

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: P949385

Luminaire Tested: **GALN-SB4A-927-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949385
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4A-927-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8429 lumens
Efficiency: N/A
Efficacy: 73.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

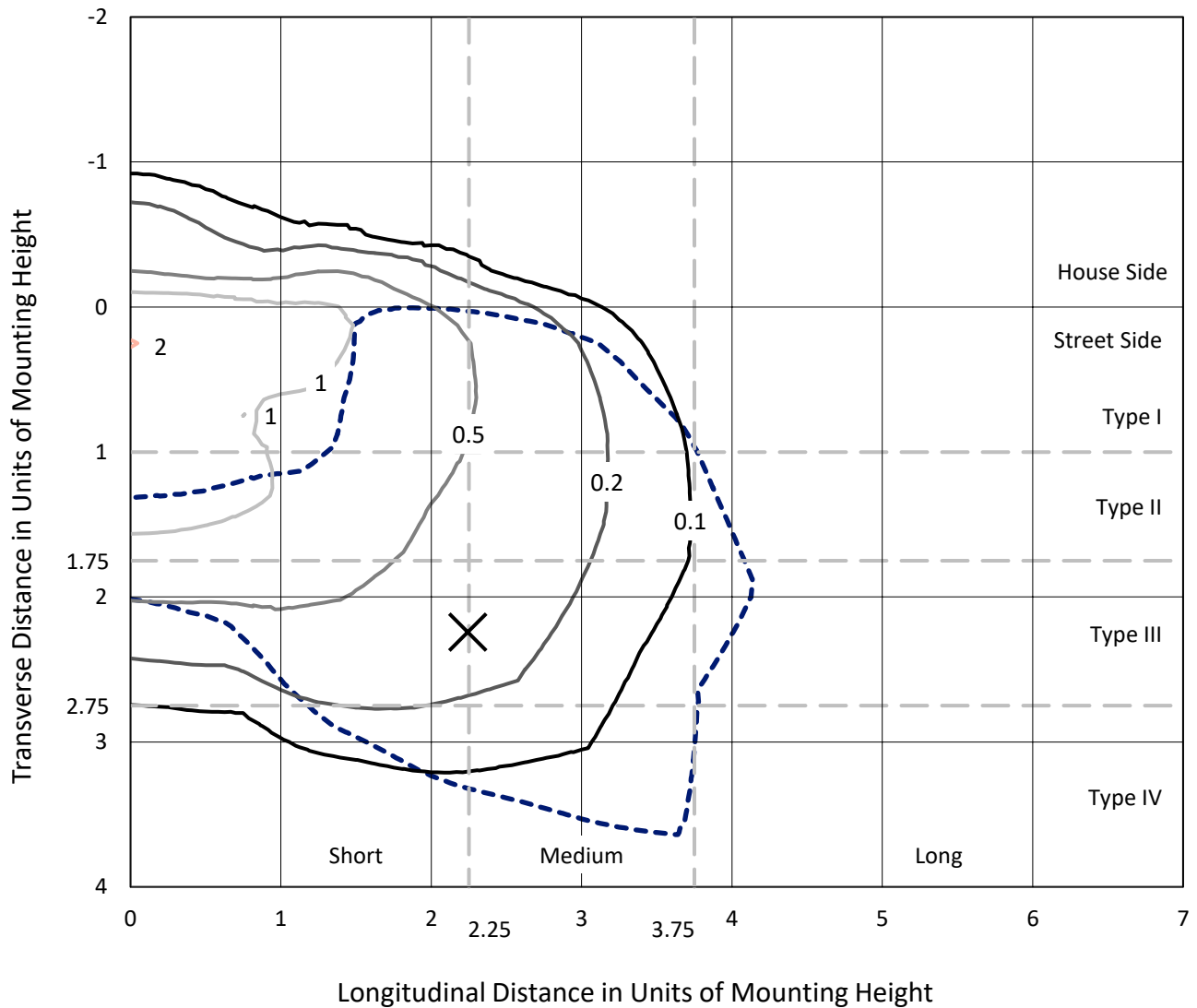
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

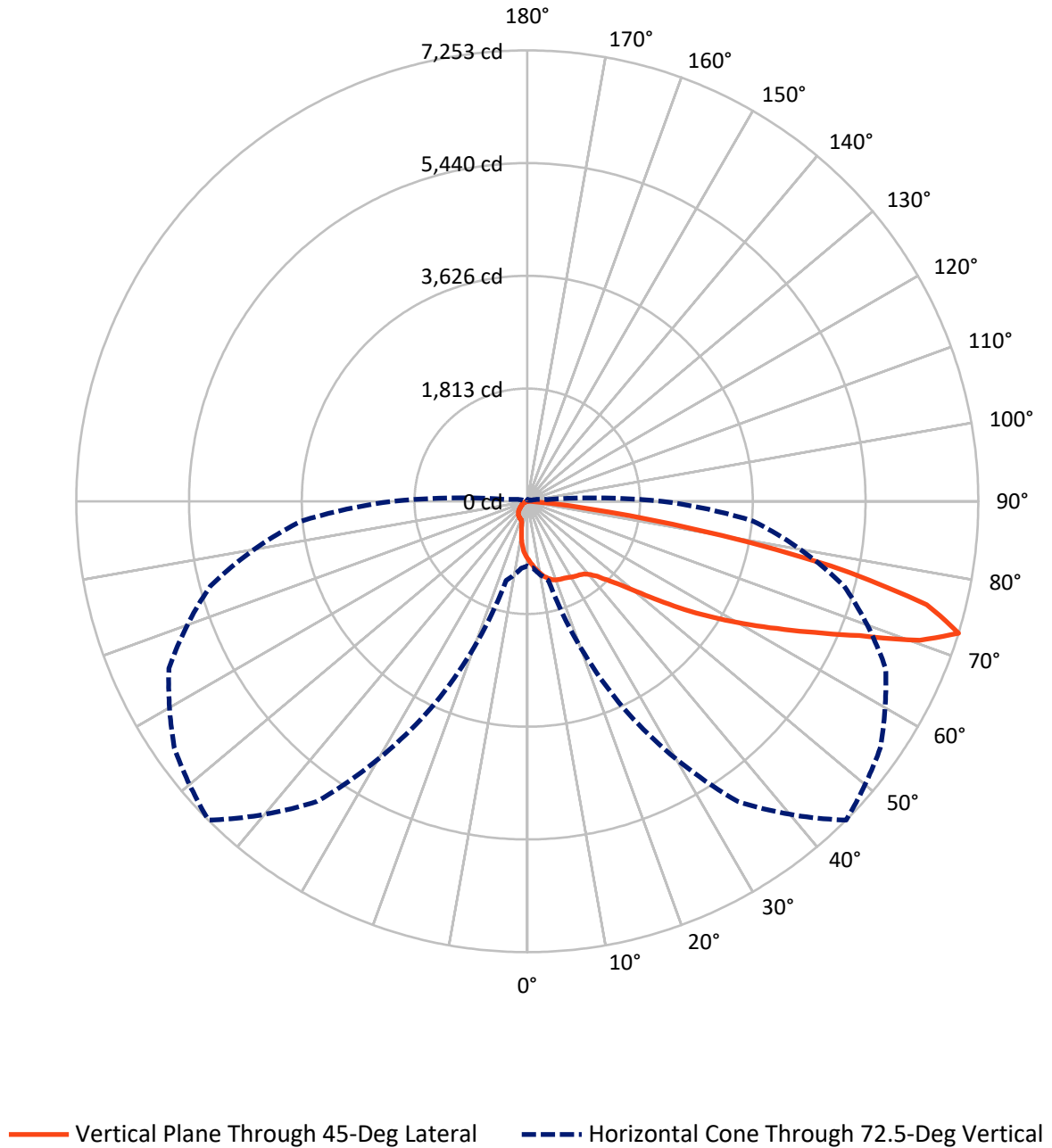
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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	885.7	0.0	885.7
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	7543.3	0.0	7543.3
	% Fixture	89.5	0.0	89.5
Total	Lumens	8429.0	0.0	8429.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.0	1.0
10°-20°	254.3	3.0
20°-30°	417.6	5.0
30°-40°	592.2	7.0
40°-50°	978.9	11.6
50°-60°	1758.4	20.9
60°-70°	2441.6	29.0
70°-80°	1771.1	21.0
80°-90°	128.0	1.5
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°	8429.0	100.0
0°-180°	8429.0	100.0

Coefficient of Utilization



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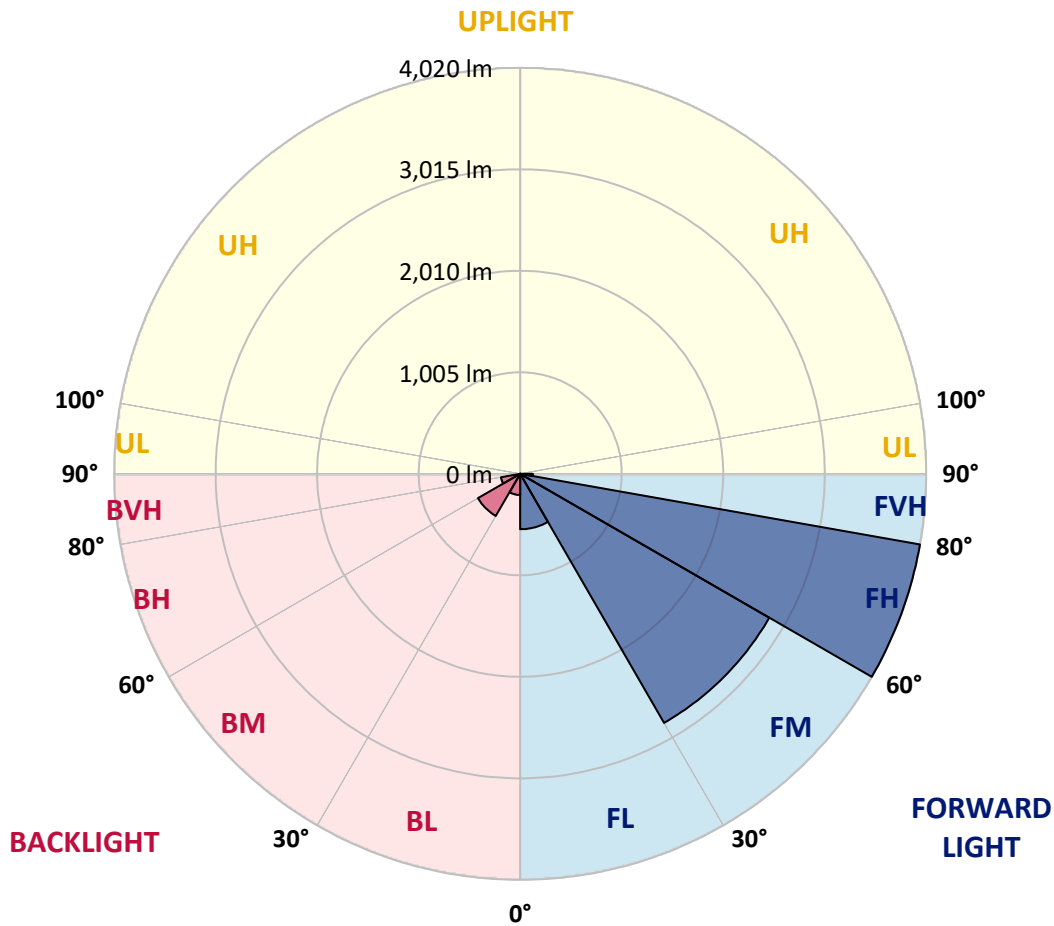
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	549.1	6.5			
FM (30°-60°)	2847.8	33.8			
FH (60°-80°)	4019.6	47.7			G2/5000
FVH (80°-90°)	127.0	1.5			G2/225
BL (0°-30°)	209.8	2.5	B1/500		
BM (30°-60°)	481.7	5.7	B1/1000		
BH (60°-80°)	193.1	2.3	B1/500		G1/500
BVH (80°-90°)	1.1	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°	35°	45°	46°	55°	65°	75°
0°	923.4	923.4	923.4	923.4	923.4	923.4	923.4	923.4	923.4	923.4
2.5°	1008.6	1010.3	1009.1	1002.2	990.7	984.4	980.9	969.4	962.0	948.7
5°	1101.2	1108.1	1104.1	1090.3	1068.4	1052.9	1048.3	1024.7	1003.4	978.6
7.5°	1199.6	1203.0	1195.5	1177.7	1148.4	1121.9	1117.9	1085.1	1051.1	1013.2
10°	1284.7	1288.8	1277.2	1251.4	1218.0	1185.2	1179.4	1143.2	1102.9	1056.3
12.5°	1356.1	1360.1	1345.1	1314.1	1277.2	1243.3	1237.5	1199.6	1155.3	1103.5
15°	1410.1	1417.6	1397.5	1364.1	1324.4	1290.5	1287.6	1250.2	1207.1	1149.5
17.5°	1441.8	1449.3	1430.3	1390.0	1356.1	1327.3	1323.8	1292.8	1252.5	1197.3
20°	1447.0	1453.9	1433.7	1398.6	1370.5	1347.4	1345.7	1323.3	1293.9	1241.0
22.5°	1431.4	1440.1	1421.7	1393.5	1373.9	1361.8	1359.5	1346.9	1330.2	1285.3
25°	1415.3	1422.2	1408.4	1383.7	1373.3	1372.2	1373.9	1371.6	1368.1	1330.2
27.5°	1414.2	1421.7	1406.1	1382.5	1376.8	1388.9	1390.6	1401.5	1404.4	1371.0
30°	1424.0	1429.1	1414.2	1389.4	1386.6	1414.2	1414.8	1434.3	1438.9	1405.5
32.5°	1445.2	1451.0	1436.0	1399.8	1395.8	1434.3	1436.0	1461.9	1469.4	1442.4
35°	1495.3	1502.2	1484.9	1428.6	1414.2	1453.3	1458.5	1489.0	1503.9	1481.5
37.5°	1620.1	1600.0	1576.4	1486.7	1456.2	1483.2	1491.8	1527.5	1554.0	1528.1
40°	1930.3	1867.0	1793.3	1585.6	1529.8	1547.1	1554.0	1589.7	1625.9	1600.6
42.5°	2395.7	2320.9	2202.4	1813.5	1640.9	1649.5	1654.7	1685.7	1736.9	1716.8
45°	2810.5	2783.5	2662.7	2202.4	1848.6	1806.0	1812.3	1828.4	1903.8	1896.3
47.5°	3129.3	3113.7	3020.5	2648.8	2199.5	1997.6	2015.4	2022.9	2131.6	2158.1
50°	3374.3	3368.6	3285.2	3045.8	2658.1	2280.1	2286.4	2270.3	2433.1	2498.7
52.5°	3605.6	3625.2	3563.6	3414.6	3147.7	2650.0	2648.8	2572.9	2792.7	2891.6
55°	3814.5	3821.4	3827.7	3790.9	3640.2	3071.1	3060.2	2935.9	3209.8	3312.2
57.5°	4010.7	4013.5	4069.9	4145.3	4152.8	3523.4	3503.2	3354.2	3665.5	3738.5
60°	4142.4	4155.7	4274.7	4484.2	4575.7	3990.0	3979.0	3827.1	4129.2	4163.1
62.5°	3952.6	4033.1	4333.4	4748.8	4974.9	4507.2	4502.0	4359.3	4617.1	4589.5
65°	3199.4	3335.8	3864.0	4927.8	5366.7	5084.8	5092.3	4940.4	5118.2	5028.4
67.5°	2238.1	2381.9	3006.7	4942.1	5804.6	5763.1	5806.3	5568.1	5650.4	5449.0
70°	1547.7	1621.9	2028.6	4632.6	6145.7	6697.5	6696.3	6339.1	6179.7	5640.6
72.5°	1040.8	1079.3	1317.5	3675.2	5894.9	7252.7	7219.3	6928.2	6358.0	5275.3
75°	439.0	467.2	609.9	2065.5	4663.7	6635.4	6545.0	6122.7	5649.2	4153.9
77.5°	139.2	151.3	240.5	739.3	2568.9	4987.6	4892.1	3823.7	3786.3	2083.9
80°	66.2	77.1	135.2	296.9	1010.9	2712.7	2699.5	1734.6	1628.8	562.7
82.5°	28.8	33.9	74.8	158.8	452.2	967.7	987.3	590.3	488.5	213.4
85°	9.2	12.1	34.5	73.1	191.0	240.5	237.6	140.4	196.8	116.2
87.5°	0.0	0.0	11.5	16.7	19.6	13.8	15.5	12.1	54.7	32.2
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°
923.4	0°	923.4	923.4	923.4	923.4	923.4	923.4	923.4	923.4	923.4	923.4
934.9	2.5°	928.0	918.8	902.7	887.7	874.5	861.3	853.2	841.7	840.6	840.6
949.9	5°	934.3	919.4	890.6	860.1	825.0	791.7	758.3	726.1	715.7	708.2
974.0	7.5°	952.8	929.2	883.7	825.6	758.9	685.8	634.6	579.4	558.1	546.6
1006.3	10°	979.2	947.0	878.0	776.1	668.0	568.4	495.4	435.5	412.5	402.7
1041.4	12.5°	1008.6	968.9	867.6	714.6	568.4	449.3	378.0	350.4	346.9	346.9
1083.4	15°	1043.7	995.3	849.8	642.1	464.3	355.6	330.2	331.4	334.8	337.1
1124.2	17.5°	1079.9	1023.5	821.6	561.0	372.2	319.9	320.5	322.2	325.1	327.4
1168.5	20°	1119.0	1051.7	784.2	474.7	319.3	309.5	311.3	313.0	315.3	316.4
1209.9	22.5°	1161.0	1078.2	739.9	390.1	301.5	300.9	301.5	303.2	306.1	306.1
1258.3	25°	1205.9	1107.5	689.3	328.5	292.3	292.3	293.4	294.6	296.9	296.9
1304.9	27.5°	1251.9	1134.6	635.7	296.3	284.2	283.6	283.6	285.4	286.5	287.1
1350.9	30°	1302.6	1166.2	582.2	289.4	277.9	275.0	273.3	274.4	275.6	276.2
1399.2	32.5°	1354.3	1196.7	534.5	292.3	271.6	266.4	260.6	259.5	259.5	261.8
1449.3	35°	1411.9	1230.1	497.7	302.1	268.1	253.7	244.5	239.3	239.9	243.4
1509.1	37.5°	1480.9	1270.3	470.6	310.7	265.8	239.3	224.4	218.1	214.0	218.1
1591.4	40°	1571.2	1329.6	451.1	317.6	262.9	222.7	202.5	192.2	184.7	187.0
1719.1	42.5°	1704.1	1422.8	443.6	318.2	256.6	203.1	180.1	166.3	155.3	155.9
1911.3	45°	1890.6	1570.1	482.1	310.7	242.8	181.8	156.5	138.1	131.2	129.5
2198.4	47.5°	2146.0	1784.7	571.3	295.1	222.7	161.1	133.5	117.9	112.8	109.9
2575.2	50°	2488.3	2060.3	670.3	277.9	202.5	141.5	114.5	104.7	101.3	98.4
3022.2	52.5°	2885.3	2339.9	751.4	260.6	182.4	124.3	102.4	96.7	93.8	91.5
3453.7	55°	3249.5	2532.6	746.8	242.2	162.8	110.5	93.8	90.3	86.9	84.6
3825.4	57.5°	3476.2	2559.7	615.6	222.1	140.4	99.5	85.7	83.4	79.4	76.5
4147.0	60°	3580.3	2405.5	431.5	195.6	117.9	89.2	77.1	75.9	70.8	66.7
4451.4	62.5°	3599.3	2119.0	287.7	162.8	98.4	79.4	68.5	66.7	59.8	52.9
4698.8	65°	3522.2	1709.3	199.1	127.1	84.0	69.0	58.7	55.2	47.8	40.8
4757.5	67.5°	3278.3	1200.2	138.7	91.5	71.3	54.7	46.6	45.5	39.7	33.9
4458.3	70°	2831.2	684.1	92.6	68.5	56.4	37.4	36.8	38.0	32.2	27.6
3642.5	72.5°	2170.7	313.0	57.5	50.1	38.5	25.3	29.3	29.9	24.7	20.7
2272.6	75°	1277.8	134.1	36.2	32.2	19.6	16.7	21.3	21.9	16.7	13.2
830.8	77.5°	435.0	50.6	23.0	19.0	9.8	9.2	13.8	13.8	9.2	5.2
166.8	80°	99.0	19.0	11.5	7.5	4.6	4.0	4.6	4.0	2.3	0.6
51.2	82.5°	28.2	7.5	4.6	2.9	1.7	1.7	0.6	0.0	0.0	0.0
17.8	85°	8.1	3.5	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
6.3	87.5°	3.5	0.6	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>
923.4
843.4
711.7
548.3
402.7
346.9
337.1
327.4
317.0
307.2
297.4
287.7
277.3
263.5
245.1
216.9
185.8
153.6
127.1
108.2
97.8
90.9
83.4
75.9
65.6
49.5
38.5
32.2
25.3
18.4
11.5
4.0
0.0
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