

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: P941558

Luminaire Tested: **GALN-SB5A-927-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941558  
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-927-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

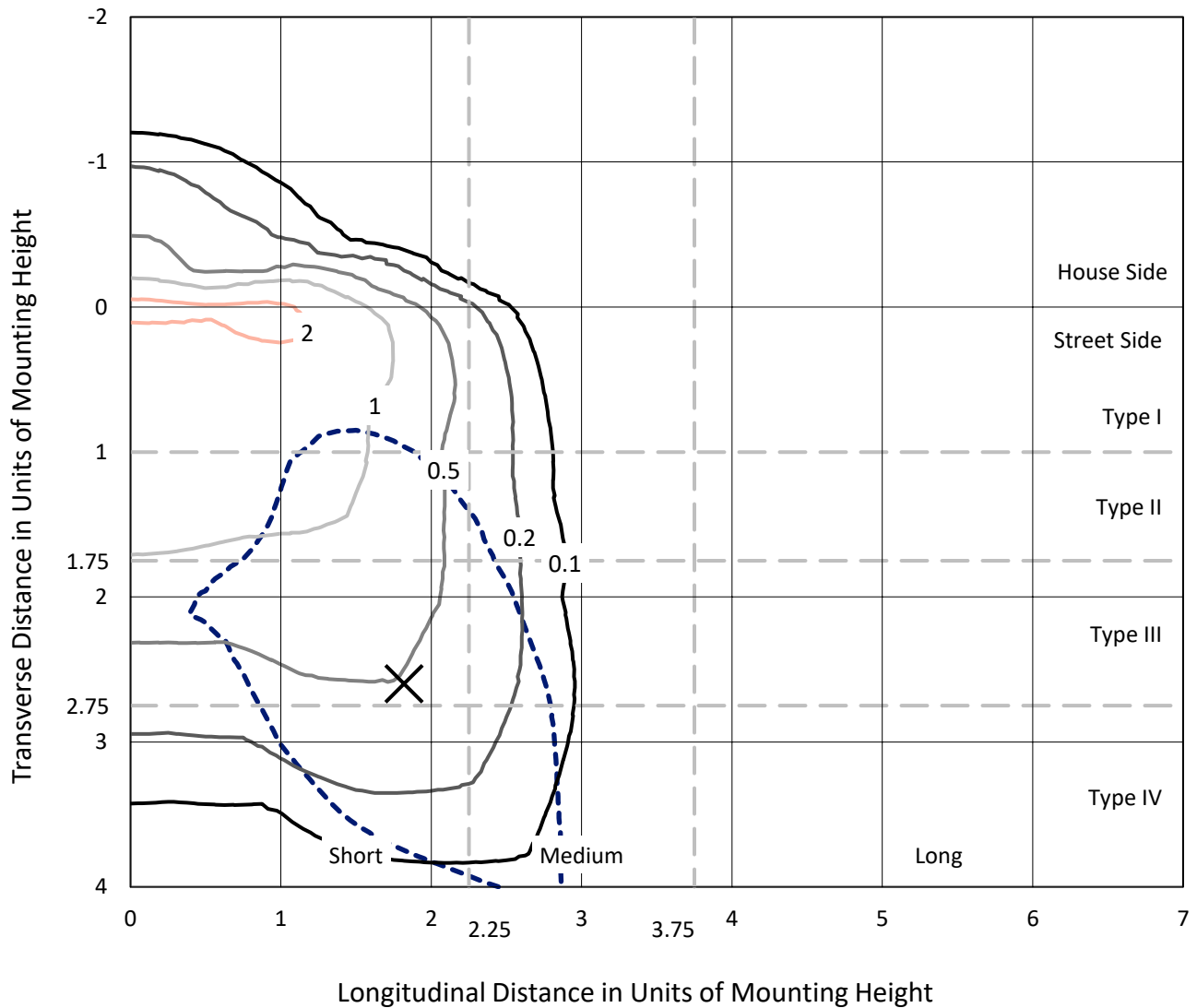
Lumens per Lamp: N/A  
Luminaire Lumens: 10443 lumens  
Efficiency: N/A  
Efficacy: 73.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

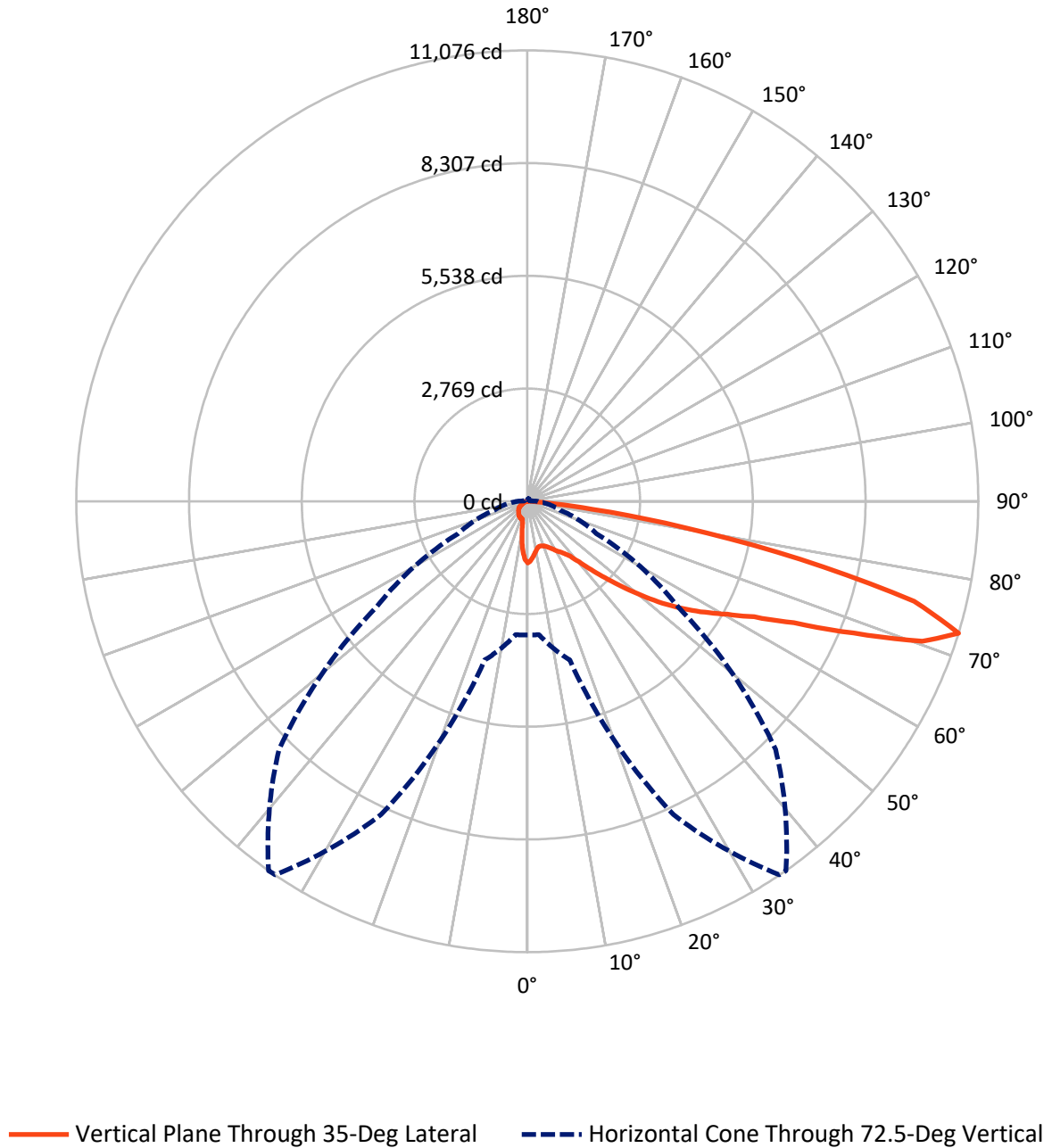
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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	1175.3	0.0	1175.3
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	9267.7	0.0	9267.7
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	10443.0	0.0	10443.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.4	1.2
10°-20°	291.0	2.8
20°-30°	472.6	4.5
30°-40°	788.6	7.6
40°-50°	1492.1	14.3
50°-60°	2370.9	22.7
60°-70°	2933.0	28.1
70°-80°	1823.1	17.5
80°-90°	147.3	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°	10443.0	100.0
0°-180°	10443.0	100.0

**Coefficient of Utilization**



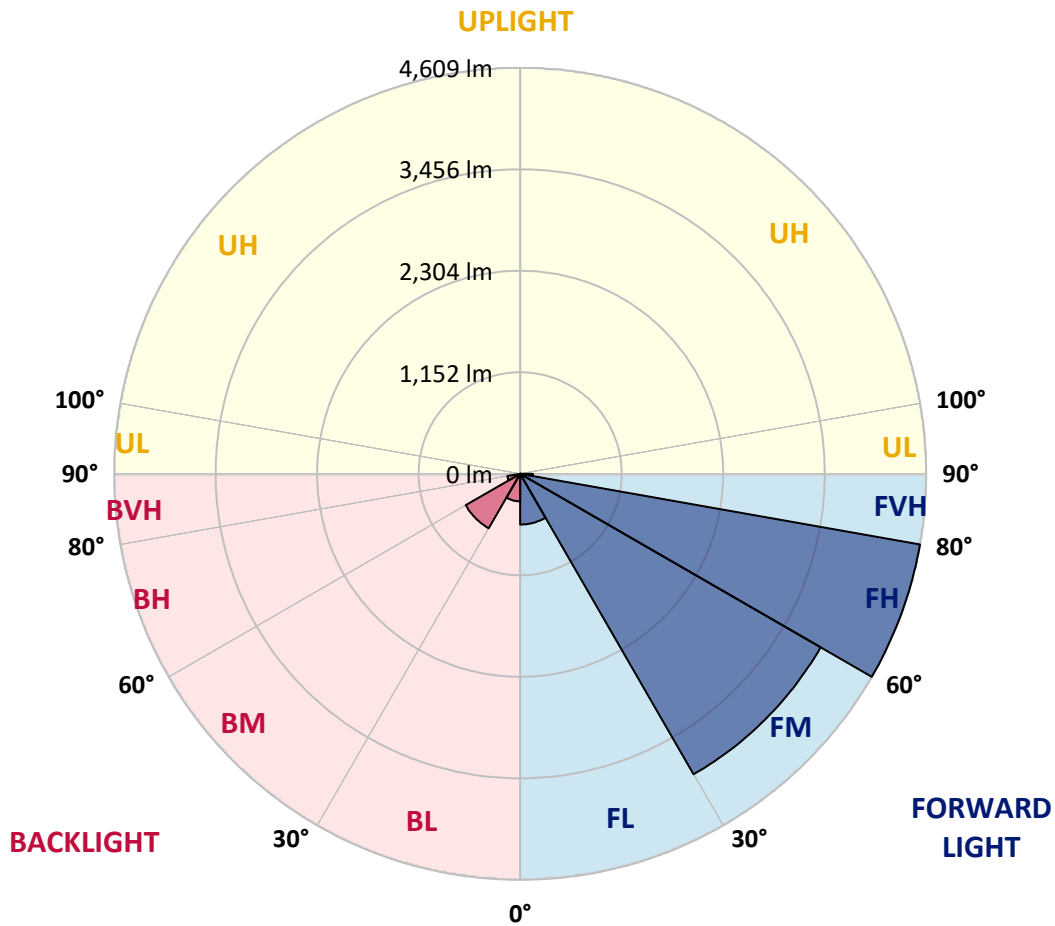
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	575.7	5.5			
FM (30°-60°)	3938.1	37.7			
FH (60°-80°)	4608.6	44.1			G2/5000
FVH (80°-90°)	145.3	1.4			G2/225
BL (0°-30°)	312.3	3.0	B1/500		
BM (30°-60°)	713.5	6.8	B1/1000		
BH (60°-80°)	147.5	1.4	B1/500		G1/500
BVH (80°-90°)	2.0	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°	1513.5	1513.5	1513.5	1513.5	1513.5	1513.5	1513.5	1513.5	1513.5	1513.5
2.5°	1446.2	1458.4	1460.7	1464.6	1464.6	1469.2	1476.8	1487.5	1505.1	1514.3
5°	1333.0	1342.1	1353.6	1362.8	1380.4	1382.7	1412.5	1441.6	1482.2	1512.8
7.5°	1218.9	1229.7	1245.0	1267.2	1290.1	1297.0	1342.1	1391.1	1455.4	1512.8
10°	1138.6	1139.4	1153.1	1175.3	1212.1	1220.5	1275.6	1345.2	1425.5	1503.6
12.5°	1093.5	1098.8	1104.9	1121.8	1157.0	1162.3	1221.2	1303.1	1395.7	1498.2
15°	1093.5	1097.3	1101.1	1109.5	1137.8	1142.4	1194.5	1276.3	1380.4	1500.5
17.5°	1104.9	1111.1	1108.0	1117.9	1147.8	1150.8	1196.8	1268.7	1379.6	1515.1
20°	1132.5	1137.1	1130.9	1137.1	1166.9	1173.0	1220.5	1283.2	1392.6	1540.3
22.5°	1176.1	1178.4	1163.9	1168.4	1199.0	1206.7	1261.8	1324.5	1424.0	1580.9
25°	1231.2	1235.8	1213.6	1218.9	1248.0	1257.2	1320.7	1386.5	1473.8	1636.7
27.5°	1294.7	1297.0	1277.9	1277.1	1314.6	1327.6	1391.9	1463.0	1540.3	1707.1
30°	1367.4	1374.3	1355.9	1352.9	1400.3	1411.0	1474.5	1557.2	1638.3	1812.7
32.5°	1424.8	1430.1	1419.4	1427.1	1475.3	1483.7	1574.8	1690.3	1792.1	1962.7
35°	1507.4	1510.5	1486.0	1499.8	1554.9	1576.3	1711.7	1877.0	1985.7	2150.9
37.5°	1806.6	1806.6	1702.5	1634.4	1687.2	1706.4	1899.2	2111.9	2224.4	2403.5
40°	2220.6	2213.7	2061.4	1922.2	1915.3	1952.8	2166.2	2408.0	2532.8	2706.5
42.5°	2662.1	2651.4	2444.0	2306.3	2283.3	2296.3	2474.6	2773.0	2900.1	3076.1
45°	3053.9	3050.8	2861.0	2675.9	2634.5	2675.9	2859.5	3200.0	3291.1	3476.2
47.5°	3382.1	3382.1	3243.6	3122.7	3101.3	3125.8	3380.6	3673.7	3665.2	3902.5
50°	3760.1	3757.1	3625.5	3573.4	3595.6	3630.0	3980.5	4172.6	4052.4	4321.0
52.5°	4024.9	4043.3	3998.1	3989.7	4102.9	4162.6	4589.6	4660.8	4399.1	4718.1
55°	4234.5	4256.0	4308.0	4366.9	4585.0	4663.1	5179.6	5123.7	4689.1	5062.5
57.5°	4531.4	4500.8	4581.2	4697.5	5050.2	5144.4	5751.1	5560.6	4922.5	5341.8
60°	4891.8	4896.4	4910.2	5057.1	5514.7	5635.6	6314.3	5973.8	5072.4	5513.2
62.5°	5324.9	5331.8	5360.1	5585.9	6138.3	6252.3	6914.2	6312.0	5141.3	5465.0
65°	5295.1	5324.2	5640.2	6412.3	7086.4	7198.9	7614.4	6549.2	5037.2	5024.2
67.5°	4823.7	4871.2	5399.9	7399.4	8515.8	8641.3	8460.7	6595.9	4588.1	3907.0
70°	4205.5	4222.3	4858.2	8287.0	10170.9	10297.9	9218.2	6082.5	3481.6	2179.3
72.5°	3284.2	3288.0	4034.1	8492.8	11069.2	11076.1	8623.7	4515.4	1872.4	837.1
75°	2346.1	2323.1	2701.9	6887.5	9738.5	9816.6	6465.1	2118.0	715.5	395.6
77.5°	1258.0	1283.2	1528.8	4084.6	6727.5	6860.7	3527.5	610.6	364.2	269.3
80°	388.7	410.1	626.7	1870.1	3810.6	3891.0	1307.7	271.6	254.0	192.1
82.5°	122.4	127.0	292.3	785.8	1581.6	1618.4	378.8	153.8	173.7	127.0
85°	35.2	36.0	130.1	293.1	391.0	398.7	106.4	59.7	99.5	78.8
87.5°	3.8	12.2	49.0	49.0	34.4	33.7	11.5	13.0	28.3	9.9
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°
1513.5	0°	1513.5	1513.5	1513.5	1513.5	1513.5	1513.5	1513.5	1513.5	1513.5	1513.5
1520.4	2.5°	1516.6	1517.4	1507.4	1490.6	1472.2	1456.9	1437.8	1422.5	1411.8	1408.7
1534.2	5°	1527.3	1522.0	1493.6	1442.4	1381.2	1328.4	1269.4	1222.8	1192.2	1179.2
1548.7	7.5°	1543.4	1528.1	1466.1	1365.1	1248.0	1144.0	1038.4	956.5	904.5	878.4
1562.5	10°	1557.2	1526.5	1420.2	1253.4	1074.3	916.7	774.4	675.7	620.6	594.6
1578.6	12.5°	1570.2	1525.8	1360.5	1121.0	878.4	685.6	553.2	504.3	489.0	483.6
1604.6	15°	1594.7	1528.1	1285.5	969.5	683.3	518.0	469.8	469.1	472.1	470.6
1644.4	17.5°	1628.3	1530.4	1200.6	808.8	527.2	456.8	454.5	461.4	466.0	463.7
1694.1	20°	1671.9	1539.6	1110.3	649.6	453.0	441.5	446.9	453.0	456.8	453.0
1760.7	22.5°	1733.1	1555.6	1011.6	521.9	429.3	432.3	436.9	443.8	447.6	442.3
1845.6	25°	1808.1	1580.9	914.4	453.8	417.8	421.6	428.5	436.2	440.7	435.4
1952.8	27.5°	1905.3	1621.4	824.9	438.5	406.3	408.6	418.6	430.0	436.2	429.3
2105.0	30°	2046.1	1688.0	747.6	445.3	399.4	394.1	407.8	423.9	430.8	424.7
2312.4	32.5°	2232.8	1782.1	700.1	456.1	396.4	377.2	390.2	410.9	422.4	418.6
2583.3	35°	2477.7	1925.2	681.8	468.3	394.1	359.6	368.8	391.0	410.9	414.7
2924.5	37.5°	2774.6	2124.2	687.1	473.7	387.2	345.1	349.7	368.8	394.8	407.1
3308.7	40°	3112.0	2356.0	717.7	468.3	379.5	332.9	333.6	348.2	371.1	389.5
3721.9	42.5°	3460.2	2626.9	774.4	448.4	372.6	322.1	319.8	329.8	345.1	358.1
4134.3	45°	3791.5	2905.4	830.2	420.9	364.2	311.4	306.1	309.9	313.0	318.3
4536.0	47.5°	4080.7	3101.3	814.2	395.6	352.8	299.2	290.0	288.5	279.3	278.5
4894.9	50°	4280.5	3144.2	723.1	370.4	335.9	285.4	270.9	261.7	245.6	238.0
5163.5	52.5°	4344.0	2975.0	590.7	345.1	308.4	267.1	246.4	231.9	212.0	205.1
5318.1	55°	4259.8	2643.7	472.1	314.5	270.1	242.6	219.6	200.5	184.4	176.0
5334.9	57.5°	4054.0	2222.1	373.4	278.5	229.6	215.0	192.1	172.9	159.2	150.7
5148.2	60°	3712.7	1764.5	295.4	235.7	195.9	185.2	161.5	149.2	137.0	127.0
4666.1	62.5°	3194.7	1259.5	231.9	186.7	163.8	151.5	137.7	128.6	114.0	100.2
3799.2	65°	2493.0	770.5	179.1	137.0	131.6	125.5	117.1	108.7	91.1	77.3
2478.4	67.5°	1572.5	365.0	127.8	103.3	104.1	101.0	97.2	90.3	77.3	65.0
1110.3	70°	692.5	176.8	84.2	78.8	77.3	77.3	80.3	78.0	65.8	54.3
385.7	72.5°	235.7	94.9	62.7	59.7	55.9	55.1	67.3	65.0	52.8	42.1
192.1	75°	123.2	63.5	45.9	42.9	33.7	40.6	53.6	50.5	37.5	27.5
127.0	77.5°	80.3	45.1	31.4	27.5	19.1	26.8	39.8	35.2	22.2	13.8
83.4	80°	50.5	29.8	18.4	13.0	9.2	14.5	21.4	15.3	8.4	3.1
49.0	82.5°	26.8	15.3	6.9	4.6	3.8	4.6	5.4	3.8	1.5	0.0
25.3	85°	10.7	5.4	2.3	1.5	0.8	0.0	1.5	0.8	0.0	0.0
4.6	87.5°	3.8	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>
1513.5
1414.1
1183.7
882.3
595.3
482.1
469.8
462.9
452.2
441.5
434.6
429.3
423.9
418.6
414.7
410.1
395.6
363.5
321.4
277.8
238.7
204.3
176.0
149.2
124.7
97.9
75.0
63.5
52.0
39.8
25.3
12.2
2.3
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