVH (80°-90°)	61.9	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-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2269.4	2269.4	2269.4	2269.4	2269.4	2269.4	2269.4	2269.4	2269.4	2269.4
2.5°	2091.9	2091.1	2101.9	2105.3	2125.3	2139.4	2166.1	2194.4	2231.1	2235.2
5°	1971.1	1971.1	1983.6	1997.0	2022.8	2051.1	2091.9	2141.1	2204.4	2214.4
7.5°	1868.7	1875.3	1886.2	1912.0	1942.0	1982.8	2045.3	2115.3	2198.6	2214.4
10°	1786.2	1793.7	1807.0	1827.8	1872.8	1929.5	2011.1	2101.1	2212.7	2237.7
12.5°	1760.4	1767.9	1775.4	1791.2	1832.8	1899.5	1997.0	2107.8	2246.9	2271.9
15°	1820.3	1829.5	1823.7	1819.5	1841.2	1902.0	2003.6	2131.9	2289.4	2325.2
17.5°	1958.6	1962.0	1948.6	1909.5	1906.2	1938.6	2035.3	2165.3	2342.7	2381.9
20°	2181.9	2176.1	2148.6	2071.1	2027.0	2020.3	2089.4	2215.2	2397.7	2439.3
22.5°	2485.2	2478.5	2423.5	2301.1	2202.7	2137.8	2167.8	2280.2	2459.3	2506.0
25°	2863.4	2854.2	2773.4	2606.8	2454.3	2293.6	2274.4	2366.0	2535.2	2578.5
27.5°	3305.0	3297.5	3210.0	2990.0	2770.1	2506.8	2406.9	2466.8	2614.3	2663.5
30°	3779.8	3801.5	3646.5	3409.9	3131.7	2785.1	2585.1	2591.0	2716.8	2760.9
32.5°	4338.0	4375.5	4188.9	3889.0	3509.1	3087.5	2810.1	2764.3	2865.9	2902.6
35°	4891.2	4933.7	4778.7	4447.1	4009.8	3444.1	3045.0	2963.4	3064.2	3104.2
37.5°	5369.4	5426.1	5346.1	5057.8	4545.5	3874.0	3351.6	3197.5	3308.3	3358.3
40°	5746.8	5833.4	5827.6	5647.7	5177.0	4395.5	3740.7	3486.6	3611.5	3665.7
42.5°	6053.4	6128.4	6193.3	6184.2	5835.9	4987.8	4198.0	3862.3	3957.3	4019.8
45°	6265.0	6345.0	6484.9	6635.7	6469.9	5621.8	4722.1	4308.0	4394.7	4488.8
47.5°	6454.1	6544.9	6726.5	6965.6	7008.1	6258.3	5296.1	4827.0	4906.2	5003.7
50°	6470.8	6549.1	6830.7	7169.8	7390.5	6869.8	5912.6	5409.4	5483.5	5587.7
52.5°	6068.4	6191.7	6683.2	7163.9	7566.3	7381.4	6524.9	6015.1	6098.4	6223.3
55°	4710.4	4891.2	6250.8	6940.6	7503.8	7712.1	7107.3	6659.1	6765.7	6896.5
57.5°	4057.3	4136.4	4962.0	6534.1	7218.9	7797.9	7598.8	7309.7	7481.3	7624.6
60°	3646.5	3712.3	4200.5	5901.8	6844.0	7662.1	7978.7	7916.2	8212.8	8383.6
62.5°	3206.6	3269.1	3713.2	4927.9	6364.1	7436.4	8218.6	8476.1	8962.6	9149.2
65°	2770.1	2823.4	3249.1	4140.6	5754.3	7210.6	8342.8	8960.1	9656.6	9849.9
67.5°	2283.6	2327.7	2730.1	3493.2	5012.8	6901.5	8404.4	9340.8	10260.6	10426.4
70°	1647.9	1682.1	2097.8	2762.6	4082.2	6370.0	8379.4	9610.8	10573.8	10706.3
72.5°	779.0	809.8	1298.0	1793.7	2883.4	5335.2	7873.7	9396.7	10255.6	10189.8
75°	415.7	442.4	745.6	983.9	1522.9	3657.4	6443.3	8094.5	8611.9	8292.0
77.5°	281.6	302.4	461.5	590.7	695.6	1736.2	4141.4	5604.3	5391.9	4863.7
80°	223.3	244.9	378.2	399.9	336.6	627.3	1711.2	2594.3	1863.7	1490.4
82.5°	171.6	195.8	318.2	289.9	183.3	257.4	498.2	820.6	477.4	363.2
85°	105.0	130.8	249.9	185.0	103.3	117.5	169.1	228.3	145.8	121.6
87.5°	53.3	75.0	126.6	67.5	46.7	27.5	45.0	45.0	38.3	33.3
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°
2269.4	0°	2269.4	2269.4	2269.4	2269.4	2269.4	2269.4	2269.4	2269.4	2269.4	2269.4
2257.7	2.5°	2277.7	2294.4	2322.7	2349.4	2370.2	2390.2	2410.2	2421.0	2424.4	2437.7
2270.2	5°	2304.4	2335.2	2390.2	2441.8	2474.3	2494.3	2508.5	2516.8	2518.5	2522.7
2304.4	7.5°	2353.5	2402.7	2479.3	2531.0	2555.2	2553.5	2547.7	2526.8	2518.5	2511.0
2354.4	10°	2422.7	2487.7	2581.8	2617.6	2602.6	2562.7	2511.0	2450.2	2421.9	2394.4
2422.7	12.5°	2508.5	2591.0	2683.5	2681.8	2607.6	2505.2	2385.2	2291.9	2232.7	2190.2
2506.8	15°	2612.6	2707.6	2778.4	2721.8	2559.3	2375.2	2199.4	2077.8	2024.5	1977.8
2591.8	17.5°	2720.1	2821.7	2854.2	2709.3	2437.7	2182.8	1983.6	1887.8	1835.3	1810.4
2683.5	20°	2825.1	2925.9	2899.2	2637.6	2252.7	1964.5	1787.0	1734.5	1723.7	1729.5
2772.6	22.5°	2935.9	3025.9	2908.4	2499.3	2017.0	1741.2	1643.7	1645.4	1669.6	1687.1
2865.9	25°	3049.2	3110.0	2884.2	2299.4	1763.7	1577.1	1552.9	1579.6	1627.1	1661.2
2970.9	27.5°	3158.3	3185.0	2831.7	2052.0	1546.3	1459.6	1463.8	1518.8	1590.4	1637.9
3098.3	30°	3281.6	3251.6	2730.9	1773.7	1395.5	1358.8	1393.8	1457.9	1529.6	1572.1
3259.1	32.5°	3420.8	3309.1	2571.0	1516.3	1288.8	1278.0	1335.5	1377.1	1408.8	1421.3
3472.4	35°	3594.0	3389.9	2366.0	1335.5	1193.0	1218.8	1273.8	1253.0	1240.5	1233.8
3759.0	37.5°	3819.0	3499.1	2126.1	1218.0	1115.5	1176.4	1198.8	1133.9	1084.7	1060.6
4106.4	40°	4089.7	3659.0	1895.3	1127.2	1066.4	1139.7	1100.5	1022.2	959.7	925.6
4497.1	42.5°	4390.5	3826.5	1701.2	1058.9	1038.9	1109.7	1028.1	934.8	833.9	823.1
4962.8	45°	4706.2	3998.9	1568.7	1006.4	1025.6	1083.9	986.4	835.6	764.0	808.1
5430.2	47.5°	5022.0	4157.2	1488.8	967.2	1018.9	1054.7	949.7	780.6	729.8	794.0
5930.9	50°	5373.6	4298.9	1452.9	938.9	1011.4	1043.1	894.8	766.5	694.0	736.5
6449.1	52.5°	5722.6	4408.8	1426.3	910.6	1000.6	1033.9	868.1	749.8	650.7	653.2
6970.6	55°	6070.9	4480.5	1397.1	873.1	976.4	1013.9	865.6	731.5	618.2	606.5
7522.2	57.5°	6442.4	4521.3	1361.3	831.4	934.8	963.1	863.1	717.3	608.2	589.0
8086.2	60°	6820.7	4581.3	1314.6	780.6	878.9	902.3	857.3	712.3	602.3	569.8
8617.7	62.5°	7159.8	4602.1	1258.8	732.3	807.3	842.3	844.8	708.1	586.5	530.7
9059.3	65°	7382.2	4512.1	1161.4	677.3	729.8	780.6	820.6	694.0	558.2	502.4
9277.5	67.5°	7373.0	4255.5	1008.9	606.5	654.8	712.3	785.6	669.8	524.0	467.4
9112.6	70°	7029.8	3749.0	815.6	524.0	572.3	639.0	740.6	634.0	483.2	429.1
8102.8	72.5°	6029.2	2934.2	592.3	427.4	476.5	563.2	682.3	590.7	441.5	394.9
5988.4	75°	4307.2	1857.0	401.6	328.2	370.7	477.4	609.8	539.9	403.2	396.6
2999.2	77.5°	2200.2	887.3	265.8	239.9	258.3	376.6	512.4	482.4	409.1	327.4
853.1	80°	715.6	327.4	167.5	163.3	171.6	250.8	396.6	395.7	309.9	222.4
206.6	82.5°	228.3	140.8	109.1	105.0	100.8	157.5	276.6	313.2	209.1	140.8
74.1	85°	90.8	84.1	64.1	59.2	42.5	74.1	145.0	208.3	155.8	101.6
19.2	87.5°	33.3	33.3	17.5	12.5	9.2	25.0	39.2	62.5	89.1	52.5
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>
2269.4
2445.2
2529.3
2512.7
2386.0
2180.3
1972.8
1817.8
1727.0
1691.2
1670.4
1649.6
1582.1
1428.0
1240.5
1066.4
928.1
833.9
831.4
823.9
768.1
670.7
614.8
591.5
572.3
530.7
502.4
469.9
434.1
392.4
374.1
291.6
196.6
140.0
104.1
51.7
0.0

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