

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: P940178

Luminaire Tested: **GALN-SB3A-840-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940178
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-SB3A-840-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 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: 9747 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

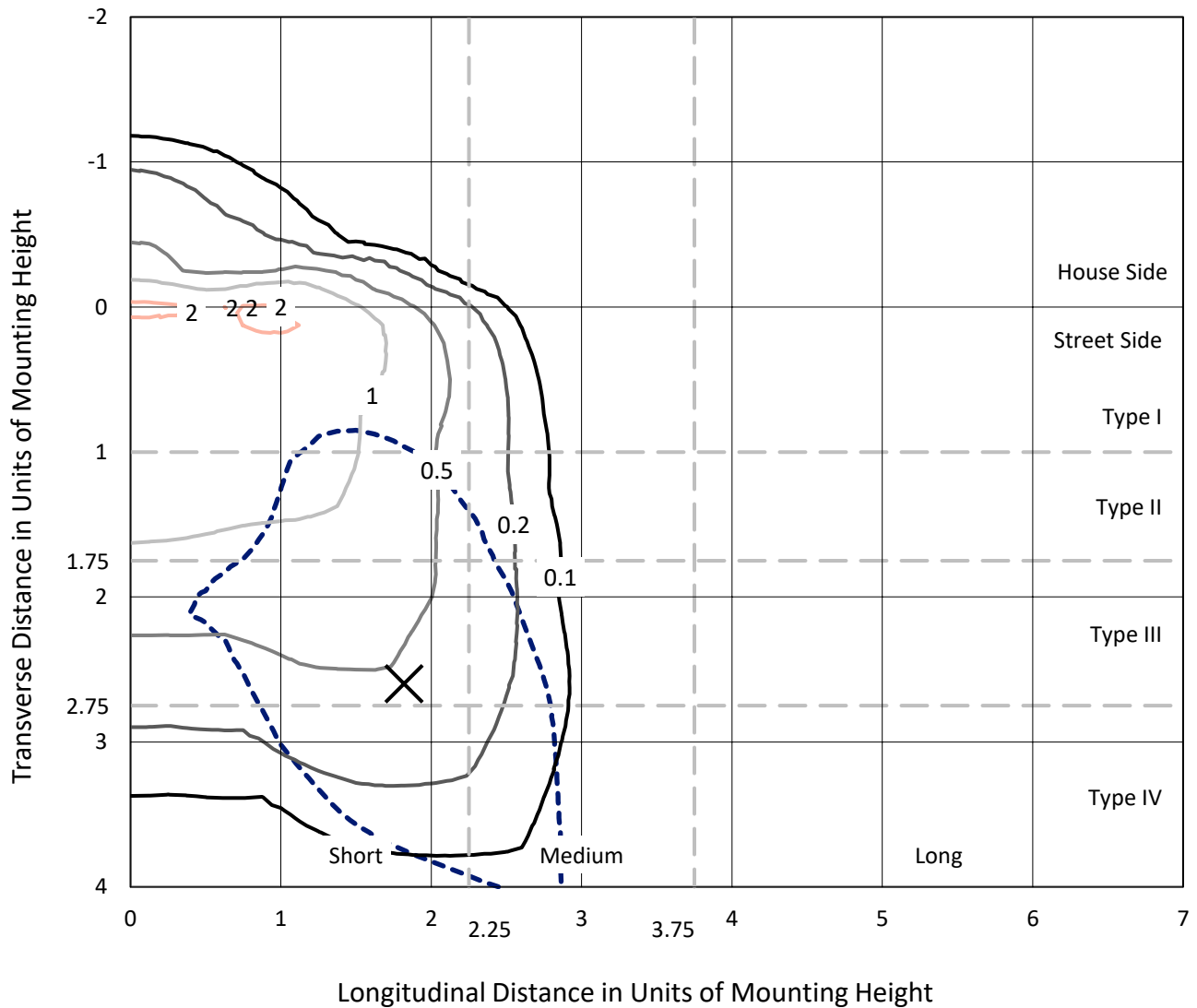
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

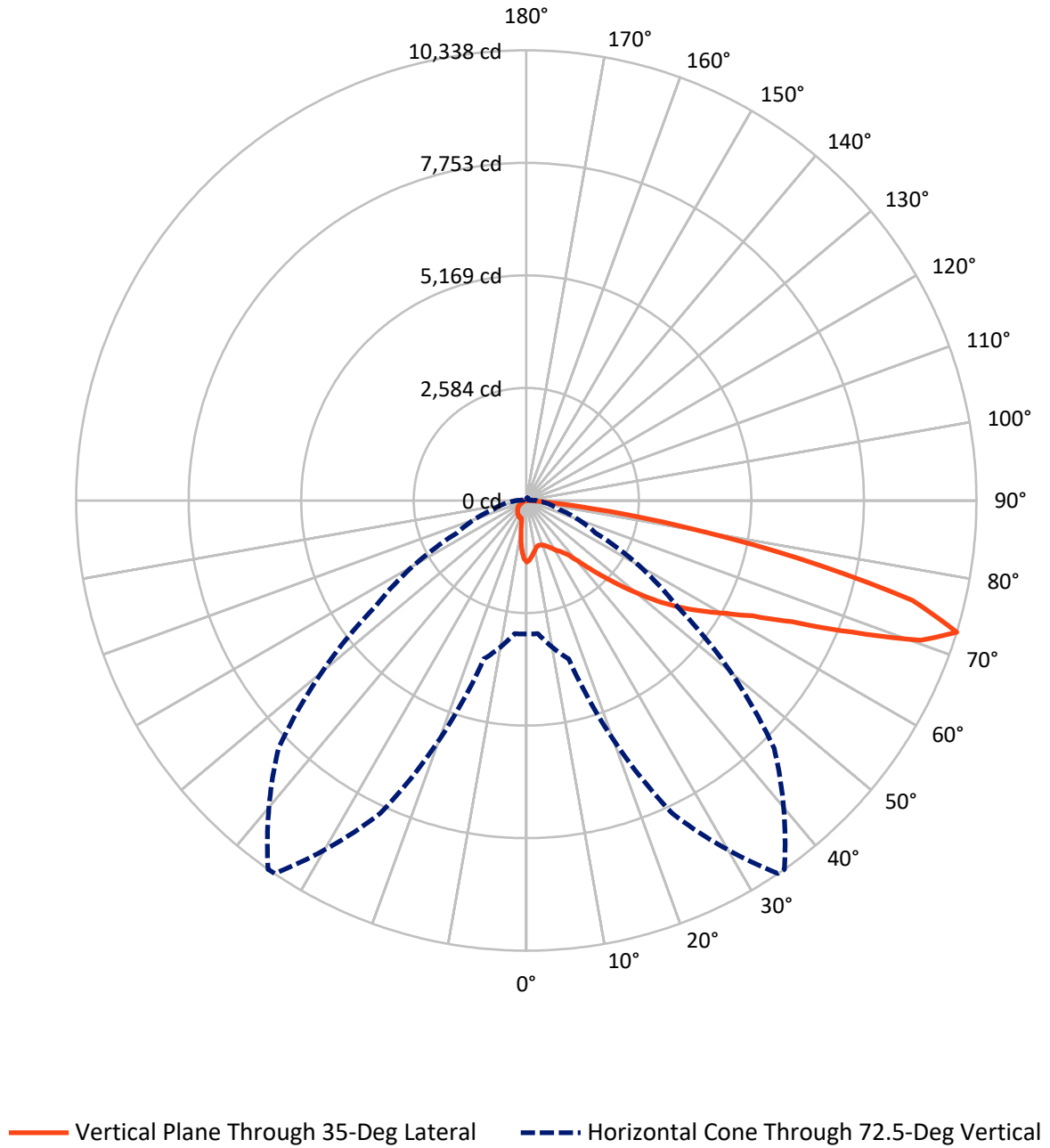
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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	1097.0	0.0	1097.0
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	8650.0	0.0	8650.0
	% Fixture	88.7	0.0	88.7
Total	Lumens	9747.0	0.0	9747.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.1	1.2
10°-20°	271.6	2.8
20°-30°	441.2	4.5
30°-40°	736.1	7.6
40°-50°	1392.6	14.3
50°-60°	2212.9	22.7
60°-70°	2737.5	28.1
70°-80°	1701.6	17.5
80°-90°	137.5	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°	9747.0	100.0
0°-180°	9747.0	100.0

Coefficient of Utilization



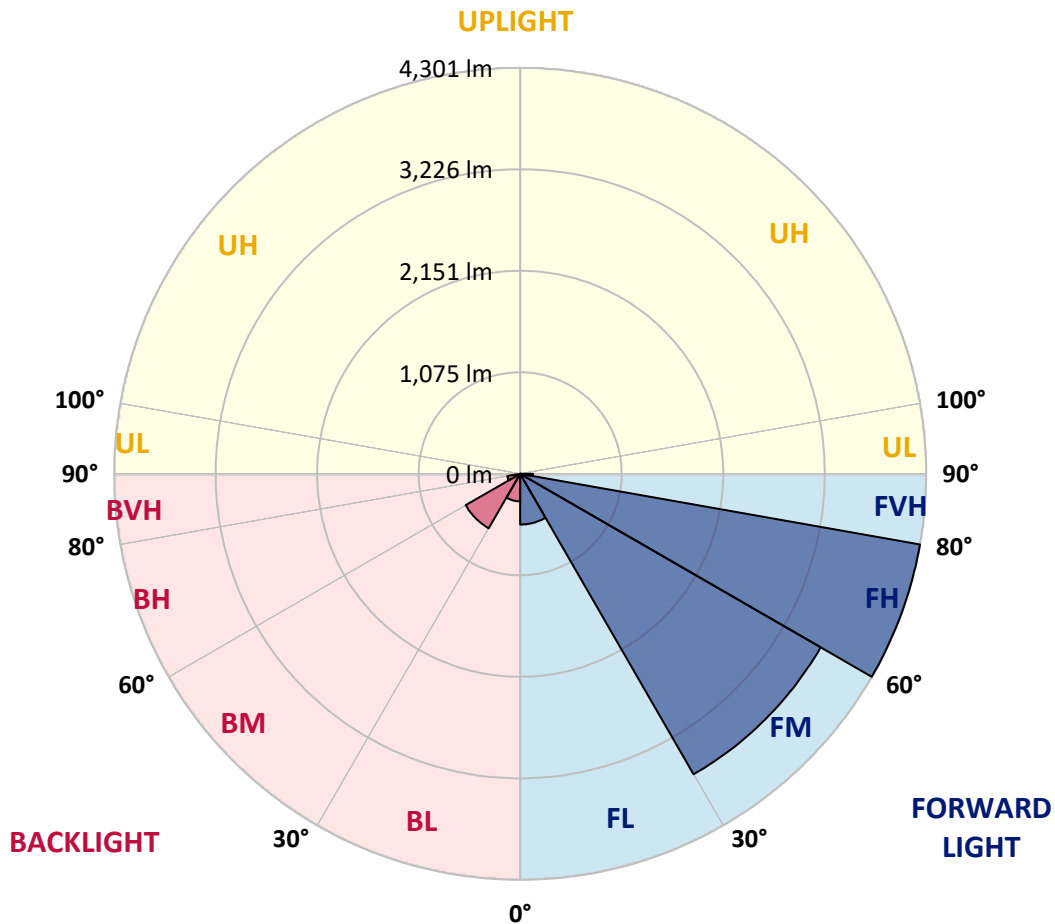
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	537.3	5.5			
FM (30°-60°)	3675.6	37.7			
FH (60°-80°)	4301.5	44.1			G2/5000
FVH (80°-90°)	135.6	1.4			G2/225
BL (0°-30°)	291.5	3.0	B1/500		
BM (30°-60°)	666.0	6.8	B1/1000		
BH (60°-80°)	137.7	1.4	B1/500		G1/500
BVH (80°-90°)	1.9	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°	1412.7	1412.7	1412.7	1412.7	1412.7	1412.7	1412.7	1412.7	1412.7	1412.7
2.5°	1349.8	1361.2	1363.4	1367.0	1367.0	1371.2	1378.4	1388.4	1404.8	1413.4
5°	1244.1	1252.7	1263.4	1272.0	1288.4	1290.5	1318.4	1345.5	1383.4	1412.0
7.5°	1137.7	1147.7	1162.0	1182.7	1204.1	1210.6	1252.7	1298.4	1358.4	1412.0
10°	1062.7	1063.4	1076.3	1097.0	1131.3	1139.1	1190.6	1255.5	1330.5	1403.4
12.5°	1020.6	1025.6	1031.3	1047.0	1079.9	1084.9	1139.8	1216.3	1302.7	1398.4
15°	1020.6	1024.1	1027.7	1035.6	1062.0	1066.3	1114.9	1191.3	1288.4	1400.5
17.5°	1031.3	1037.0	1034.1	1043.4	1071.3	1074.1	1117.0	1184.1	1287.7	1414.1
20°	1057.0	1061.3	1055.6	1061.3	1089.1	1094.9	1139.1	1197.7	1299.8	1437.7
22.5°	1097.7	1099.9	1086.3	1090.6	1119.1	1126.3	1177.7	1236.3	1329.1	1475.5
25°	1149.1	1153.4	1132.7	1137.7	1164.8	1173.4	1232.7	1294.1	1375.5	1527.7
27.5°	1208.4	1210.6	1192.7	1192.0	1227.0	1239.1	1299.1	1365.5	1437.7	1593.4
30°	1276.3	1282.7	1265.5	1262.7	1307.0	1317.0	1376.2	1453.4	1529.1	1691.9
32.5°	1329.8	1334.8	1324.8	1332.0	1377.0	1384.8	1469.8	1577.6	1672.6	1831.9
35°	1407.0	1409.8	1387.0	1399.8	1451.2	1471.2	1597.6	1751.9	1853.3	2007.6
37.5°	1686.2	1686.2	1589.1	1525.5	1574.8	1592.6	1772.6	1971.2	2076.1	2243.3
40°	2072.6	2066.2	1924.0	1794.0	1787.6	1822.6	2021.9	2247.6	2364.0	2526.1
42.5°	2484.7	2474.7	2281.1	2152.6	2131.1	2143.3	2309.7	2588.2	2706.8	2871.0
45°	2850.3	2847.5	2670.4	2497.5	2459.0	2497.5	2668.9	2986.7	3071.7	3244.6
47.5°	3156.7	3156.7	3027.4	2914.6	2894.6	2917.5	3155.3	3428.8	3421.0	3642.4
50°	3509.5	3506.7	3383.8	3335.3	3356.0	3388.1	3715.2	3894.5	3782.3	4033.0
52.5°	3756.6	3773.8	3731.6	3723.8	3829.5	3885.2	4283.7	4350.1	4105.9	4403.7
55°	3952.3	3972.3	4020.9	4075.9	4279.4	4352.3	4834.3	4782.2	4376.6	4725.1
57.5°	4229.4	4200.9	4275.9	4384.4	4713.7	4801.5	5367.8	5190.0	4594.4	4985.8
60°	4565.8	4570.1	4583.0	4720.1	5147.2	5260.0	5893.5	5575.7	4734.4	5145.7
62.5°	4970.0	4976.5	5002.9	5213.6	5729.2	5835.6	6453.4	5891.4	4798.6	5100.7
65°	4942.2	4969.3	5264.3	5984.9	6614.1	6719.1	7106.9	6112.7	4701.5	4689.4
67.5°	4502.3	4546.5	5040.0	6906.2	7948.2	8065.3	7896.8	6156.3	4282.3	3646.7
70°	3925.2	3940.9	4534.4	7734.7	9493.0	9611.6	8603.8	5677.1	3249.6	2034.0
72.5°	3065.3	3068.9	3765.2	7926.8	10331.5	10337.9	8048.9	4214.4	1747.6	781.3
75°	2189.7	2168.3	2521.8	6428.4	9089.5	9162.3	6034.2	1976.9	667.8	369.2
77.5°	1174.1	1197.7	1427.0	3812.3	6279.2	6403.4	3292.4	569.9	340.0	251.4
80°	362.8	382.8	584.9	1745.5	3556.7	3631.7	1220.6	253.5	237.1	179.3
82.5°	114.3	118.6	272.8	733.5	1476.2	1510.5	353.5	143.6	162.1	118.6
85°	32.9	33.6	121.4	273.5	365.0	372.1	99.3	55.7	92.8	73.6
87.5°	3.6	11.4	45.7	45.7	32.1	31.4	10.7	12.1	26.4	9.3
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°
1412.7	0°	1412.7	1412.7	1412.7	1412.7	1412.7	1412.7	1412.7	1412.7	1412.7	1412.7
1419.1	2.5°	1415.5	1416.2	1407.0	1391.2	1374.1	1359.8	1342.0	1327.7	1317.7	1314.8
1432.0	5°	1425.5	1420.5	1394.1	1346.2	1289.1	1239.8	1184.8	1141.3	1112.7	1100.6
1445.5	7.5°	1440.5	1426.2	1368.4	1274.1	1164.8	1067.7	969.2	892.7	844.2	819.9
1458.4	10°	1453.4	1424.8	1325.5	1169.8	1002.7	855.6	722.8	630.6	579.2	554.9
1473.4	12.5°	1465.5	1424.1	1269.8	1046.3	819.9	639.9	516.4	470.7	456.4	451.4
1497.7	15°	1488.4	1426.2	1199.8	904.9	637.8	483.5	438.5	437.8	440.7	439.2
1534.8	17.5°	1519.8	1428.4	1120.6	754.9	492.1	426.4	424.2	430.7	434.9	432.8
1581.2	20°	1560.5	1436.9	1036.3	606.3	422.8	412.1	417.1	422.8	426.4	422.8
1643.4	22.5°	1617.6	1451.9	944.2	487.1	400.7	403.5	407.8	414.2	417.8	412.8
1722.6	25°	1687.6	1475.5	853.5	423.5	389.9	393.5	399.9	407.1	411.4	406.4
1822.6	27.5°	1778.3	1513.4	769.9	409.2	379.2	381.4	390.7	401.4	407.1	400.7
1964.7	30°	1909.7	1575.5	697.8	415.7	372.8	367.8	380.7	395.7	402.1	396.4
2158.3	32.5°	2084.0	1663.3	653.5	425.7	370.0	352.1	364.2	383.5	394.2	390.7
2411.1	35°	2312.5	1796.9	636.3	437.1	367.8	335.7	344.2	365.0	383.5	387.1
2729.6	37.5°	2589.7	1982.6	641.3	442.1	361.4	322.1	326.4	344.2	368.5	379.9
3088.2	40°	2904.6	2199.0	669.9	437.1	354.2	310.7	311.4	325.0	346.4	363.5
3473.8	42.5°	3229.6	2451.8	722.8	418.5	347.8	300.7	298.5	307.8	322.1	334.2
3858.8	45°	3538.8	2711.8	774.9	392.8	340.0	290.7	285.7	289.2	292.1	297.1
4233.7	47.5°	3808.8	2894.6	759.9	369.2	329.2	279.2	270.7	269.2	260.7	260.0
4568.7	50°	3995.2	2934.6	674.9	345.7	313.5	266.4	252.8	244.3	229.3	222.1
4819.4	52.5°	4054.5	2776.8	551.4	322.1	287.8	249.3	230.0	216.4	197.8	191.4
4963.6	55°	3975.9	2467.5	440.7	293.5	252.1	226.4	205.0	187.1	172.1	164.3
4979.3	57.5°	3783.8	2074.0	348.5	260.0	214.3	200.7	179.3	161.4	148.6	140.7
4805.1	60°	3465.2	1646.9	275.7	220.0	182.8	172.8	150.7	139.3	127.8	118.6
4355.1	62.5°	2981.7	1175.6	216.4	174.3	152.8	141.4	128.6	120.0	106.4	93.6
3546.0	65°	2326.8	719.2	167.1	127.8	122.8	117.1	109.3	101.4	85.0	72.1
2313.3	67.5°	1467.7	340.7	119.3	96.4	97.1	94.3	90.7	84.3	72.1	60.7
1036.3	70°	646.3	165.0	78.6	73.6	72.1	72.1	75.0	72.8	61.4	50.7
360.0	72.5°	220.0	88.6	58.6	55.7	52.1	51.4	62.8	60.7	49.3	39.3
179.3	75°	115.0	59.3	42.9	40.0	31.4	37.9	50.0	47.1	35.0	25.7
118.6	77.5°	75.0	42.1	29.3	25.7	17.9	25.0	37.1	32.9	20.7	12.9
77.8	80°	47.1	27.9	17.1	12.1	8.6	13.6	20.0	14.3	7.9	2.9
45.7	82.5°	25.0	14.3	6.4	4.3	3.6	4.3	5.0	3.6	1.4	0.0
23.6	85°	10.0	5.0	2.1	1.4	0.7	0.0	1.4	0.7	0.0	0.0
4.3	87.5°	3.6	0.7	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>
1412.7
1319.8
1104.9
823.5
555.6
449.9
438.5
432.1
422.1
412.1
405.7
400.7
395.7
390.7
387.1
382.8
369.2
339.2
300.0
259.3
222.8
190.7
164.3
139.3
116.4
91.4
70.0
59.3
48.6
37.1
23.6
11.4
2.1
0.0
0.0
0.0
0.0

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