

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: P941078

Luminaire Tested: **GALN-SB4B-940-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941078  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4B-940-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

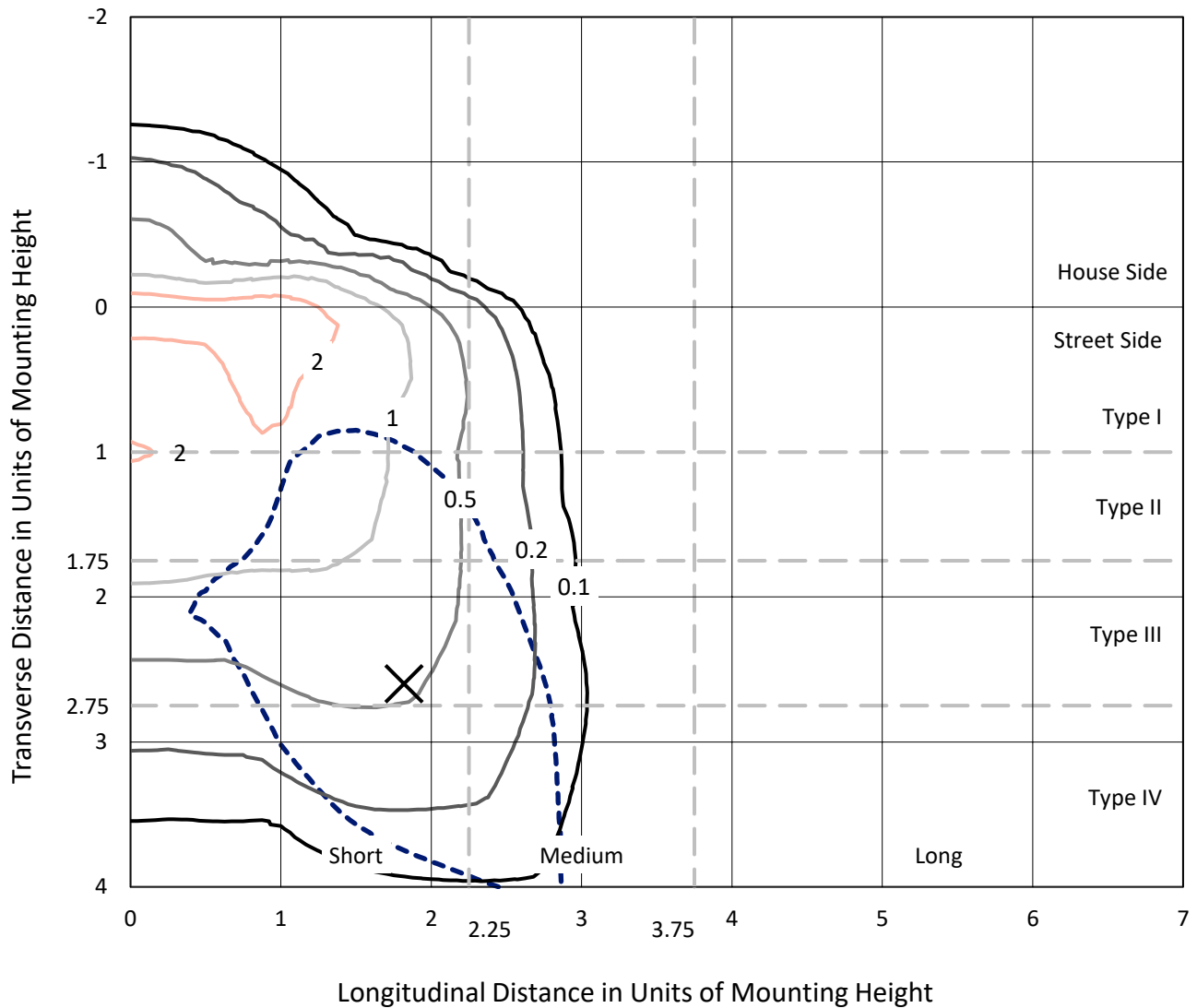
Lumens per Lamp: N/A  
Luminaire Lumens: 12382 lumens  
Efficiency: N/A  
Efficacy: 84.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

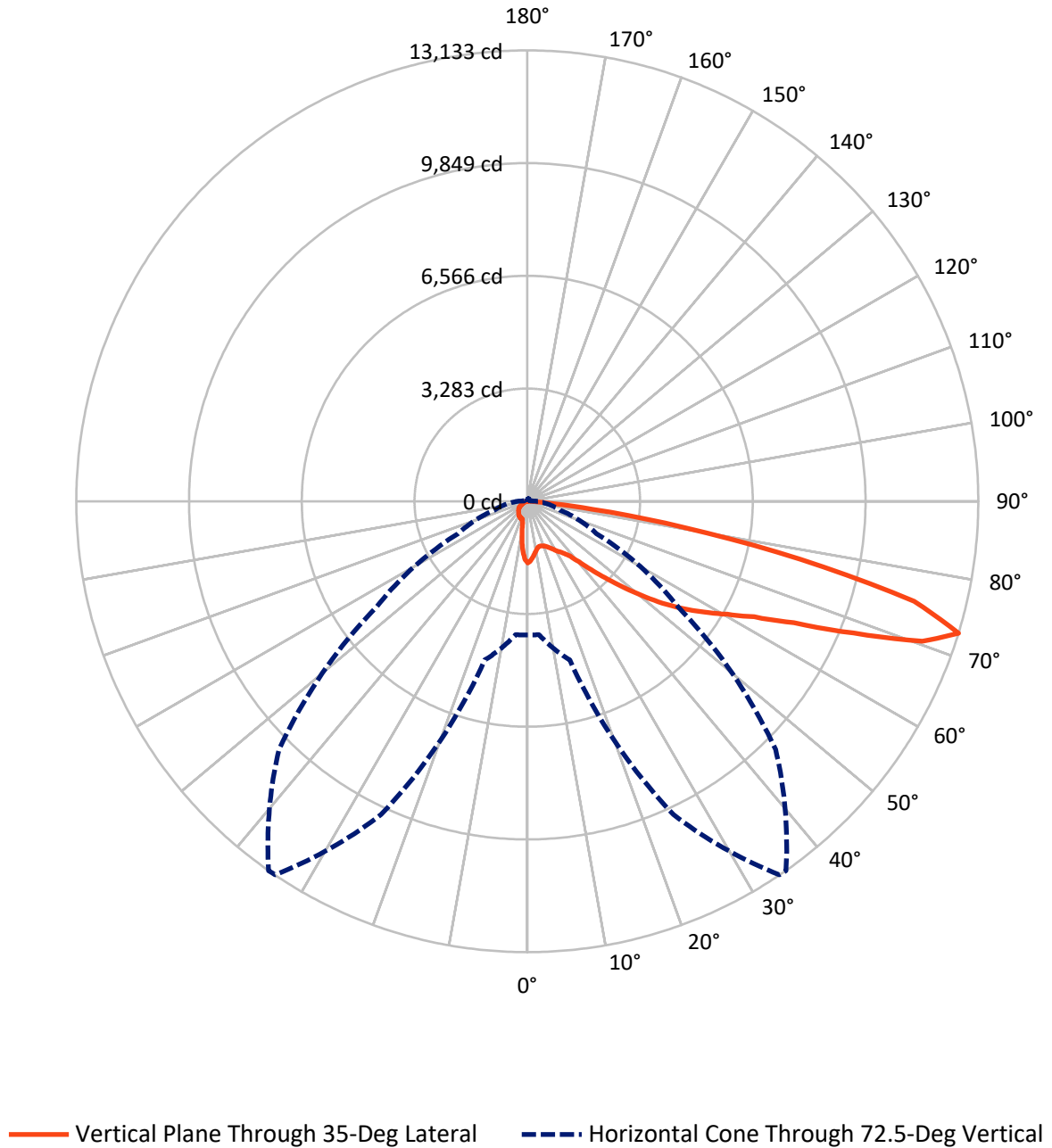
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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	1393.5	0.0	1393.5
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	10988.5	0.0	10988.5
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	12382.0	0.0	12382.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.5	1.2
10°-20°	345.0	2.8
20°-30°	560.4	4.5
30°-40°	935.0	7.6
40°-50°	1769.1	14.3
50°-60°	2811.1	22.7
60°-70°	3477.5	28.1
70°-80°	2161.7	17.5
80°-90°	174.7	1.4
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°	12382.0	100.0
0°-180°	12382.0	100.0

**Coefficient of Utilization**



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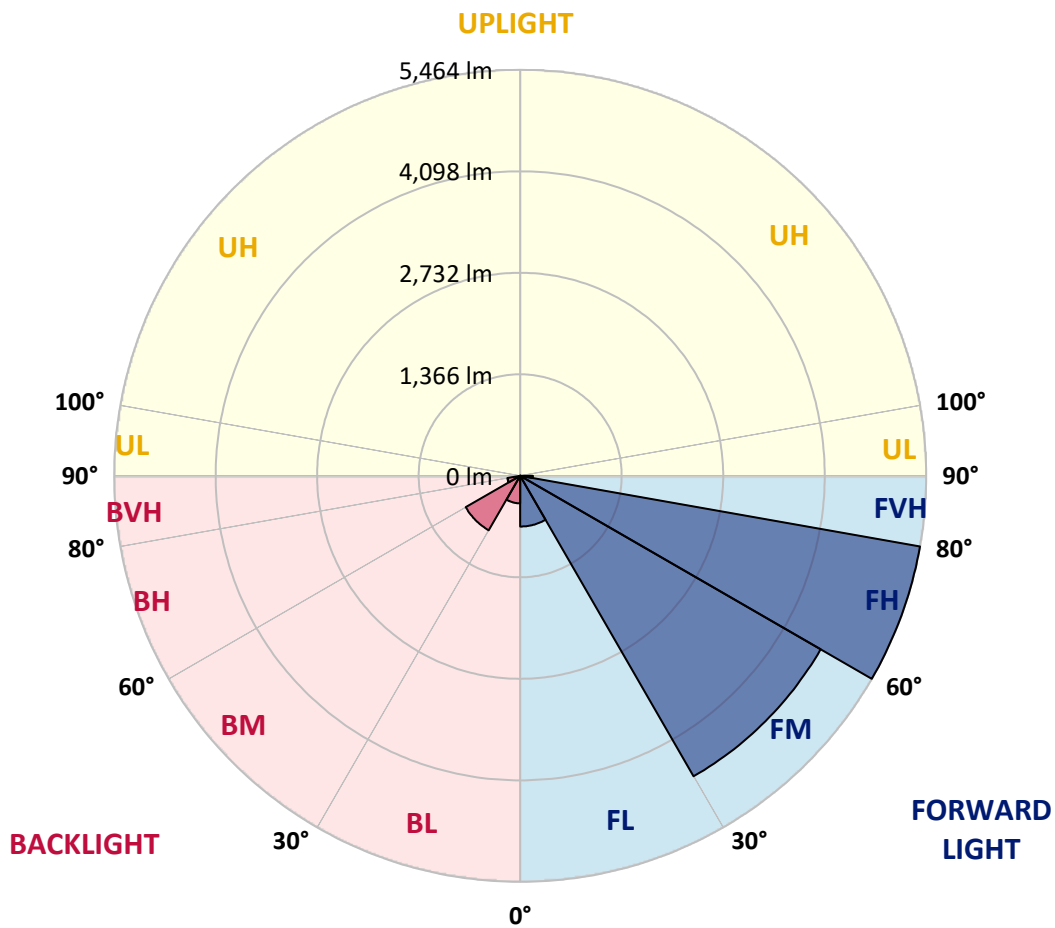
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	682.6	5.5			
FM (30°-60°)	4669.2	37.7			
FH (60°-80°)	5464.3	44.1			G3/7500
FVH (80°-90°)	172.3	1.4			G2/225
BL (0°-30°)	370.3	3.0	B1/500		
BM (30°-60°)	846.0	6.8	B1/1000		
BH (60°-80°)	174.9	1.4	B1/500		G1/500
BVH (80°-90°)	2.4	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°	34°	35°	45°	55°	65°	75°
0°	1794.6	1794.6	1794.6	1794.6	1794.6	1794.6	1794.6	1794.6	1794.6	1794.6
2.5°	1714.7	1729.2	1732.0	1736.5	1736.5	1741.9	1751.0	1763.7	1784.6	1795.5
5°	1580.5	1591.3	1604.9	1615.8	1636.7	1639.4	1674.8	1709.3	1757.4	1793.7
7.5°	1445.3	1458.0	1476.1	1502.4	1529.6	1537.8	1591.3	1649.4	1725.6	1793.7
10°	1350.0	1350.9	1367.2	1393.6	1437.1	1447.1	1512.4	1595.0	1690.2	1782.8
12.5°	1296.5	1302.8	1310.1	1330.0	1371.8	1378.1	1448.0	1545.1	1654.8	1776.4
15°	1296.5	1301.0	1305.6	1315.5	1349.1	1354.5	1416.2	1513.3	1636.7	1779.1
17.5°	1310.1	1317.3	1313.7	1325.5	1360.9	1364.5	1419.0	1504.2	1635.8	1796.4
20°	1342.7	1348.2	1340.9	1348.2	1383.6	1390.8	1447.1	1521.5	1651.2	1826.3
22.5°	1394.5	1397.2	1379.9	1385.4	1421.7	1430.8	1496.1	1570.5	1688.4	1874.4
25°	1459.8	1465.2	1438.9	1445.3	1479.7	1490.6	1565.9	1644.0	1747.4	1940.6
27.5°	1535.1	1537.8	1515.1	1514.2	1558.7	1574.1	1650.3	1734.7	1826.3	2024.1
30°	1621.3	1629.4	1607.7	1604.0	1660.3	1673.0	1748.3	1846.3	1942.5	2149.3
32.5°	1689.3	1695.7	1683.0	1692.0	1749.2	1759.2	1867.1	2004.1	2124.8	2327.1
35°	1787.3	1790.9	1761.9	1778.2	1843.6	1869.0	2029.5	2225.5	2354.3	2550.3
37.5°	2142.0	2142.0	2018.7	1937.9	2000.5	2023.2	2251.8	2504.0	2637.4	2849.7
40°	2632.9	2624.7	2444.2	2279.0	2270.9	2315.3	2568.5	2855.2	3003.0	3209.0
42.5°	3156.4	3143.7	2897.8	2734.5	2707.3	2722.7	2934.1	3287.9	3438.5	3647.2
45°	3620.9	3617.3	3392.3	3172.7	3123.7	3172.7	3390.4	3794.2	3902.1	4121.7
47.5°	4010.1	4010.1	3845.9	3702.5	3677.1	3706.2	4008.3	4355.8	4345.8	4627.0
50°	4458.3	4454.7	4298.6	4236.9	4263.2	4304.1	4719.6	4947.3	4804.9	5123.3
52.5°	4772.2	4794.0	4740.5	4730.5	4864.7	4935.5	5441.8	5526.1	5215.9	5594.2
55°	5020.8	5046.2	5107.9	5177.8	5436.3	5528.9	6141.3	6075.0	5559.7	6002.5
57.5°	5372.8	5336.5	5431.8	5569.7	5987.9	6099.5	6819.0	6593.1	5836.4	6333.6
60°	5800.1	5805.6	5821.9	5996.1	6538.6	6682.0	7486.7	7083.0	6014.2	6536.8
62.5°	6313.6	6321.8	6355.4	6623.0	7278.1	7413.2	8198.0	7484.0	6095.9	6479.7
65°	6278.3	6312.7	6687.4	7602.9	8402.2	8535.5	9028.2	7765.3	5972.5	5957.1
67.5°	5719.4	5775.6	6402.6	8773.2	10096.9	10245.7	10031.6	7820.6	5440.0	4632.5
70°	4986.3	5006.3	5760.2	9825.7	12059.3	12210.0	10929.8	7211.8	4128.0	2583.9
72.5°	3894.0	3898.5	4783.1	10069.7	13124.5	13132.6	10224.9	5353.8	2220.1	992.5
75°	2781.7	2754.5	3203.5	8166.3	11546.7	11639.3	7665.5	2511.3	848.3	469.1
77.5°	1491.5	1521.5	1812.7	4843.0	7976.7	8134.5	4182.5	724.0	431.9	319.4
80°	460.9	486.3	743.0	2217.4	4518.2	4613.4	1550.5	322.1	301.2	227.7
82.5°	145.2	150.6	346.6	931.8	1875.3	1918.9	449.1	182.4	205.9	150.6
85°	41.7	42.6	154.2	347.5	463.6	472.7	126.1	70.8	117.9	93.4
87.5°	4.5	14.5	58.1	58.1	40.8	39.9	13.6	15.4	33.6	11.8
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°
1794.6	0°	1794.6	1794.6	1794.6	1794.6	1794.6	1794.6	1794.6	1794.6	1794.6	1794.6
1802.7	2.5°	1798.2	1799.1	1787.3	1767.3	1745.6	1727.4	1704.7	1686.6	1673.9	1670.3
1819.1	5°	1810.9	1804.5	1771.0	1710.2	1637.6	1575.0	1505.1	1449.8	1413.5	1398.1
1836.3	7.5°	1830.0	1811.8	1738.3	1618.6	1479.7	1356.4	1231.2	1134.1	1072.4	1041.5
1852.6	10°	1846.3	1810.0	1683.9	1486.1	1273.8	1086.9	918.2	801.1	735.8	704.9
1871.7	12.5°	1861.7	1809.1	1613.1	1329.1	1041.5	812.9	656.0	597.9	579.7	573.4
1902.5	15°	1890.7	1811.8	1524.2	1149.5	810.2	614.2	557.1	556.2	559.8	558.0
1949.7	17.5°	1930.7	1814.5	1423.5	959.0	625.1	541.6	538.9	547.1	552.5	549.8
2008.7	20°	1982.4	1825.4	1316.4	770.3	537.1	523.5	529.8	537.1	541.6	537.1
2087.6	22.5°	2055.0	1844.5	1199.4	618.8	509.0	512.6	518.0	526.2	530.7	524.4
2188.3	25°	2143.9	1874.4	1084.2	538.0	495.4	499.9	508.1	517.1	522.6	516.2
2315.3	27.5°	2259.1	1922.5	978.0	519.9	481.8	484.5	496.3	509.9	517.1	509.0
2495.9	30°	2426.0	2001.4	886.4	528.0	473.6	467.2	483.6	502.6	510.8	503.5
2741.7	32.5°	2647.4	2113.0	830.1	540.7	470.0	447.3	462.7	487.2	500.8	496.3
3062.9	35°	2937.7	2282.7	808.4	555.2	467.2	426.4	437.3	463.6	487.2	491.7
3467.6	37.5°	3289.7	2518.6	814.7	561.6	459.1	409.2	414.6	437.3	468.1	482.7
3923.0	40°	3689.8	2793.5	851.0	555.2	450.0	394.7	395.6	412.8	440.0	461.8
4412.9	42.5°	4102.6	3114.6	918.2	531.7	441.8	382.0	379.2	391.0	409.2	424.6
4901.9	45°	4495.5	3444.9	984.4	499.0	431.9	369.3	362.9	367.4	371.1	377.4
5378.3	47.5°	4838.4	3677.1	965.3	469.1	418.2	354.7	343.9	342.0	331.2	330.2
5803.8	50°	5075.2	3727.9	857.4	439.1	398.3	338.4	321.2	310.3	291.2	282.2
6122.2	52.5°	5150.5	3527.4	700.4	409.2	365.6	316.6	292.1	274.9	251.3	243.1
6305.5	55°	5050.7	3134.6	559.8	372.9	320.3	287.6	260.4	237.7	218.7	208.7
6325.4	57.5°	4806.7	2634.7	442.7	330.2	272.2	254.9	227.7	205.0	188.7	178.7
6104.1	60°	4402.0	2092.1	350.2	279.4	232.3	219.6	191.4	176.9	162.4	150.6
5532.5	62.5°	3787.8	1493.4	274.9	221.4	194.2	179.6	163.3	152.4	135.2	118.9
4504.6	65°	2955.9	913.6	212.3	162.4	156.0	148.8	138.8	128.8	108.0	91.6
2938.6	67.5°	1864.4	432.8	151.5	122.5	123.4	119.8	115.2	107.1	91.6	77.1
1316.4	70°	821.1	209.6	99.8	93.4	91.6	91.6	95.3	92.5	78.0	64.4
457.3	72.5°	279.4	112.5	74.4	70.8	66.2	65.3	79.8	77.1	62.6	49.9
227.7	75°	146.1	75.3	54.4	50.8	39.9	48.1	63.5	59.9	44.5	32.7
150.6	77.5°	95.3	53.5	37.2	32.7	22.7	31.8	47.2	41.7	26.3	16.3
98.9	80°	59.9	35.4	21.8	15.4	10.9	17.2	25.4	18.1	10.0	3.6
58.1	82.5°	31.8	18.1	8.2	5.4	4.5	5.4	6.4	4.5	1.8	0.0
29.9	85°	12.7	6.4	2.7	1.8	0.9	0.0	1.8	0.9	0.0	0.0
5.4	87.5°	4.5	0.9	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>
1794.6
1676.6
1403.5
1046.1
705.9
571.6
557.1
548.9
536.2
523.5
515.3
509.0
502.6
496.3
491.7
486.3
469.1
431.0
381.1
329.3
283.1
242.2
208.7
176.9
147.9
116.1
88.9
75.3
61.7
47.2
29.9
14.5
2.7
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