

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: P947869

Luminaire Tested: **GALN-SB3A-830-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947869
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3A-830-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9242 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

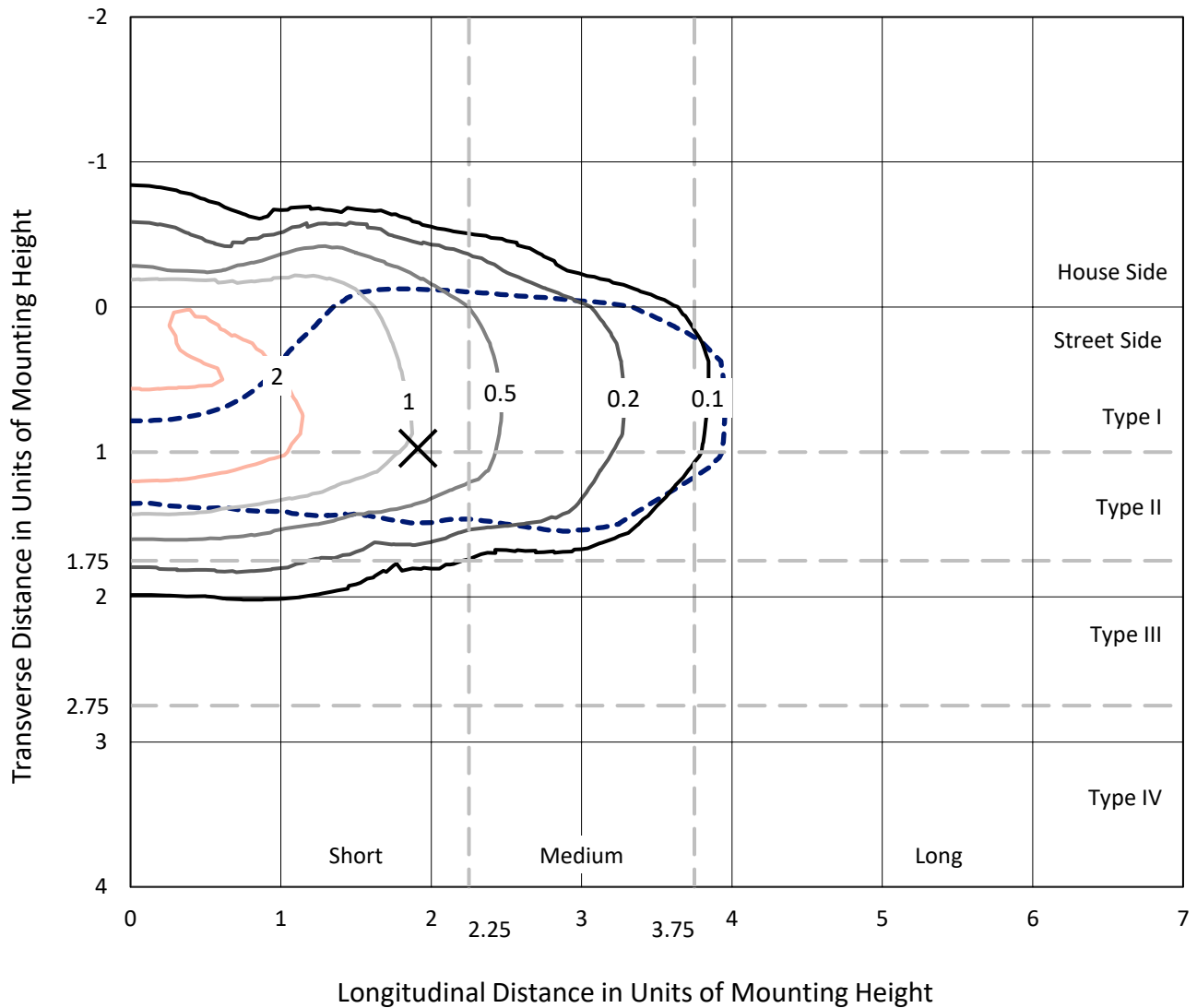
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

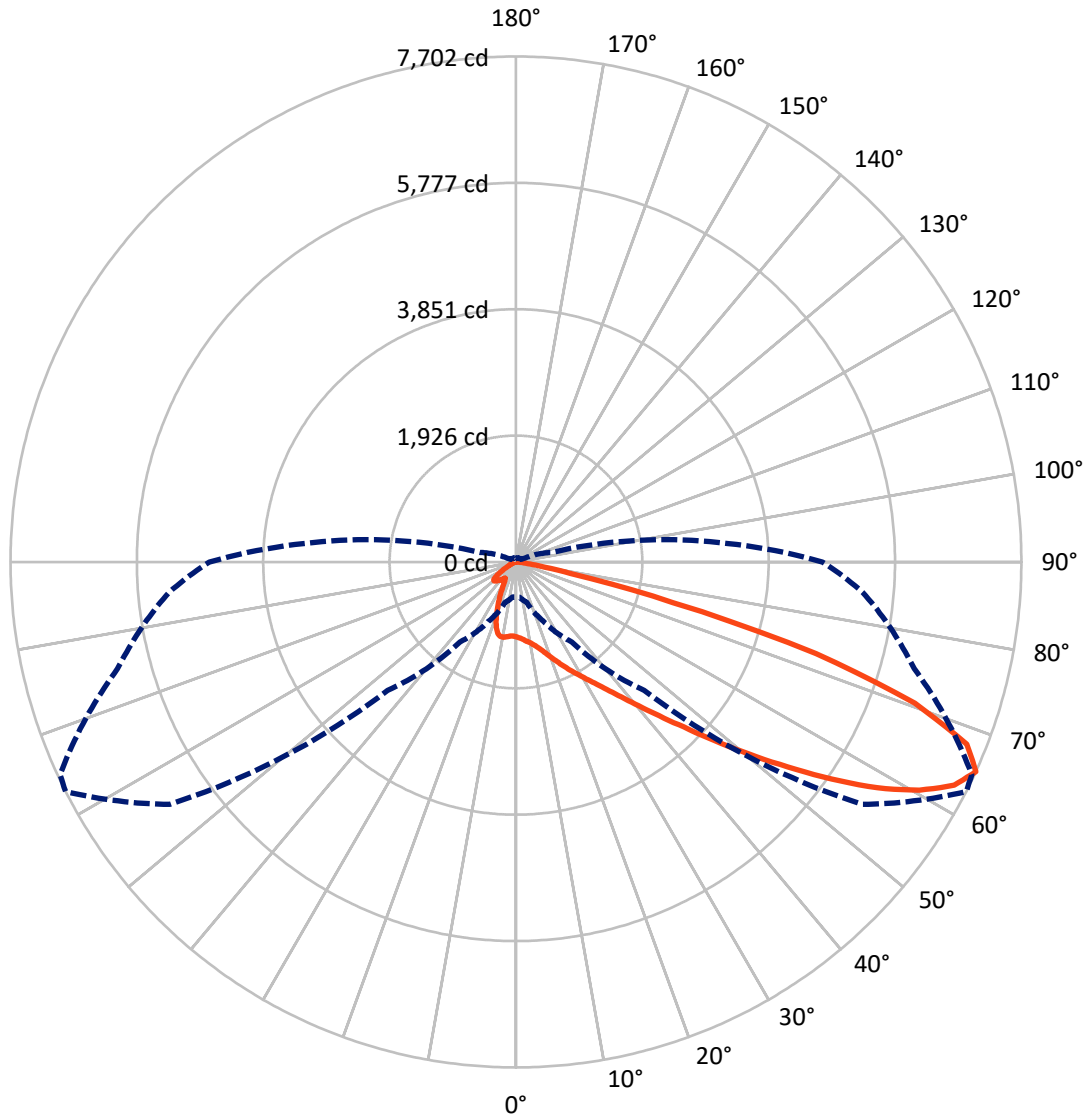
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1358.5	0.0	1358.5
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	7883.5	0.0	7883.5
	% Fixture	85.3	0.0	85.3
Total	Lumens	9242.0	0.0	9242.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.5	1.2
10°-20°	298.2	3.2
20°-30°	519.2	5.6
30°-40°	935.8	10.1
40°-50°	1856.1	20.1
50°-60°	2528.3	27.4
60°-70°	2018.1	21.8
70°-80°	913.2	9.9
80°-90°	65.6	0.7
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°	9242.0	100.0
0°-180°	9242.0	100.0

Coefficient of Utilization



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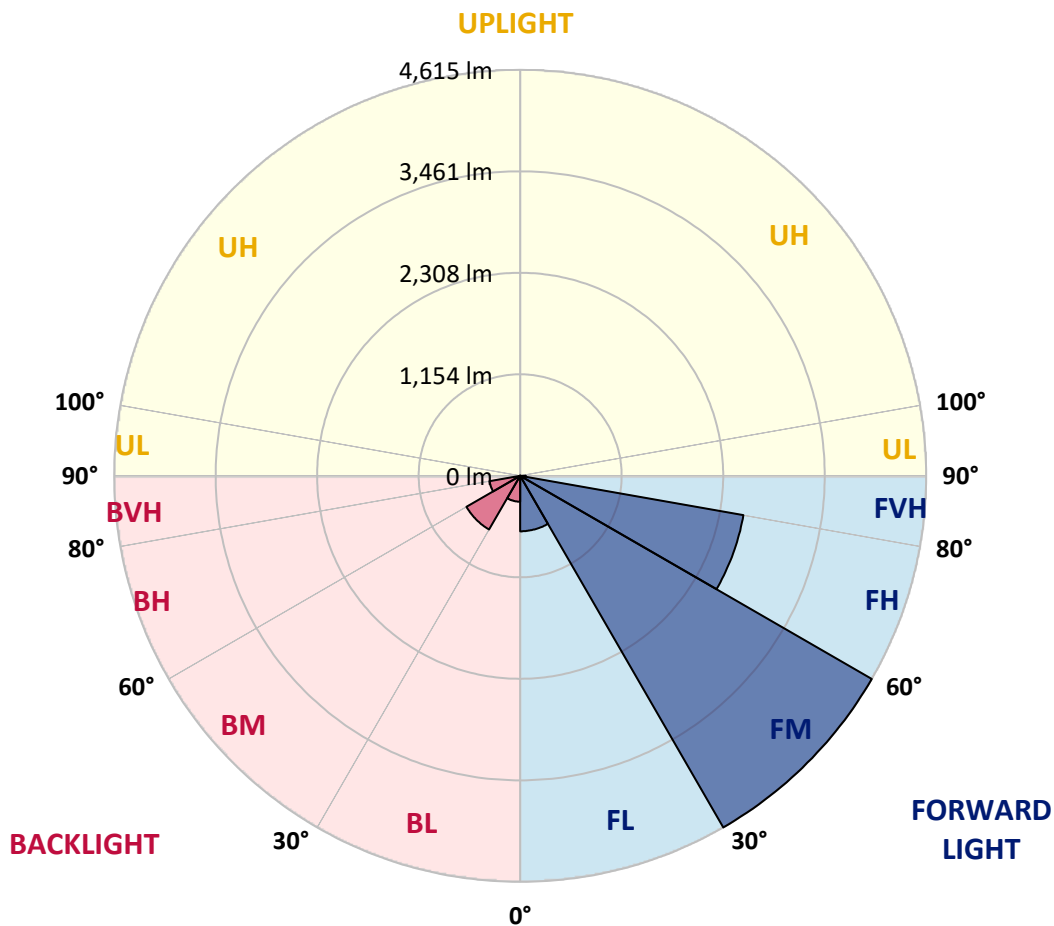
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	630.9	6.8			
FM (30°-60°)	4615.2	49.9			
FH (60°-80°)	2576.6	27.9			G2/5000
FVH (80°-90°)	60.8	0.7			G1/100
BL (0°-30°)	294.0	3.2	B1/500		
BM (30°-60°)	705.0	7.6	B1/1000		
BH (60°-80°)	354.6	3.8	B1/500		G1/500
BVH (80°-90°)	4.9	0.1			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	1140.6	1140.6	1140.6	1140.6	1140.6	1140.6	1140.6	1140.6	1140.6	1140.6
2.5°	1167.3	1164.2	1168.6	1166.7	1165.4	1162.9	1161.6	1160.3	1157.8	1155.9
5°	1170.5	1168.6	1173.1	1176.9	1180.7	1184.5	1186.4	1189.0	1186.4	1181.3
7.5°	1143.8	1142.5	1152.1	1163.5	1180.7	1195.3	1211.2	1220.1	1220.7	1218.8
10°	1141.9	1138.7	1148.3	1162.3	1184.5	1210.6	1238.6	1257.6	1260.2	1268.4
12.5°	1171.8	1168.6	1182.0	1197.2	1220.1	1247.5	1281.8	1308.5	1312.3	1323.7
15°	1222.0	1217.6	1232.8	1252.5	1281.8	1312.9	1349.2	1373.3	1376.5	1390.5
17.5°	1280.5	1276.1	1293.9	1314.8	1346.6	1389.2	1431.2	1457.9	1461.7	1470.6
20°	1355.5	1349.8	1363.8	1382.9	1416.6	1467.4	1517.7	1555.8	1555.2	1555.2
22.5°	1442.6	1433.7	1445.8	1461.1	1492.9	1554.5	1621.3	1666.4	1666.4	1648.6
25°	1536.1	1527.2	1540.6	1554.5	1582.5	1652.5	1730.7	1786.6	1789.2	1758.6
27.5°	1653.1	1641.7	1651.8	1668.4	1684.9	1756.1	1848.9	1913.8	1915.1	1868.0
30°	1878.2	1845.7	1814.0	1796.2	1803.8	1874.4	1973.5	2045.4	2051.7	1986.9
32.5°	2290.2	2283.8	2171.9	2025.7	1949.4	2001.5	2112.8	2199.3	2203.1	2119.8
35°	2930.4	2922.8	2742.9	2464.4	2215.8	2171.9	2281.9	2384.3	2381.7	2287.6
37.5°	3694.7	3687.7	3450.5	3077.9	2675.5	2429.4	2500.0	2607.4	2623.3	2500.0
40°	4347.6	4321.6	4171.5	3812.3	3285.8	2856.7	2810.3	2881.5	2898.0	2751.8
42.5°	4842.3	4820.1	4743.8	4519.3	4024.7	3488.7	3175.9	3203.2	3221.6	3046.2
45°	5098.5	5093.4	5124.0	5103.0	4777.5	4264.4	3698.5	3584.7	3591.7	3372.3
47.5°	5134.8	5132.2	5271.5	5468.6	5424.7	5139.2	4369.3	4060.3	4035.5	3740.5
50°	4921.1	4916.1	5183.1	5552.5	5857.1	5874.2	5131.0	4596.2	4541.6	4121.3
52.5°	4238.9	4237.7	4676.4	5291.2	6009.0	6517.7	5883.8	5185.0	5093.4	4524.4
55°	3261.7	3285.2	3788.1	4514.9	5731.8	6827.3	6559.6	5838.6	5698.1	4930.0
57.5°	2310.5	2344.9	2842.1	3489.3	4872.2	6644.2	7016.8	6493.5	6342.2	5334.4
60°	1241.1	1271.6	1769.5	2542.0	3624.7	5961.3	7257.7	7061.9	6918.8	5718.4
62.5°	739.4	749.6	955.6	1641.0	2451.7	4554.3	7155.4	7494.9	7377.3	6040.8
65°	530.9	532.8	636.4	1002.0	1488.4	2767.0	6437.5	7702.2	7665.9	6283.7
67.5°	447.0	445.7	488.9	665.7	1014.1	1386.1	4933.9	7409.1	7562.9	6437.5
70°	383.4	385.3	436.2	487.7	762.3	784.6	2452.9	6450.9	6779.0	6478.2
72.5°	285.5	291.8	338.9	444.4	575.4	539.8	846.9	4783.2	5376.4	6103.7
75°	201.6	204.7	238.4	373.9	429.2	392.9	432.3	2472.7	3233.1	4679.5
77.5°	155.1	160.9	180.6	261.3	422.8	275.9	264.5	855.8	1314.8	2826.8
80°	83.9	94.1	130.3	188.8	296.9	195.2	131.0	340.8	445.7	1321.8
82.5°	43.2	48.3	90.9	136.1	169.1	170.4	64.9	141.8	183.7	408.2
85°	17.2	21.0	61.0	75.0	87.1	83.9	29.2	57.2	66.1	113.2
87.5°	3.8	6.4	22.3	17.2	16.5	17.8	7.0	13.4	12.7	13.4
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°
1140.6	0°	1140.6	1140.6	1140.6	1140.6	1140.6	1140.6	1140.6	1140.6	1140.6	1140.6
1148.3	2.5°	1147.6	1145.1	1138.1	1130.5	1121.6	1116.5	1113.3	1112.7	1108.2	1105.0
1173.7	5°	1166.7	1164.2	1150.8	1134.9	1117.7	1104.4	1091.7	1080.2	1063.7	1060.5
1210.6	7.5°	1204.9	1197.9	1176.2	1154.6	1122.2	1083.4	1036.4	982.3	934.0	919.4
1259.5	10°	1251.9	1242.4	1215.0	1176.9	1105.0	999.5	885.7	780.1	696.2	672.7
1317.4	12.5°	1305.3	1297.0	1260.8	1190.2	1033.2	841.8	667.6	536.6	455.2	434.9
1379.1	15°	1368.9	1356.8	1306.6	1169.9	904.8	639.6	458.4	380.8	351.6	347.8
1449.6	17.5°	1436.3	1416.6	1347.3	1096.8	731.8	454.6	354.1	331.9	319.2	315.4
1520.8	20°	1498.0	1472.5	1371.4	986.1	546.8	354.1	317.3	302.6	291.2	286.7
1592.1	22.5°	1559.6	1523.4	1371.4	835.5	410.1	314.1	291.2	277.8	264.5	258.8
1668.4	25°	1623.9	1575.5	1347.3	667.6	330.0	288.0	266.4	251.8	240.3	233.3
1740.8	27.5°	1686.2	1619.4	1292.0	508.6	293.7	265.1	243.5	229.5	218.7	213.6
1819.7	30°	1745.3	1662.6	1214.4	385.9	270.2	242.9	222.5	210.5	199.6	194.6
1922.0	32.5°	1825.4	1717.3	1131.7	316.6	249.9	221.9	203.5	192.0	182.5	178.7
2054.9	35°	1936.7	1798.1	1060.5	310.9	232.7	204.7	186.3	175.5	165.9	162.8
2226.6	37.5°	2094.3	1928.4	1023.0	349.1	218.7	189.5	172.3	160.9	152.0	149.4
2444.7	40°	2288.9	2105.2	1043.4	387.2	209.2	176.1	159.6	148.1	140.5	137.3
2695.2	42.5°	2519.7	2323.2	1155.9	416.5	202.8	164.7	147.5	134.8	129.7	128.4
2979.4	45°	2784.8	2562.9	1328.2	447.6	192.6	153.9	135.4	125.9	122.1	121.4
3288.4	47.5°	3086.2	2826.2	1527.8	486.4	182.5	143.7	125.9	119.5	116.4	115.1
3610.7	50°	3385.0	3091.3	1733.2	508.0	174.2	134.2	118.3	113.2	110.6	110.0
3951.5	52.5°	3697.9	3364.1	1899.2	487.7	167.2	126.5	111.9	108.1	105.5	104.9
4265.6	55°	3996.0	3584.7	1927.8	413.9	153.2	118.9	104.9	103.0	99.8	99.8
4584.2	57.5°	4252.9	3695.3	1725.6	303.9	139.2	107.5	97.9	96.0	93.5	92.8
4871.6	60°	4488.8	3663.5	1332.0	204.7	124.0	96.0	89.0	87.7	85.2	82.0
5121.4	62.5°	4621.7	3523.6	911.1	133.5	108.7	83.9	78.8	78.2	72.5	66.1
5306.4	65°	4671.9	3236.3	568.4	97.3	90.9	71.8	68.0	66.8	58.5	51.5
5411.4	67.5°	4628.0	2763.2	286.7	76.9	71.8	59.8	56.0	56.0	50.2	43.9
5405.0	70°	4452.6	2071.5	120.8	61.7	55.3	45.8	45.8	48.3	42.6	35.6
5124.6	72.5°	4071.7	1393.7	64.2	47.0	41.3	32.4	37.5	39.4	33.7	26.7
4194.4	75°	3236.9	850.1	44.5	35.0	26.1	22.9	28.6	29.9	22.9	17.8
2875.8	77.5°	2213.9	488.3	29.9	22.3	16.5	13.4	19.7	18.4	12.1	8.3
1108.8	80°	972.1	203.5	17.2	10.2	6.4	5.1	7.0	5.1	3.8	2.5
152.0	82.5°	113.8	47.7	6.4	3.8	2.5	1.3	0.6	0.0	0.0	0.0
46.4	85°	23.5	5.7	3.2	1.3	0.6	0.0	0.0	0.0	0.0	0.0
8.3	87.5°	4.5	1.3	0.6	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>
1140.6
1108.2
1059.3
912.4
663.8
429.2
344.0
313.5
284.2
255.6
230.8
213.6
195.2
178.7
162.8
148.8
136.7
128.4
120.8
115.1
110.0
104.9
99.2
92.2
81.4
64.9
50.9
43.2
35.0
26.7
17.2
8.9
2.5
0.0
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