

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: P939788

Luminaire Tested: **GALN-SB2C-750-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939788  
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-SB2C-750-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

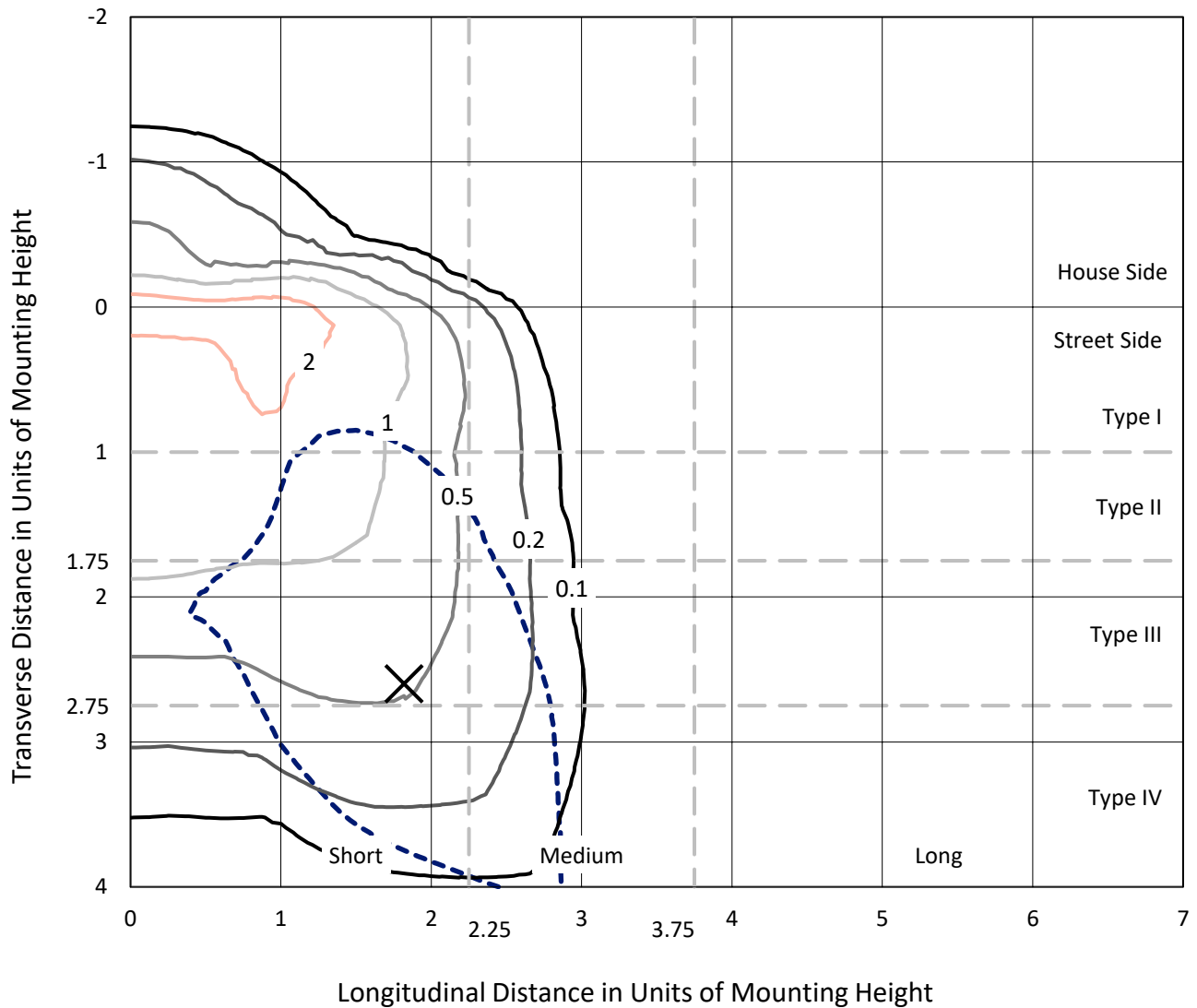
Lumens per Lamp: N/A  
Luminaire Lumens: 11997 lumens  
Efficiency: N/A  
Efficacy: 118.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 100.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

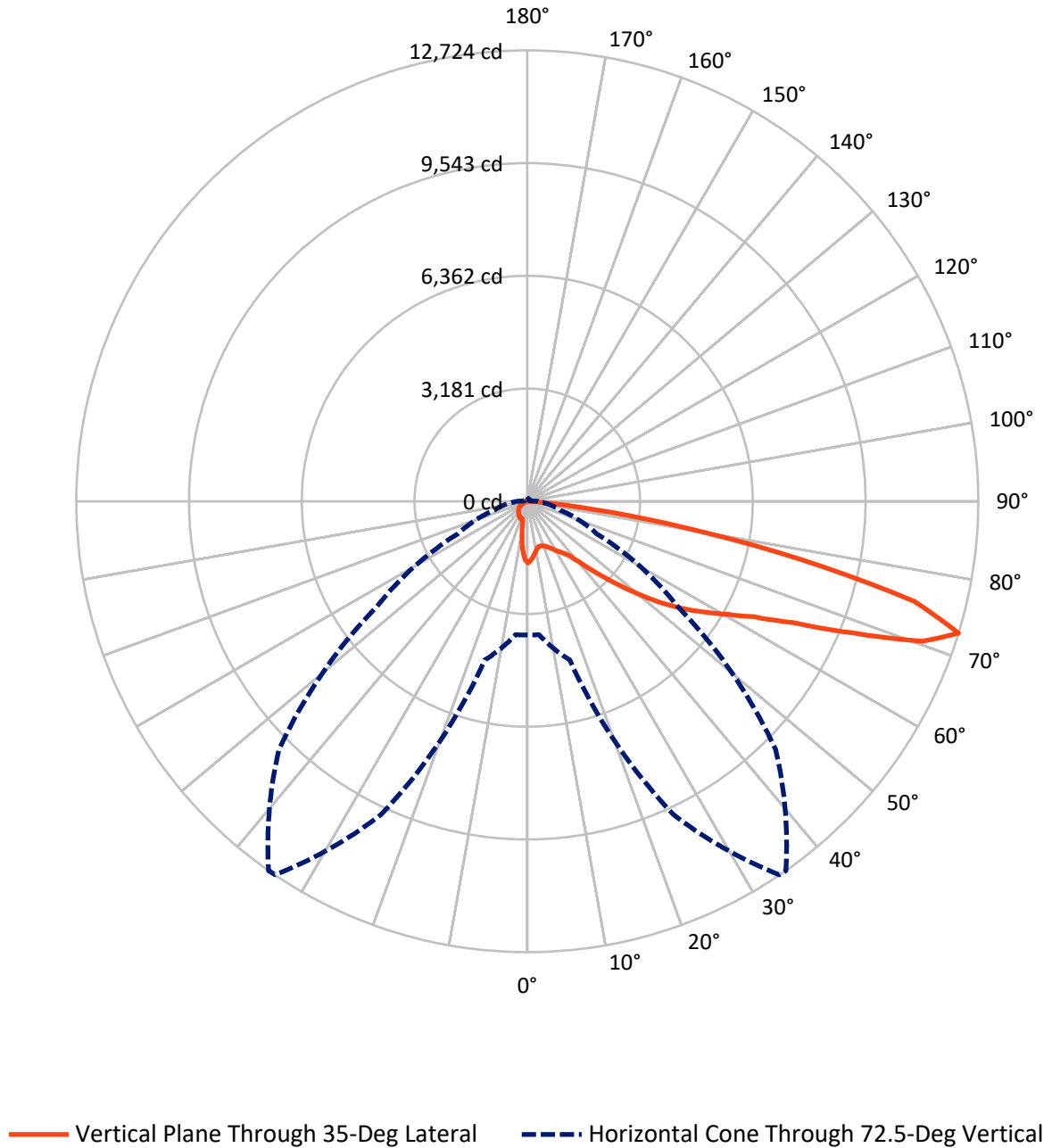
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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	1350.2	0.0	1350.2
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	10646.8	0.0	10646.8
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	11997.0	0.0	11997.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.9	1.2
10°-20°	334.3	2.8
20°-30°	543.0	4.5
30°-40°	906.0	7.6
40°-50°	1714.1	14.3
50°-60°	2723.7	22.7
60°-70°	3369.4	28.1
70°-80°	2094.4	17.5
80°-90°	169.3	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°	11997.0	100.0
0°-180°	11997.0	100.0

**Coefficient of Utilization**



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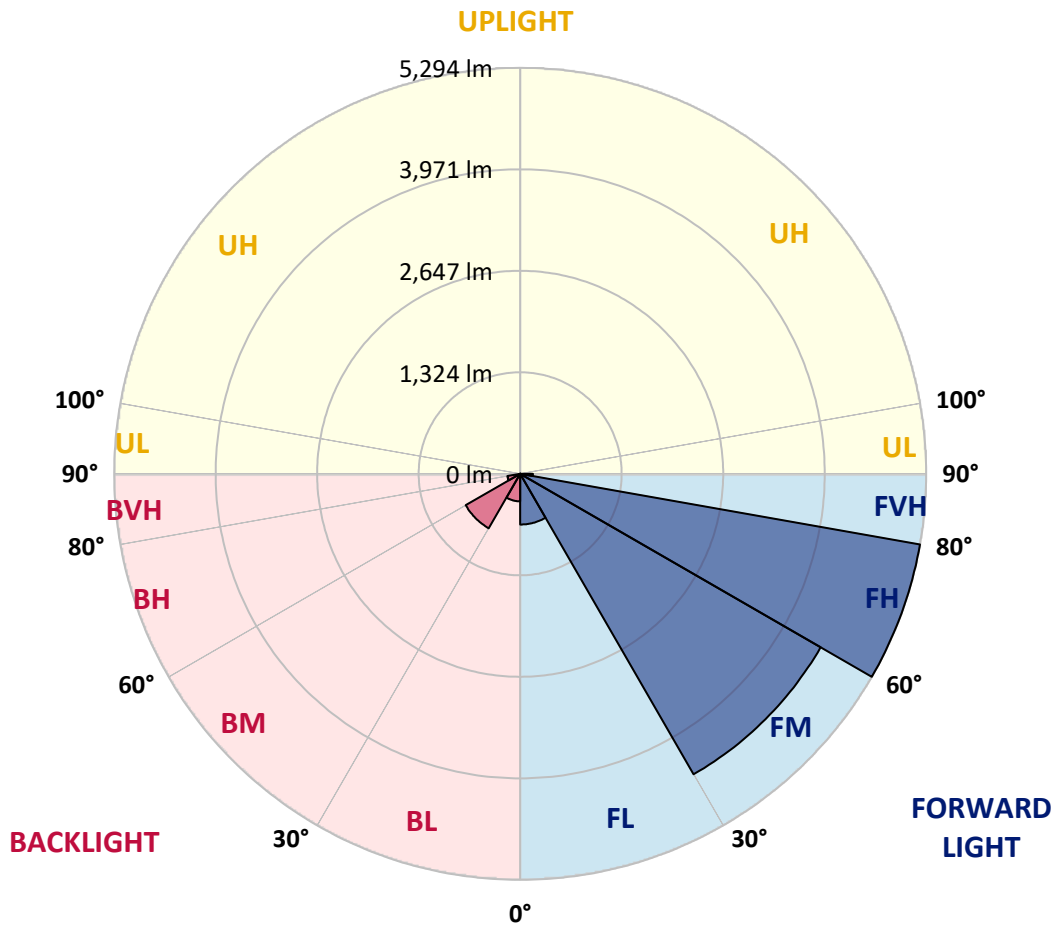
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	661.3	5.5			
FM (30°-60°)	4524.1	37.7			
FH (60°-80°)	5294.4	44.1			G3/7500
FVH (80°-90°)	167.0	1.4			G2/225
BL (0°-30°)	358.8	3.0	B1/500		
BM (30°-60°)	819.7	6.8	B1/1000		
BH (60°-80°)	169.4	1.4	B1/500		G1/500
BVH (80°-90°)	2.3	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°	1738.8	1738.8	1738.8	1738.8	1738.8	1738.8	1738.8	1738.8	1738.8	1738.8
2.5°	1661.4	1675.5	1678.1	1682.5	1682.5	1687.8	1696.6	1708.9	1729.1	1739.6
5°	1531.3	1541.9	1555.0	1565.6	1585.8	1588.4	1622.7	1656.1	1702.7	1737.9
7.5°	1400.3	1412.6	1430.2	1455.7	1482.1	1490.0	1541.9	1598.1	1672.0	1737.9
10°	1308.0	1308.9	1324.7	1350.2	1392.4	1402.1	1465.4	1545.4	1637.7	1727.3
12.5°	1256.2	1262.3	1269.4	1288.7	1329.1	1335.3	1403.0	1497.0	1603.4	1721.2
15°	1256.2	1260.6	1265.0	1274.6	1307.2	1312.4	1372.2	1466.3	1585.8	1723.8
17.5°	1269.4	1276.4	1272.9	1284.3	1318.6	1322.1	1374.8	1457.5	1584.9	1740.5
20°	1301.0	1306.3	1299.2	1306.3	1340.6	1347.6	1402.1	1474.2	1599.9	1769.5
22.5°	1351.1	1353.7	1337.0	1342.3	1377.5	1386.3	1449.6	1521.6	1635.9	1816.1
25°	1414.4	1419.7	1394.2	1400.3	1433.7	1444.3	1517.2	1592.8	1693.1	1880.3
27.5°	1487.4	1490.0	1468.0	1467.1	1510.2	1525.2	1599.0	1680.8	1769.5	1961.2
30°	1570.9	1578.8	1557.7	1554.2	1608.7	1621.0	1693.9	1788.9	1882.1	2082.5
32.5°	1636.8	1643.0	1630.6	1639.4	1694.8	1704.5	1809.1	1941.8	2058.7	2254.8
35°	1731.7	1735.3	1707.1	1722.9	1786.2	1810.8	1966.4	2156.3	2281.1	2471.0
37.5°	2075.4	2075.4	1955.9	1877.7	1938.3	1960.3	2181.8	2426.2	2555.4	2761.1
40°	2551.0	2543.1	2368.2	2208.2	2200.3	2243.3	2488.6	2766.4	2909.7	3109.2
42.5°	3058.2	3045.9	2807.7	2649.5	2623.1	2638.0	2842.9	3185.7	3331.6	3533.8
45°	3508.3	3504.8	3286.8	3074.0	3026.6	3074.0	3285.0	3676.2	3780.8	3993.5
47.5°	3885.4	3885.4	3726.3	3587.4	3562.8	3590.9	3883.7	4220.3	4210.7	4483.2
50°	4319.7	4316.2	4165.0	4105.2	4130.7	4170.2	4572.8	4793.5	4655.5	4964.0
52.5°	4623.8	4644.9	4593.1	4583.4	4713.5	4782.1	5272.6	5354.3	5053.7	5420.2
55°	4864.7	4889.3	4949.1	5016.8	5267.3	5357.0	5950.3	5886.1	5386.8	5815.8
57.5°	5205.8	5170.6	5262.9	5396.5	5801.8	5909.9	6607.0	6388.1	5655.0	6136.7
60°	5619.8	5625.1	5640.9	5809.7	6335.3	6474.2	7253.9	6862.8	5827.2	6333.6
62.5°	6117.3	6125.2	6157.8	6417.1	7051.8	7182.7	7943.1	7251.3	5906.4	6278.2
65°	6083.0	6116.5	6479.5	7366.5	8140.9	8270.1	8747.5	7523.8	5786.8	5771.9
67.5°	5541.6	5596.1	6203.5	8500.4	9783.0	9927.1	9719.7	7577.4	5270.8	4488.4
70°	4831.3	4850.6	5581.1	9520.1	11684.4	11830.3	10590.0	6987.6	3999.7	2503.5
72.5°	3772.9	3777.3	4634.4	9756.6	12716.4	12724.3	9906.9	5187.3	2151.0	961.7
75°	2695.2	2668.8	3103.9	7912.4	11187.7	11277.4	7427.1	2433.2	821.9	454.5
77.5°	1445.2	1474.2	1756.3	4692.4	7728.6	7881.6	4052.4	701.5	418.4	309.4
80°	446.6	471.2	719.9	2148.4	4377.7	4470.0	1502.3	312.1	291.8	220.6
82.5°	140.6	145.9	335.8	902.8	1817.0	1859.2	435.1	176.7	199.5	145.9
85°	40.4	41.3	149.4	336.7	449.2	458.0	122.2	68.6	114.3	90.5
87.5°	4.4	14.1	56.3	56.3	39.6	38.7	13.2	14.9	32.5	11.4
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°
1738.8	0°	1738.8	1738.8	1738.8	1738.8	1738.8	1738.8	1738.8	1738.8	1738.8	1738.8
1746.7	2.5°	1742.3	1743.2	1731.7	1712.4	1691.3	1673.7	1651.7	1634.2	1621.9	1618.3
1762.5	5°	1754.6	1748.4	1715.9	1657.0	1586.7	1526.0	1458.3	1404.7	1369.6	1354.6
1779.2	7.5°	1773.1	1755.5	1684.3	1568.2	1433.7	1314.2	1192.9	1098.8	1039.0	1009.2
1795.0	10°	1788.9	1753.7	1631.5	1439.9	1234.2	1053.1	889.6	776.2	712.9	683.0
1813.5	12.5°	1803.8	1752.8	1563.0	1287.8	1009.2	787.6	635.6	579.3	561.7	555.6
1843.4	15°	1831.9	1755.5	1476.8	1113.8	785.0	595.1	539.7	538.9	542.4	540.6
1889.1	17.5°	1870.6	1758.1	1379.2	929.2	605.7	524.8	522.2	530.1	535.3	532.7
1946.2	20°	1920.7	1768.7	1275.5	746.3	520.4	507.2	513.4	520.4	524.8	520.4
2022.7	22.5°	1991.1	1787.1	1162.1	599.5	493.1	496.7	501.9	509.9	514.2	508.1
2120.3	25°	2077.2	1816.1	1050.5	521.3	480.0	484.4	492.3	501.1	506.3	500.2
2243.3	27.5°	2188.8	1862.7	947.6	503.7	466.8	469.4	480.8	494.0	501.1	493.1
2418.3	30°	2350.6	1939.2	858.8	511.6	458.9	452.7	468.5	487.0	494.9	487.9
2656.5	32.5°	2565.1	2047.3	804.3	523.9	455.3	433.4	448.3	472.1	485.2	480.8
2967.7	35°	2846.4	2211.7	783.2	538.0	452.7	413.2	423.7	449.2	472.1	476.4
3359.7	37.5°	3187.4	2440.3	789.4	544.1	444.8	396.5	401.7	423.7	453.6	467.7
3801.0	40°	3575.1	2706.6	824.6	538.0	436.0	382.4	383.3	400.0	426.3	447.4
4275.7	42.5°	3975.1	3017.8	889.6	515.1	428.1	370.1	367.4	378.9	396.5	411.4
4749.5	45°	4355.7	3337.8	953.8	483.5	418.4	357.8	351.6	356.0	359.5	365.7
5211.0	47.5°	4688.0	3562.8	935.3	454.5	405.2	343.7	333.2	331.4	320.9	320.0
5623.3	50°	4917.4	3612.0	830.7	425.5	385.9	327.9	311.2	300.6	282.2	273.4
5931.9	52.5°	4990.4	3417.8	678.6	396.5	354.3	306.8	283.1	266.4	243.5	235.6
6109.4	55°	4893.7	3037.1	542.4	361.3	310.3	278.7	252.3	230.3	211.9	202.2
6128.8	57.5°	4657.2	2552.8	429.0	320.0	263.7	247.0	220.6	198.7	182.8	173.2
5914.3	60°	4265.2	2027.1	339.3	270.7	225.0	212.7	185.5	171.4	157.4	145.9
5360.5	62.5°	3670.0	1446.9	266.4	214.5	188.1	174.1	158.2	147.7	131.0	115.2
4364.5	65°	2864.0	885.2	205.7	157.4	151.2	144.2	134.5	124.8	104.6	88.8
2847.3	67.5°	1806.5	419.3	146.8	118.7	119.6	116.0	111.6	103.7	88.8	74.7
1275.5	70°	795.5	203.1	96.7	90.5	88.8	88.8	92.3	89.7	75.6	62.4
443.0	72.5°	270.7	109.0	72.1	68.6	64.2	63.3	77.4	74.7	60.7	48.3
220.6	75°	141.5	73.0	52.7	49.2	38.7	46.6	61.5	58.0	43.1	31.6
145.9	77.5°	92.3	51.9	36.0	31.6	22.0	30.8	45.7	40.4	25.5	15.8
95.8	80°	58.0	34.3	21.1	14.9	10.5	16.7	24.6	17.6	9.7	3.5
56.3	82.5°	30.8	17.6	7.9	5.3	4.4	5.3	6.2	4.4	1.8	0.0
29.0	85°	12.3	6.2	2.6	1.8	0.9	0.0	1.8	0.9	0.0	0.0
5.3	87.5°	4.4	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>
1738.8
1624.5
1359.9
1013.5
683.9
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539.7
531.8
519.5
507.2
499.3
493.1
487.0
480.8
476.4
471.2
454.5
417.6
369.2
319.1
274.3
234.7
202.2
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