

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: P941048

Luminaire Tested: **GALN-SB4B-927-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941048
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-927-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 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: 10401 lumens
Efficiency: N/A
Efficacy: 70.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

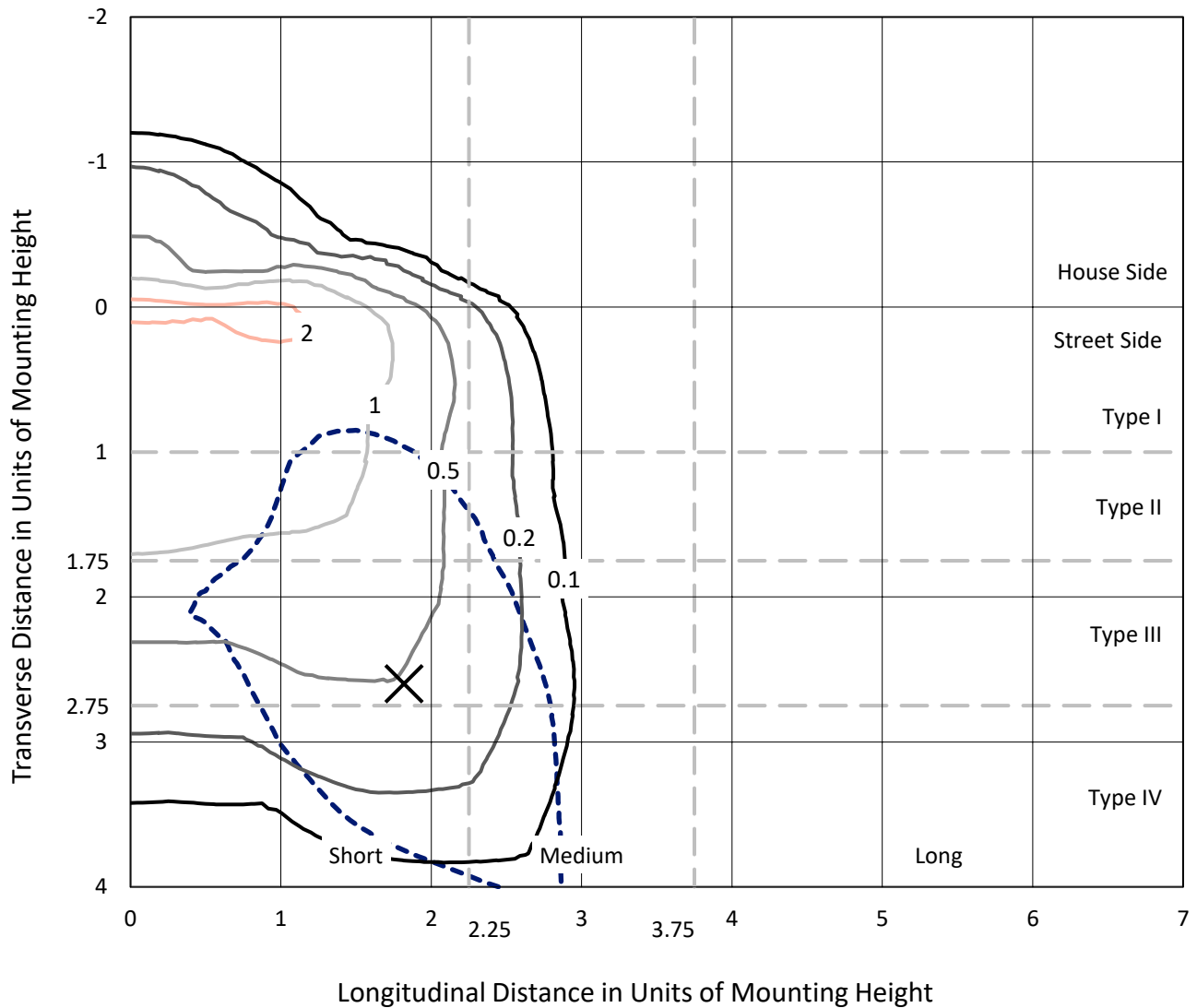
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

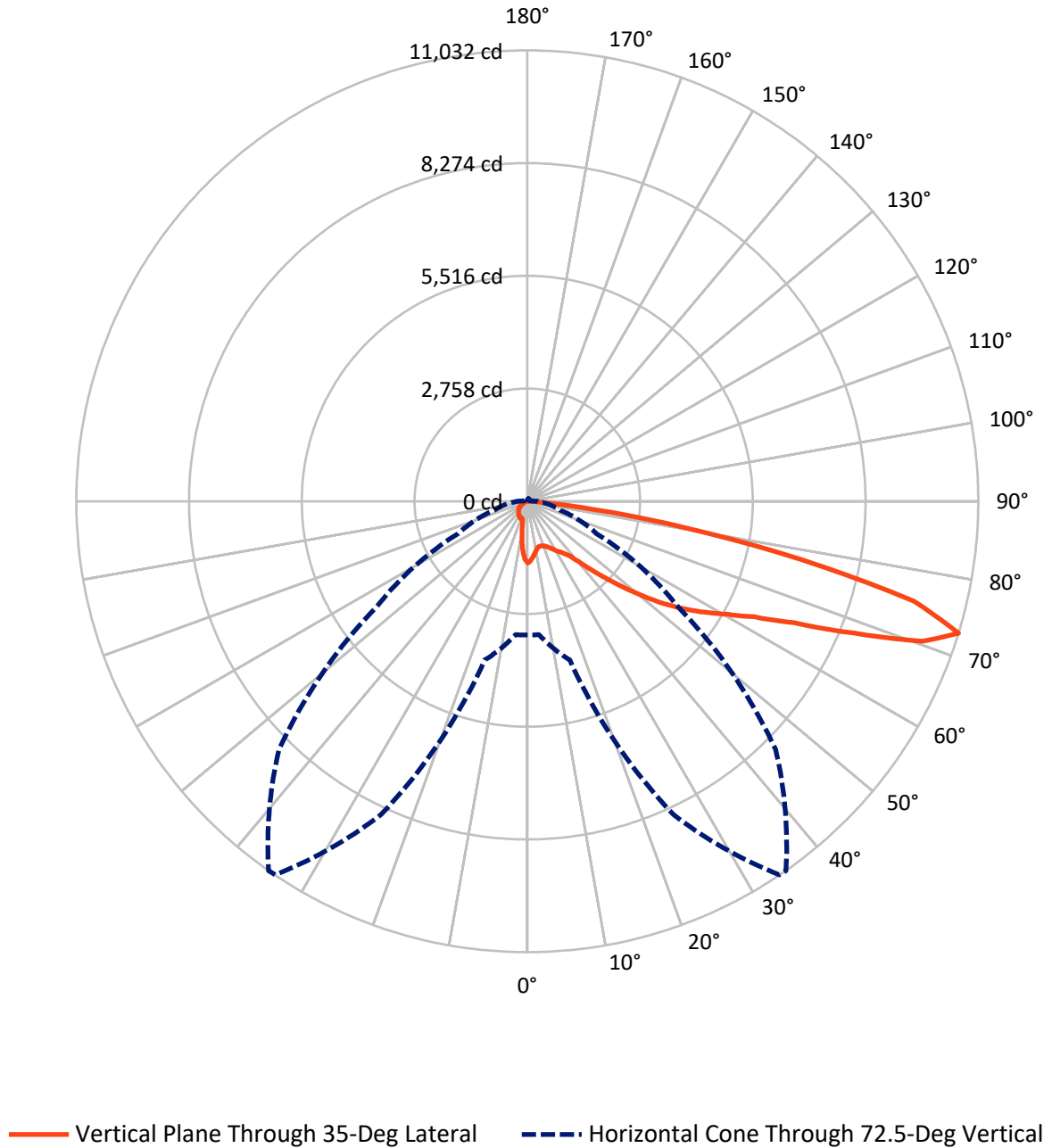
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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	1170.6	0.0	1170.6
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	9230.4	0.0	9230.4
	% Fixture	88.7	0.0	88.7
Total	Lumens	10401.0	0.0	10401.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.9	1.2
10°-20°	289.8	2.8
20°-30°	470.7	4.5
30°-40°	785.4	7.6
40°-50°	1486.1	14.3
50°-60°	2361.4	22.7
60°-70°	2921.2	28.1
70°-80°	1815.8	17.5
80°-90°	146.7	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°	10401.0	100.0
0°-180°	10401.0	100.0

Coefficient of Utilization



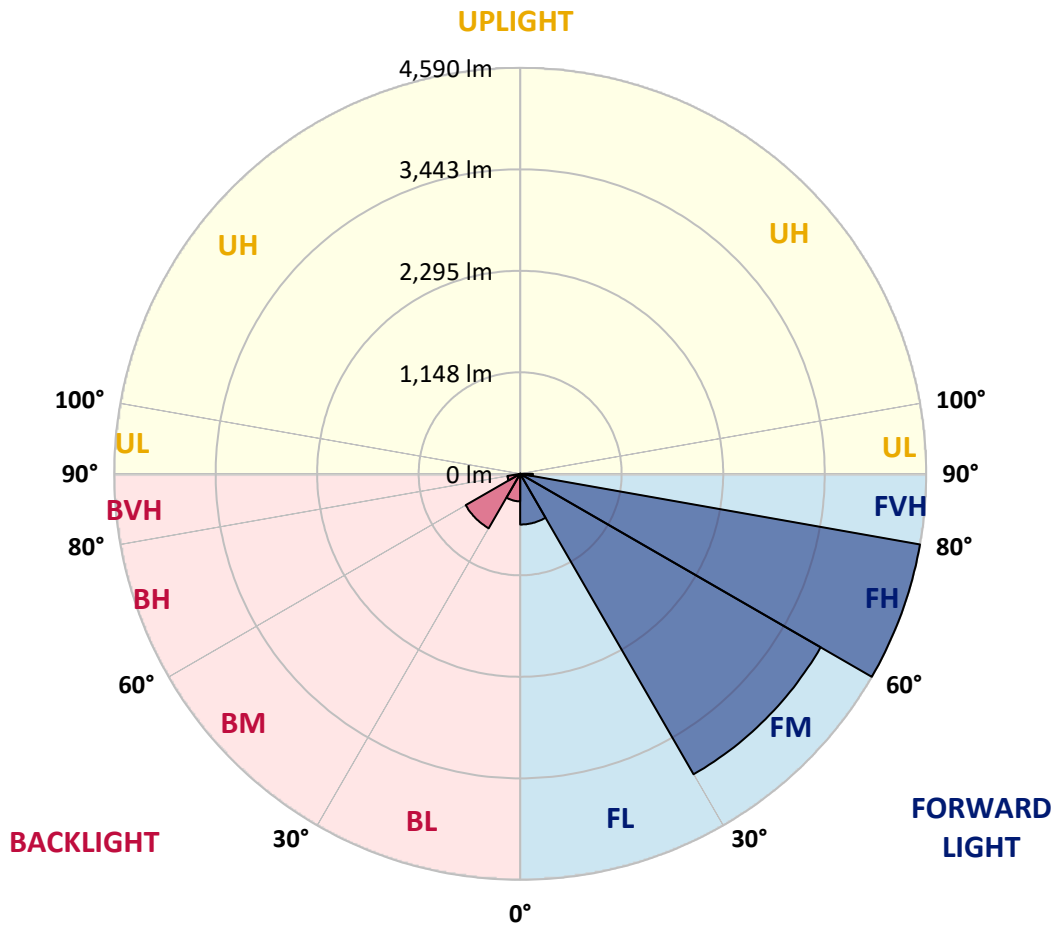
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	573.4	5.5			
FM (30°-60°)	3922.2	37.7			
FH (60°-80°)	4590.1	44.1			G2/5000
FVH (80°-90°)	144.8	1.4			G2/225
BL (0°-30°)	311.0	3.0	B1/500		
BM (30°-60°)	710.6	6.8	B1/1000		
BH (60°-80°)	146.9	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°	1507.5	1507.5	1507.5	1507.5	1507.5	1507.5	1507.5	1507.5	1507.5	1507.5
2.5°	1440.4	1452.6	1454.9	1458.7	1458.7	1463.3	1470.9	1481.5	1499.1	1508.2
5°	1327.6	1336.7	1348.2	1357.3	1374.8	1377.1	1406.9	1435.8	1476.2	1506.7
7.5°	1214.0	1224.7	1240.0	1262.1	1284.9	1291.8	1336.7	1385.5	1449.5	1506.7
10°	1134.0	1134.8	1148.5	1170.6	1207.2	1215.6	1270.4	1339.8	1419.8	1497.5
12.5°	1089.1	1094.4	1100.5	1117.3	1152.3	1157.6	1216.3	1297.9	1390.1	1492.2
15°	1089.1	1092.9	1096.7	1105.1	1133.3	1137.8	1189.7	1271.2	1374.8	1494.5
17.5°	1100.5	1106.6	1103.5	1113.4	1143.2	1146.2	1191.9	1263.6	1374.1	1509.0
20°	1127.9	1132.5	1126.4	1132.5	1162.2	1168.3	1215.6	1278.1	1387.0	1534.1
22.5°	1171.4	1173.6	1159.2	1163.7	1194.2	1201.8	1256.7	1319.2	1418.3	1574.5
25°	1226.2	1230.8	1208.7	1214.0	1243.0	1252.1	1315.4	1380.9	1467.8	1630.2
27.5°	1289.5	1291.8	1272.7	1272.0	1309.3	1322.3	1386.3	1457.2	1534.1	1700.3
30°	1361.9	1368.7	1350.5	1347.4	1394.7	1405.3	1468.6	1550.9	1631.7	1805.4
32.5°	1419.0	1424.4	1413.7	1421.3	1469.3	1477.7	1568.4	1683.5	1784.9	1954.8
35°	1501.4	1504.4	1480.0	1493.7	1548.6	1569.9	1704.8	1869.5	1977.7	2142.3
37.5°	1799.3	1799.3	1695.7	1627.9	1680.5	1699.5	1891.6	2103.4	2215.5	2393.8
40°	2211.6	2204.8	2053.1	1914.4	1907.6	1944.9	2157.5	2398.4	2522.6	2695.6
42.5°	2651.4	2640.7	2434.2	2297.0	2274.1	2287.1	2464.7	2761.9	2888.4	3063.7
45°	3041.6	3038.5	2849.5	2665.1	2623.9	2665.1	2848.0	3187.1	3277.8	3462.3
47.5°	3368.5	3368.5	3230.6	3110.2	3088.8	3113.2	3367.0	3658.9	3650.5	3886.8
50°	3745.0	3742.0	3610.9	3559.1	3581.2	3615.4	3964.5	4155.8	4036.1	4303.6
52.5°	4008.7	4027.0	3982.0	3973.6	4086.4	4145.9	4571.1	4642.0	4381.4	4699.2
55°	4217.5	4238.9	4290.7	4349.4	4566.6	4644.3	5158.7	5103.1	4670.2	5042.1
57.5°	4513.2	4482.7	4562.8	4678.6	5029.9	5123.7	5728.0	5538.3	4902.7	5320.3
60°	4872.2	4876.7	4890.5	5036.8	5492.5	5612.9	6288.9	5949.8	5052.0	5491.0
62.5°	5303.5	5310.4	5338.6	5563.4	6113.6	6227.2	6886.4	6286.6	5120.6	5443.0
65°	5273.8	5302.8	5617.5	6386.5	7057.9	7169.9	7583.8	6522.9	5017.0	5004.0
67.5°	4804.3	4851.6	5378.2	7369.6	8481.5	8606.5	8426.7	6569.4	4569.6	3891.3
70°	4188.6	4205.3	4838.6	8253.7	10130.0	10256.5	9181.1	6058.0	3467.6	2170.5
72.5°	3271.0	3274.8	4017.8	8458.7	11024.7	11031.5	8589.0	4497.2	1864.9	833.7
75°	2336.6	2313.8	2691.0	6859.8	9699.4	9777.1	6439.1	2109.5	712.6	394.0
77.5°	1252.9	1278.1	1522.7	4068.1	6700.5	6833.1	3513.3	608.2	362.8	268.3
80°	387.2	408.5	624.2	1862.6	3795.3	3875.3	1302.4	270.5	253.0	191.3
82.5°	121.9	126.5	291.1	782.7	1575.3	1611.9	377.2	153.2	173.0	126.5
85°	35.1	35.8	129.6	291.9	389.4	397.1	105.9	59.4	99.1	78.5
87.5°	3.8	12.2	48.8	48.8	34.3	33.5	11.4	13.0	28.2	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°
1507.5	0°	1507.5	1507.5	1507.5	1507.5	1507.5	1507.5	1507.5	1507.5	1507.5	1507.5
1514.3	2.5°	1510.5	1511.3	1501.4	1484.6	1466.3	1451.1	1432.0	1416.8	1406.1	1403.0
1528.0	5°	1521.2	1515.8	1487.6	1436.6	1375.6	1323.0	1264.3	1217.9	1187.4	1174.4
1542.5	7.5°	1537.2	1521.9	1460.2	1359.6	1243.0	1139.4	1034.2	952.6	900.8	874.9
1556.2	10°	1550.9	1520.4	1414.5	1248.3	1070.0	913.0	771.3	672.9	618.1	592.2
1572.2	12.5°	1563.8	1519.6	1355.0	1116.5	874.9	682.9	551.0	502.2	487.0	481.7
1598.1	15°	1588.2	1521.9	1280.3	965.6	680.6	515.9	467.9	467.2	470.2	468.7
1637.8	17.5°	1621.8	1524.2	1195.8	805.6	525.1	455.0	452.7	459.6	464.1	461.8
1687.3	20°	1665.2	1533.4	1105.8	647.0	451.2	439.7	445.1	451.2	455.0	451.2
1753.6	22.5°	1726.2	1549.4	1007.5	519.8	427.5	430.6	435.2	442.0	445.8	440.5
1838.2	25°	1800.9	1574.5	910.7	451.9	416.1	419.9	426.8	434.4	439.0	433.6
1944.9	27.5°	1897.7	1614.9	821.6	436.7	404.7	407.0	416.9	428.3	434.4	427.5
2096.6	30°	2037.9	1681.2	744.6	443.5	397.8	392.5	406.2	422.2	429.1	423.0
2303.1	32.5°	2223.8	1775.0	697.3	454.2	394.8	375.7	388.7	409.3	420.7	416.9
2572.9	35°	2467.7	1917.5	679.0	466.4	392.5	358.2	367.3	389.4	409.3	413.1
2912.8	37.5°	2763.4	2115.6	684.4	471.7	385.6	343.7	348.3	367.3	393.2	405.4
3295.4	40°	3099.5	2346.5	714.9	466.4	378.0	331.5	332.3	346.8	369.6	387.9
3706.9	42.5°	3446.3	2616.3	771.3	446.6	371.1	320.8	318.6	328.5	343.7	356.7
4117.7	45°	3776.3	2893.7	826.9	419.2	362.8	310.2	304.8	308.7	311.7	317.0
4517.8	47.5°	4064.3	3088.8	810.9	394.0	351.3	298.0	288.8	287.3	278.2	277.4
4875.2	50°	4263.2	3131.5	720.2	368.9	334.6	284.3	269.8	260.6	244.6	237.0
5142.7	52.5°	4326.5	2963.1	588.3	343.7	307.1	266.0	245.4	230.9	211.1	204.2
5296.7	55°	4242.7	2633.1	470.2	313.2	269.0	241.6	218.7	199.7	183.7	175.3
5313.4	57.5°	4037.7	2213.2	371.9	277.4	228.6	214.2	191.3	172.2	158.5	150.1
5127.5	60°	3697.8	1757.4	294.2	234.7	195.1	184.4	160.8	148.6	136.4	126.5
4647.3	62.5°	3181.8	1254.4	230.9	186.0	163.1	150.9	137.2	128.0	113.6	99.8
3783.9	65°	2483.0	767.4	178.3	136.4	131.1	125.0	116.6	108.2	90.7	77.0
2468.5	67.5°	1566.1	363.5	127.3	102.9	103.6	100.6	96.8	89.9	77.0	64.8
1105.8	70°	689.7	176.0	83.8	78.5	77.0	77.0	80.0	77.7	65.5	54.1
384.1	72.5°	234.7	94.5	62.5	59.4	55.6	54.9	67.1	64.8	52.6	41.9
191.3	75°	122.7	63.3	45.7	42.7	33.5	40.4	53.3	50.3	37.3	27.4
126.5	77.5°	80.0	45.0	31.2	27.4	19.1	26.7	39.6	35.1	22.1	13.7
83.1	80°	50.3	29.7	18.3	13.0	9.1	14.5	21.3	15.2	8.4	3.0
48.8	82.5°	26.7	15.2	6.9	4.6	3.8	4.6	5.3	3.8	1.5	0.0
25.1	85°	10.7	5.3	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>
1507.5
1408.4
1179.0
878.7
592.9
480.1
467.9
461.1
450.4
439.7
432.9
427.5
422.2
416.9
413.1
408.5
394.0
362.0
320.1
276.6
237.8
203.5
175.3
148.6
124.2
97.6
74.7
63.3
51.8
39.6
25.1
12.2
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