

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: P940068

Luminaire Tested: **GALN-SB2D-950-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940068
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-SB2D-950-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 5000K, 900mA 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: 10719 lumens
Efficiency: N/A
Efficacy: 72.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

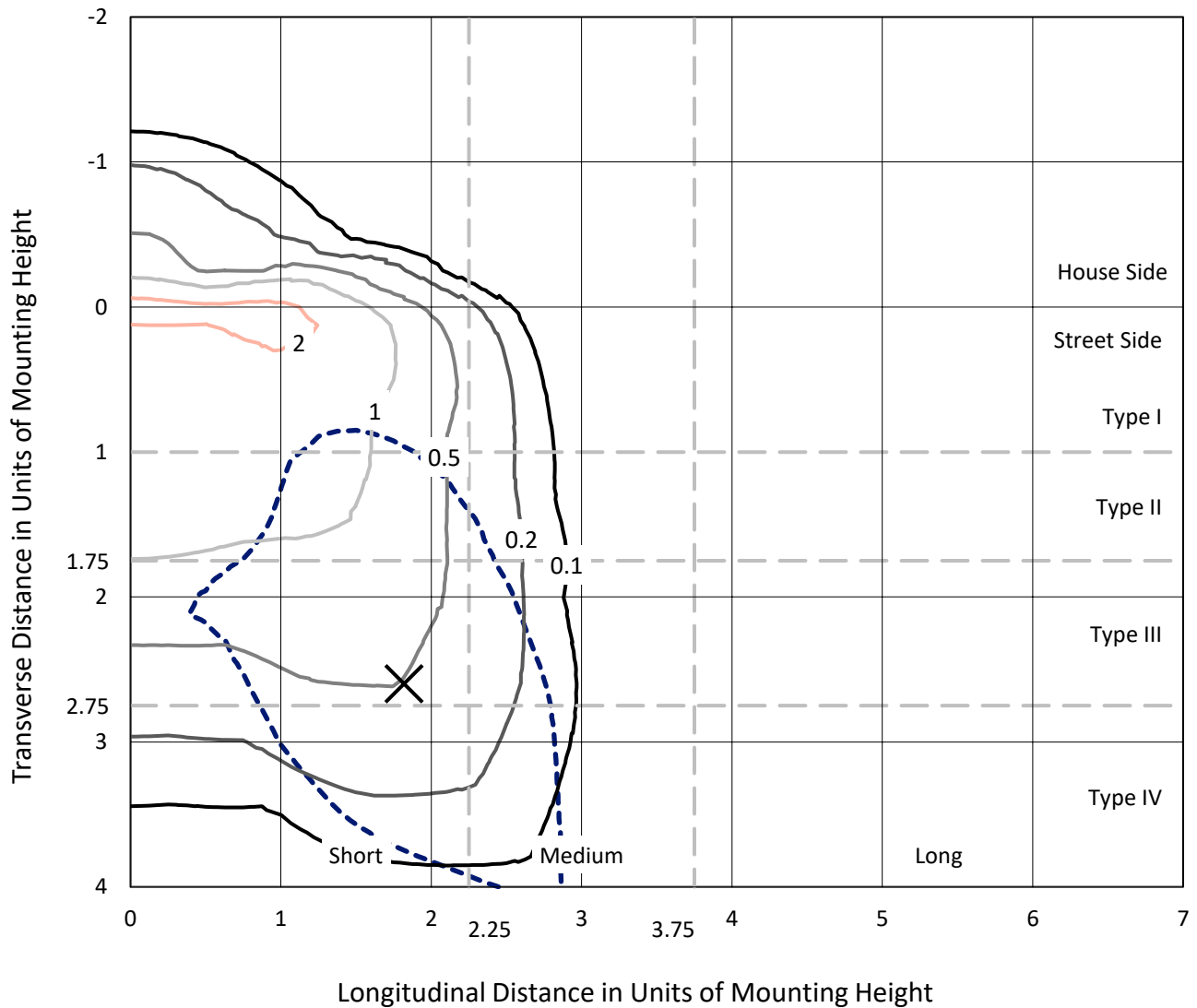
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

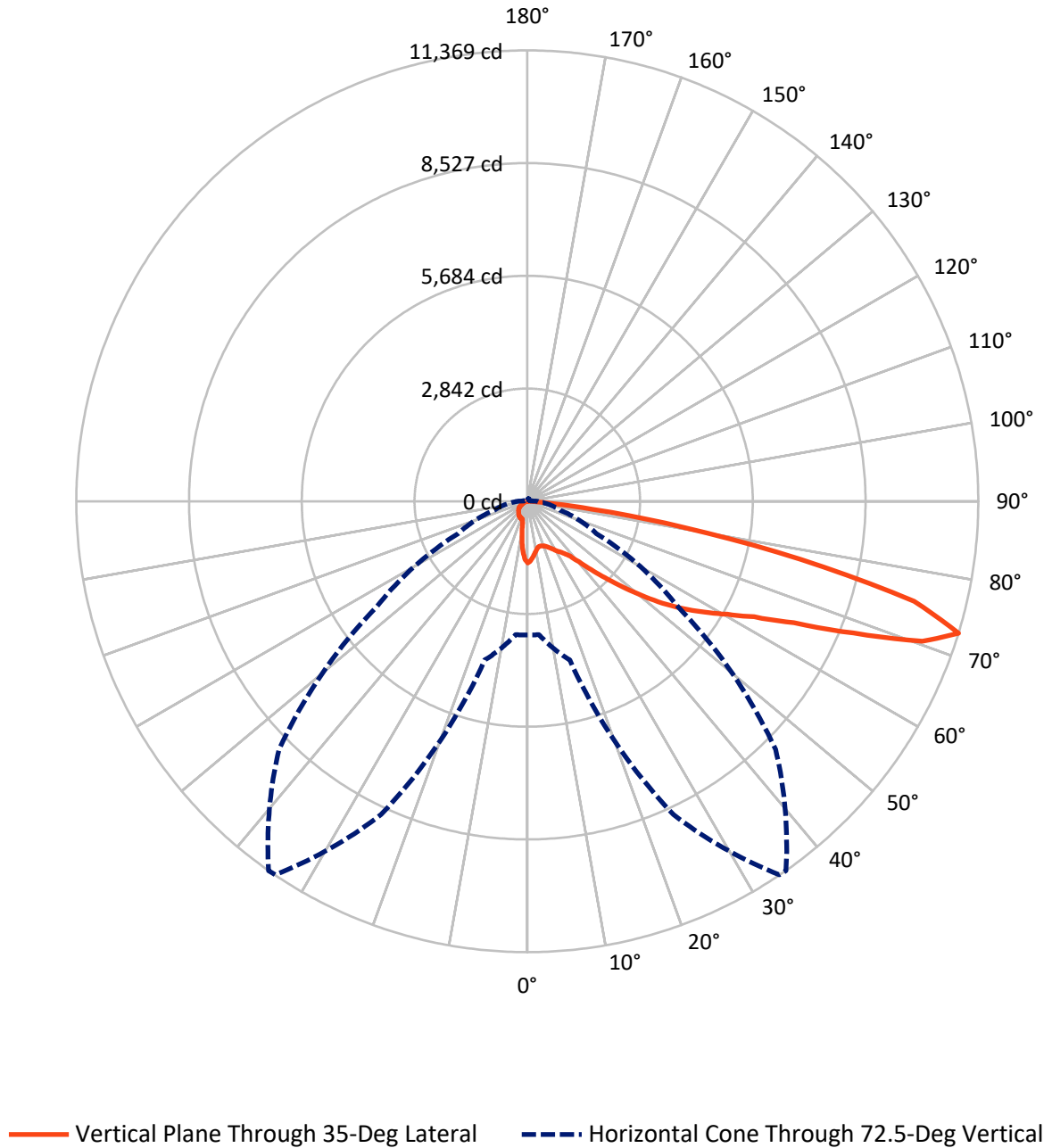
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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	1206.4	0.0	1206.4
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	9512.6	0.0	9512.6
	% Fixture	88.7	0.0	88.7
Total	Lumens	10719.0	0.0	10719.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.7	1.2
10°-20°	298.6	2.8
20°-30°	485.1	4.5
30°-40°	809.5	7.6
40°-50°	1531.5	14.3
50°-60°	2433.6	22.7
60°-70°	3010.5	28.1
70°-80°	1871.3	17.5
80°-90°	151.2	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°	10719.0	100.0
0°-180°	10719.0	100.0

Coefficient of Utilization



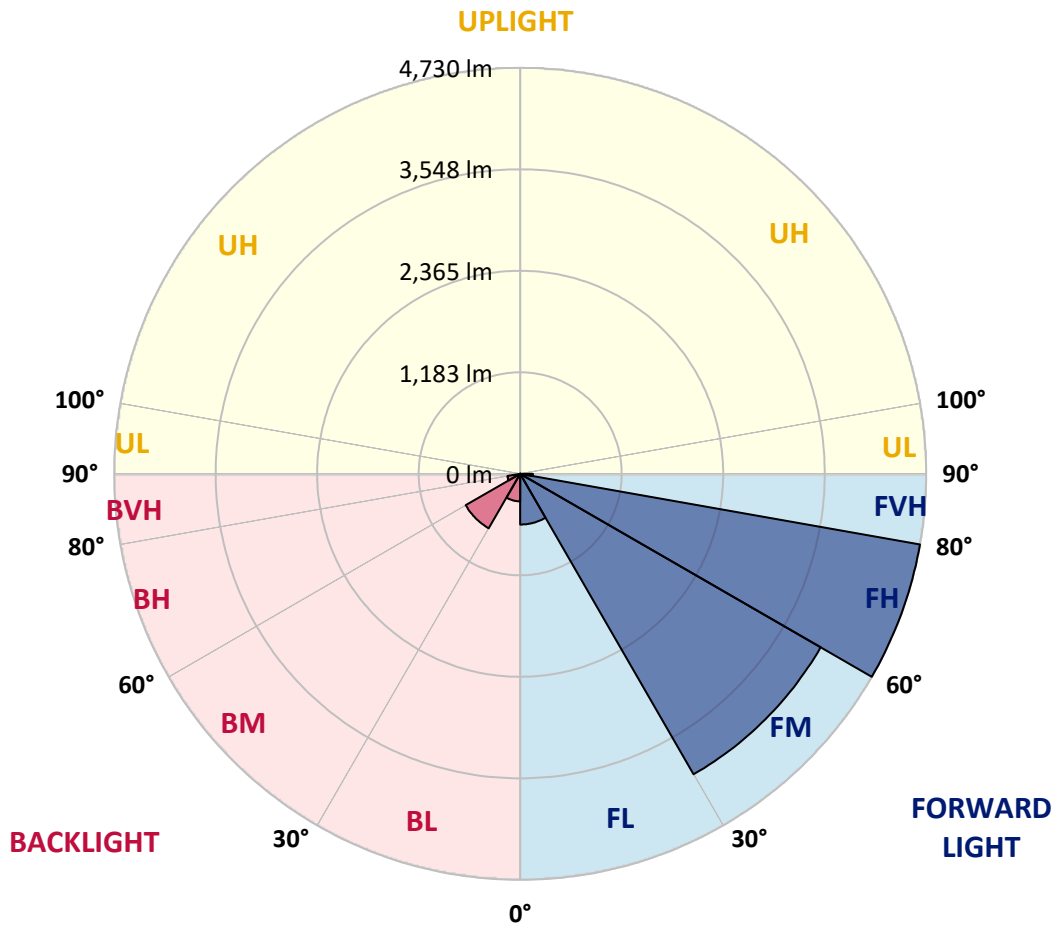
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	590.9	5.5			
FM	(30°-60°)	4042.1	37.7			
FH	(60°-80°)	4730.4	44.1			G2/5000
FVH	(80°-90°)	149.2	1.4			G2/225
BL	(0°-30°)	320.6	3.0	B1/500		
BM	(30°-60°)	732.4	6.8	B1/1000		
BH	(60°-80°)	151.4	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°	1553.5	1553.5	1553.5	1553.5	1553.5	1553.5	1553.5	1553.5	1553.5	1553.5
2.5°	1484.4	1497.0	1499.3	1503.3	1503.3	1508.0	1515.8	1526.8	1544.9	1554.3
5°	1368.2	1377.6	1389.4	1398.8	1416.9	1419.2	1449.9	1479.7	1521.3	1552.8
7.5°	1251.2	1262.2	1277.9	1300.6	1324.2	1331.3	1377.6	1427.9	1493.9	1552.8
10°	1168.7	1169.5	1183.6	1206.4	1244.1	1252.7	1309.3	1380.8	1463.2	1543.3
12.5°	1122.4	1127.8	1134.1	1151.4	1187.5	1193.0	1253.5	1337.6	1432.6	1537.8
15°	1122.4	1126.3	1130.2	1138.8	1167.9	1172.6	1226.0	1310.1	1416.9	1540.2
17.5°	1134.1	1140.4	1137.3	1147.5	1178.1	1181.3	1228.4	1302.2	1416.1	1555.1
20°	1162.4	1167.1	1160.8	1167.1	1197.8	1204.0	1252.7	1317.1	1429.4	1581.0
22.5°	1207.2	1209.5	1194.6	1199.3	1230.7	1238.6	1295.1	1359.5	1461.6	1622.7
25°	1263.7	1268.4	1245.7	1251.2	1281.0	1290.4	1355.6	1423.2	1512.7	1680.0
27.5°	1328.9	1331.3	1311.6	1310.9	1349.3	1362.7	1428.7	1501.7	1581.0	1752.3
30°	1403.5	1410.6	1391.7	1388.6	1437.3	1448.3	1513.5	1598.3	1681.6	1860.6
32.5°	1462.4	1467.9	1456.9	1464.8	1514.3	1522.9	1616.4	1735.0	1839.4	2014.6
35°	1547.3	1550.4	1525.3	1539.4	1596.0	1617.9	1757.0	1926.6	2038.1	2207.8
37.5°	1854.4	1854.4	1747.5	1677.6	1731.8	1751.5	1949.4	2167.7	2283.2	2467.0
40°	2279.3	2272.2	2115.9	1973.0	1965.9	2004.4	2223.5	2471.7	2599.7	2778.0
42.5°	2732.4	2721.4	2508.6	2367.2	2343.7	2357.0	2540.0	2846.3	2976.7	3157.4
45°	3134.6	3131.4	2936.7	2746.6	2704.2	2746.6	2935.1	3284.6	3378.1	3568.1
47.5°	3471.5	3471.5	3329.4	3205.3	3183.3	3208.4	3469.9	3770.8	3762.1	4005.6
50°	3859.5	3856.4	3721.3	3667.9	3690.6	3726.0	4085.7	4282.8	4159.5	4435.2
52.5°	4131.3	4150.1	4103.8	4095.1	4211.4	4272.6	4710.9	4783.9	4515.3	4842.8
55°	4346.5	4368.5	4421.9	4482.3	4706.2	4786.3	5316.4	5259.1	4813.0	5196.3
57.5°	4651.2	4619.8	4702.3	4821.6	5183.7	5280.3	5903.1	5707.6	5052.5	5483.0
60°	5021.1	5025.8	5040.0	5190.8	5660.5	5784.6	6481.2	6131.7	5206.5	5658.9
62.5°	5465.7	5472.7	5501.8	5733.5	6300.6	6417.6	7097.0	6478.9	5277.2	5609.4
65°	5435.0	5464.9	5789.3	6581.7	7273.7	7389.1	7815.6	6722.3	5170.4	5157.0
67.5°	4951.2	4999.9	5542.6	7594.9	8740.8	8869.6	8684.3	6770.2	4709.3	4010.3
70°	4316.6	4333.9	4986.6	8506.0	10439.7	10570.1	9461.8	6243.2	3573.6	2236.8
72.5°	3371.0	3374.9	4140.7	8717.3	11361.8	11368.8	8851.6	4634.7	1921.9	859.2
75°	2408.1	2384.5	2773.3	7069.5	9995.9	10076.0	6635.9	2174.0	734.4	406.1
77.5°	1291.2	1317.1	1569.3	4192.5	6905.3	7042.0	3620.7	626.8	373.9	276.5
80°	399.0	421.0	643.3	1919.5	3911.3	3993.8	1342.3	278.8	260.8	197.1
82.5°	125.7	130.4	300.0	806.6	1623.4	1661.1	388.8	157.9	178.3	130.4
85°	36.1	36.9	133.5	300.8	401.3	409.2	109.2	61.3	102.1	80.9
87.5°	3.9	12.6	50.3	50.3	35.3	34.6	11.8	13.4	29.1	10.2
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°
1553.5	0°	1553.5	1553.5	1553.5	1553.5	1553.5	1553.5	1553.5	1553.5	1553.5	1553.5
1560.6	2.5°	1556.7	1557.5	1547.3	1530.0	1511.1	1495.4	1475.8	1460.1	1449.1	1445.9
1574.7	5°	1567.7	1562.2	1533.1	1480.5	1417.7	1363.5	1303.0	1255.1	1223.7	1210.3
1589.7	7.5°	1584.2	1568.5	1504.8	1401.2	1281.0	1174.2	1065.8	981.8	928.4	901.7
1603.8	10°	1598.3	1566.9	1457.7	1286.5	1102.7	940.9	794.8	693.5	637.0	610.3
1620.3	12.5°	1611.7	1566.1	1396.5	1150.6	901.7	703.7	567.9	517.6	501.9	496.4
1647.0	15°	1636.8	1568.5	1319.5	995.1	701.4	531.7	482.2	481.5	484.6	483.0
1687.8	17.5°	1671.4	1570.8	1232.3	830.2	541.1	468.9	466.5	473.6	478.3	476.0
1738.9	20°	1716.1	1580.2	1139.6	666.8	465.0	453.2	458.7	465.0	468.9	465.0
1807.2	22.5°	1779.0	1596.7	1038.3	535.7	440.6	443.8	448.5	455.5	459.5	454.0
1894.4	25°	1855.9	1622.7	938.6	465.7	428.8	432.8	439.8	447.7	452.4	446.9
2004.4	27.5°	1955.7	1664.3	846.7	450.0	417.1	419.4	429.6	441.4	447.7	440.6
2160.7	30°	2100.2	1732.6	767.3	457.1	410.0	404.5	418.6	435.1	442.2	435.9
2373.5	32.5°	2291.8	1829.2	718.7	468.1	406.8	387.2	400.6	421.8	433.5	429.6
2651.5	35°	2543.2	1976.1	699.8	480.7	404.5	369.1	378.6	401.3	421.8	425.7
3001.8	37.5°	2847.9	2180.3	705.3	486.2	397.4	354.2	358.9	378.6	405.3	417.8
3396.1	40°	3194.3	2418.3	736.7	480.7	389.6	341.7	342.4	357.4	380.9	399.8
3820.2	42.5°	3551.6	2696.3	794.8	460.3	382.5	330.7	328.3	338.5	354.2	367.6
4243.6	45°	3891.7	2982.2	852.2	432.0	373.9	319.7	314.2	318.1	321.2	326.7
4655.9	47.5°	4188.6	3183.3	835.7	406.1	362.1	307.1	297.7	296.1	286.7	285.9
5024.3	50°	4393.6	3227.3	742.2	380.1	344.8	293.0	278.0	268.6	252.1	244.3
5300.0	52.5°	4458.8	3053.7	606.3	354.2	316.5	274.1	252.9	238.0	217.6	210.5
5458.6	55°	4372.4	2713.6	484.6	322.8	277.2	249.0	225.4	205.8	189.3	180.6
5475.9	57.5°	4161.1	2280.8	383.3	285.9	235.6	220.7	197.1	177.5	163.4	154.7
5284.2	60°	3810.8	1811.2	303.2	241.9	201.1	190.1	165.7	153.2	140.6	130.4
4789.4	62.5°	3279.1	1292.8	238.0	191.6	168.1	155.5	141.4	131.9	117.0	102.9
3899.6	65°	2558.9	790.9	183.8	140.6	135.1	128.8	120.2	111.5	93.5	79.3
2543.9	67.5°	1614.0	374.6	131.2	106.0	106.8	103.7	99.7	92.7	79.3	66.8
1139.6	70°	710.8	181.4	86.4	80.9	79.3	79.3	82.5	80.1	67.5	55.8
395.8	72.5°	241.9	97.4	64.4	61.3	57.3	56.5	69.1	66.8	54.2	43.2
197.1	75°	126.5	65.2	47.1	44.0	34.6	41.6	55.0	51.8	38.5	28.3
130.4	77.5°	82.5	46.3	32.2	28.3	19.6	27.5	40.8	36.1	22.8	14.1
85.6	80°	51.8	30.6	18.8	13.4	9.4	14.9	22.0	15.7	8.6	3.1
50.3	82.5°	27.5	15.7	7.1	4.7	3.9	4.7	5.5	3.9	1.6	0.0
25.9	85°	11.0	5.5	2.4	1.6	0.8	0.0	1.6	0.8	0.0	0.0
4.7	87.5°	3.9	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>
1553.5
1451.4
1215.0
905.6
611.0
494.8
482.2
475.2
464.2
453.2
446.1
440.6
435.1
429.6
425.7
421.0
406.1
373.1
329.9
285.1
245.0
209.7
180.6
153.2
128.0
100.5
77.0
65.2
53.4
40.8
25.9
12.6
2.4
0.0
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