

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: P941588

Luminaire Tested: **GALN-SB5A-940-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941588
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-SB5A-940-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 4000K, 350mA 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: 12432 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

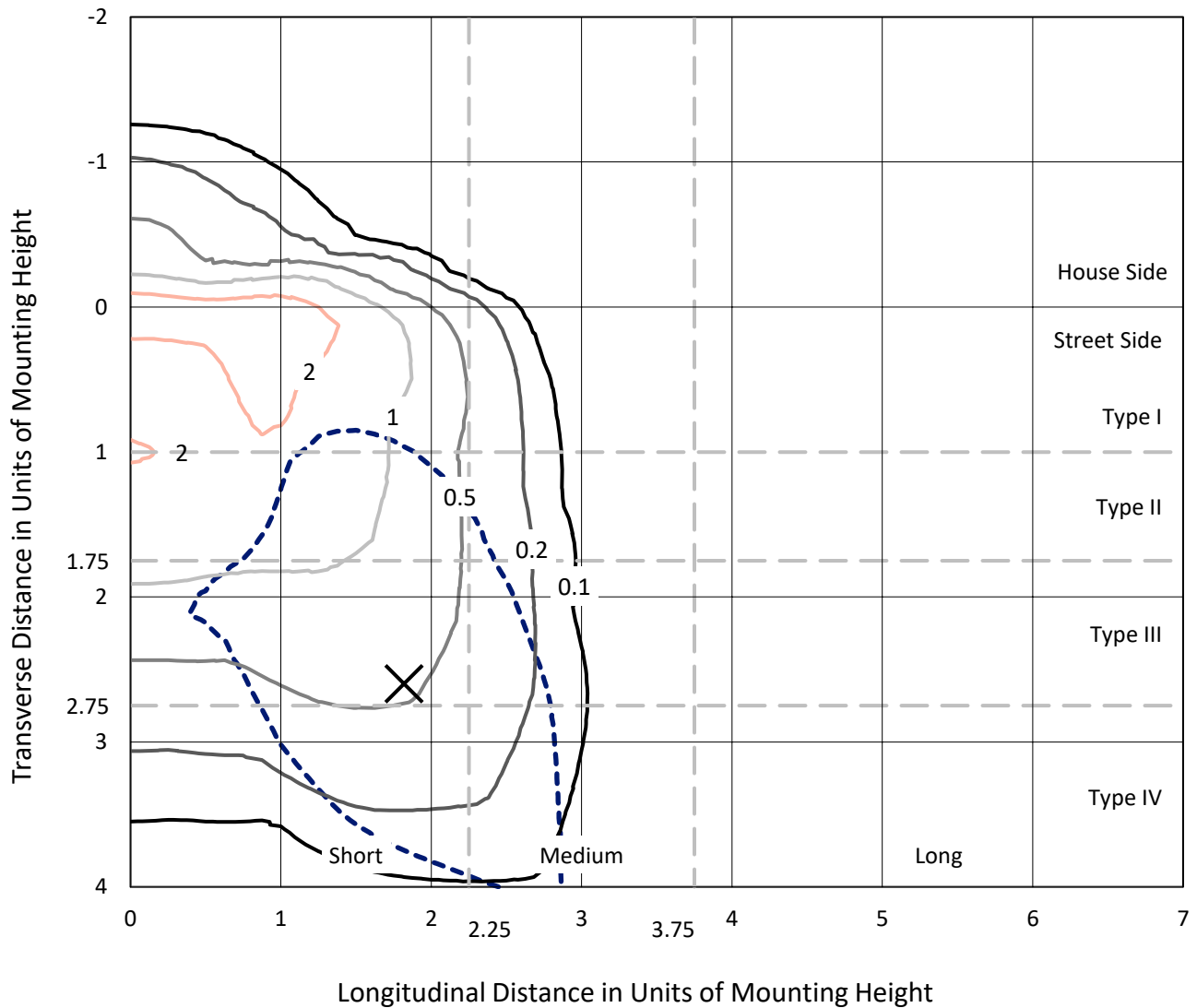
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

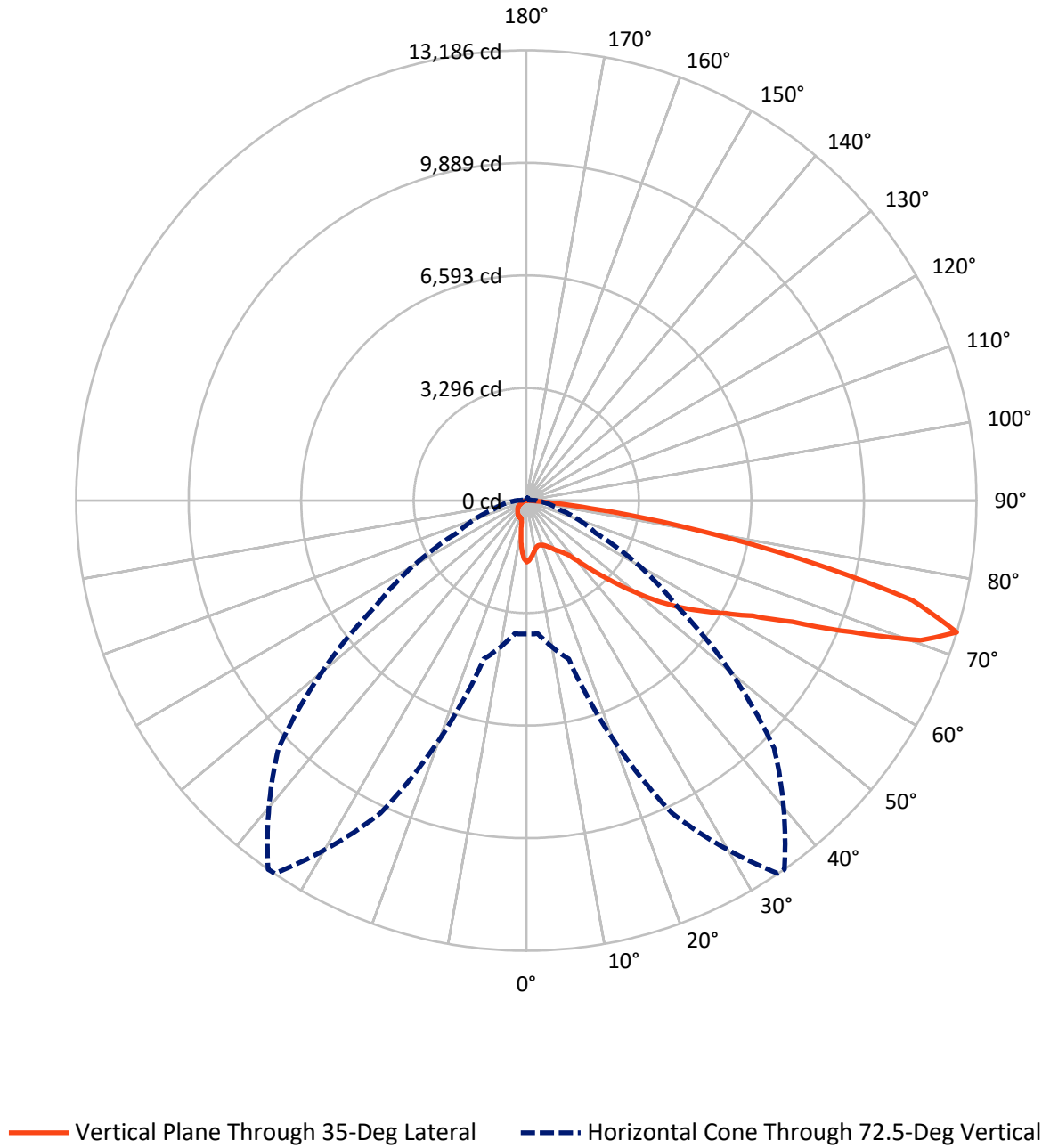
× Max cd
 - - - 1/2 Max cd



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
House Side	Lumens	1399.2	0.0	1399.2
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	11032.8	0.0	11032.8
	% Fixture	88.7	0.0	88.7
Total	Lumens	12432.0	0.0	12432.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.1	1.2
10°-20°	346.4	2.8
20°-30°	562.7	4.5
30°-40°	938.8	7.6
40°-50°	1776.3	14.3
50°-60°	2822.5	22.7
60°-70°	3491.6	28.1
70°-80°	2170.4	17.5
80°-90°	175.4	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°	12432.0	100.0
0°-180°	12432.0	100.0

Coefficient of Utilization



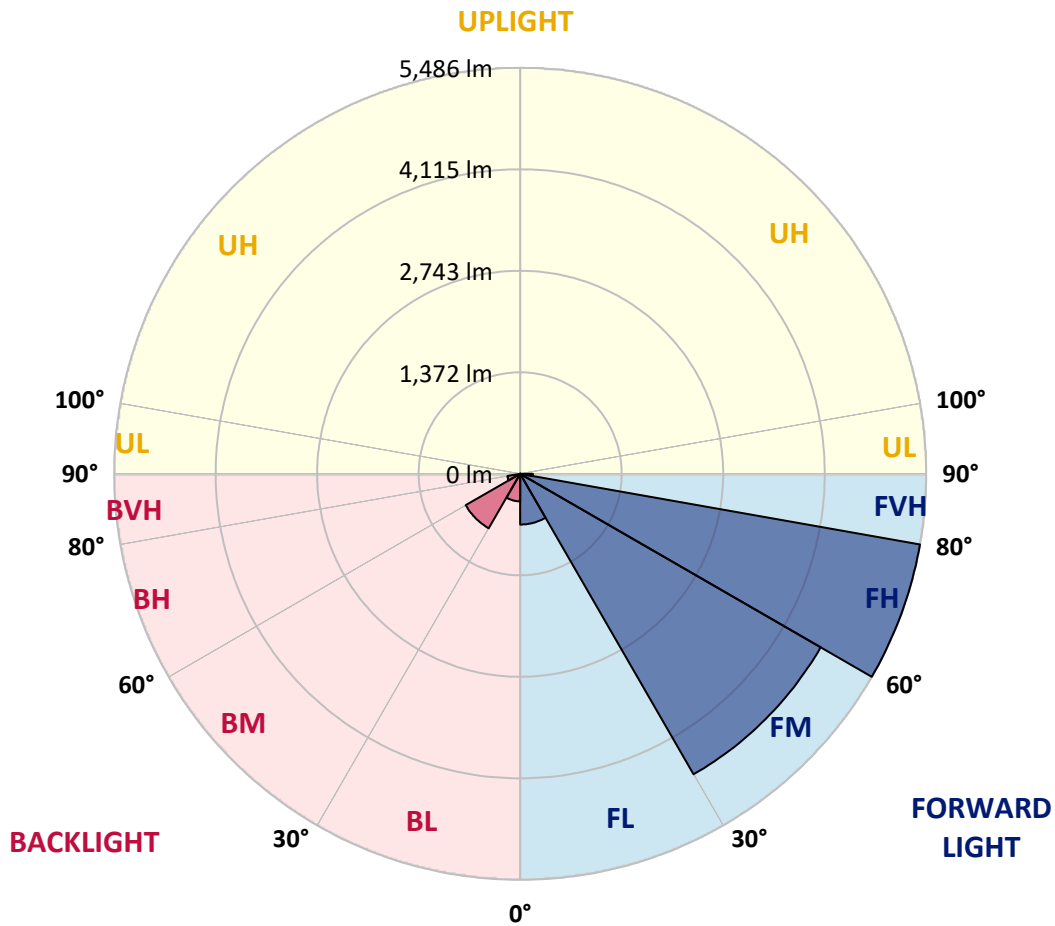
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	685.3	5.5			
FM (30°-60°)	4688.1	37.7			
FH (60°-80°)	5486.4	44.1			G3/7500
FVH (80°-90°)	173.0	1.4			G2/225
BL (0°-30°)	371.8	3.0	B1/500		
BM (30°-60°)	849.4	6.8	B1/1000		
BH (60°-80°)	175.6	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°	1801.8	1801.8	1801.8	1801.8	1801.8	1801.8	1801.8	1801.8	1801.8	1801.8
2.5°	1721.7	1736.2	1739.0	1743.5	1743.5	1749.0	1758.1	1770.8	1791.8	1802.7
5°	1586.8	1597.8	1611.4	1622.4	1643.3	1646.0	1681.6	1716.2	1764.5	1800.9
7.5°	1451.1	1463.9	1482.1	1508.5	1535.8	1544.0	1597.8	1656.1	1732.6	1800.9
10°	1355.5	1356.4	1372.8	1399.2	1442.9	1452.9	1518.5	1601.4	1697.1	1790.0
12.5°	1301.7	1308.1	1315.4	1335.4	1377.3	1383.7	1453.8	1551.3	1661.5	1783.6
15°	1301.7	1306.3	1310.8	1320.8	1354.5	1360.0	1422.0	1519.4	1643.3	1786.3
17.5°	1315.4	1322.7	1319.0	1330.9	1366.4	1370.0	1424.7	1510.3	1642.4	1803.6
20°	1348.2	1353.6	1346.4	1353.6	1389.2	1396.5	1452.9	1527.6	1657.9	1833.7
22.5°	1400.1	1402.8	1385.5	1391.0	1427.4	1436.5	1502.1	1576.8	1695.2	1882.0
25°	1465.7	1471.1	1444.7	1451.1	1485.7	1496.7	1572.3	1650.6	1754.4	1948.5
27.5°	1541.3	1544.0	1521.2	1520.3	1565.0	1580.5	1657.0	1741.7	1833.7	2032.3
30°	1627.8	1636.0	1614.2	1610.5	1667.0	1679.7	1755.4	1853.7	1950.3	2158.0
32.5°	1696.1	1702.5	1689.8	1698.9	1756.3	1766.3	1874.7	2012.2	2133.4	2336.5
35°	1794.5	1798.2	1769.0	1785.4	1851.0	1876.5	2037.7	2234.5	2363.9	2560.6
37.5°	2150.7	2150.7	2026.8	1945.7	2008.6	2031.4	2260.9	2514.2	2648.1	2861.2
40°	2643.5	2635.3	2454.0	2288.2	2280.1	2324.7	2578.8	2866.7	3015.2	3221.9
42.5°	3169.1	3156.4	2909.5	2745.5	2718.2	2733.7	2945.9	3301.2	3452.4	3661.9
45°	3635.5	3631.9	3406.0	3185.5	3136.3	3185.5	3404.1	3809.5	3917.9	4138.3
47.5°	4026.3	4026.3	3861.4	3717.5	3692.0	3721.1	4024.5	4373.4	4363.3	4645.7
50°	4476.3	4472.7	4316.0	4254.0	4280.4	4321.4	4738.6	4967.3	4824.3	5144.0
52.5°	4791.5	4813.3	4759.6	4749.6	4884.4	4955.4	5463.7	5548.5	5236.9	5616.8
55°	5041.1	5066.6	5128.5	5198.7	5458.3	5551.2	6166.1	6099.6	5582.2	6026.7
57.5°	5394.5	5358.1	5453.7	5592.2	6012.1	6124.2	6846.5	6619.7	5860.0	6359.2
60°	5823.6	5829.0	5845.4	6020.3	6565.1	6709.0	7517.0	7111.6	6038.5	6563.2
62.5°	6339.1	6347.3	6381.0	6649.8	7307.5	7443.2	8231.1	7514.2	6120.5	6505.8
65°	6303.6	6338.2	6714.4	7633.6	8436.1	8570.0	9064.6	7796.6	5996.6	5981.1
67.5°	5742.5	5799.0	6428.4	8808.7	10137.7	10287.1	10072.1	7852.2	5461.9	4651.2
70°	5006.5	5026.5	5783.5	9865.3	12108.0	12259.3	10973.9	7241.0	4144.7	2594.3
72.5°	3909.7	3914.3	4802.4	10110.4	13177.5	13185.7	10266.1	5375.4	2229.0	996.6
75°	2792.9	2765.6	3216.5	8199.3	11593.4	11686.3	7696.4	2521.4	851.7	470.9
77.5°	1497.6	1527.6	1820.0	4862.5	8008.9	8167.4	4199.4	726.9	433.6	320.6
80°	462.8	488.3	746.0	2226.3	4536.4	4632.1	1556.8	323.4	302.4	228.6
82.5°	145.7	151.2	348.0	935.5	1882.9	1926.6	450.9	183.1	206.8	151.2
85°	41.9	42.8	154.9	348.9	465.5	474.6	126.6	71.1	118.4	93.8
87.5°	4.6	14.6	58.3	58.3	41.0	40.1	13.7	15.5	33.7	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°
1801.8	0°	1801.8	1801.8	1801.8	1801.8	1801.8	1801.8	1801.8	1801.8	1801.8	1801.8
1810.0	2.5°	1805.5	1806.4	1794.5	1774.5	1752.6	1734.4	1711.6	1693.4	1680.7	1677.0
1826.4	5°	1818.2	1811.8	1778.1	1717.1	1644.2	1581.4	1511.2	1455.7	1419.2	1403.7
1843.7	7.5°	1837.3	1819.1	1745.3	1625.1	1485.7	1361.8	1236.1	1138.7	1076.7	1045.7
1860.1	10°	1853.7	1817.3	1690.7	1492.1	1278.9	1091.3	921.9	804.3	738.8	707.8
1879.2	12.5°	1869.2	1816.4	1619.6	1334.5	1045.7	816.2	658.6	600.3	582.1	575.7
1910.2	15°	1898.4	1819.1	1530.4	1154.1	813.5	616.7	559.3	558.4	562.0	560.2
1957.6	17.5°	1938.5	1821.9	1429.2	962.8	627.6	543.8	541.1	549.3	554.8	552.0
2016.8	20°	1990.4	1832.8	1321.8	773.4	539.3	525.6	532.0	539.3	543.8	539.3
2096.0	22.5°	2063.2	1851.9	1204.2	621.3	511.0	514.7	520.1	528.3	532.9	526.5
2197.2	25°	2152.5	1882.0	1088.6	540.2	497.4	501.9	510.1	519.2	524.7	518.3
2324.7	27.5°	2268.2	1930.3	982.0	522.0	483.7	486.4	498.3	511.9	519.2	511.0
2506.0	30°	2435.8	2009.5	890.0	530.2	475.5	469.1	485.5	504.7	512.9	505.6
2752.8	32.5°	2658.1	2121.5	833.5	542.9	471.9	449.1	464.6	489.2	502.8	498.3
3075.3	35°	2949.6	2291.9	811.6	557.5	469.1	428.1	439.1	465.5	489.2	493.7
3481.6	37.5°	3303.0	2528.7	818.0	563.9	460.9	410.8	416.3	439.1	470.0	484.6
3938.8	40°	3704.7	2804.7	854.4	557.5	451.8	396.3	397.2	414.5	441.8	463.7
4430.7	42.5°	4119.2	3127.2	921.9	533.8	443.6	383.5	380.8	392.6	410.8	426.3
4921.7	45°	4513.6	3458.8	988.4	501.0	433.6	370.7	364.4	368.9	372.6	378.9
5400.0	47.5°	4858.0	3692.0	969.2	470.9	419.9	356.2	345.2	343.4	332.5	331.6
5827.2	50°	5095.7	3743.0	860.8	440.9	399.9	339.8	322.5	311.5	292.4	283.3
6146.9	52.5°	5171.3	3541.7	703.2	410.8	367.1	317.9	293.3	276.0	252.3	244.1
6330.9	55°	5071.1	3147.3	562.0	374.4	321.6	288.8	261.4	238.7	219.5	209.5
6351.0	57.5°	4826.1	2645.3	444.5	331.6	273.3	256.0	228.6	205.9	189.5	179.5
6128.7	60°	4419.8	2100.6	351.6	280.6	233.2	220.4	192.2	177.6	163.1	151.2
5554.8	62.5°	3803.1	1499.4	276.0	222.3	194.9	180.4	164.0	153.0	135.7	119.3
4522.8	65°	2967.8	917.3	213.2	163.1	156.7	149.4	139.4	129.4	108.4	92.0
2950.5	67.5°	1872.0	434.5	152.1	123.0	123.9	120.2	115.7	107.5	92.0	77.4
1321.8	70°	824.4	210.4	100.2	93.8	92.0	92.0	95.6	92.9	78.3	64.7
459.1	72.5°	280.6	113.0	74.7	71.1	66.5	65.6	80.2	77.4	62.9	50.1
228.6	75°	146.7	75.6	54.7	51.0	40.1	48.3	63.8	60.1	44.6	32.8
151.2	77.5°	95.6	53.7	37.3	32.8	22.8	31.9	47.4	41.9	26.4	16.4
99.3	80°	60.1	35.5	21.9	15.5	10.9	17.3	25.5	18.2	10.0	3.6
58.3	82.5°	31.9	18.2	8.2	5.5	4.6	5.5	6.4	4.6	1.8	0.0
30.1	85°	12.8	6.4	2.7	1.8	0.9	0.0	1.8	0.9	0.0	0.0
5.5	87.5°	4.6	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>
1801.8
1683.4
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551.1
538.4
525.6
517.4
511.0
504.7
498.3
493.7
488.3
470.9
432.7
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284.2
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