

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: P946907

Luminaire Tested: **GALN-SB2B-930-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946907
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-SB2B-930-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 3000K, 450mA 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: 6034 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

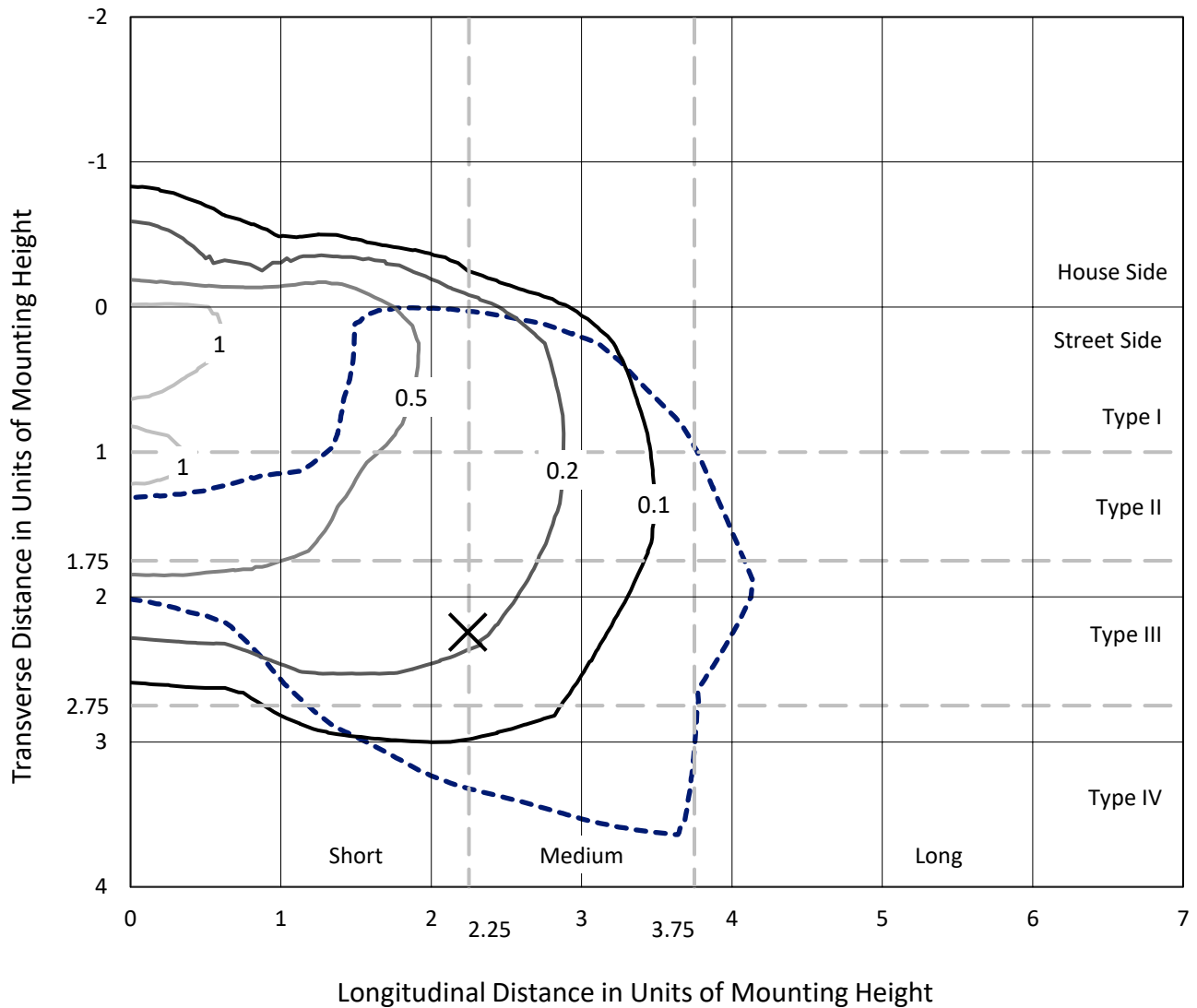
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

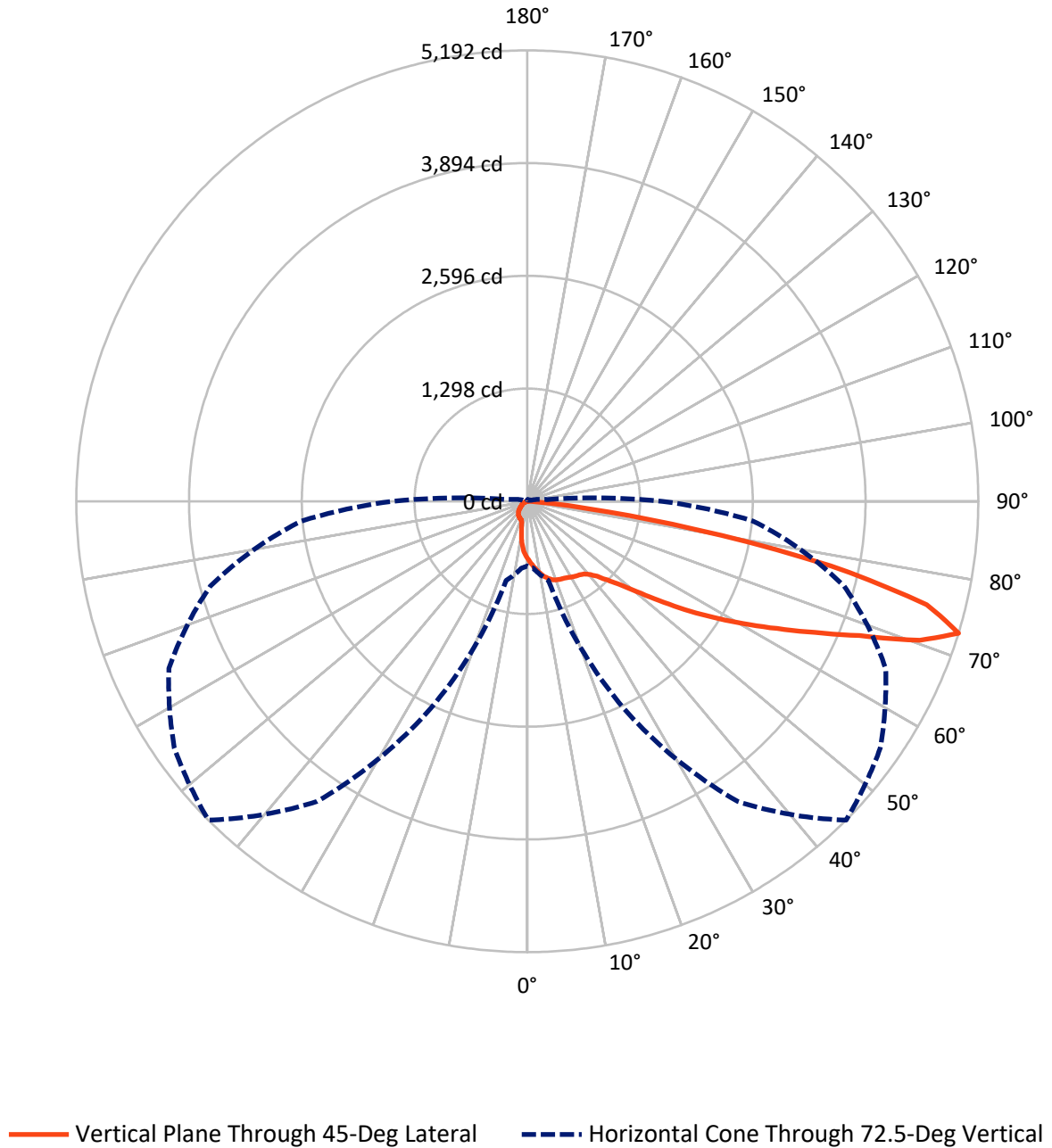
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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	634.0	0.0	634.0
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	5400.0	0.0	5400.0
	% Fixture	89.5	0.0	89.5
Total	Lumens	6034.0	0.0	6034.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.3	1.0
10°-20°	182.0	3.0
20°-30°	298.9	5.0
30°-40°	423.9	7.0
40°-50°	700.7	11.6
50°-60°	1258.8	20.9
60°-70°	1747.9	29.0
70°-80°	1267.8	21.0
80°-90°	91.7	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°	6034.0	100.0
0°-180°	6034.0	100.0

Coefficient of Utilization



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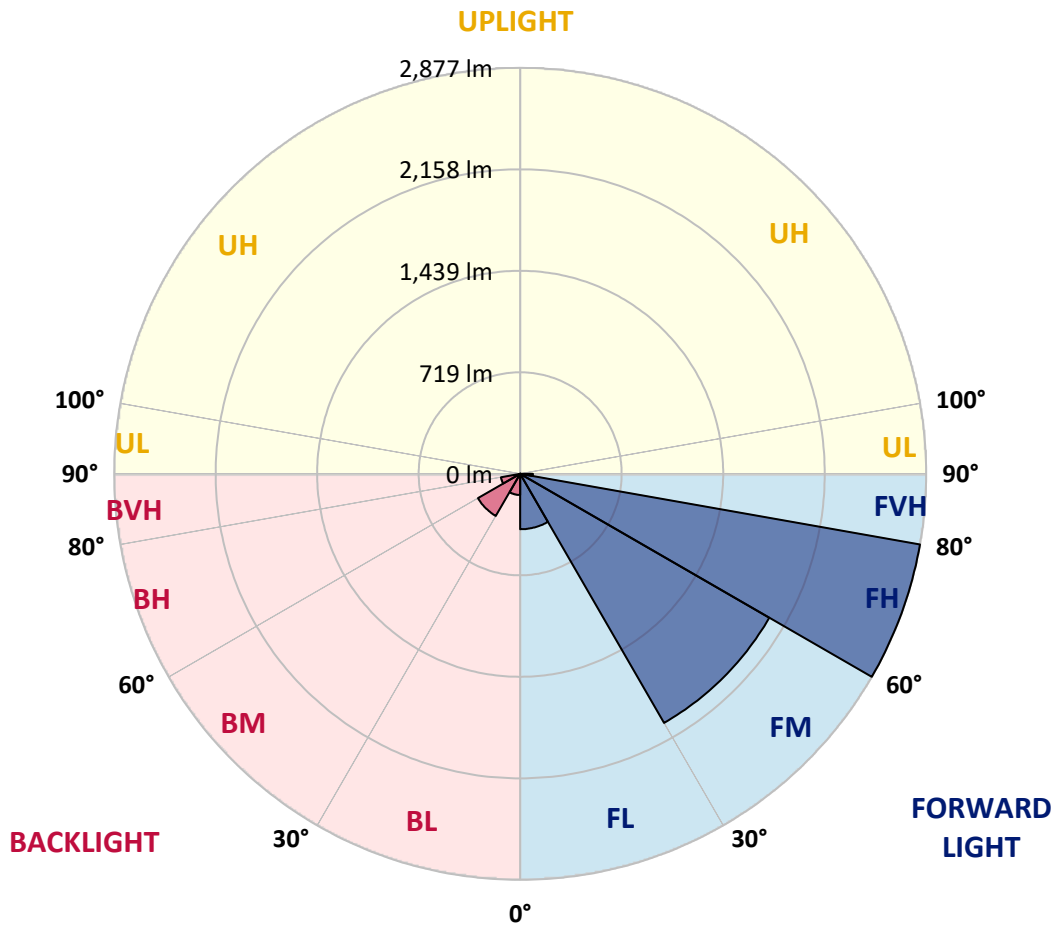
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	393.1	6.5			
FM (30°-60°)	2038.6	33.8			
FH (60°-80°)	2877.4	47.7			G2/5000
FVH (80°-90°)	90.9	1.5			G1/100
BL (0°-30°)	150.2	2.5	B1/500		
BM (30°-60°)	344.8	5.7	B1/1000		
BH (60°-80°)	138.3	2.3	B1/500		G1/500
BVH (80°-90°)	0.8	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°	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0
2.5°	722.0	723.2	722.4	717.5	709.2	704.7	702.2	694.0	688.6	679.2
5°	788.3	793.2	790.4	780.5	764.8	753.7	750.4	733.5	718.3	700.6
7.5°	858.7	861.2	855.8	843.1	822.1	803.1	800.2	776.8	752.5	725.3
10°	919.7	922.6	914.3	895.8	871.9	848.4	844.3	818.4	789.5	756.2
12.5°	970.8	973.6	962.9	940.7	914.3	890.0	885.9	858.7	827.0	790.0
15°	1009.5	1014.8	1000.4	976.5	948.1	923.8	921.7	895.0	864.1	822.9
17.5°	1032.1	1037.5	1023.9	995.1	970.8	950.2	947.7	925.5	896.6	857.1
20°	1035.8	1040.8	1026.4	1001.2	981.1	964.6	963.3	947.3	926.3	888.4
22.5°	1024.7	1030.9	1017.7	997.5	983.5	974.9	973.2	964.2	952.2	920.1
25°	1013.2	1018.1	1008.2	990.5	983.1	982.3	983.5	981.9	979.4	952.2
27.5°	1012.4	1017.7	1006.6	989.7	985.6	994.2	995.5	1003.3	1005.4	981.5
30°	1019.4	1023.1	1012.4	994.6	992.6	1012.4	1012.8	1026.8	1030.1	1006.2
32.5°	1034.6	1038.7	1028.0	1002.1	999.2	1026.8	1028.0	1046.5	1051.9	1032.5
35°	1070.4	1075.4	1063.0	1022.7	1012.4	1040.4	1044.1	1065.9	1076.6	1060.5
37.5°	1159.8	1145.4	1128.5	1064.2	1042.4	1061.8	1068.0	1093.5	1112.4	1093.9
40°	1381.8	1336.5	1283.8	1135.1	1095.1	1107.5	1112.4	1138.0	1163.9	1145.8
42.5°	1715.0	1661.4	1576.6	1298.2	1174.6	1180.8	1184.5	1206.8	1243.4	1229.0
45°	2011.9	1992.6	1906.1	1576.6	1323.3	1292.8	1297.4	1308.9	1362.8	1357.5
47.5°	2240.1	2229.0	2162.3	1896.2	1574.5	1430.0	1442.8	1448.1	1525.9	1544.9
50°	2415.6	2411.4	2351.7	2180.4	1902.8	1632.2	1636.7	1625.2	1741.8	1788.7
52.5°	2581.1	2595.1	2551.1	2444.4	2253.3	1897.0	1896.2	1841.8	1999.2	2070.0
55°	2730.6	2735.6	2740.1	2713.8	2605.8	2198.5	2190.7	2101.7	2297.8	2371.1
57.5°	2871.1	2873.1	2913.5	2967.5	2972.8	2522.2	2507.8	2401.2	2624.0	2676.3
60°	2965.4	2974.9	3060.1	3210.0	3275.5	2856.3	2848.4	2739.7	2955.9	2980.2
62.5°	2829.5	2887.1	3102.1	3399.5	3561.4	3226.5	3222.8	3120.7	3305.2	3285.4
65°	2290.4	2388.0	2766.1	3527.6	3841.8	3640.0	3645.4	3536.7	3663.9	3599.7
67.5°	1602.1	1705.1	2152.4	3537.9	4155.3	4125.6	4156.5	3986.0	4044.9	3900.7
70°	1107.9	1161.0	1452.2	3316.3	4399.5	4794.5	4793.7	4537.9	4423.8	4037.9
72.5°	745.1	772.7	943.2	2631.0	4219.9	5191.9	5168.0	4959.6	4551.5	3776.4
75°	314.3	334.4	436.6	1478.6	3338.5	4750.0	4685.3	4383.0	4044.1	2973.6
77.5°	99.7	108.3	172.2	529.2	1839.0	3570.4	3502.1	2737.2	2710.5	1491.8
80°	47.4	55.2	96.8	212.5	723.6	1941.9	1932.5	1241.8	1166.0	402.8
82.5°	20.6	24.3	53.5	113.7	323.7	692.8	706.8	422.6	349.7	152.8
85°	6.6	8.6	24.7	52.3	136.7	172.2	170.1	100.5	140.9	83.2
87.5°	0.0	0.0	8.2	11.9	14.0	9.9	11.1	8.6	39.1	23.1
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°
661.0	0°	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0
669.3	2.5°	664.3	657.7	646.2	635.5	626.0	616.6	610.8	602.6	601.7	601.7
680.0	5°	668.9	658.2	637.6	615.7	590.6	566.7	542.8	519.8	512.4	507.0
697.3	7.5°	682.0	665.2	632.6	591.0	543.2	490.9	454.3	414.7	399.5	391.3
720.3	10°	701.0	677.9	628.5	555.6	478.2	406.9	354.6	311.8	295.3	288.3
745.5	12.5°	722.0	693.6	621.1	511.5	406.9	321.7	270.6	250.8	248.4	248.4
775.5	15°	747.1	712.5	608.3	459.6	332.4	254.5	236.4	237.2	239.7	241.4
804.8	17.5°	773.1	732.7	588.1	401.6	266.5	229.0	229.4	230.6	232.7	234.3
836.5	20°	801.1	752.9	561.4	339.8	228.6	221.6	222.8	224.1	225.7	226.5
866.1	22.5°	831.1	771.8	529.7	279.2	215.8	215.4	215.8	217.1	219.1	219.1
900.7	25°	863.3	792.8	493.4	235.2	209.2	209.2	210.0	210.9	212.5	212.5
934.1	27.5°	896.2	812.2	455.1	212.1	203.5	203.0	203.0	204.3	205.1	205.5
967.1	30°	932.5	834.8	416.8	207.2	198.9	196.9	195.6	196.5	197.3	197.7
1001.6	32.5°	969.5	856.7	382.6	209.2	194.4	190.7	186.6	185.7	185.7	187.4
1037.5	35°	1010.7	880.6	356.3	216.2	191.9	181.6	175.0	171.3	171.7	174.2
1080.3	37.5°	1060.1	909.4	336.9	222.4	190.3	171.3	160.6	156.1	153.2	156.1
1139.2	40°	1124.8	951.8	322.9	227.3	188.2	159.4	145.0	137.6	132.2	133.9
1230.6	42.5°	1219.9	1018.5	317.5	227.8	183.7	145.4	128.9	119.0	111.2	111.6
1368.2	45°	1353.4	1124.0	345.1	222.4	173.8	130.1	112.0	98.8	93.9	92.7
1573.7	47.5°	1536.2	1277.6	409.0	211.3	159.4	115.3	95.6	84.4	80.7	78.7
1843.5	50°	1781.3	1474.9	479.8	198.9	145.0	101.3	82.0	75.0	72.5	70.4
2163.5	52.5°	2065.5	1675.0	537.9	186.6	130.6	89.0	73.3	69.2	67.1	65.5
2472.4	55°	2326.2	1813.0	534.6	173.4	116.6	79.1	67.1	64.7	62.2	60.5
2738.5	57.5°	2488.5	1832.4	440.7	159.0	100.5	71.3	61.4	59.7	56.8	54.8
2968.7	60°	2563.0	1722.0	308.9	140.0	84.4	63.8	55.2	54.4	50.7	47.8
3186.6	62.5°	2576.6	1516.9	205.9	116.6	70.4	56.8	49.0	47.8	42.8	37.9
3363.7	65°	2521.4	1223.6	142.5	91.0	60.1	49.4	42.0	39.5	34.2	29.2
3405.7	67.5°	2346.8	859.1	99.3	65.5	51.1	39.1	33.4	32.5	28.4	24.3
3191.5	70°	2026.8	489.7	66.3	49.0	40.4	26.8	26.4	27.2	23.1	19.8
2607.5	72.5°	1554.0	224.1	41.2	35.8	27.6	18.1	21.0	21.4	17.7	14.8
1626.9	75°	914.7	96.0	25.9	23.1	14.0	11.9	15.2	15.7	11.9	9.5
594.7	77.5°	311.4	36.2	16.5	13.6	7.0	6.6	9.9	9.9	6.6	3.7
119.4	80°	70.8	13.6	8.2	5.4	3.3	2.9	3.3	2.9	1.6	0.4
36.7	82.5°	20.2	5.4	3.3	2.1	1.2	1.2	0.4	0.0	0.0	0.0
12.8	85°	5.8	2.5	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
4.5	87.5°	2.5	0.4	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>
661.0
603.8
509.5
392.5
288.3
248.4
241.4
234.3
226.9
219.9
212.9
205.9
198.5
188.6
175.5
155.3
133.0
110.0
91.0
77.4
70.0
65.1
59.7
54.4
47.0
35.4
27.6
23.1
18.1
13.2
8.2
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0.0
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