

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: P947682

Luminaire Tested: **GALN-SB2D-950-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947682
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2D-950-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11786 lumens
Efficiency: N/A
Efficacy: 79.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

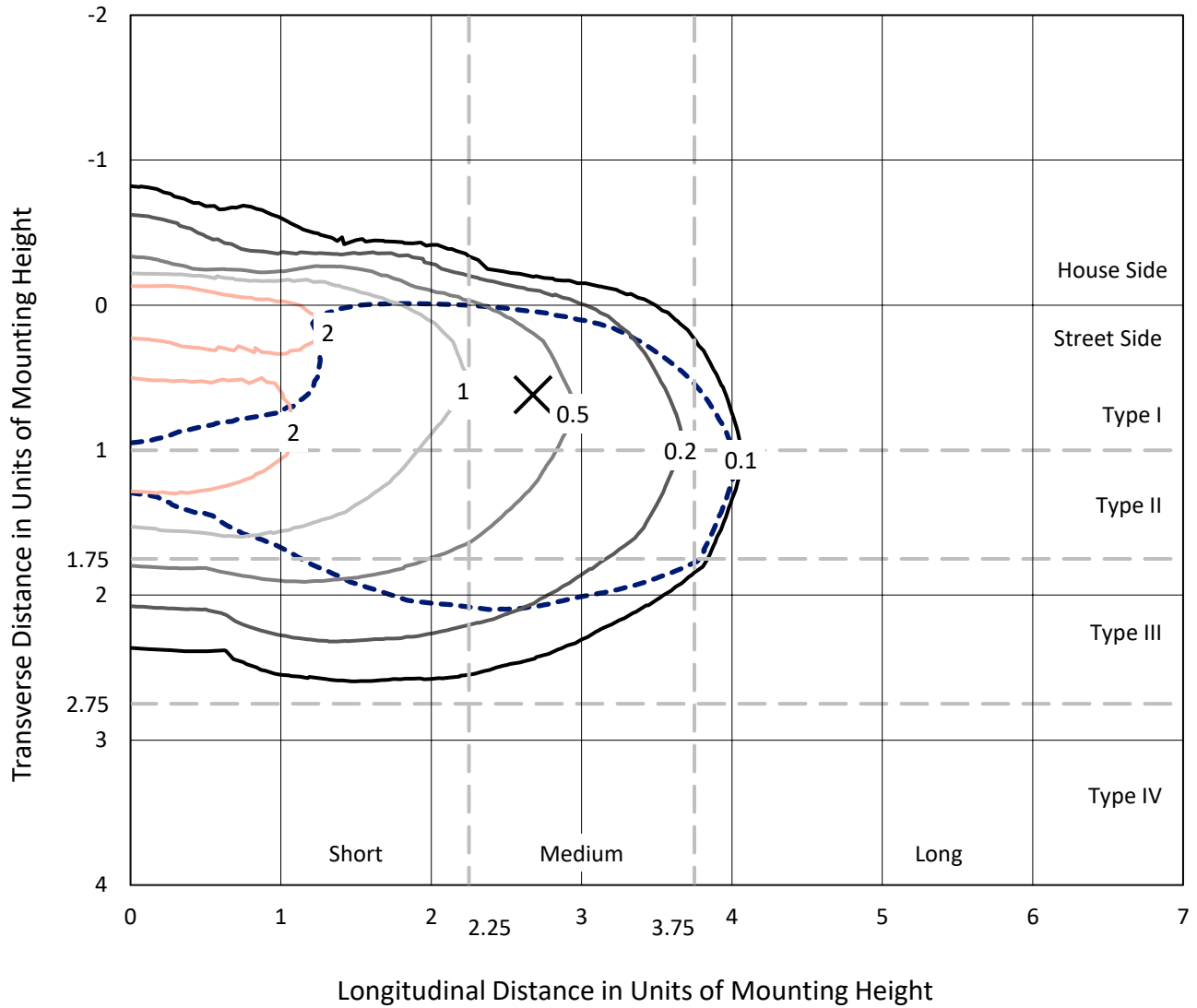
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

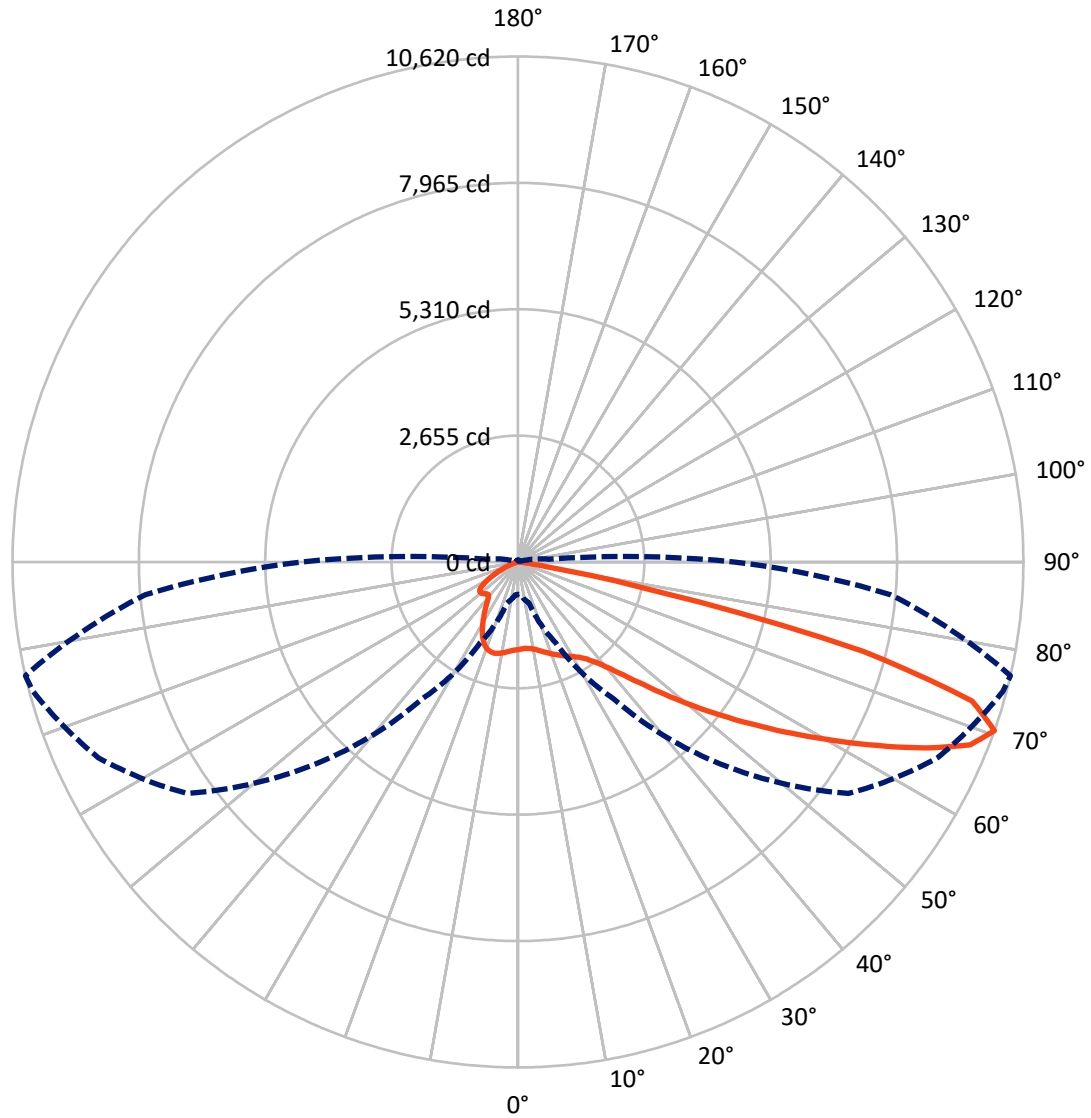
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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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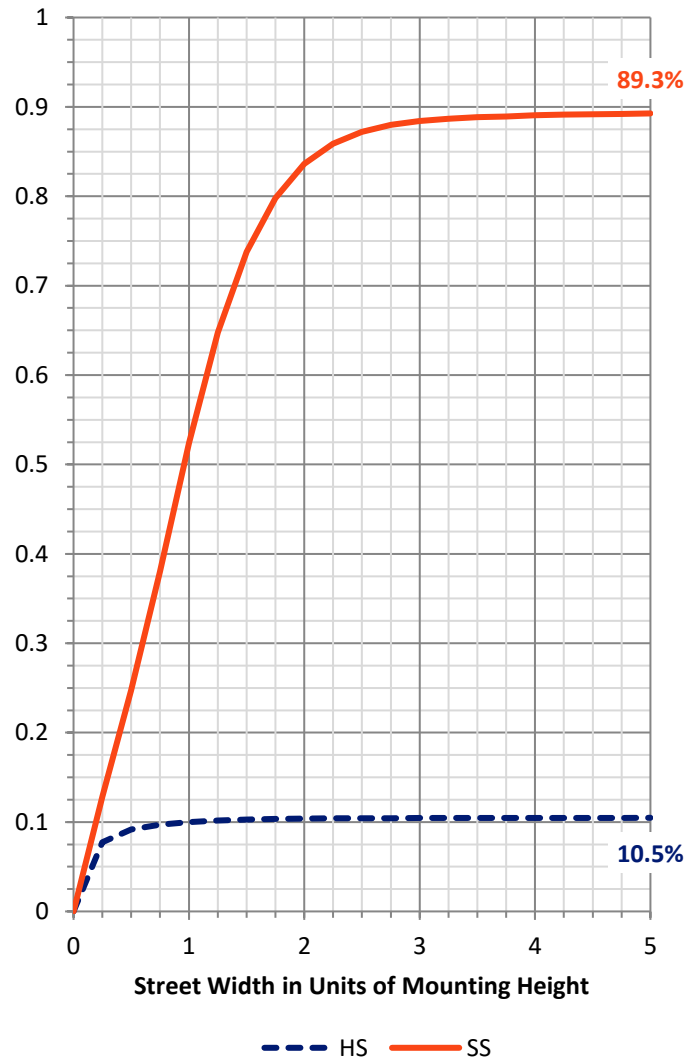
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1242.4	0.0	1242.4
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	10543.6	0.0	10543.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	11786.0	0.0	11786.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.4	1.3
10°-20°	376.1	3.2
20°-30°	581.8	4.9
30°-40°	1055.6	9.0
40°-50°	1992.6	16.9
50°-60°	2879.2	24.4
60°-70°	3064.8	26.0
70°-80°	1624.1	13.8
80°-90°	53.3	0.5
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°	11786.0	100.0
0°-180°	11786.0	100.0

Coefficient of Utilization



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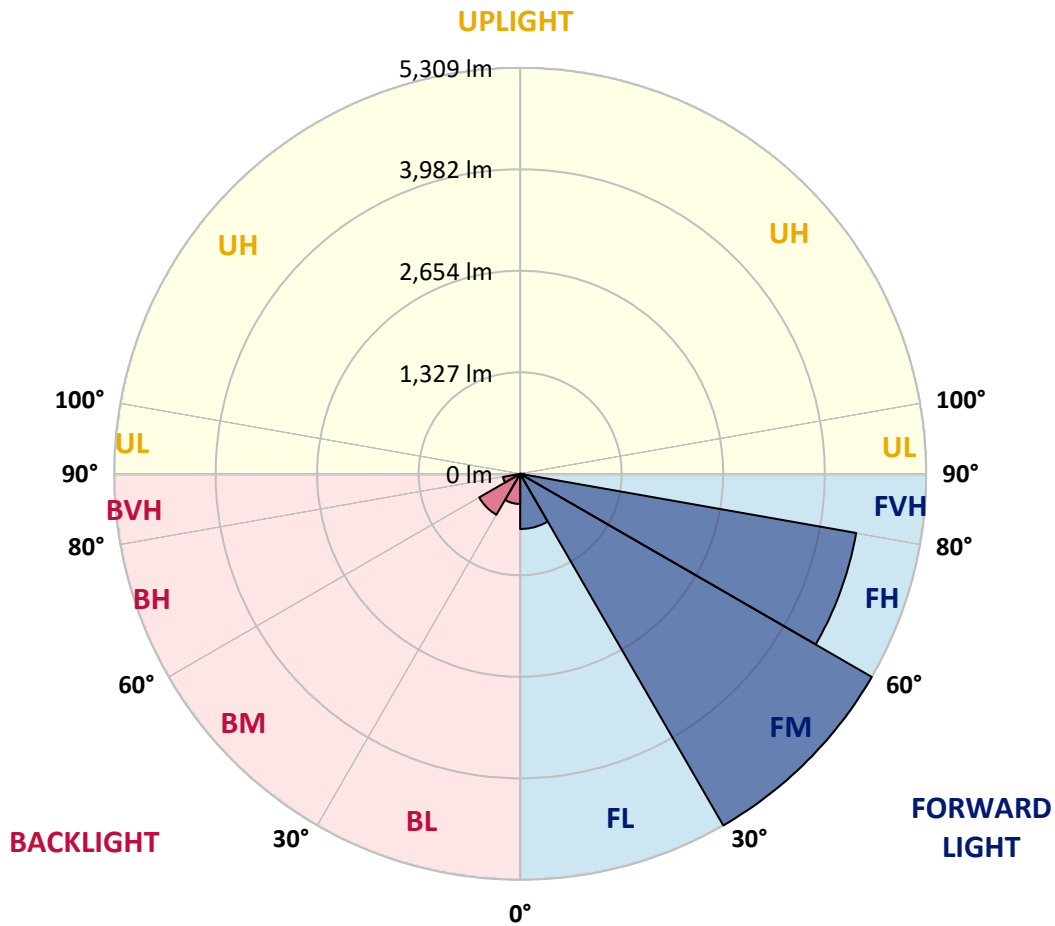
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	721.6	6.1			
FM (30°-60°)	5308.9	45.0			
FH (60°-80°)	4461.2	37.9			G2/5000
FVH (80°-90°)	51.9	0.4			G1/100
BL (0°-30°)	394.7	3.3	B1/500		
BM (30°-60°)	618.5	5.2	B1/1000		
BH (60°-80°)	227.8	1.9	B1/500		G1/500
BVH (80°-90°)	1.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1838.4	1838.4	1838.4	1838.4	1838.4	1838.4	1838.4	1838.4	1838.4	1838.4
2.5°	1726.0	1741.6	1739.4	1749.8	1753.6	1768.4	1783.3	1803.4	1825.8	1825.0
5°	1628.5	1644.1	1647.9	1662.0	1679.9	1702.9	1733.5	1773.6	1815.3	1822.0
7.5°	1513.1	1529.5	1539.2	1567.5	1600.2	1647.9	1697.7	1756.5	1825.8	1835.4
10°	1397.8	1412.7	1425.3	1465.5	1517.6	1588.3	1669.4	1754.3	1847.3	1861.5
12.5°	1326.3	1340.5	1354.6	1389.6	1454.3	1540.7	1650.8	1764.7	1883.1	1903.2
15°	1301.0	1313.7	1324.8	1356.1	1416.4	1514.6	1647.1	1786.3	1928.5	1955.3
17.5°	1304.7	1311.4	1318.9	1342.7	1401.5	1502.7	1653.8	1823.5	1982.1	2005.9
20°	1326.3	1330.1	1330.8	1347.2	1399.3	1501.2	1667.2	1859.2	2032.7	2064.7
22.5°	1353.9	1355.4	1353.9	1365.0	1413.4	1512.4	1685.1	1902.4	2089.2	2119.0
25°	1482.6	1454.3	1418.6	1397.0	1437.2	1534.0	1711.9	1960.5	2151.0	2180.0
27.5°	1882.3	1801.2	1673.2	1529.5	1486.4	1565.2	1749.1	2019.3	2213.5	2239.6
30°	2531.3	2424.9	2207.6	1883.8	1644.1	1630.7	1797.5	2078.1	2279.8	2308.1
32.5°	3181.9	3155.8	2905.0	2456.9	1999.2	1776.6	1877.9	2157.7	2367.6	2389.9
35°	3839.8	3787.0	3581.5	3138.7	2546.2	2073.6	2011.8	2261.9	2483.0	2508.3
37.5°	4343.7	4311.7	4184.4	3819.7	3195.2	2532.1	2241.1	2423.4	2650.4	2678.7
40°	4788.8	4773.9	4730.7	4490.3	3920.9	3132.0	2597.6	2673.5	2882.6	2916.1
42.5°	5138.6	5173.6	5198.1	5131.2	4668.9	3816.7	3076.9	3024.8	3206.4	3240.7
45°	5496.6	5508.5	5607.5	5704.3	5411.8	4532.7	3617.3	3436.4	3609.1	3651.5
47.5°	5726.6	5774.2	5948.4	6118.8	6036.2	5242.8	4197.8	3922.4	4075.7	4155.4
50°	5743.7	5833.8	6073.4	6370.4	6491.0	5918.6	4829.0	4476.2	4639.2	4727.0
52.5°	5458.6	5598.6	5970.0	6404.6	6736.6	6491.0	5481.7	5029.9	5239.1	5353.7
55°	4185.2	4368.3	5580.7	6218.6	6746.3	6924.9	6117.3	5606.8	5907.5	6037.0
57.5°	3646.3	3738.6	4387.6	5895.5	6566.9	7099.8	6691.9	6156.0	6634.6	6795.4
60°	3033.7	3155.1	3679.8	5367.1	6323.5	7116.9	7199.5	6864.6	7422.8	7603.7
62.5°	2061.7	2193.4	2715.2	4459.1	5990.8	7108.7	7615.6	7594.0	8298.9	8493.1
65°	1277.2	1359.8	1703.7	3641.1	5525.6	7117.7	8051.0	8479.7	9223.3	9420.5
67.5°	1009.3	1047.2	1226.6	2795.6	4724.0	6916.7	8485.7	9312.6	10093.4	10249.7
70°	678.1	701.1	892.4	1874.1	3514.6	5989.3	8477.5	9730.9	10541.4	10619.6
72.5°	357.3	375.1	521.7	867.8	2122.7	4257.4	7146.0	9230.7	10095.6	9978.0
75°	178.6	208.4	351.3	440.6	906.5	2374.3	4437.5	7277.7	7946.1	7490.6
77.5°	135.5	163.7	290.3	290.3	315.6	799.4	1879.3	3969.3	3661.2	3048.6
80°	86.3	111.6	253.8	219.6	131.7	203.2	489.7	1112.0	777.8	591.7
82.5°	50.6	72.9	211.4	145.1	73.7	75.2	138.4	236.7	201.7	157.0
85°	20.1	47.6	145.1	57.3	29.0	18.6	41.7	50.6	41.7	31.3
87.5°	0.0	11.2	25.3	0.0	2.2	1.5	3.0	3.7	3.7	3.0
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°
1838.4	0°	1838.4	1838.4	1838.4	1838.4	1838.4	1838.4	1838.4	1838.4	1838.4	1838.4
1839.9	2.5°	1846.6	1848.1	1852.5	1853.3	1842.9	1829.5	1824.3	1822.0	1813.1	1812.4
1851.8	5°	1868.9	1875.6	1868.9	1849.6	1803.4	1738.7	1689.5	1649.4	1612.9	1601.7
1892.7	7.5°	1913.6	1920.3	1900.2	1824.3	1708.2	1579.4	1463.3	1381.4	1307.7	1280.2
1942.6	10°	1977.6	1986.5	1923.3	1769.9	1564.5	1357.6	1161.1	1022.7	914.7	870.8
2010.3	12.5°	2058.0	2061.7	1935.9	1687.3	1377.7	1082.2	803.8	655.7	559.7	524.0
2092.2	15°	2146.5	2141.3	1937.4	1574.9	1123.1	765.1	524.7	430.9	392.2	380.3
2174.1	17.5°	2239.6	2218.0	1907.6	1412.7	844.0	523.2	389.3	366.9	360.2	357.3
2255.2	20°	2331.1	2282.7	1853.3	1200.5	605.9	390.8	353.5	346.8	343.1	341.6
2337.1	22.5°	2414.5	2331.9	1760.3	954.2	439.9	345.4	334.2	328.2	321.5	318.6
2416.7	25°	2495.6	2360.2	1629.3	724.2	352.1	323.0	314.1	302.9	294.0	290.3
2502.3	27.5°	2574.5	2378.0	1465.5	535.9	314.1	302.2	285.8	270.2	263.5	262.0
2593.9	30°	2658.6	2384.0	1279.4	399.7	291.0	276.1	252.3	234.5	230.7	231.5
2717.4	32.5°	2761.3	2392.9	1091.9	327.5	271.7	244.9	216.6	198.0	195.0	198.0
2897.5	35°	2884.1	2410.8	911.0	301.4	254.5	212.9	182.4	166.7	163.7	166.0
3128.3	37.5°	3050.9	2439.8	742.1	296.2	240.4	186.1	153.3	140.7	140.7	141.4
3411.1	40°	3272.7	2517.2	591.0	292.5	233.0	166.0	129.5	124.3	126.5	128.0
3771.3	42.5°	3542.8	2681.7	489.0	288.0	224.8	157.0	117.6	115.4	119.1	120.6
4203.0	45°	3845.8	2890.1	453.3	280.6	217.3	163.0	112.4	109.4	113.9	114.6
4686.8	47.5°	4159.1	3094.0	448.8	272.4	209.9	171.9	110.9	104.2	109.4	110.2
5203.4	50°	4476.2	3227.3	453.3	259.8	198.0	171.9	111.6	99.0	103.5	105.7
5739.2	52.5°	4795.5	3288.3	450.3	232.2	177.1	161.5	111.6	94.5	99.0	100.5
6318.3	55°	5105.1	3276.4	404.9	191.3	150.3	142.9	108.7	90.8	93.8	94.5
6865.4	57.5°	5350.0	3110.4	320.8	148.9	122.1	119.1	99.0	86.3	88.6	87.8
7367.0	60°	5478.0	2745.7	229.2	114.6	96.0	93.8	87.1	80.4	81.9	78.2
7792.0	62.5°	5479.5	2263.4	153.3	90.8	76.7	74.4	74.4	72.2	70.7	63.3
8121.0	65°	5362.6	1728.2	102.0	72.2	61.8	58.1	62.5	61.8	56.6	46.1
8221.5	67.5°	5097.7	1132.8	77.4	56.6	47.6	45.4	49.9	52.1	48.4	38.7
7855.3	70°	4552.8	659.4	64.0	43.9	35.7	33.5	40.2	44.7	40.2	31.3
6714.3	72.5°	3781.8	355.8	52.1	32.7	24.6	22.3	32.0	36.5	32.0	23.1
4308.0	75°	2453.9	190.5	40.2	21.6	12.7	14.1	23.8	26.8	22.3	14.9
1264.6	77.5°	823.9	84.1	25.3	10.4	6.0	6.0	14.1	16.4	10.4	5.2
230.0	80°	183.8	35.0	10.4	4.5	2.2	2.2	3.0	3.0	1.5	0.0
70.7	82.5°	60.3	14.1	4.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
17.9	85°	23.1	5.2	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.0	87.5°	8.9	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
1838.4
1813.8
1595.0
1269.0
852.2
512.8
380.3
356.5
340.1
317.8
288.8
260.5
231.5
197.2
165.2
140.7
128.0
120.6
115.4
110.9
106.4
100.5
94.5
87.8
77.4
61.0
44.7
38.0
29.8
22.3
13.4
4.5
0.0
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