

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: P947684

Luminaire Tested: **GALN-SB2D-950-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947684  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
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-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

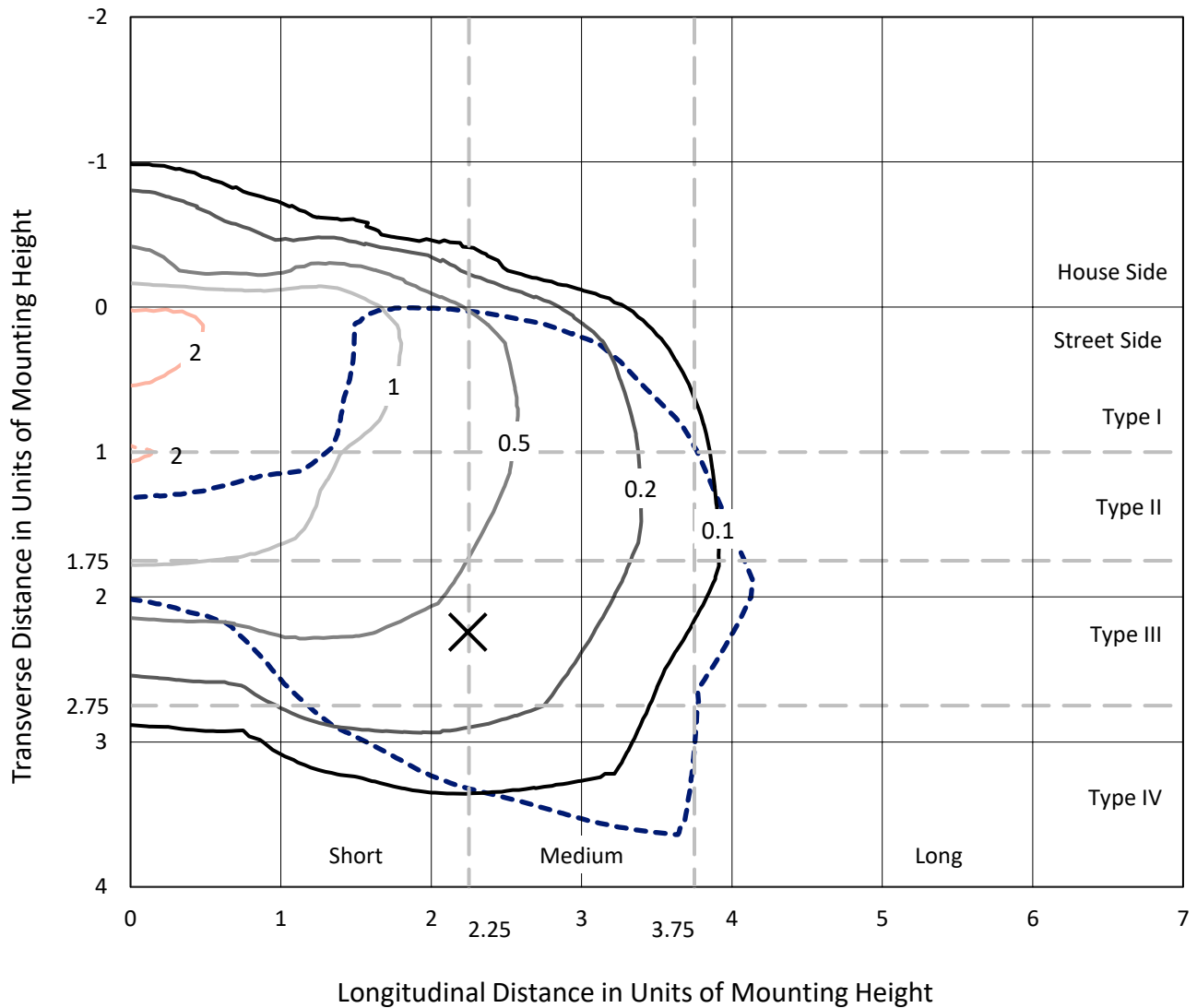
Lumens per Lamp: N/A  
Luminaire Lumens: 10905 lumens  
Efficiency: N/A  
Efficacy: 73.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

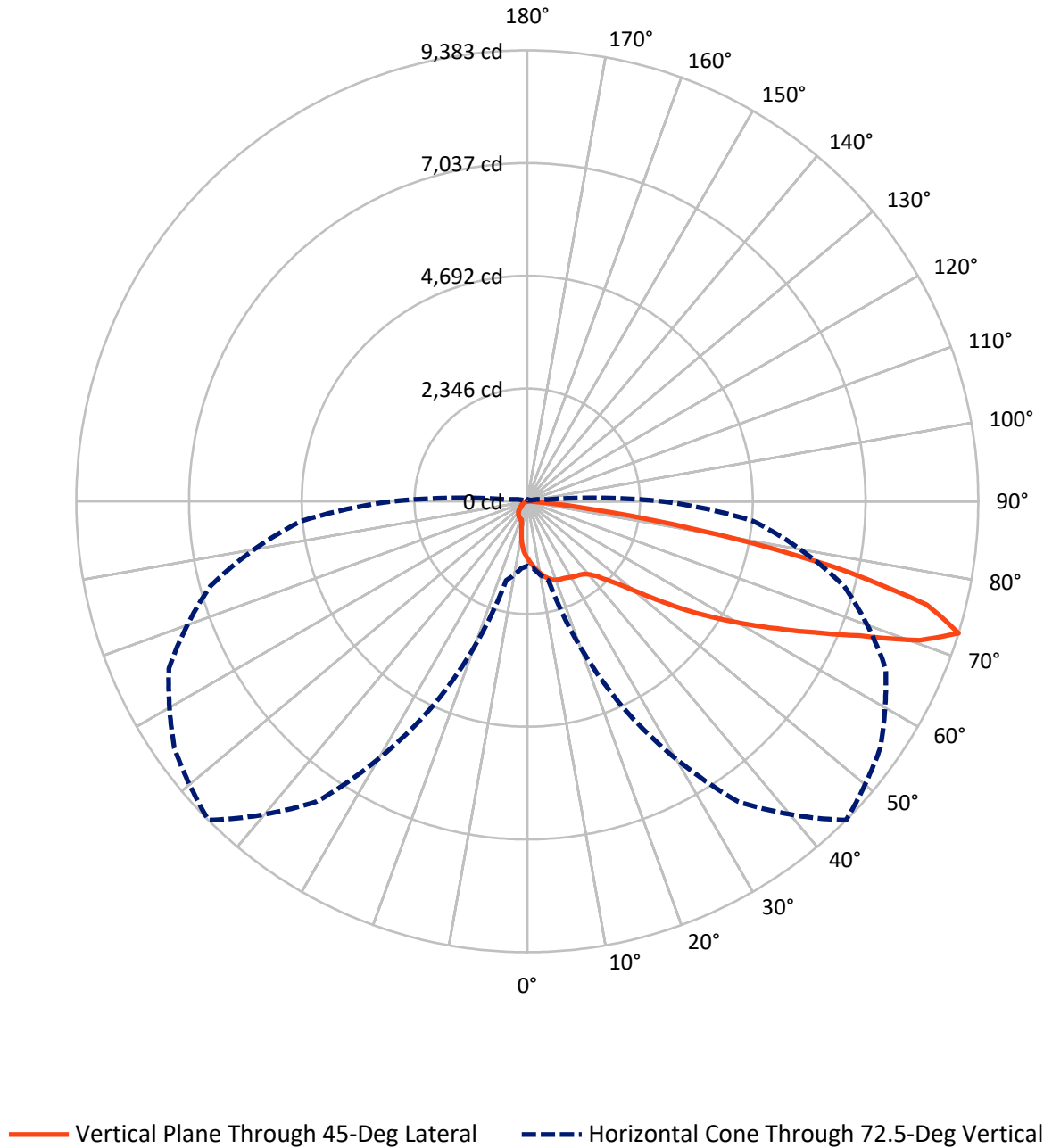
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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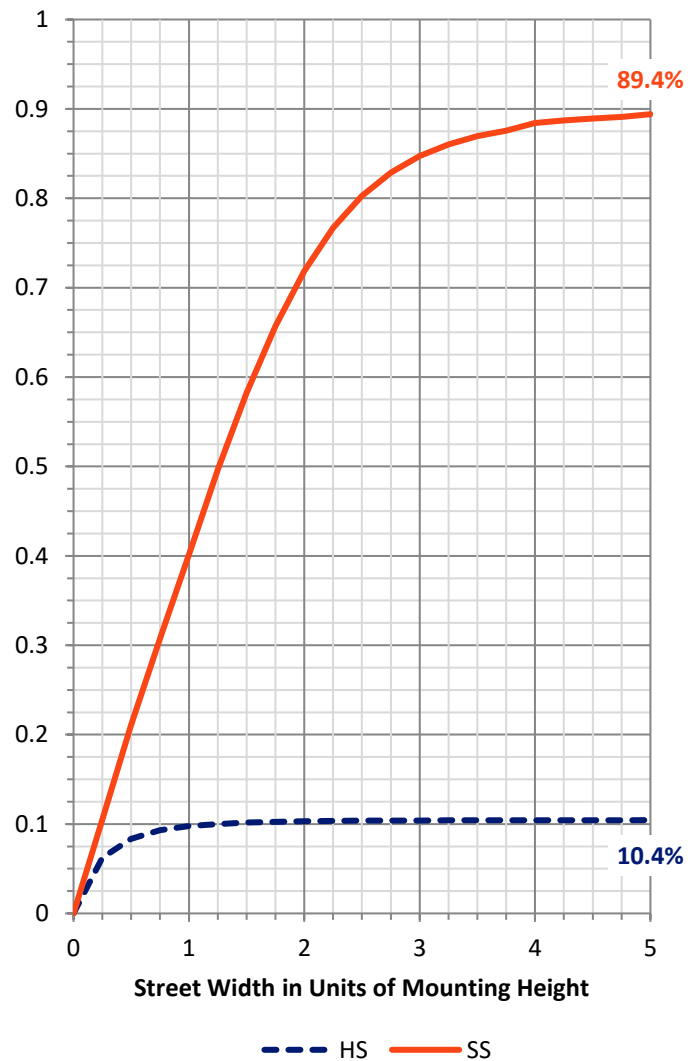
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1145.8	0.0	1145.8
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	9759.2	0.0	9759.2
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	10905.0	0.0	10905.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.6	1.0
10°-20°	329.0	3.0
20°-30°	540.2	5.0
30°-40°	766.2	7.0
40°-50°	1266.4	11.6
50°-60°	2274.9	20.9
60°-70°	3158.8	29.0
70°-80°	2291.3	21.0
80°-90°	165.7	1.5
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°	10905.0	100.0
0°-180°	10905.0	100.0

**Coefficient of Utilization**



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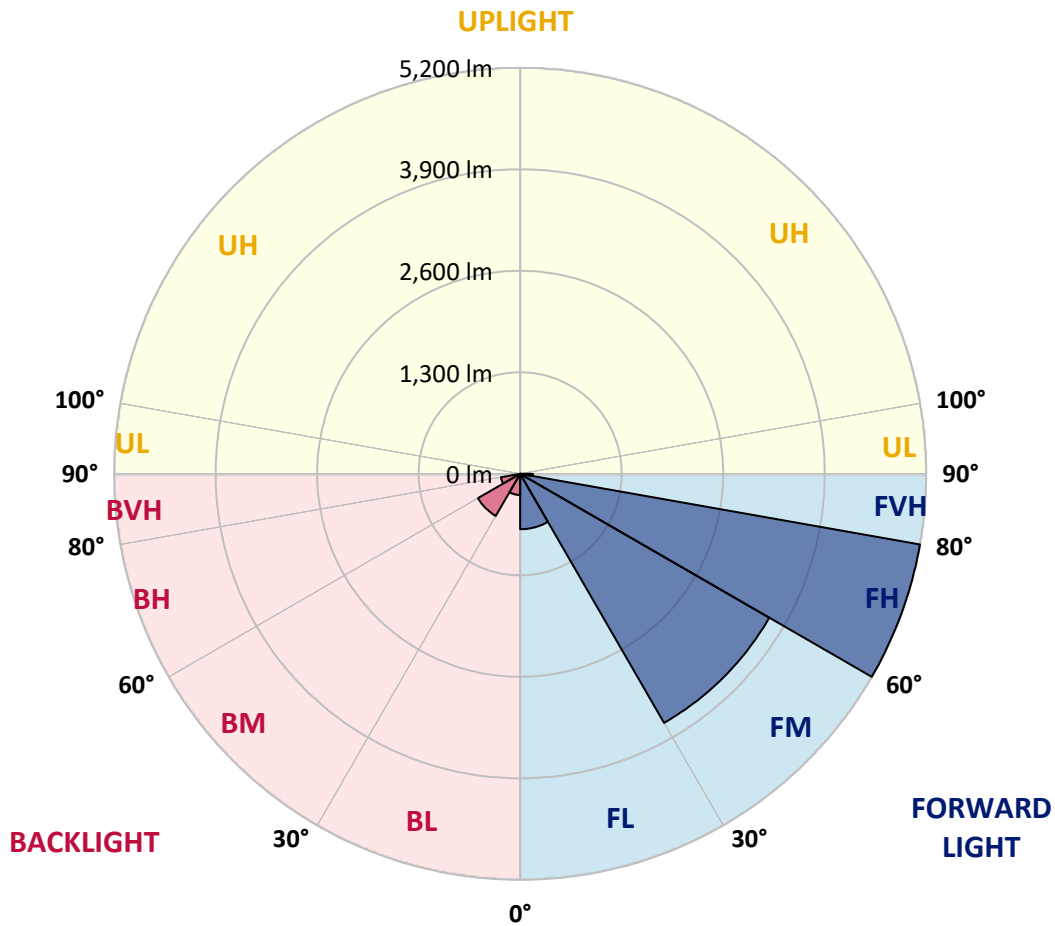
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	710.4	6.5			
FM (30°-60°)	3684.3	33.8			
FH (60°-80°)	5200.3	47.7			G3/7500
FVH (80°-90°)	164.3	1.5			G2/225
BL (0°-30°)	271.4	2.5	B1/500		
BM (30°-60°)	623.2	5.7	B1/1000		
BH (60°-80°)	249.9	2.3	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-G3**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1194.7	1194.7	1194.7	1194.7	1194.7	1194.7	1194.7	1194.7	1194.7	1194.7
2.5°	1304.8	1307.1	1305.6	1296.6	1281.8	1273.6	1269.1	1254.2	1244.5	1227.4
5°	1424.7	1433.6	1428.4	1410.5	1382.2	1362.1	1356.2	1325.7	1298.1	1266.1
7.5°	1551.9	1556.4	1546.7	1523.7	1485.7	1451.5	1446.3	1403.8	1359.9	1310.8
10°	1662.1	1667.3	1652.4	1618.9	1575.8	1533.3	1525.9	1479.0	1426.9	1366.6
12.5°	1754.4	1759.6	1740.3	1700.1	1652.4	1608.5	1601.1	1551.9	1494.6	1427.6
15°	1824.4	1834.1	1808.0	1764.8	1713.5	1669.6	1665.8	1617.5	1561.6	1487.2
17.5°	1865.3	1875.0	1850.4	1798.3	1754.4	1717.2	1712.7	1672.5	1620.4	1549.0
20°	1872.0	1880.9	1854.9	1809.5	1773.0	1743.2	1741.0	1712.0	1674.0	1605.5
22.5°	1851.9	1863.1	1839.3	1802.8	1777.5	1761.9	1758.9	1742.5	1720.9	1662.9
25°	1831.1	1840.0	1822.1	1790.1	1776.7	1775.3	1777.5	1774.5	1770.0	1720.9
27.5°	1829.6	1839.3	1819.2	1788.6	1781.2	1796.8	1799.1	1813.2	1816.9	1773.8
30°	1842.2	1848.9	1829.6	1797.6	1793.9	1829.6	1830.3	1855.6	1861.6	1818.4
32.5°	1869.8	1877.2	1857.9	1811.0	1805.8	1855.6	1857.9	1891.4	1901.0	1866.1
35°	1934.5	1943.5	1921.1	1848.2	1829.6	1880.2	1886.9	1926.4	1945.7	1916.7
37.5°	2096.1	2070.0	2039.5	1923.4	1883.9	1918.9	1930.1	1976.2	2010.5	1977.0
40°	2497.3	2415.4	2320.1	2051.4	1979.2	2001.5	2010.5	2056.6	2103.5	2070.8
42.5°	3099.4	3002.7	2849.3	2346.2	2122.9	2134.0	2140.7	2180.9	2247.2	2221.1
45°	3636.1	3601.1	3444.8	2849.3	2391.6	2336.5	2344.7	2365.5	2463.0	2453.3
47.5°	4048.5	4028.4	3907.8	3426.9	2845.6	2584.3	2607.4	2617.1	2757.8	2792.0
50°	4365.6	4358.1	4250.2	3940.5	3438.9	2949.8	2958.0	2937.2	3147.8	3232.7
52.5°	4664.8	4690.1	4610.4	4417.7	4072.3	3428.4	3426.9	3328.7	3613.0	3741.1
55°	4935.0	4943.9	4952.1	4904.5	4709.4	3973.3	3959.1	3798.4	4152.7	4285.2
57.5°	5188.8	5192.5	5265.5	5363.0	5372.6	4558.3	4532.3	4339.5	4742.2	4836.7
60°	5359.2	5376.4	5530.4	5801.4	5919.7	5162.0	5147.9	4951.4	5342.1	5386.0
62.5°	5113.6	5217.8	5606.4	6143.8	6436.3	5831.2	5824.5	5639.9	5973.3	5937.6
65°	4139.3	4315.7	4999.0	6375.3	6943.2	6578.5	6588.2	6391.6	6621.7	6505.5
67.5°	2895.5	3081.6	3889.9	6393.9	7509.6	7456.1	7511.9	7203.7	7310.2	7049.6
70°	2002.3	2098.3	2624.5	5993.4	7951.0	8664.9	8663.4	8201.1	7995.0	7297.5
72.5°	1346.5	1396.4	1704.5	4754.8	7626.5	9383.2	9340.0	8963.3	8225.7	6824.9
75°	567.9	604.4	789.0	2672.2	6033.6	8584.5	8467.6	7921.3	7308.7	5374.1
77.5°	180.1	195.8	311.1	956.5	3323.5	6452.7	6329.1	4946.9	4898.5	2696.0
80°	85.6	99.7	174.9	384.1	1307.8	3509.6	3492.4	2244.2	2107.2	728.0
82.5°	37.2	43.9	96.8	205.4	585.1	1252.0	1277.3	763.7	631.9	276.2
85°	11.9	15.6	44.7	94.5	247.1	311.1	307.4	181.6	254.6	150.4
87.5°	0.0	0.0	14.9	21.6	25.3	17.9	20.1	15.6	70.7	41.7
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°
1194.7	0°	1194.7	1194.7	1194.7	1194.7	1194.7	1194.7	1194.7	1194.7	1194.7	1194.7
1209.6	2.5°	1200.6	1188.7	1167.9	1148.5	1131.4	1114.3	1103.9	1089.0	1087.5	1087.5
1228.9	5°	1208.8	1189.5	1152.2	1112.8	1067.4	1024.2	981.0	939.4	926.0	916.3
1260.2	7.5°	1232.6	1202.1	1143.3	1068.1	981.8	887.3	821.0	749.6	722.0	707.1
1301.9	10°	1266.9	1225.2	1135.9	1004.1	864.2	735.4	640.9	563.5	533.7	521.0
1347.3	12.5°	1304.8	1253.5	1122.5	924.5	735.4	581.3	489.0	453.3	448.8	448.8
1401.6	15°	1350.2	1287.7	1099.4	830.7	600.7	460.0	427.3	428.7	433.2	436.2
1454.4	17.5°	1397.1	1324.2	1062.9	725.7	481.6	413.9	414.6	416.8	420.6	423.5
1511.8	20°	1447.7	1360.7	1014.5	614.1	413.1	400.5	402.7	404.9	407.9	409.4
1565.3	22.5°	1502.1	1394.9	957.2	504.7	390.0	389.3	390.0	392.3	396.0	396.0
1627.9	25°	1560.1	1432.9	891.7	425.0	378.1	378.1	379.6	381.1	384.1	384.1
1688.2	27.5°	1619.7	1467.8	822.5	383.3	367.7	367.0	367.0	369.2	370.7	371.4
1747.7	30°	1685.2	1508.8	753.3	374.4	359.5	355.8	353.6	355.1	356.5	357.3
1810.2	32.5°	1752.2	1548.2	691.5	378.1	351.3	344.6	337.2	335.7	335.7	338.7
1875.0	35°	1826.6	1591.4	643.9	390.8	346.9	328.3	316.3	309.6	310.4	314.9
1952.4	37.5°	1915.9	1643.5	608.9	401.9	343.9	309.6	290.3	282.1	276.9	282.1
2058.8	40°	2032.8	1720.2	583.6	410.9	340.2	288.1	262.0	248.6	238.9	241.9
2224.1	42.5°	2204.7	1840.8	573.9	411.6	332.0	262.8	233.0	215.1	201.0	201.7
2472.7	45°	2445.9	2031.3	623.8	401.9	314.1	235.2	202.5	178.6	169.7	167.5
2844.1	47.5°	2776.4	2308.9	739.1	381.8	288.1	208.4	172.7	152.6	145.9	142.2
3331.7	50°	3219.3	2665.5	867.2	359.5	262.0	183.1	148.1	135.5	131.0	127.3
3910.0	52.5°	3732.9	3027.2	972.1	337.2	236.0	160.8	132.5	125.0	121.3	118.4
4468.3	55°	4204.0	3276.6	966.2	313.4	210.6	142.9	121.3	116.9	112.4	109.4
4949.1	57.5°	4497.3	3311.6	796.4	287.3	181.6	128.8	110.9	107.9	102.7	99.0
5365.2	60°	4632.0	3112.1	558.3	253.1	152.6	115.4	99.7	98.3	91.6	86.3
5759.0	62.5°	4656.6	2741.4	372.2	210.6	127.3	102.7	88.6	86.3	77.4	68.5
6079.0	65°	4556.9	2211.4	257.5	164.5	108.7	89.3	75.9	71.5	61.8	52.8
6154.9	67.5°	4241.3	1552.7	179.4	118.4	92.3	70.7	60.3	58.8	51.4	43.9
5767.9	70°	3662.9	885.0	119.8	88.6	72.9	48.4	47.6	49.1	41.7	35.7
4712.4	72.5°	2808.4	404.9	74.4	64.8	49.9	32.8	38.0	38.7	32.0	26.8
2940.1	75°	1653.2	173.4	46.9	41.7	25.3	21.6	27.5	28.3	21.6	17.1
1074.8	77.5°	562.7	65.5	29.8	24.6	12.7	11.9	17.9	17.9	11.9	6.7
215.9	80°	128.0	24.6	14.9	9.7	6.0	5.2	6.0	5.2	3.0	0.7
66.2	82.5°	36.5	9.7	6.0	3.7	2.2	2.2	0.7	0.0	0.0	0.0
23.1	85°	10.4	4.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
8.2	87.5°	4.5	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>
1194.7
1091.2
920.7
709.4
521.0
448.8
436.2
423.5
410.1
397.5
384.8
372.2
358.8
340.9
317.1
280.6
240.4
198.7
164.5
139.9
126.5
117.6
107.9
98.3
84.9
64.0
49.9
41.7
32.8
23.8
14.9
5.2
0.0
0.0
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