

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: P946231

Luminaire Tested: **GALN-SB1D-940-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946231  
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-SB1D-940-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 4000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

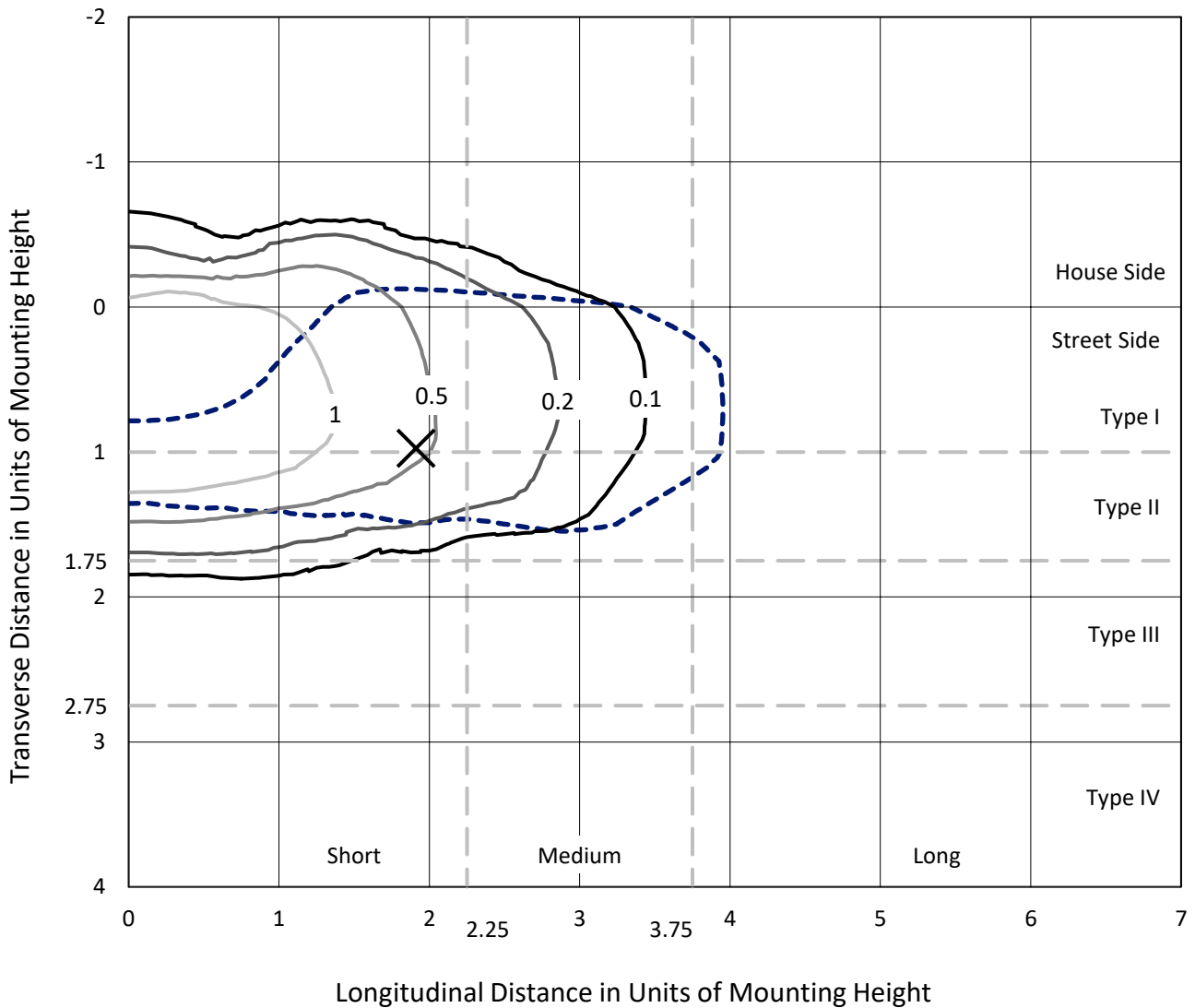
Lumens per Lamp: N/A  
Luminaire Lumens: 5637 lumens  
Efficiency: N/A  
Efficacy: 70.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

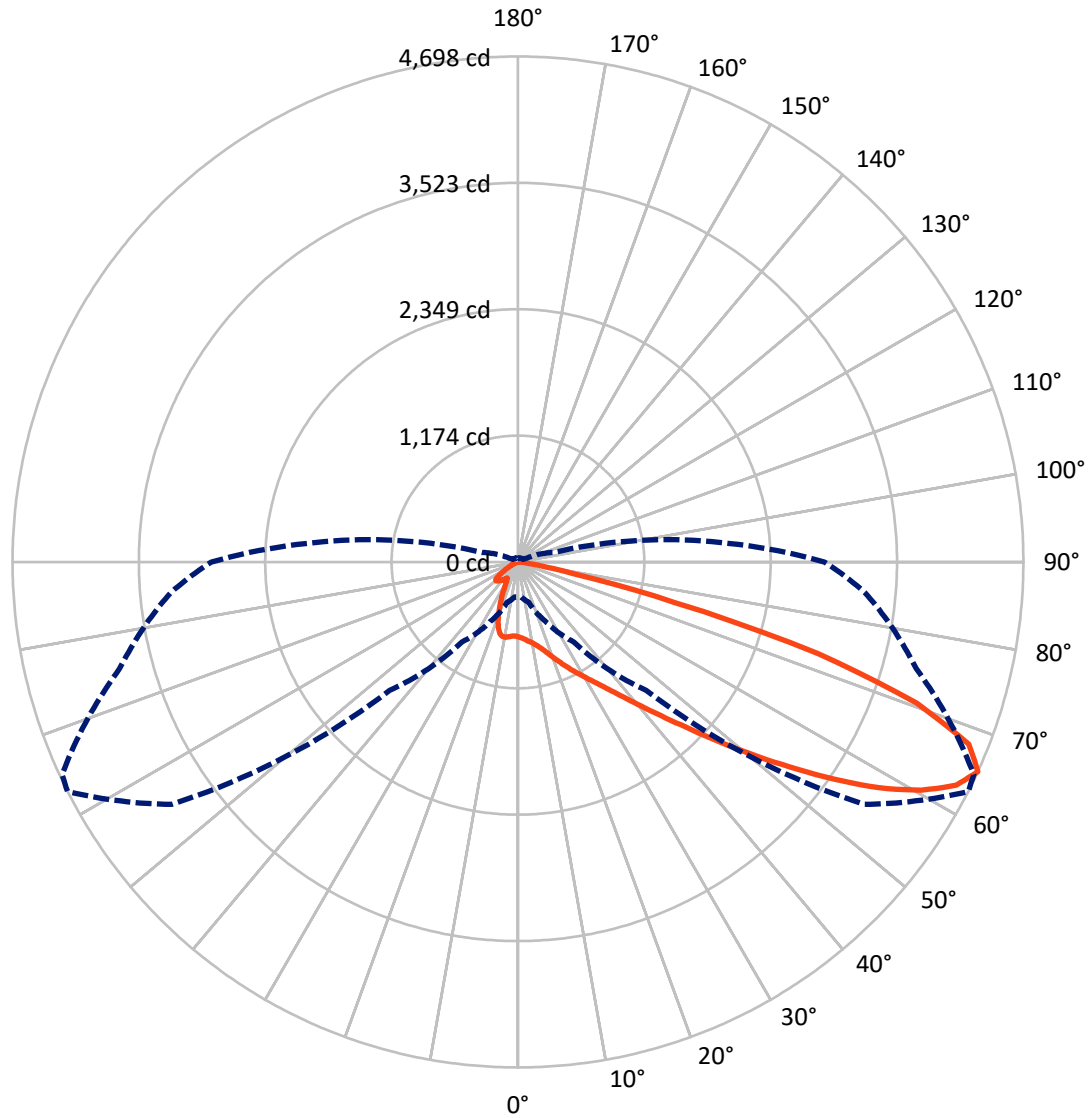
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc  
 Type 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
<b>House Side</b>	Lumens	828.6	0.0	828.6
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	4808.4	0.0	4808.4
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	5637.0	0.0	5637.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.5	1.2
10°-20°	181.9	3.2
20°-30°	316.7	5.6
30°-40°	570.8	10.1
40°-50°	1132.1	20.1
50°-60°	1542.1	27.4
60°-70°	1230.9	21.8
70°-80°	557.0	9.9
80°-90°	40.0	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°	5637.0	100.0
0°-180°	5637.0	100.0

**Coefficient of Utilization**



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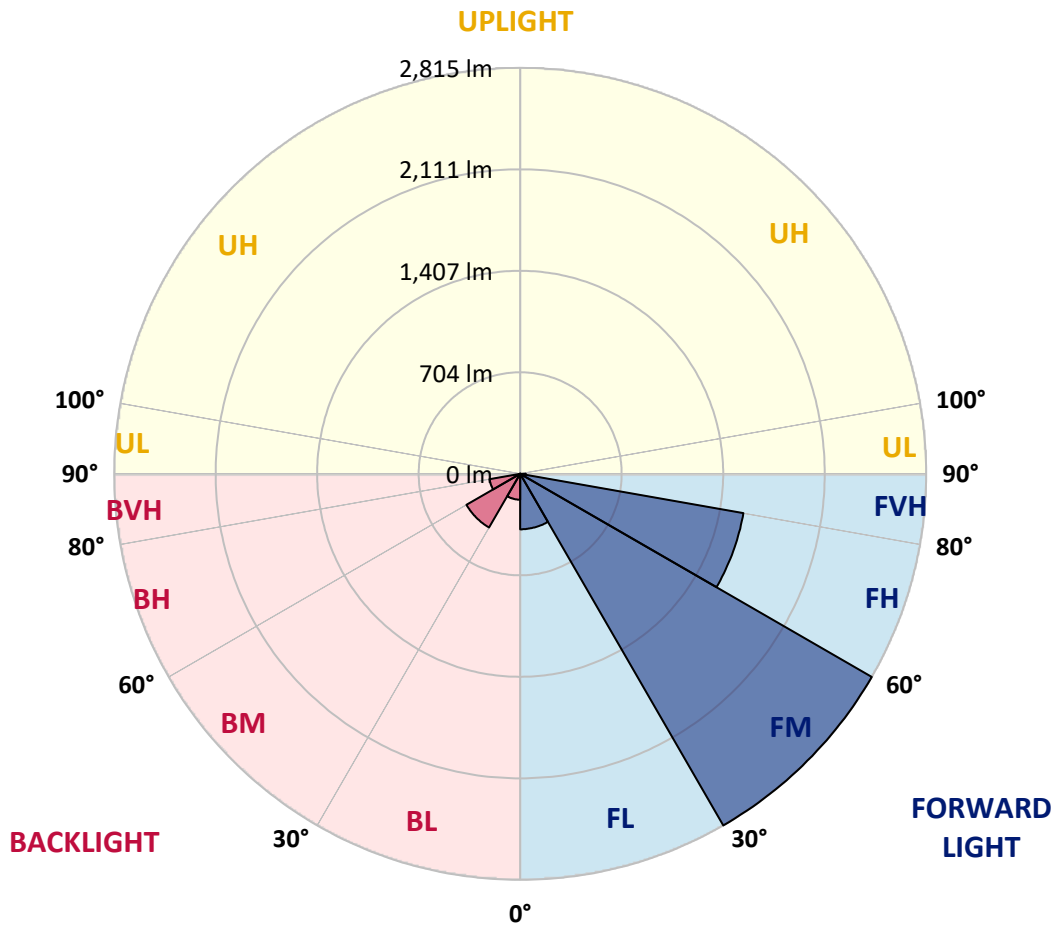
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	384.8	6.8			
FM (30°-60°)	2815.0	49.9			
FH (60°-80°)	1571.6	27.9			G1/1800
FVH (80°-90°)	37.1	0.7			G1/100
BL (0°-30°)	179.3	3.2	B1/500		
BM (30°-60°)	430.0	7.6	B1/1000		
BH (60°-80°)	216.3	3.8	B1/500		G1/500
BVH (80°-90°)	3.0	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-G1**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	695.7	695.7	695.7	695.7	695.7	695.7	695.7	695.7	695.7	695.7
2.5°	712.0	710.1	712.8	711.6	710.8	709.3	708.5	707.7	706.2	705.0
5°	713.9	712.8	715.5	717.8	720.1	722.5	723.6	725.2	723.6	720.5
7.5°	697.7	696.9	702.7	709.7	720.1	729.1	738.8	744.2	744.6	743.4
10°	696.5	694.5	700.4	708.9	722.5	738.4	755.4	767.1	768.6	773.7
12.5°	714.7	712.8	720.9	730.2	744.2	760.9	781.8	798.1	800.4	807.4
15°	745.4	742.6	751.9	764.0	781.8	800.8	822.9	837.6	839.6	848.1
17.5°	781.0	778.3	789.2	802.0	821.4	847.3	872.9	889.2	891.6	897.0
20°	826.8	823.3	831.8	843.5	864.0	895.0	925.7	948.9	948.6	948.6
22.5°	879.9	874.5	881.9	891.2	910.6	948.2	988.9	1016.4	1016.4	1005.6
25°	936.9	931.5	939.6	948.2	965.2	1007.9	1055.6	1089.7	1091.3	1072.7
27.5°	1008.3	1001.3	1007.5	1017.6	1027.7	1071.1	1127.7	1167.3	1168.1	1139.4
30°	1145.6	1125.8	1106.4	1095.5	1100.2	1143.2	1203.7	1247.6	1251.4	1211.9
32.5°	1396.9	1393.0	1324.7	1235.5	1189.0	1220.8	1288.7	1341.4	1343.7	1292.9
35°	1787.4	1782.7	1673.0	1503.1	1351.5	1324.7	1391.8	1454.2	1452.7	1395.3
37.5°	2253.5	2249.2	2104.6	1877.3	1631.9	1481.8	1524.8	1590.4	1600.1	1524.8
40°	2651.8	2635.9	2544.4	2325.2	2004.1	1742.4	1714.1	1757.5	1767.6	1678.4
42.5°	2953.5	2939.9	2893.4	2756.5	2454.8	2127.9	1937.1	1953.7	1965.0	1857.9
45°	3109.8	3106.7	3125.3	3112.5	2913.9	2601.0	2255.8	2186.4	2190.7	2056.9
47.5°	3131.9	3130.3	3215.2	3335.5	3308.7	3134.6	2665.0	2476.5	2461.4	2281.4
50°	3001.6	2998.5	3161.3	3386.7	3572.4	3582.9	3129.5	2803.4	2770.1	2513.7
52.5°	2585.5	2584.7	2852.3	3227.3	3665.1	3975.3	3588.7	3162.5	3106.7	2759.6
55°	1989.4	2003.8	2310.5	2753.8	3496.0	4164.2	4000.9	3561.2	3475.5	3007.0
57.5°	1409.3	1430.2	1733.5	2128.2	2971.7	4052.5	4279.8	3960.6	3868.3	3253.6
60°	757.0	775.6	1079.2	1550.4	2210.8	3636.0	4426.7	4307.3	4220.0	3487.9
62.5°	451.0	457.2	582.9	1000.9	1495.4	2777.8	4364.3	4571.4	4499.6	3684.5
65°	323.8	325.0	388.2	611.2	907.8	1687.7	3926.5	4697.8	4675.7	3832.6
67.5°	272.6	271.8	298.2	406.0	618.5	845.4	3009.3	4519.0	4612.9	3926.5
70°	233.8	235.0	266.0	297.4	465.0	478.5	1496.1	3934.6	4134.7	3951.3
72.5°	174.1	178.0	206.7	271.1	351.0	329.2	516.5	2917.4	3279.2	3722.9
75°	122.9	124.9	145.4	228.0	261.8	239.7	263.7	1508.2	1972.0	2854.2
77.5°	94.6	98.1	110.1	159.4	257.9	168.3	161.3	522.0	802.0	1724.2
80°	51.2	57.4	79.5	115.2	181.1	119.1	79.9	207.9	271.8	806.2
82.5°	26.4	29.5	55.5	83.0	103.2	103.9	39.6	86.5	112.1	249.0
85°	10.5	12.8	37.2	45.8	53.1	51.2	17.8	34.9	40.3	69.0
87.5°	2.3	3.9	13.6	10.5	10.1	10.9	4.3	8.1	7.8	8.1
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°
695.7	0°	695.7	695.7	695.7	695.7	695.7	695.7	695.7	695.7	695.7	695.7
700.4	2.5°	700.0	698.4	694.2	689.5	684.1	681.0	679.0	678.6	675.9	674.0
715.9	5°	711.6	710.1	701.9	692.2	681.8	673.6	665.9	658.9	648.8	646.8
738.4	7.5°	734.9	730.6	717.4	704.2	684.5	660.8	632.1	599.2	569.7	560.8
768.2	10°	763.6	757.8	741.1	717.8	674.0	609.6	540.2	475.8	424.6	410.3
803.5	12.5°	796.2	791.1	769.0	726.0	630.2	513.4	407.2	327.3	277.7	265.3
841.1	15°	834.9	827.6	796.9	713.6	551.8	390.1	279.6	232.3	214.5	212.1
884.2	17.5°	876.0	864.0	821.7	669.0	446.4	277.3	216.0	202.4	194.7	192.3
927.6	20°	913.7	898.1	836.5	601.5	333.5	216.0	193.5	184.6	177.6	174.9
971.0	22.5°	951.3	929.2	836.5	509.6	250.1	191.6	177.6	169.5	161.3	157.8
1017.6	25°	990.4	961.0	821.7	407.2	201.3	175.7	162.5	153.6	146.6	142.3
1061.8	27.5°	1028.4	987.7	788.0	310.2	179.2	161.7	148.5	140.0	133.4	130.3
1109.9	30°	1064.5	1014.1	740.7	235.4	164.8	148.1	135.7	128.4	121.8	118.7
1172.3	32.5°	1113.4	1047.4	690.3	193.1	152.4	135.3	124.1	117.1	111.3	109.0
1253.4	35°	1181.2	1096.7	646.8	189.6	141.9	124.9	113.6	107.0	101.2	99.3
1358.1	37.5°	1277.4	1176.2	624.0	212.9	133.4	115.6	105.1	98.1	92.7	91.1
1491.1	40°	1396.1	1284.0	636.4	236.2	127.6	107.4	97.3	90.4	85.7	83.8
1643.9	42.5°	1536.8	1417.0	705.0	254.0	123.7	100.4	90.0	82.2	79.1	78.3
1817.2	45°	1698.6	1563.2	810.1	273.0	117.5	93.8	82.6	76.8	74.5	74.1
2005.7	47.5°	1882.4	1723.8	931.9	296.7	111.3	87.6	76.8	72.9	71.0	70.2
2202.3	50°	2064.6	1885.5	1057.1	309.9	106.3	81.8	72.1	69.0	67.5	67.1
2410.2	52.5°	2255.4	2051.8	1158.4	297.4	102.0	77.2	68.3	65.9	64.4	64.0
2601.7	55°	2437.3	2186.4	1175.8	252.5	93.5	72.5	64.0	62.8	60.9	60.9
2796.0	57.5°	2594.0	2253.9	1052.5	185.4	84.9	65.5	59.7	58.6	57.0	56.6
2971.3	60°	2737.9	2234.5	812.4	124.9	75.6	58.6	54.3	53.5	52.0	50.0
3123.7	62.5°	2818.9	2149.2	555.7	81.4	66.3	51.2	48.1	47.7	44.2	40.3
3236.6	65°	2849.6	1973.9	346.7	59.3	55.5	43.8	41.5	40.7	35.7	31.4
3300.6	67.5°	2822.8	1685.4	174.9	46.9	43.8	36.5	34.1	34.1	30.6	26.8
3296.7	70°	2715.8	1263.5	73.7	37.6	33.7	27.9	27.9	29.5	26.0	21.7
3125.7	72.5°	2483.5	850.1	39.2	28.7	25.2	19.8	22.9	24.0	20.6	16.3
2558.3	75°	1974.3	518.5	27.1	21.3	15.9	14.0	17.5	18.2	14.0	10.9
1754.0	77.5°	1350.3	297.8	18.2	13.6	10.1	8.1	12.0	11.2	7.4	5.0
676.3	80°	592.9	124.1	10.5	6.2	3.9	3.1	4.3	3.1	2.3	1.6
92.7	82.5°	69.4	29.1	3.9	2.3	1.6	0.8	0.4	0.0	0.0	0.0
28.3	85°	14.3	3.5	1.9	0.8	0.4	0.0	0.0	0.0	0.0	0.0
5.0	87.5°	2.7	0.8	0.4	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>
695.7
675.9
646.1
556.5
404.9
261.8
209.8
191.2
173.3
155.9
140.8
130.3
119.1
109.0
99.3
90.7
83.4
78.3
73.7
70.2
67.1
64.0
60.5
56.2
49.6
39.6
31.0
26.4
21.3
16.3
10.5
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1.6
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