

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: P945079

Luminaire Tested: **GALN-SB1A-850-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945079
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-SB1A-850-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 5000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4406 lumens
Efficiency: N/A
Efficacy: 142.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

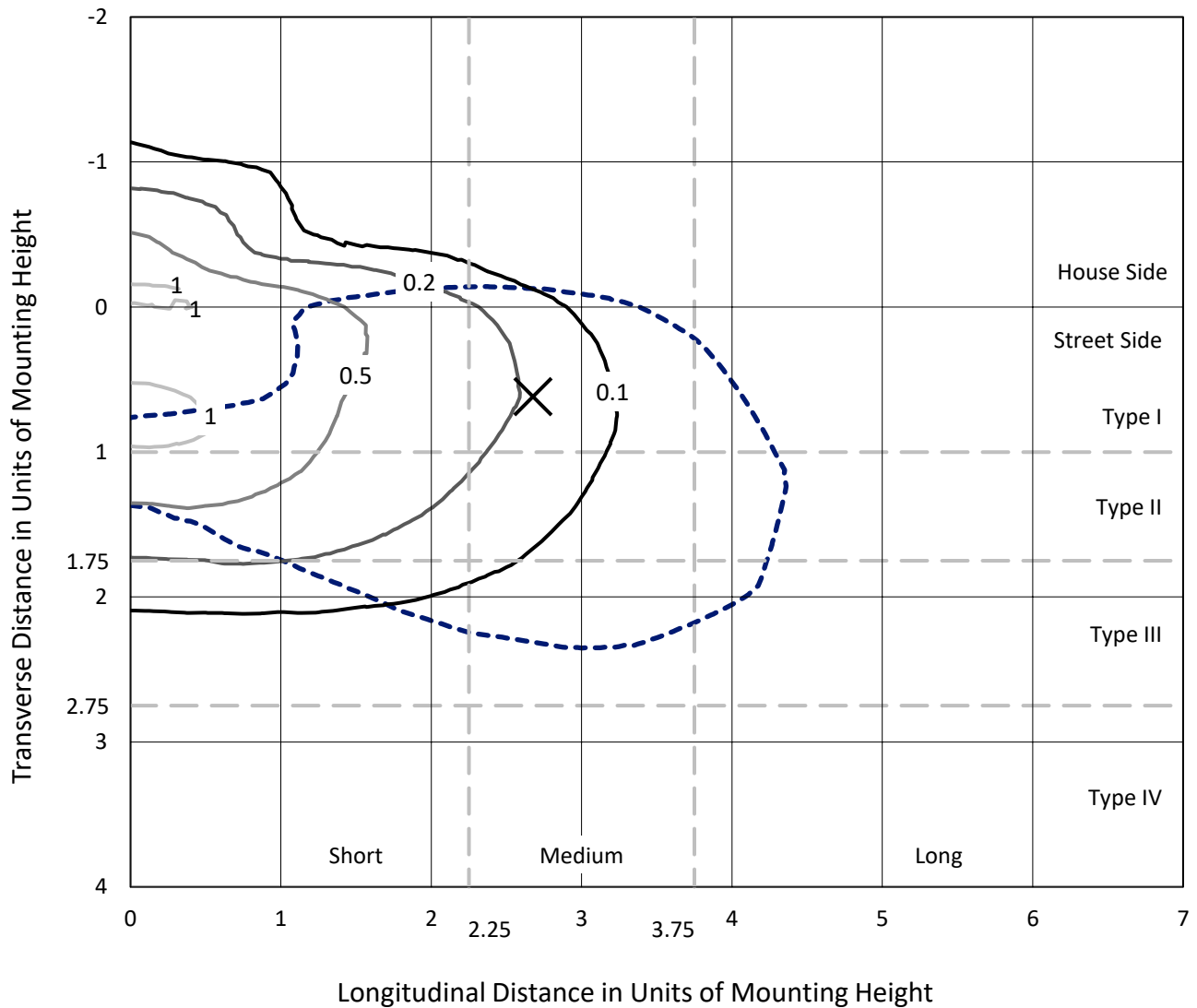
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

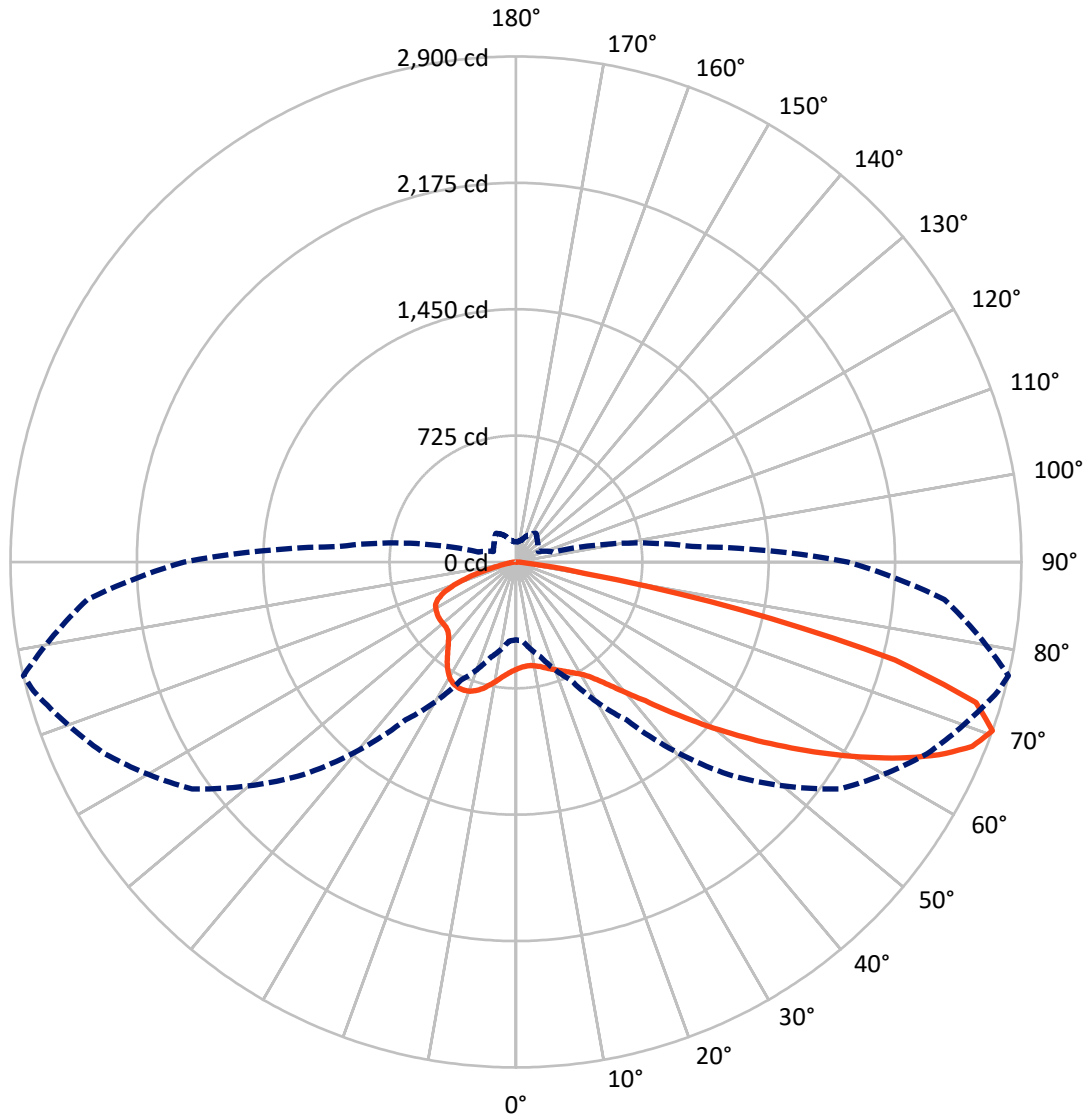
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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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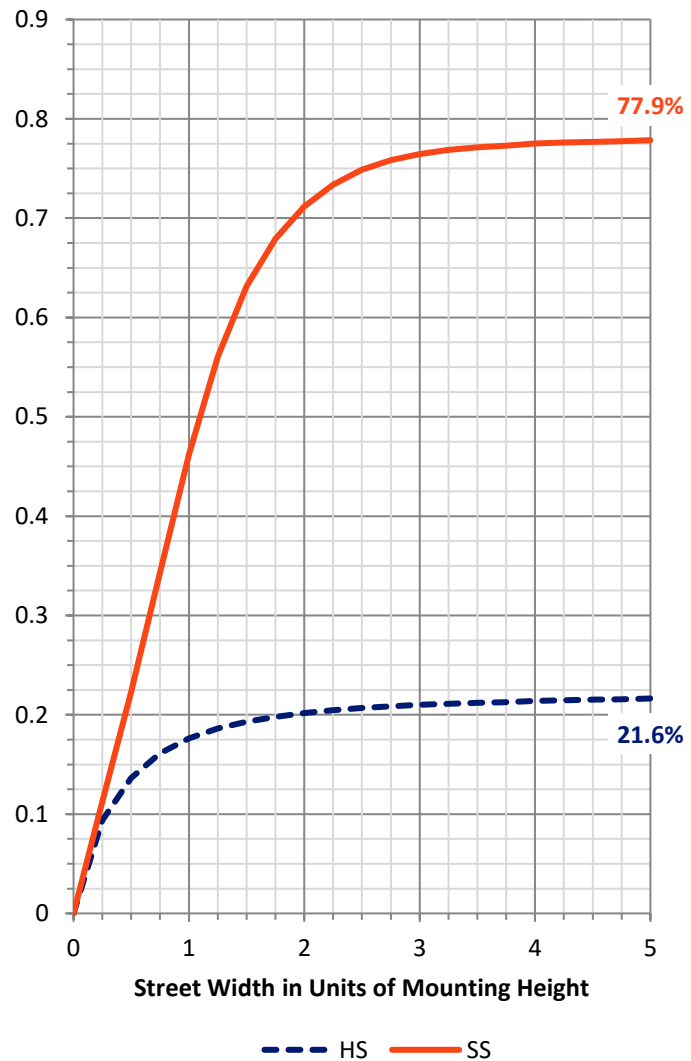
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	964.8	0.0	964.8
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	3441.2	0.0	3441.2
	% Fixture	78.1	0.0	78.1
Total	Lumens	4406.0	0.0	4406.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.6	1.3
10°-20°	169.2	3.8
20°-30°	289.3	6.6
30°-40°	465.3	10.6
40°-50°	726.5	16.5
50°-60°	970.4	22.0
60°-70°	1034.3	23.5
70°-80°	636.7	14.5
80°-90°	55.8	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°	4406.0	100.0
0°-180°	4406.0	100.0

Coefficient of Utilization



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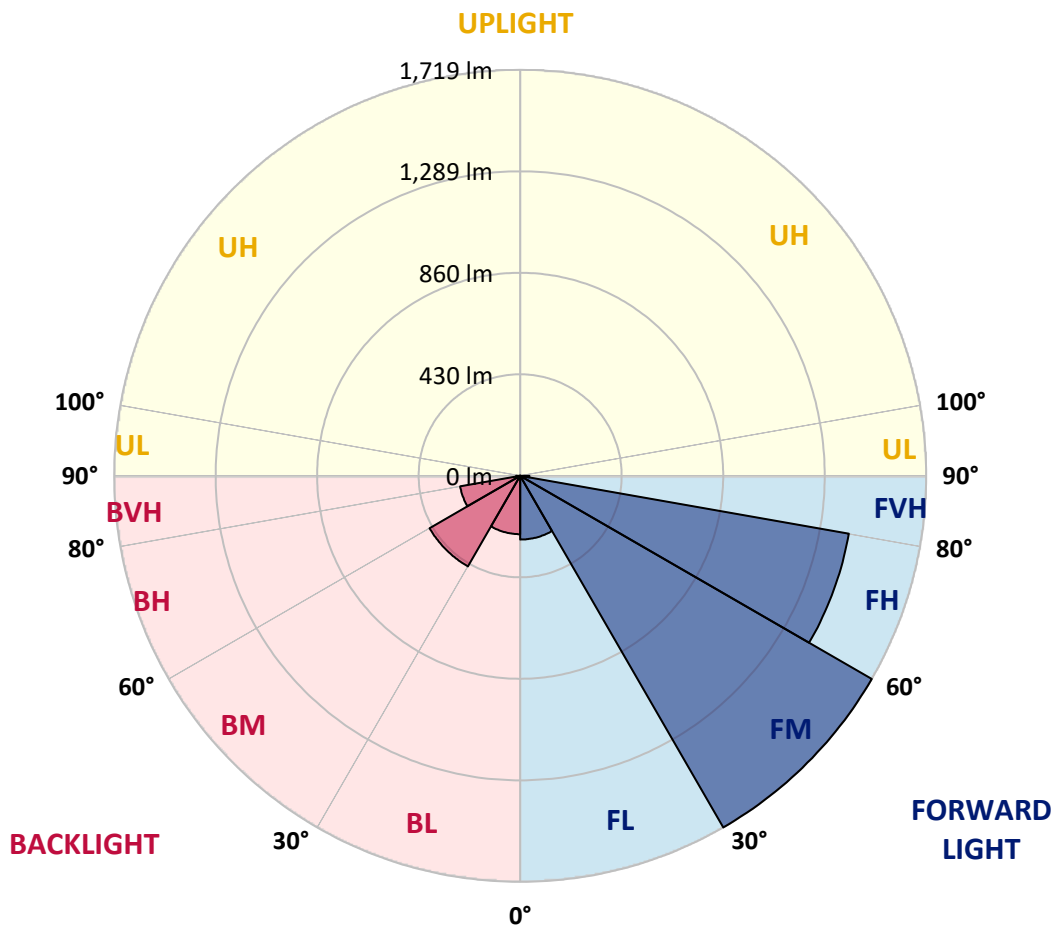
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	269.9	6.1			
FM (30°-60°)	1719.1	39.0			
FH (60°-80°)	1413.1	32.1			G1/1800
FVH (80°-90°)	39.0	0.9			G1/100
BL (0°-30°)	247.2	5.6	B1/500		
BM (30°-60°)	443.0	10.1	B1/1000		
BH (60°-80°)	257.9	5.9	B1/500		G1/500
BVH (80°-90°)	16.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	614.7	614.7	614.7	614.7	614.7	614.7	614.7	614.7	614.7	614.7
2.5°	566.6	566.4	569.3	570.2	575.6	579.5	586.7	594.4	604.3	605.4
5°	533.9	533.9	537.3	540.9	547.9	555.6	566.6	579.9	597.1	599.8
7.5°	506.1	507.9	510.9	517.9	526.0	537.1	554.0	572.9	595.5	599.8
10°	483.8	485.8	489.4	495.1	507.3	522.6	544.7	569.1	599.3	606.1
12.5°	476.8	478.8	480.9	485.2	496.4	514.5	540.9	570.9	608.6	615.4
15°	493.1	495.5	494.0	492.8	498.7	515.2	542.7	577.4	620.1	629.8
17.5°	530.5	531.4	527.8	517.2	516.3	525.1	551.3	586.5	634.5	645.1
20°	591.0	589.4	582.0	561.0	549.0	547.2	565.9	600.0	649.4	660.7
22.5°	673.1	671.3	656.4	623.3	596.6	579.0	587.1	617.6	666.1	678.8
25°	775.6	773.1	751.2	706.1	664.8	621.2	616.0	640.9	686.7	698.4
27.5°	895.2	893.1	869.4	809.9	750.3	679.0	651.9	668.2	708.1	721.4
30°	1023.8	1029.7	987.7	923.6	848.2	754.4	700.2	701.8	735.9	747.8
32.5°	1175.0	1185.1	1134.6	1053.3	950.4	836.3	761.1	748.7	776.2	786.2
35°	1324.8	1336.3	1294.3	1204.5	1086.1	932.8	824.8	802.6	829.9	840.8
37.5°	1454.3	1469.7	1448.0	1369.9	1231.2	1049.3	907.8	866.1	896.1	909.6
40°	1556.6	1580.0	1578.4	1529.7	1402.2	1190.5	1013.2	944.4	978.2	992.9
42.5°	1639.6	1659.9	1677.5	1675.0	1580.7	1351.0	1137.1	1046.1	1071.8	1088.8
45°	1696.9	1718.6	1756.5	1797.3	1752.4	1522.7	1279.0	1166.8	1190.3	1215.8
47.5°	1748.1	1772.7	1821.9	1886.7	1898.2	1695.1	1434.5	1307.4	1328.9	1355.3
50°	1752.6	1773.9	1850.1	1942.0	2001.8	1860.7	1601.5	1465.2	1485.2	1513.5
52.5°	1643.7	1677.0	1810.2	1940.4	2049.4	1999.3	1767.3	1629.2	1651.8	1685.6
55°	1275.8	1324.8	1693.1	1879.9	2032.5	2088.9	1925.0	1803.6	1832.5	1868.0
57.5°	1098.9	1120.4	1344.0	1769.8	1955.3	2112.1	2058.2	1979.9	2026.4	2065.2
60°	987.7	1005.5	1137.7	1598.5	1853.7	2075.3	2161.1	2144.1	2224.5	2270.7
62.5°	868.5	885.5	1005.7	1334.7	1723.8	2014.2	2226.1	2295.8	2427.6	2478.1
65°	750.3	764.7	880.0	1121.5	1558.6	1953.0	2259.7	2426.9	2615.5	2667.9
67.5°	618.5	630.5	739.5	946.2	1357.8	1869.3	2276.4	2530.0	2779.1	2824.0
70°	446.3	455.6	568.2	748.3	1105.7	1725.3	2269.6	2603.1	2864.0	2899.9
72.5°	211.0	219.3	351.6	485.8	781.0	1445.1	2132.6	2545.1	2777.8	2760.0
75°	112.6	119.8	202.0	266.5	412.5	990.6	1745.2	2192.4	2332.6	2245.9
77.5°	76.3	81.9	125.0	160.0	188.4	470.3	1121.7	1518.0	1460.4	1317.4
80°	60.5	66.3	102.4	108.3	91.2	169.9	463.5	702.7	504.8	403.7
82.5°	46.5	53.0	86.2	78.5	49.6	69.7	134.9	222.3	129.3	98.4
85°	28.4	35.4	67.7	50.1	28.0	31.8	45.8	61.8	39.5	32.9
87.5°	14.4	20.3	34.3	18.3	12.6	7.4	12.2	12.2	10.4	9.0
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°
614.7	0°	614.7	614.7	614.7	614.7	614.7	614.7	614.7	614.7	614.7	614.7
611.5	2.5°	616.9	621.4	629.1	636.3	642.0	647.4	652.8	655.7	656.6	660.3
614.9	5°	624.2	632.5	647.4	661.4	670.2	675.6	679.4	681.7	682.1	683.3
624.2	7.5°	637.5	650.8	671.5	685.5	692.1	691.6	690.0	684.4	682.1	680.1
637.7	10°	656.2	673.8	699.3	709.0	704.9	694.1	680.1	663.6	656.0	648.5
656.2	12.5°	679.4	701.8	726.8	726.4	706.3	678.5	646.0	620.8	604.7	593.2
679.0	15°	707.6	733.4	752.6	737.2	693.2	643.3	595.7	562.8	548.3	535.7
702.0	17.5°	736.8	764.3	773.1	733.8	660.3	591.2	537.3	511.3	497.1	490.3
726.8	20°	765.2	792.5	785.3	714.4	610.2	532.1	484.0	469.8	466.9	468.5
751.0	22.5°	795.2	819.6	787.8	677.0	546.3	471.6	445.2	445.7	452.2	456.9
776.2	25°	825.9	842.4	781.2	622.8	477.7	427.2	420.6	427.8	440.7	450.0
804.7	27.5°	855.4	862.7	767.0	555.8	418.8	395.3	396.5	411.4	430.8	443.6
839.2	30°	888.8	880.7	739.7	480.4	378.0	368.0	377.5	394.9	414.3	425.8
882.8	32.5°	926.5	896.3	696.4	410.7	349.1	346.2	361.7	373.0	381.6	385.0
940.5	35°	973.5	918.2	640.9	361.7	323.1	330.1	345.0	339.4	336.0	334.2
1018.1	37.5°	1034.4	947.7	575.9	329.9	302.1	318.6	324.7	307.1	293.8	287.3
1112.2	40°	1107.7	991.1	513.4	305.3	288.8	308.7	298.1	276.9	260.0	250.7
1218.1	42.5°	1189.2	1036.4	460.8	286.8	281.4	300.6	278.5	253.2	225.9	222.9
1344.2	45°	1274.7	1083.1	424.9	272.6	277.8	293.6	267.2	226.3	206.9	218.9
1470.8	47.5°	1360.2	1126.0	403.2	262.0	276.0	285.7	257.2	211.4	197.7	215.0
1606.4	50°	1455.5	1164.4	393.5	254.3	273.9	282.5	242.4	207.6	188.0	199.5
1746.8	52.5°	1550.0	1194.2	386.3	246.6	271.0	280.0	235.1	203.1	176.2	176.9
1888.0	55°	1644.3	1213.6	378.4	236.5	264.5	274.6	234.5	198.1	167.4	164.3
2037.4	57.5°	1745.0	1224.6	368.7	225.2	253.2	260.9	233.8	194.3	164.7	159.5
2190.2	60°	1847.4	1240.9	356.1	211.4	238.1	244.4	232.2	192.9	163.1	154.3
2334.1	62.5°	1939.3	1246.5	341.0	198.3	218.7	228.1	228.8	191.8	158.9	143.7
2453.7	65°	1999.5	1222.1	314.6	183.5	197.7	211.4	222.3	188.0	151.2	136.1
2512.9	67.5°	1997.0	1152.6	273.3	164.3	177.4	192.9	212.8	181.4	141.9	126.6
2468.2	70°	1904.1	1015.4	220.9	141.9	155.0	173.1	200.6	171.7	130.9	116.2
2194.7	72.5°	1633.0	794.7	160.4	115.8	129.1	152.5	184.8	160.0	119.6	107.0
1622.0	75°	1166.6	503.0	108.8	88.9	100.4	129.3	165.2	146.2	109.2	107.4
812.3	77.5°	595.9	240.3	72.0	65.0	70.0	102.0	138.8	130.7	110.8	88.7
231.1	80°	193.8	88.7	45.4	44.2	46.5	67.9	107.4	107.2	83.9	60.2
56.0	82.5°	61.8	38.1	29.6	28.4	27.3	42.6	74.9	84.8	56.6	38.1
20.1	85°	24.6	22.8	17.4	16.0	11.5	20.1	39.3	56.4	42.2	27.5
5.2	87.5°	9.0	9.0	4.7	3.4	2.5	6.8	10.6	16.9	24.1	14.2
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>
614.7
662.3
685.1
680.6
646.3
590.5
534.3
492.4
467.8
458.1
452.4
446.8
428.5
386.8
336.0
288.8
251.4
225.9
225.2
223.2
208.1
181.7
166.5
160.2
155.0
143.7
136.1
127.3
117.6
106.3
101.3
79.0
53.3
37.9
28.2
14.0
0.0

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