

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: P939886

Luminaire Tested: **GALN-SB2C-940-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939886
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2C-940-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8512 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

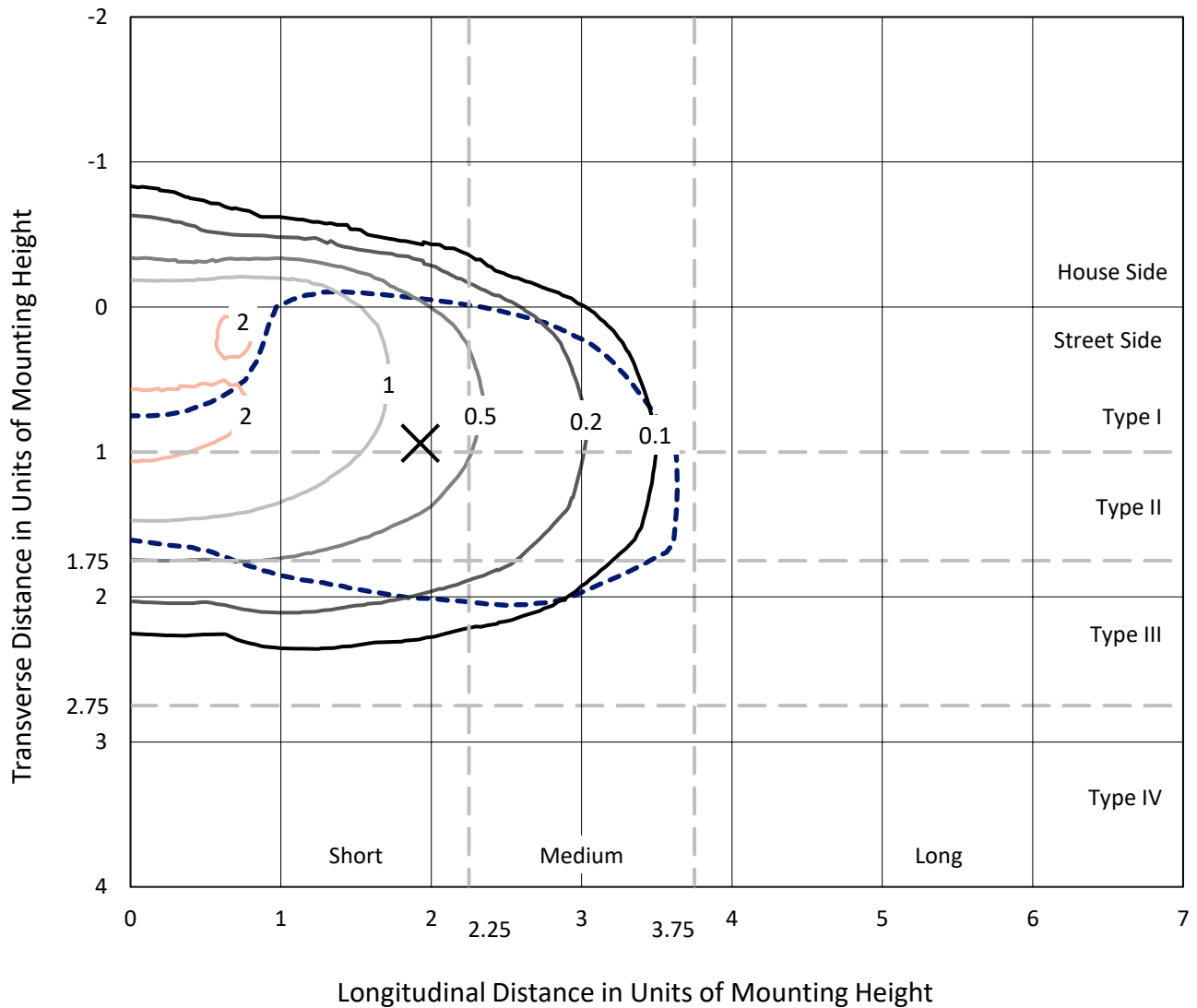
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

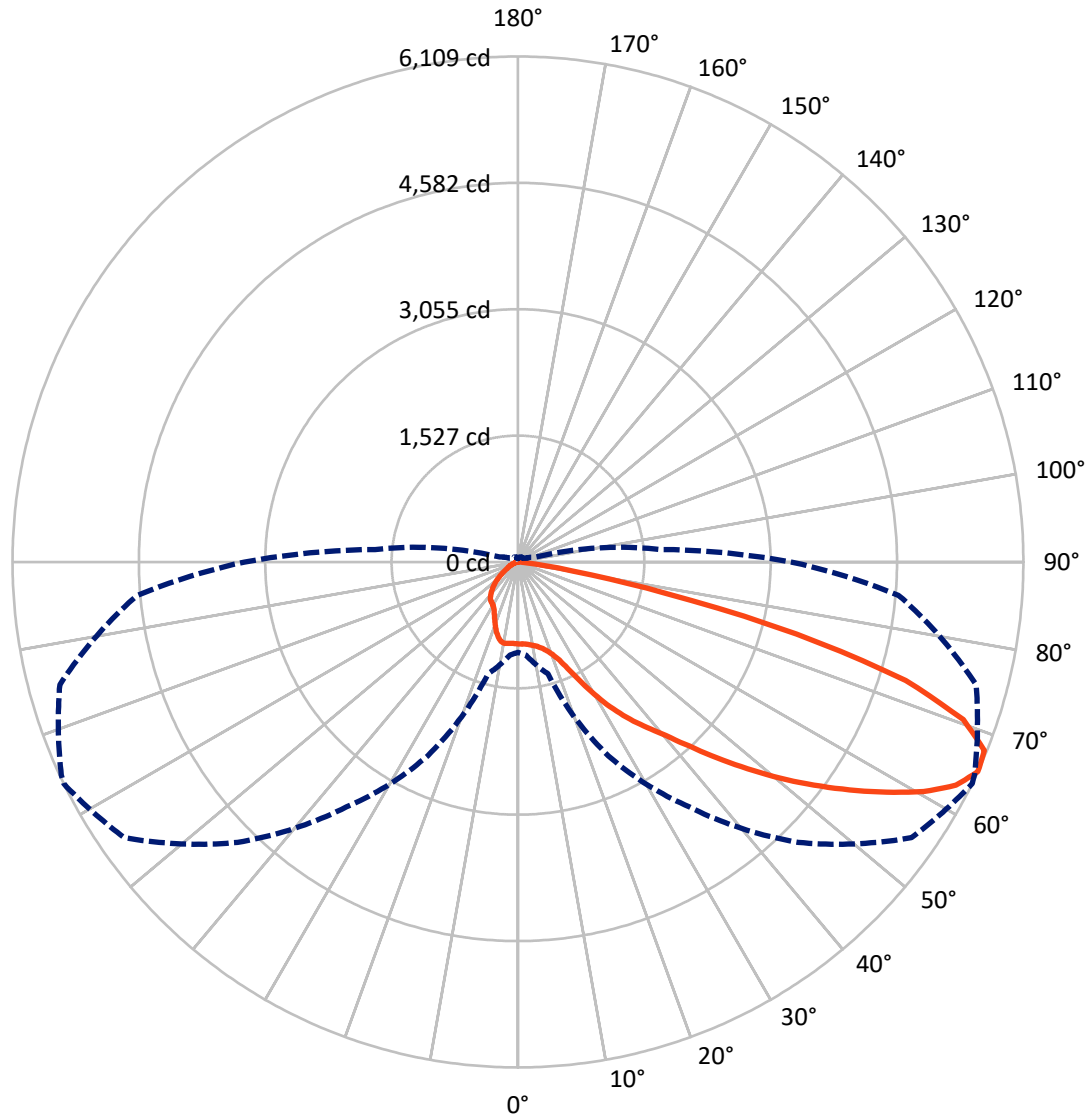
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1138.3	0.0	1138.3
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	7373.7	0.0	7373.7
	% Fixture	86.6	0.0	86.6
Total	Lumens	8512.0	0.0	8512.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.3	1.1
10°-20°	247.7	2.9
20°-30°	469.4	5.5
30°-40°	949.9	11.2
40°-50°	1618.2	19.0
50°-60°	2200.7	25.9
60°-70°	2066.5	24.3
70°-80°	827.9	9.7
80°-90°	40.1	0.5
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°	8512.0	100.0
0°-180°	8512.0	100.0

Coefficient of Utilization



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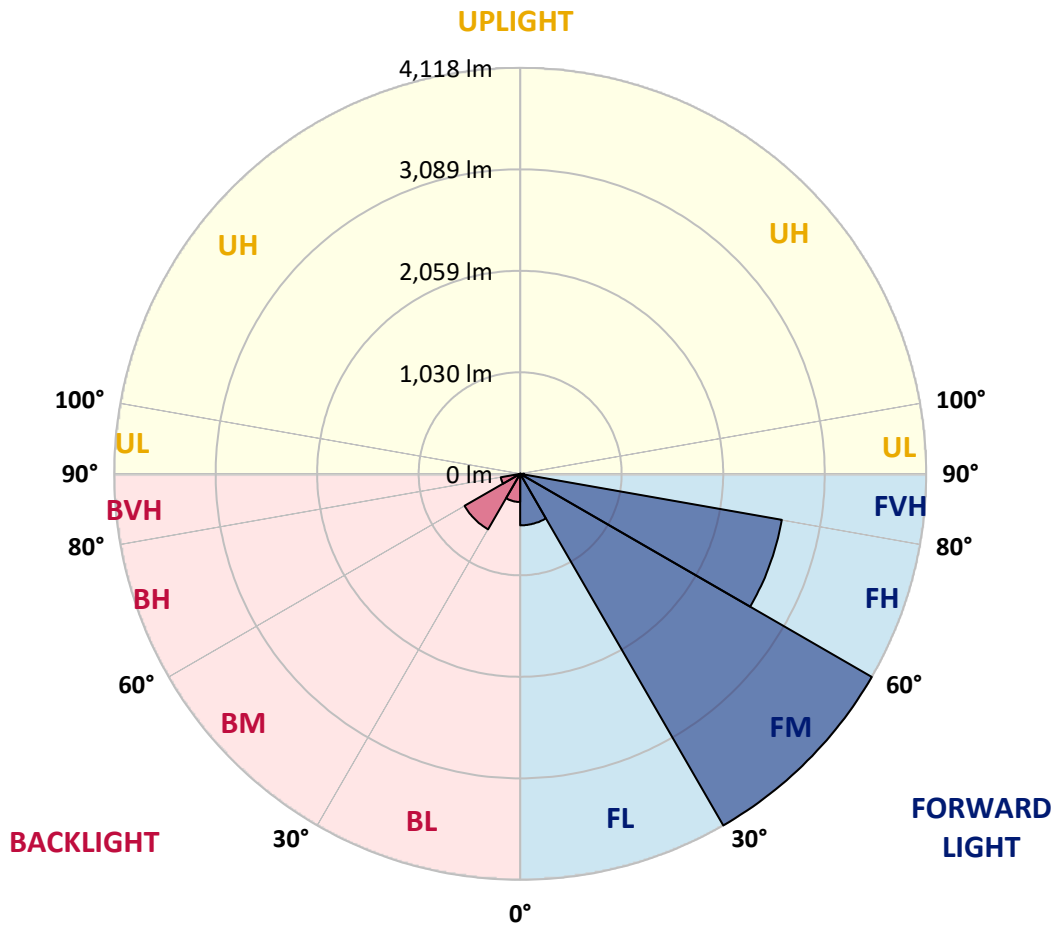
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	522.7	6.1			
FM (30°-60°)	4118.1	48.4			
FH (60°-80°)	2694.7	31.7			G2/5000
FVH (80°-90°)	38.2	0.4			G1/100
BL (0°-30°)	285.8	3.4	B1/500		
BM (30°-60°)	650.8	7.6	B1/1000		
BH (60°-80°)	199.8	2.3	B1/500		G1/500
BVH (80°-90°)	2.0	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	990.0	990.0	990.0	990.0	990.0	990.0	990.0	990.0	990.0	990.0
2.5°	986.6	993.5	991.7	990.0	989.5	990.6	991.2	990.6	990.6	990.6
5°	967.8	973.5	973.5	977.5	983.2	990.0	995.2	996.3	997.5	999.2
7.5°	931.8	936.4	939.8	952.9	967.2	985.5	1000.9	1008.9	1010.0	1016.3
10°	907.3	913.0	918.7	932.4	952.9	980.3	1006.6	1026.0	1028.8	1043.7
12.5°	906.2	911.9	919.3	934.1	958.1	987.2	1019.1	1047.1	1052.2	1073.9
15°	918.1	925.0	931.8	950.1	975.8	1011.1	1045.4	1080.2	1085.3	1116.1
17.5°	942.7	951.8	956.9	975.2	1002.6	1042.0	1087.0	1127.0	1131.5	1167.5
20°	991.2	1002.0	1003.7	1018.6	1045.4	1087.6	1141.2	1190.9	1196.6	1237.7
22.5°	1091.6	1107.0	1093.3	1100.7	1124.7	1166.9	1225.1	1287.9	1295.9	1342.7
25°	1268.5	1290.2	1254.8	1242.3	1252.5	1296.5	1369.5	1448.8	1457.9	1495.6
27.5°	1616.0	1588.0	1534.4	1481.9	1451.1	1476.2	1558.4	1656.5	1667.9	1704.5
30°	1997.8	1973.2	1900.8	1784.3	1711.3	1707.3	1783.2	1892.8	1905.9	1940.7
32.5°	2380.1	2356.7	2277.9	2134.7	2008.0	1945.3	1997.8	2119.3	2126.1	2148.4
35°	2756.1	2732.2	2653.4	2506.8	2351.0	2208.3	2198.0	2335.0	2337.3	2360.7
37.5°	3134.4	3114.5	3030.6	2886.8	2733.3	2536.4	2441.1	2539.3	2542.1	2565.0
40°	3404.3	3412.9	3355.3	3244.0	3112.2	2897.1	2713.9	2756.7	2739.6	2777.8
42.5°	3636.0	3653.1	3602.9	3547.0	3470.5	3281.1	3051.7	3044.3	3016.9	3037.4
45°	3836.3	3850.6	3805.5	3792.4	3790.7	3657.7	3420.9	3376.4	3338.2	3334.2
47.5°	3909.9	3937.3	3956.7	4000.7	4086.2	4030.3	3802.6	3733.6	3690.8	3659.4
50°	3937.9	3967.0	4033.2	4161.0	4363.6	4387.5	4182.7	4105.1	4052.6	3995.5
52.5°	3900.2	3952.1	4041.2	4256.3	4550.2	4674.0	4547.3	4479.4	4419.5	4326.5
55°	3678.2	3730.2	3912.2	4255.1	4643.2	4874.8	4892.0	4861.7	4794.4	4647.7
57.5°	3210.3	3287.4	3575.5	4110.2	4641.5	5047.7	5229.8	5251.5	5176.1	4966.1
60°	2562.1	2666.5	3018.0	3788.9	4498.2	5141.3	5525.9	5634.3	5554.5	5280.0
62.5°	1787.8	1908.7	2241.4	3285.7	4170.7	5074.0	5742.2	5942.5	5882.0	5560.7
65°	1090.5	1129.3	1397.5	2585.5	3613.8	4792.1	5809.0	6109.1	6089.1	5732.5
67.5°	726.4	758.9	836.0	1772.9	2805.2	4228.9	5649.2	6080.0	6085.7	5704.5
70°	437.7	465.6	515.8	1031.1	1818.0	3347.3	5154.5	5709.1	5742.2	5330.8
72.5°	180.3	199.1	244.8	467.3	941.5	2124.4	4104.5	4901.7	4978.7	4482.3
75°	102.1	111.8	143.8	234.5	408.6	990.0	2486.2	3479.7	3593.2	3089.4
77.5°	67.9	72.5	93.0	151.8	230.0	337.8	1062.5	1812.9	2029.7	1687.3
80°	45.6	49.6	63.9	101.6	149.5	144.9	338.4	671.6	826.3	579.8
82.5°	30.8	31.4	45.6	66.8	94.7	70.2	99.9	208.8	262.5	167.8
85°	17.7	17.1	33.7	38.8	42.2	29.1	30.2	62.8	82.2	70.8
87.5°	2.3	3.4	13.1	10.3	5.7	6.3	6.3	10.8	16.0	17.1
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°
990.0	0°	990.0	990.0	990.0	990.0	990.0	990.0	990.0	990.0	990.0	990.0
991.2	2.5°	991.2	990.6	988.9	987.2	983.2	980.9	982.0	980.9	980.3	980.9
998.6	5°	998.6	996.9	992.3	986.6	978.6	968.9	962.6	953.5	945.0	939.8
1018.6	7.5°	1018.6	1016.9	1010.6	994.6	968.9	928.4	891.3	858.8	834.3	820.0
1050.5	10°	1050.5	1047.7	1038.0	1002.6	935.3	846.8	773.2	712.1	672.2	653.4
1088.2	12.5°	1088.2	1084.8	1067.6	995.2	871.3	733.3	631.7	563.8	526.7	510.1
1131.5	15°	1132.7	1128.1	1094.5	959.8	778.3	607.7	514.7	463.9	440.0	425.1
1186.9	17.5°	1188.0	1180.1	1114.4	906.7	677.3	511.9	442.8	404.6	383.5	369.2
1259.4	20°	1259.9	1246.8	1130.4	843.4	584.3	451.4	394.3	362.3	346.4	333.8
1362.1	22.5°	1360.4	1341.5	1149.8	774.9	518.7	409.7	358.4	335.0	321.8	307.6
1505.3	25°	1484.8	1462.5	1173.8	711.6	473.6	373.8	332.1	312.7	297.3	280.7
1693.0	27.5°	1658.8	1618.9	1202.3	659.6	434.8	342.9	308.1	286.5	268.8	255.1
1905.9	30°	1852.8	1787.2	1227.4	628.3	399.4	314.4	276.8	255.1	238.5	228.8
2097.0	32.5°	2036.6	1947.5	1244.0	614.6	367.5	281.9	242.5	219.1	206.6	203.7
2284.2	35°	2210.0	2092.5	1242.3	601.4	339.0	249.4	208.8	184.9	175.2	176.9
2485.6	37.5°	2409.7	2247.1	1230.3	580.9	315.6	219.7	179.7	158.6	150.1	150.6
2730.4	40°	2642.0	2425.7	1222.8	542.1	289.9	192.3	155.8	138.7	132.4	130.1
2988.4	42.5°	2889.6	2598.6	1224.0	498.2	257.9	167.8	139.2	125.0	119.3	117.5
3275.4	45°	3138.4	2763.5	1225.7	452.5	224.3	148.9	127.2	115.3	111.8	109.6
3566.4	47.5°	3372.4	2903.9	1193.7	403.4	191.2	134.7	117.5	109.6	106.7	103.9
3858.6	50°	3590.4	2997.5	1116.7	346.4	164.9	123.3	110.1	104.4	101.6	98.7
4123.3	52.5°	3759.8	3012.3	989.5	287.6	146.7	114.7	105.6	100.4	97.0	94.2
4337.3	55°	3835.2	2919.3	808.6	232.8	132.4	107.3	101.0	95.9	91.9	89.0
4505.7	57.5°	3815.8	2723.6	630.5	187.2	118.7	99.9	95.3	91.9	87.3	82.7
4642.0	60°	3720.5	2461.7	475.3	155.8	106.1	91.9	89.0	86.2	79.9	73.0
4694.5	62.5°	3555.6	2132.4	339.0	129.0	92.4	82.7	81.6	79.3	70.2	57.6
4616.9	65°	3303.3	1732.4	228.2	107.3	79.3	72.5	73.0	69.0	57.1	42.8
4332.8	67.5°	2934.7	1266.8	146.1	87.9	66.2	60.5	61.1	58.8	48.5	36.5
3794.1	70°	2465.1	838.8	95.3	66.8	53.1	46.8	50.2	50.8	41.1	29.7
2911.9	72.5°	1807.2	495.3	66.8	49.6	38.8	32.5	41.1	42.2	33.1	22.3
1751.8	75°	1030.0	235.1	50.2	35.9	24.0	22.8	32.0	32.0	22.8	14.8
758.4	77.5°	432.5	98.1	35.4	23.4	13.7	13.1	21.7	20.0	11.4	6.8
184.9	80°	125.0	43.9	18.8	11.4	5.7	5.1	8.6	6.3	2.9	1.1
70.2	82.5°	49.1	19.4	7.4	4.6	2.3	2.3	1.1	0.0	0.0	0.0
39.9	85°	29.1	8.0	3.4	1.7	0.6	0.0	0.0	0.0	0.0	0.0
8.6	87.5°	7.4	1.7	1.1	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>
990.0
983.2
941.0
820.6
651.7
508.4
425.7
368.1
331.5
305.3
279.0
252.2
227.1
205.4
176.9
152.9
129.5
117.0
109.6
103.9
98.7
93.6
88.4
82.2
71.9
56.5
41.7
34.8
28.5
21.1
13.7
6.8
1.1
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