

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: P947285

Luminaire Tested: **GALN-SB2C-935-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947285
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-SB2C-935-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 3500K, 615mA 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: 8025 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

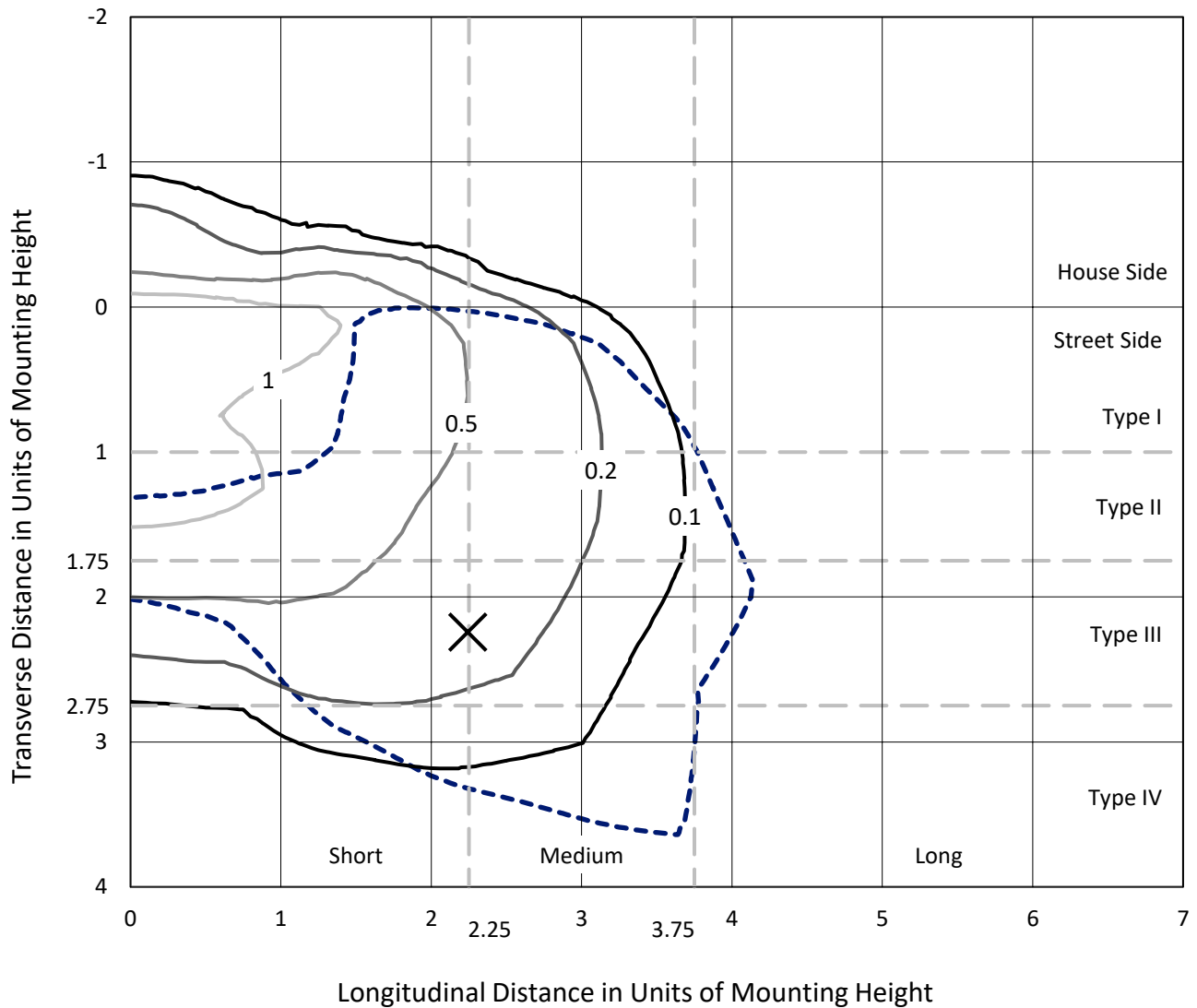
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

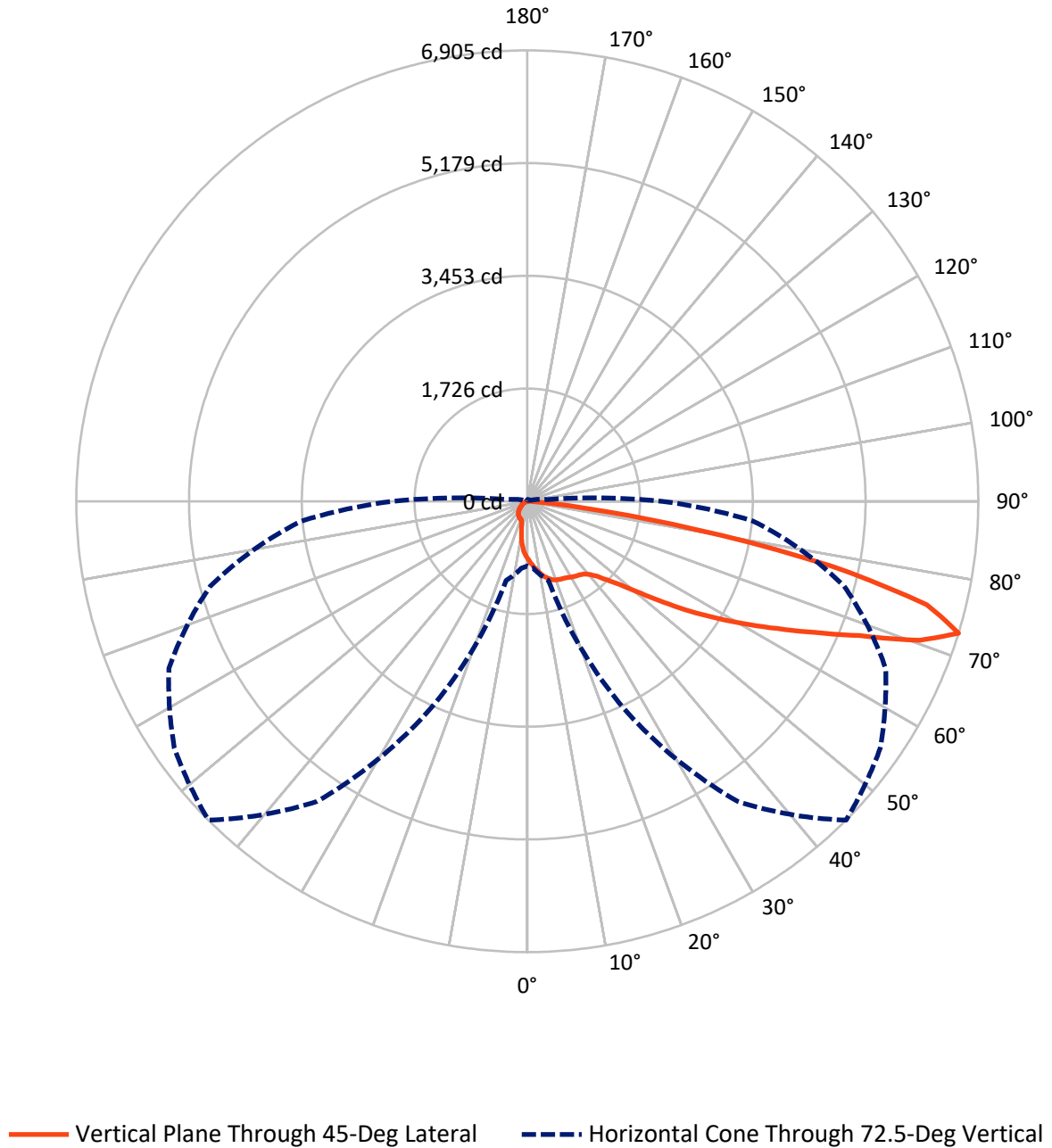
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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	843.2	0.0	843.2
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	7181.8	0.0	7181.8
	% Fixture	89.5	0.0	89.5
Total	Lumens	8025.0	0.0	8025.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.8	1.0
10°-20°	242.1	3.0
20°-30°	397.5	5.0
30°-40°	563.8	7.0
40°-50°	931.9	11.6
50°-60°	1674.1	20.9
60°-70°	2324.6	29.0
70°-80°	1686.2	21.0
80°-90°	121.9	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°	8025.0	100.0
0°-180°	8025.0	100.0

Coefficient of Utilization



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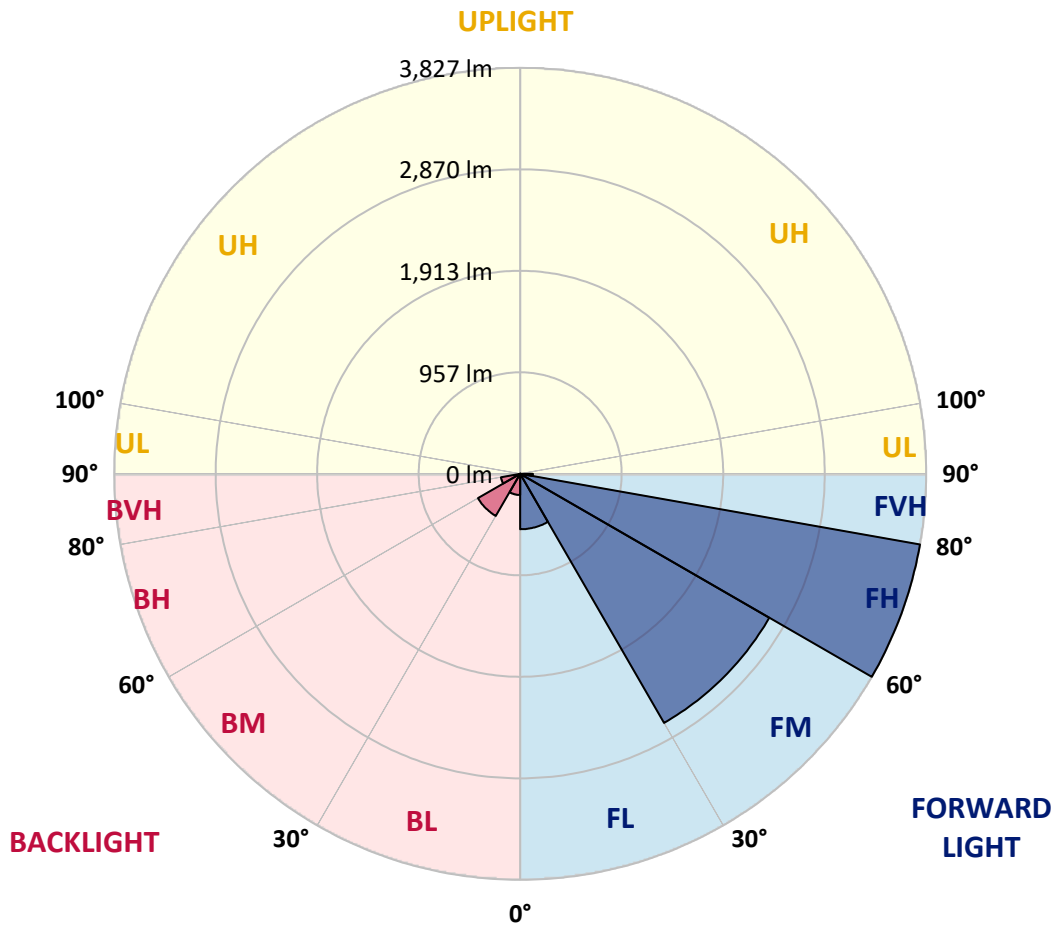
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	522.7	6.5			
FM (30°-60°)	2711.3	33.8			
FH (60°-80°)	3826.9	47.7			G2/5000
FVH (80°-90°)	120.9	1.5			G2/225
BL (0°-30°)	199.7	2.5	B1/500		
BM (30°-60°)	458.6	5.7	B1/1000		
BH (60°-80°)	183.9	2.3	B1/500		G1/500
BVH (80°-90°)	1.0	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°	35°	45°	46°	55°	65°	75°
0°	879.2	879.2	879.2	879.2	879.2	879.2	879.2	879.2	879.2	879.2
2.5°	960.2	961.9	960.8	954.2	943.2	937.2	933.9	923.0	915.9	903.3
5°	1048.4	1055.0	1051.2	1038.0	1017.2	1002.4	998.0	975.6	955.3	931.7
7.5°	1142.1	1145.4	1138.2	1121.3	1093.3	1068.1	1064.3	1033.1	1000.8	964.6
10°	1223.1	1227.0	1216.0	1191.4	1159.6	1128.4	1122.9	1088.4	1050.1	1005.7
12.5°	1291.1	1294.9	1280.7	1251.1	1216.0	1183.7	1178.2	1142.1	1099.9	1050.6
15°	1342.6	1349.7	1330.5	1298.7	1260.9	1228.6	1225.9	1190.3	1149.2	1094.4
17.5°	1372.7	1379.8	1361.7	1323.4	1291.1	1263.7	1260.4	1230.8	1192.5	1139.9
20°	1377.6	1384.2	1365.0	1331.6	1304.8	1282.9	1281.2	1259.8	1231.9	1181.5
22.5°	1362.8	1371.0	1353.5	1326.7	1308.1	1296.5	1294.4	1282.3	1266.4	1223.7
25°	1347.5	1354.1	1340.9	1317.4	1307.5	1306.4	1308.1	1305.9	1302.6	1266.4
27.5°	1346.4	1353.5	1338.7	1316.3	1310.8	1322.3	1323.9	1334.3	1337.1	1305.3
30°	1355.7	1360.6	1346.4	1322.8	1320.1	1346.4	1346.9	1365.6	1369.9	1338.2
32.5°	1376.0	1381.5	1367.2	1332.7	1328.9	1365.6	1367.2	1391.9	1399.0	1373.2
35°	1423.6	1430.2	1413.8	1360.1	1346.4	1383.6	1388.6	1417.6	1431.8	1410.5
37.5°	1542.5	1523.3	1500.9	1415.4	1386.4	1412.1	1420.3	1454.3	1479.5	1454.9
40°	1837.7	1777.5	1707.4	1509.6	1456.5	1472.9	1479.5	1513.5	1548.0	1523.9
42.5°	2280.9	2209.7	2096.8	1726.5	1562.2	1570.4	1575.4	1604.9	1653.7	1634.5
45°	2675.8	2650.1	2535.0	2096.8	1760.0	1719.4	1725.4	1740.8	1812.5	1805.4
47.5°	2979.3	2964.5	2875.7	2521.9	2094.1	1901.8	1918.8	1925.9	2029.5	2054.7
50°	3212.6	3207.1	3127.7	2899.8	2530.7	2170.8	2176.8	2161.5	2316.5	2378.9
52.5°	3432.8	3451.4	3392.8	3251.0	2996.8	2523.0	2521.9	2449.6	2658.8	2753.0
55°	3631.7	3638.2	3644.3	3609.2	3465.7	2923.9	2913.5	2795.2	3056.0	3153.5
57.5°	3818.4	3821.2	3874.9	3946.6	3953.7	3354.5	3335.3	3193.4	3489.8	3559.3
60°	3943.9	3956.5	4069.9	4269.2	4356.3	3798.7	3788.3	3643.7	3931.3	3963.6
62.5°	3763.1	3839.8	4125.7	4521.2	4736.5	4291.2	4286.2	4150.4	4395.8	4369.5
65°	3046.1	3175.9	3678.8	4691.6	5109.5	4841.1	4848.2	4703.6	4872.9	4787.4
67.5°	2130.8	2267.7	2862.6	4705.3	5526.4	5486.9	5528.0	5301.2	5379.6	5187.8
70°	1473.5	1544.1	1931.4	4410.6	5851.2	6376.5	6375.4	6035.2	5883.5	5370.2
72.5°	990.9	1027.6	1254.4	3499.1	5612.4	6905.1	6873.3	6596.1	6053.3	5022.4
75°	417.9	444.8	580.6	1966.5	4440.1	6317.3	6231.3	5829.3	5378.5	3954.8
77.5°	132.6	144.1	229.0	703.9	2445.8	4748.5	4657.6	3640.4	3604.8	1984.0
80°	63.0	73.4	128.7	282.6	962.4	2582.7	2570.1	1651.5	1550.7	535.7
82.5°	27.4	32.3	71.2	151.2	430.5	921.3	940.0	562.0	465.0	203.2
85°	8.8	11.5	32.9	69.6	181.9	229.0	226.2	133.7	187.3	110.6
87.5°	0.0	0.0	11.0	15.9	18.6	13.1	14.8	11.5	52.0	30.7
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°
879.2	0°	879.2	879.2	879.2	879.2	879.2	879.2	879.2	879.2	879.2	879.2
890.1	2.5°	883.5	874.8	859.4	845.2	832.6	820.0	812.3	801.4	800.3	800.3
904.4	5°	889.6	875.3	847.9	818.9	785.5	753.7	721.9	691.3	681.4	674.3
927.4	7.5°	907.1	884.6	841.4	786.0	722.5	652.9	604.2	551.6	531.3	520.4
958.0	10°	932.3	901.6	835.9	738.9	636.0	541.2	471.6	414.7	392.7	383.4
991.4	12.5°	960.2	922.4	826.0	680.3	541.2	427.8	359.9	333.6	330.3	330.3
1031.4	15°	993.6	947.6	809.0	611.3	442.0	338.5	314.4	315.5	318.8	321.0
1070.3	17.5°	1028.1	974.5	782.2	534.1	354.4	304.6	305.1	306.7	309.5	311.7
1112.5	20°	1065.4	1001.3	746.6	451.9	304.0	294.7	296.3	298.0	300.2	301.3
1151.9	22.5°	1105.4	1026.5	704.4	371.4	287.0	286.5	287.0	288.7	291.4	291.4
1198.0	25°	1148.1	1054.4	656.2	312.8	278.3	278.3	279.4	280.5	282.6	282.6
1242.3	27.5°	1191.9	1080.2	605.3	282.1	270.6	270.0	270.0	271.7	272.8	273.3
1286.1	30°	1240.1	1110.3	554.3	275.5	264.6	261.8	260.2	261.3	262.4	262.9
1332.2	32.5°	1289.4	1139.3	508.9	278.3	258.5	253.6	248.1	247.0	247.0	249.2
1379.8	35°	1344.2	1171.1	473.8	287.6	255.3	241.6	232.8	227.9	228.4	231.7
1436.8	37.5°	1409.9	1209.5	448.1	295.8	253.1	227.9	213.6	207.6	203.8	207.6
1515.1	40°	1495.9	1265.9	429.4	302.4	250.3	212.0	192.8	183.0	175.8	178.0
1636.7	42.5°	1622.5	1354.6	422.3	302.9	244.3	193.4	171.4	158.3	147.9	148.4
1819.7	45°	1799.9	1494.8	459.0	295.8	231.2	173.1	149.0	131.5	124.9	123.2
2093.0	47.5°	2043.1	1699.2	543.9	281.0	212.0	153.4	127.1	112.3	107.4	104.6
2451.8	50°	2369.1	1961.5	638.1	264.6	192.8	134.7	109.0	99.7	96.4	93.7
2877.4	52.5°	2747.0	2227.7	715.4	248.1	173.6	118.3	97.5	92.0	89.3	87.1
3288.2	55°	3093.8	2411.2	711.0	230.6	155.0	105.2	89.3	86.0	82.7	80.5
3642.1	57.5°	3309.6	2437.0	586.1	211.4	133.7	94.8	81.6	79.4	75.6	72.9
3948.3	60°	3408.7	2290.2	410.8	186.2	112.3	84.9	73.4	72.3	67.4	63.5
4238.0	62.5°	3426.8	2017.4	273.9	155.0	93.7	75.6	65.2	63.5	57.0	50.4
4473.6	65°	3353.4	1627.4	189.5	121.1	80.0	65.7	55.9	52.6	45.5	38.9
4529.4	67.5°	3121.1	1142.6	132.0	87.1	67.9	52.0	44.4	43.3	37.8	32.3
4244.6	70°	2695.5	651.3	88.2	65.2	53.7	35.6	35.1	36.2	30.7	26.3
3467.9	72.5°	2066.7	298.0	54.8	47.7	36.7	24.1	27.9	28.5	23.6	19.7
2163.7	75°	1216.6	127.6	34.5	30.7	18.6	15.9	20.3	20.8	15.9	12.6
791.0	77.5°	414.1	48.2	21.9	18.1	9.3	8.8	13.1	13.1	8.8	4.9
158.9	80°	94.2	18.1	11.0	7.1	4.4	3.8	4.4	3.8	2.2	0.5
48.8	82.5°	26.8	7.1	4.4	2.7	1.6	1.6	0.5	0.0	0.0	0.0
17.0	85°	7.7	3.3	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
6.0	87.5°	3.3	0.5	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>
879.2
803.0
677.6
522.0
383.4
330.3
321.0
311.7
301.8
292.5
283.2
273.9
264.0
250.9
233.3
206.5
176.9
146.3
121.1
103.0
93.1
86.5
79.4
72.3
62.4
47.1
36.7
30.7
24.1
17.5
11.0
3.8
0.0
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