

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: P940318

Luminaire Tested: **GALN-SB3B-827-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940318
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-SB3B-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 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: 11124 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

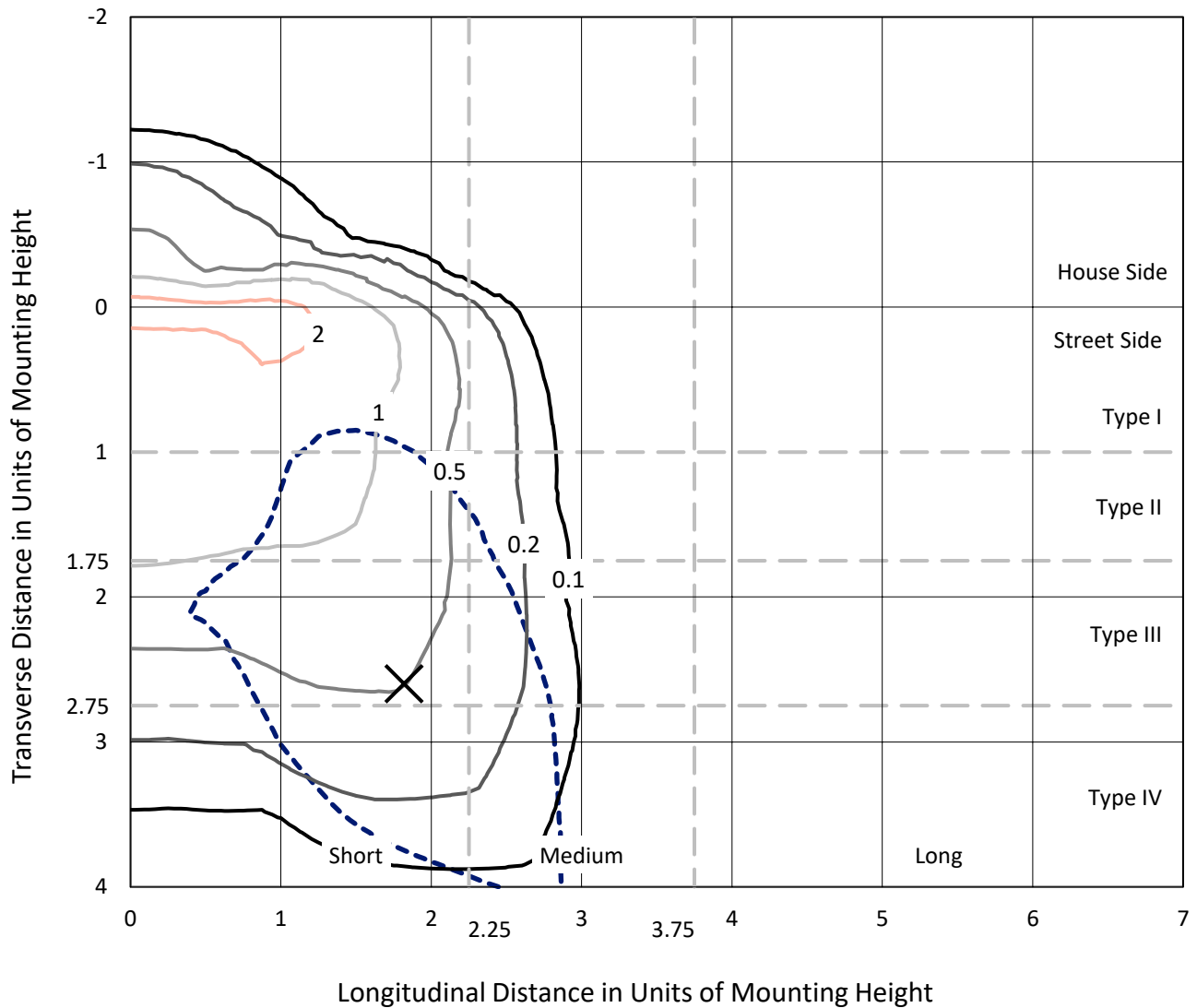
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

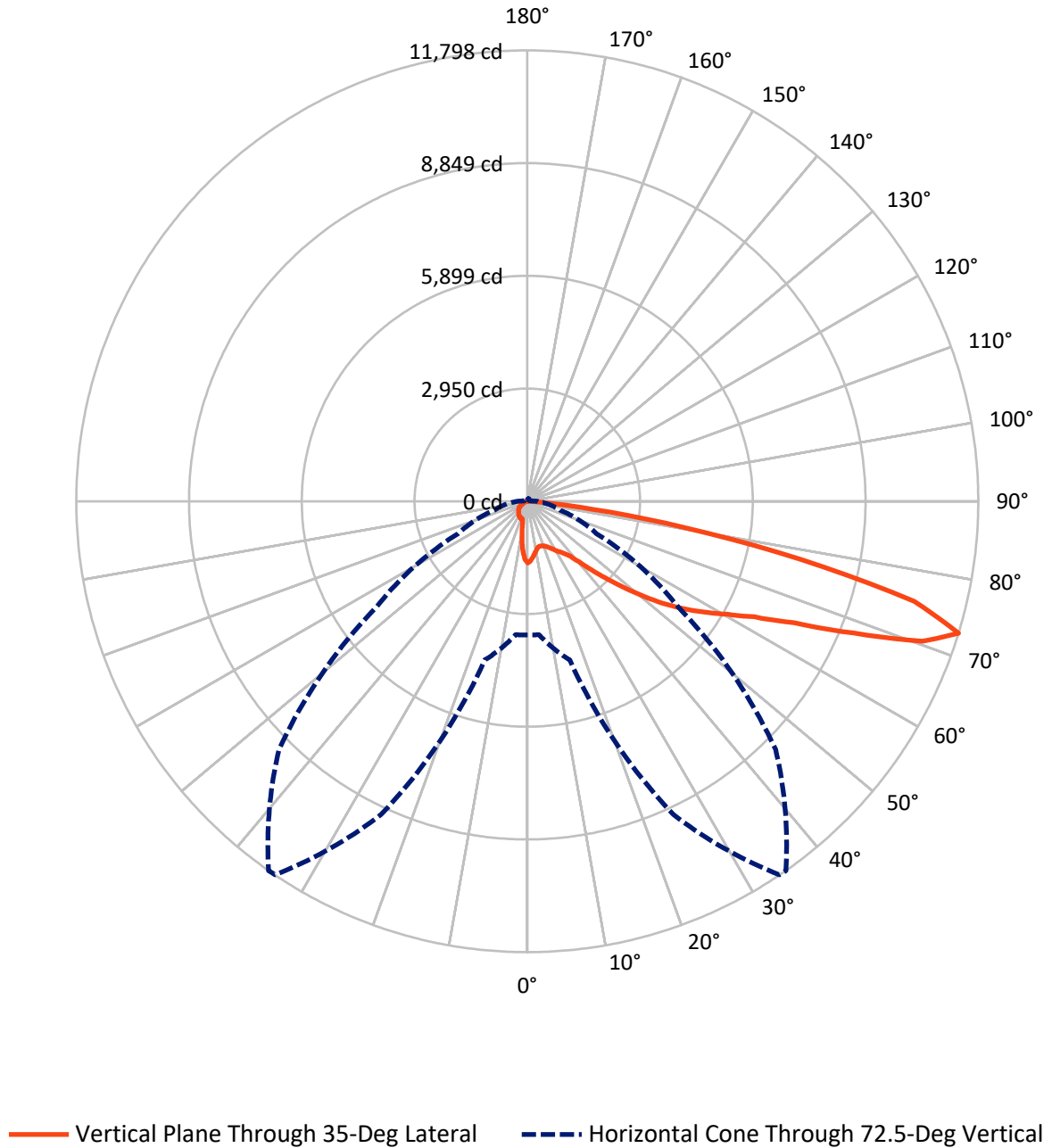
✕ Max cd
 - - - 1/2 Max cd



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
House Side	Lumens	1252.0	0.0	1252.0
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	9872.0	0.0	9872.0
	% Fixture	88.7	0.0	88.7
Total	Lumens	11124.0	0.0	11124.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.5	1.2
10°-20°	309.9	2.8
20°-30°	503.5	4.5
30°-40°	840.0	7.6
40°-50°	1589.4	14.3
50°-60°	2525.5	22.7
60°-70°	3124.2	28.1
70°-80°	1942.0	17.5
80°-90°	157.0	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°	11124.0	100.0
0°-180°	11124.0	100.0

Coefficient of Utilization



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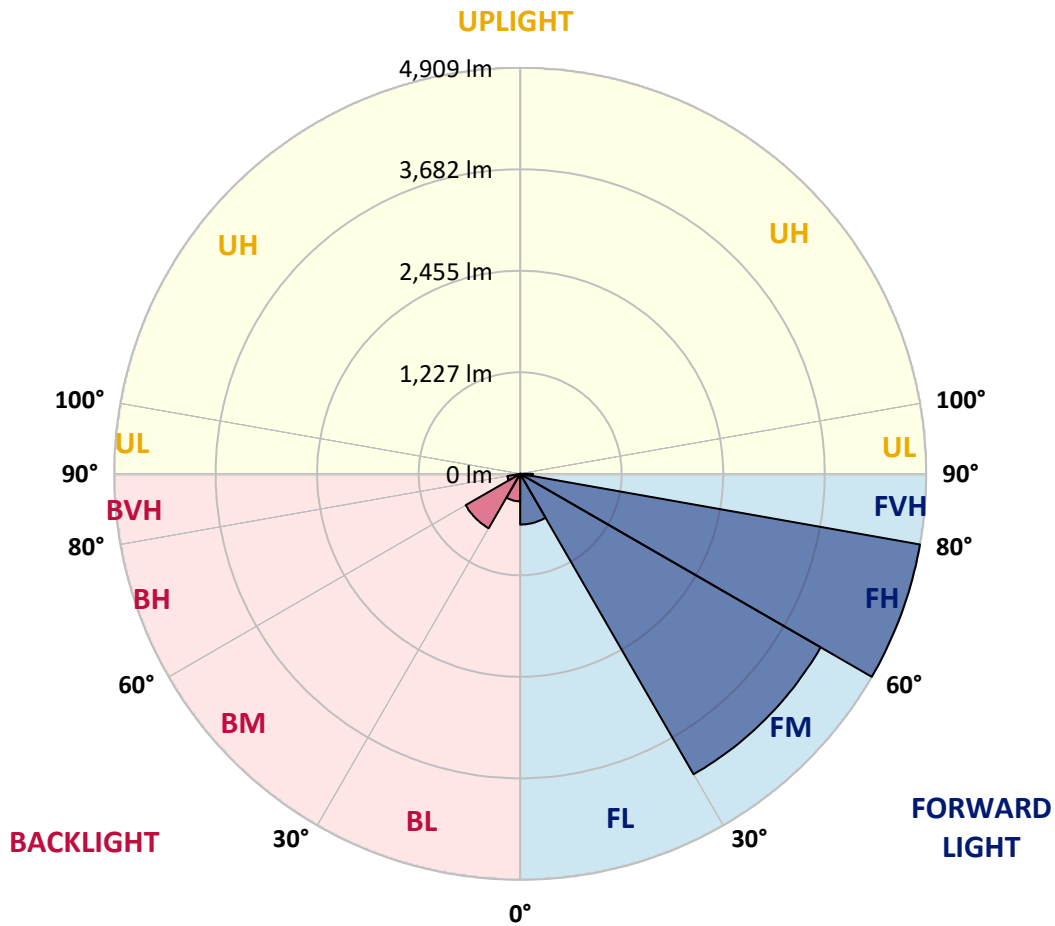
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	613.2	5.5			
FM (30°-60°)	4194.9	37.7			
FH (60°-80°)	4909.2	44.1			G2/5000
FVH (80°-90°)	154.8	1.4			G2/225
BL (0°-30°)	332.7	3.0	B1/500		
BM (30°-60°)	760.1	6.8	B1/1000		
BH (60°-80°)	157.1	1.4	B1/500		G1/500
BVH (80°-90°)	2.1	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	1612.2	1612.2	1612.2	1612.2	1612.2	1612.2	1612.2	1612.2	1612.2	1612.2
2.5°	1540.5	1553.6	1556.0	1560.1	1560.1	1565.0	1573.1	1584.5	1603.3	1613.1
5°	1419.9	1429.7	1441.9	1451.7	1470.4	1472.9	1504.6	1535.6	1578.8	1611.4
7.5°	1298.4	1309.8	1326.1	1349.8	1374.2	1381.6	1429.7	1481.8	1550.3	1611.4
10°	1212.8	1213.7	1228.3	1252.0	1291.1	1300.1	1358.7	1432.9	1518.5	1601.6
12.5°	1164.8	1170.5	1177.0	1194.9	1232.4	1238.1	1300.9	1388.1	1486.7	1595.9
15°	1164.8	1168.8	1172.9	1181.9	1212.0	1216.9	1272.3	1359.6	1470.4	1598.4
17.5°	1177.0	1183.5	1180.2	1190.8	1222.6	1225.9	1274.8	1351.4	1469.6	1613.9
20°	1206.3	1211.2	1204.7	1211.2	1243.0	1249.5	1300.1	1366.9	1483.5	1640.8
22.5°	1252.8	1255.2	1239.7	1244.6	1277.2	1285.4	1344.1	1410.9	1516.9	1684.0
25°	1311.5	1316.4	1292.7	1298.4	1329.4	1339.2	1406.8	1476.9	1569.9	1743.5
27.5°	1379.1	1381.6	1361.2	1360.4	1400.3	1414.2	1482.6	1558.4	1640.8	1818.5
30°	1456.6	1463.9	1444.3	1441.1	1491.6	1503.0	1570.7	1658.7	1745.1	1930.9
32.5°	1517.7	1523.4	1512.0	1520.1	1571.5	1580.5	1677.4	1800.5	1908.9	2090.7
35°	1605.7	1609.0	1582.9	1597.6	1656.3	1679.1	1823.3	1999.4	2115.1	2291.2
37.5°	1924.4	1924.4	1813.6	1741.0	1797.3	1817.6	2023.0	2249.6	2369.5	2560.2
40°	2365.4	2358.0	2195.8	2047.5	2040.2	2080.1	2307.5	2565.1	2697.9	2883.0
42.5°	2835.7	2824.3	2603.4	2456.7	2432.2	2446.1	2636.0	2953.9	3089.2	3276.6
45°	3253.0	3249.7	3047.6	2850.4	2806.3	2850.4	3046.0	3408.7	3505.7	3702.9
47.5°	3602.7	3602.7	3455.2	3326.4	3303.5	3329.6	3601.1	3913.2	3904.3	4156.9
50°	4005.3	4002.1	3861.9	3806.5	3830.1	3866.8	4240.1	4444.7	4316.7	4602.8
52.5°	4287.4	4306.9	4258.8	4249.9	4370.5	4434.1	4888.9	4964.7	4685.9	5025.8
55°	4510.7	4533.5	4588.9	4651.7	4884.0	4967.1	5517.3	5457.8	4994.8	5392.6
57.5°	4826.9	4794.3	4879.9	5003.8	5379.6	5479.8	6126.2	5923.2	5243.4	5690.1
60°	5210.8	5215.7	5230.4	5386.9	5874.3	6003.1	6726.1	6363.4	5403.2	5872.7
62.5°	5672.2	5679.5	5709.7	5950.1	6538.6	6660.1	7365.1	6723.6	5476.6	5821.3
65°	5640.4	5671.4	6008.0	6830.4	7548.5	7668.3	8110.9	6976.3	5365.7	5351.9
67.5°	5138.3	5188.8	5752.1	7881.9	9071.1	9204.8	9012.4	7026.0	4887.3	4161.8
70°	4479.7	4497.6	5175.0	8827.4	10834.1	10969.4	9819.3	6479.1	3708.6	2321.4
72.5°	3498.4	3502.4	4297.1	9046.6	11791.0	11798.4	9186.0	4809.8	1994.5	891.7
75°	2499.1	2474.6	2878.1	7336.6	10373.6	10456.7	6886.7	2256.2	762.1	421.4
77.5°	1340.0	1366.9	1628.5	4350.9	7166.2	7308.1	3757.5	650.4	388.0	286.9
80°	414.1	436.9	667.6	1992.1	4059.1	4144.7	1393.0	289.4	270.6	204.6
82.5°	130.4	135.3	311.4	837.1	1684.8	1723.9	403.5	163.8	185.0	135.3
85°	37.5	38.3	138.6	312.2	416.5	424.7	113.3	63.6	106.0	84.0
87.5°	4.1	13.0	52.2	52.2	36.7	35.9	12.2	13.9	30.2	10.6
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°
1612.2	0°	1612.2	1612.2	1612.2	1612.2	1612.2	1612.2	1612.2	1612.2	1612.2	1612.2
1619.6	2.5°	1615.5	1616.3	1605.7	1587.8	1568.2	1551.9	1531.5	1515.2	1503.8	1500.6
1634.2	5°	1626.9	1621.2	1591.0	1536.4	1471.2	1415.0	1352.2	1302.5	1269.9	1256.0
1649.7	7.5°	1644.0	1627.7	1561.7	1454.1	1329.4	1218.6	1106.1	1018.9	963.4	935.7
1664.4	10°	1658.7	1626.1	1512.8	1335.1	1144.4	976.5	824.9	719.7	661.0	633.3
1681.5	12.5°	1672.6	1625.3	1449.2	1194.1	935.7	730.3	589.3	537.1	520.8	515.1
1709.2	15°	1698.6	1627.7	1369.3	1032.7	727.9	551.8	500.5	499.6	502.9	501.3
1751.6	17.5°	1734.5	1630.2	1278.9	861.5	561.6	486.6	484.2	491.5	496.4	493.9
1804.6	20°	1781.0	1640.0	1182.7	692.0	482.5	470.3	476.0	482.5	486.6	482.5
1875.5	22.5°	1846.2	1657.1	1077.5	555.9	457.3	460.5	465.4	472.8	476.8	471.1
1966.0	25°	1926.0	1684.0	974.0	483.3	445.0	449.1	456.4	464.6	469.5	463.8
2080.1	27.5°	2029.6	1727.2	878.7	467.0	432.8	435.3	445.9	458.1	464.6	457.3
2242.3	30°	2179.5	1798.1	796.3	474.4	425.5	419.8	434.4	451.6	458.9	452.4
2463.2	32.5°	2378.4	1898.3	745.8	485.8	422.2	401.8	415.7	437.7	449.9	445.9
2751.7	35°	2639.2	2050.8	726.2	498.8	419.8	383.1	392.9	416.5	437.7	441.8
3115.3	37.5°	2955.5	2262.7	731.9	504.5	412.4	367.6	372.5	392.9	420.6	433.6
3524.4	40°	3315.0	2509.7	764.6	498.8	404.3	354.6	355.4	370.9	395.3	414.9
3964.6	42.5°	3685.8	2798.2	824.9	477.6	396.9	343.2	340.7	351.3	367.6	381.5
4403.9	45°	4038.8	3094.9	884.4	448.3	388.0	331.7	326.0	330.1	333.4	339.1
4831.8	47.5°	4346.9	3303.5	867.3	421.4	375.8	318.7	308.9	307.3	297.5	296.7
5214.1	50°	4559.6	3349.2	770.3	394.5	357.8	304.0	288.5	278.8	261.6	253.5
5500.2	52.5°	4627.2	3169.1	629.2	367.6	328.5	284.5	262.5	247.0	225.8	218.4
5664.8	55°	4537.6	2816.1	502.9	335.0	287.7	258.4	233.9	213.6	196.4	187.5
5682.8	57.5°	4318.3	2367.0	397.8	296.7	244.5	229.0	204.6	184.2	169.5	160.6
5483.9	60°	3954.8	1879.6	314.6	251.0	208.7	197.3	172.0	158.9	145.9	135.3
4970.4	62.5°	3403.0	1341.6	247.0	198.9	174.4	161.4	146.7	136.9	121.4	106.8
4046.9	65°	2655.6	820.8	190.7	145.9	140.2	133.7	124.7	115.7	97.0	82.3
2640.1	67.5°	1675.0	388.8	136.1	110.0	110.9	107.6	103.5	96.2	82.3	69.3
1182.7	70°	737.7	188.3	89.7	84.0	82.3	82.3	85.6	83.1	70.1	57.9
410.8	72.5°	251.0	101.1	66.8	63.6	59.5	58.7	71.7	69.3	56.2	44.8
204.6	75°	131.2	67.7	48.9	45.6	35.9	43.2	57.1	53.8	39.9	29.3
135.3	77.5°	85.6	48.1	33.4	29.3	20.4	28.5	42.4	37.5	23.6	14.7
88.8	80°	53.8	31.8	19.6	13.9	9.8	15.5	22.8	16.3	9.0	3.3
52.2	82.5°	28.5	16.3	7.3	4.9	4.1	4.9	5.7	4.1	1.6	0.0
26.9	85°	11.4	5.7	2.4	1.6	0.8	0.0	1.6	0.8	0.0	0.0
4.9	87.5°	4.1	0.8	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>
1612.2
1506.3
1260.9
939.8
634.1
513.5
500.5
493.1
481.7
470.3
463.0
457.3
451.6
445.9
441.8
436.9
421.4
387.2
342.3
295.9
254.3
217.6
187.5
158.9
132.9
104.3
79.9
67.7
55.4
42.4
26.9
13.0
2.4
0.0
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