

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: P946504

Luminaire Tested: **GALN-SB2A-850-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946504
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-SB2A-850-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 5000K, 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: 6558 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

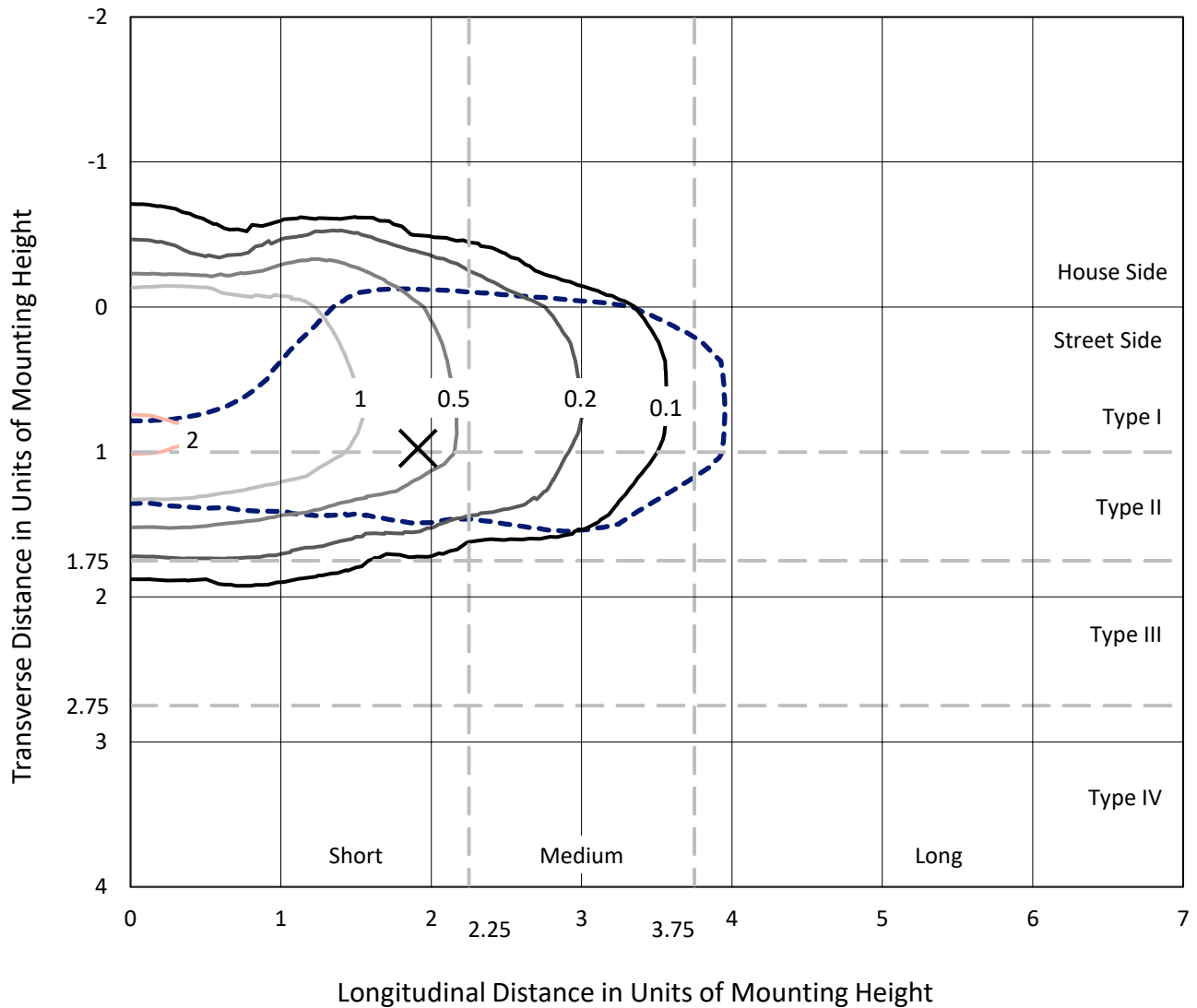
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

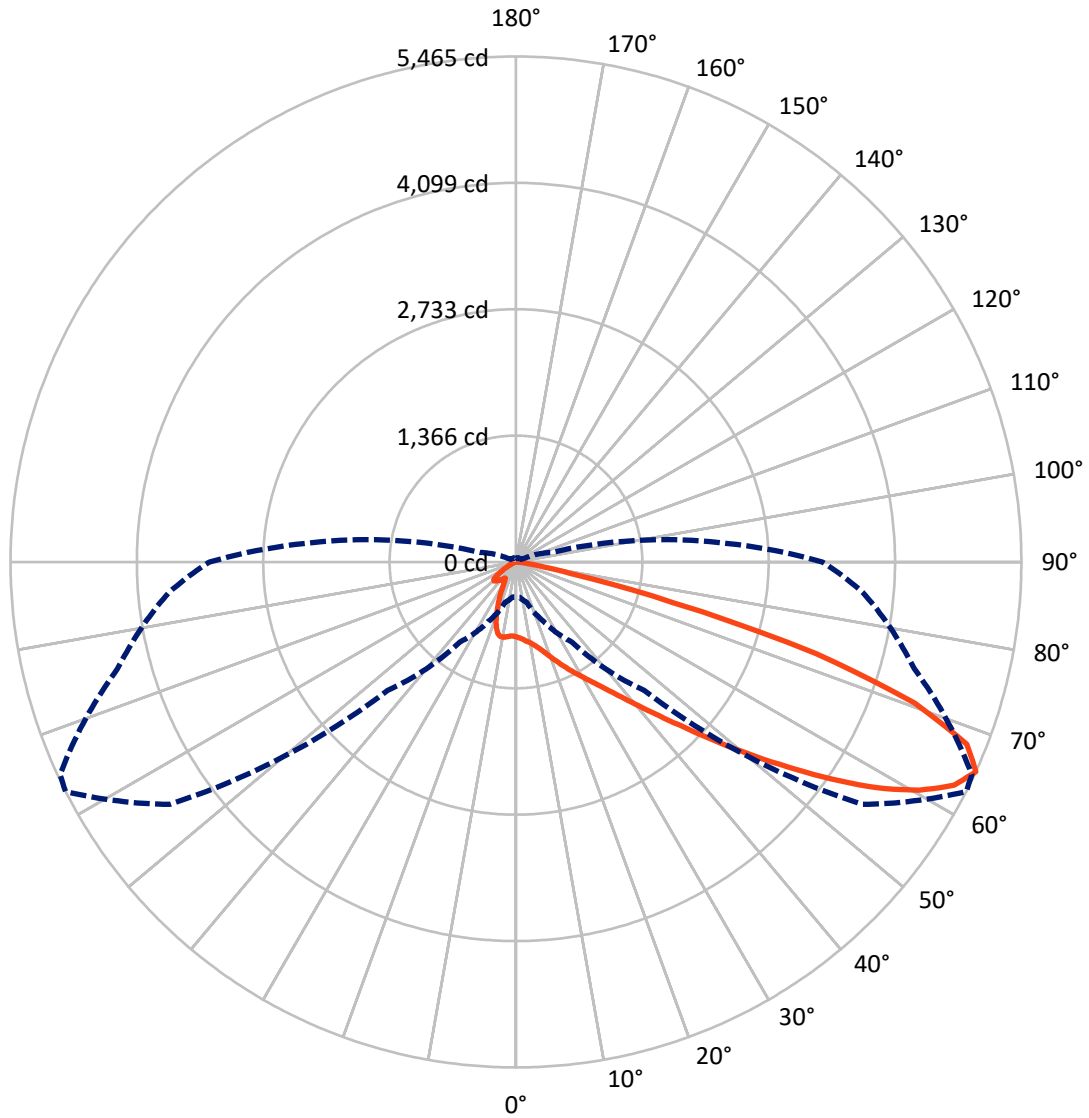
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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	964.0	0.0	964.0
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	5594.0	0.0	5594.0
	% Fixture	85.3	0.0	85.3
Total	Lumens	6558.0	0.0	6558.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.3	1.2
10°-20°	211.6	3.2
20°-30°	368.4	5.6
30°-40°	664.1	10.1
40°-50°	1317.0	20.1
50°-60°	1794.0	27.4
60°-70°	1432.0	21.8
70°-80°	648.0	9.9
80°-90°	46.6	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°	6558.0	100.0
0°-180°	6558.0	100.0

Coefficient of Utilization



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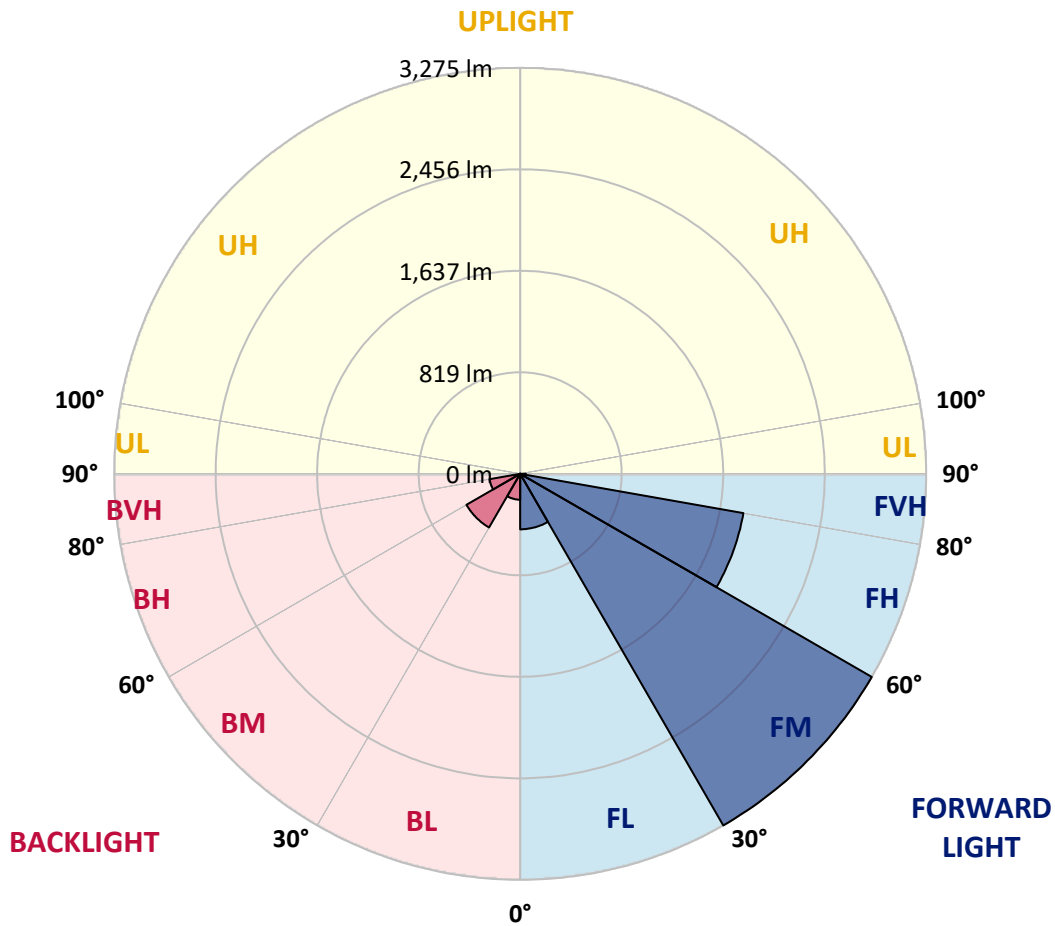
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	447.7	6.8			
FM (30°-60°)	3274.9	49.9			
FH (60°-80°)	1828.3	27.9			G2/5000
FVH (80°-90°)	43.1	0.7			G1/100
BL (0°-30°)	208.6	3.2	B1/500		
BM (30°-60°)	500.2	7.6	B1/1000		
BH (60°-80°)	251.7	3.8	B1/500		G1/500
BVH (80°-90°)	3.5	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°	809.4	809.4	809.4	809.4	809.4	809.4	809.4	809.4	809.4	809.4
2.5°	828.3	826.1	829.2	827.9	827.0	825.2	824.3	823.4	821.6	820.2
5°	830.6	829.2	832.4	835.1	837.8	840.5	841.9	843.7	841.9	838.3
7.5°	811.6	810.7	817.5	825.6	837.8	848.2	859.5	865.8	866.2	864.9
10°	810.3	808.0	814.8	824.7	840.5	859.0	878.9	892.4	894.2	900.1
12.5°	831.5	829.2	838.7	849.5	865.8	885.2	909.5	928.5	931.2	939.3
15°	867.1	864.0	874.8	888.8	909.5	931.6	957.4	974.5	976.8	986.7
17.5°	908.6	905.5	918.1	933.0	955.6	985.8	1015.6	1034.5	1037.2	1043.5
20°	961.9	957.8	967.7	981.3	1005.2	1041.3	1076.9	1104.0	1103.5	1103.5
22.5°	1023.7	1017.4	1025.9	1036.8	1059.3	1103.1	1150.5	1182.5	1182.5	1169.9
25°	1090.0	1083.7	1093.2	1103.1	1122.9	1172.6	1228.1	1267.8	1269.6	1247.9
27.5°	1173.0	1164.9	1172.1	1183.8	1195.6	1246.1	1312.0	1358.0	1358.9	1325.5
30°	1332.7	1309.7	1287.2	1274.5	1279.9	1330.0	1400.4	1451.4	1455.9	1409.9
32.5°	1625.1	1620.6	1541.2	1437.4	1383.3	1420.3	1499.2	1560.6	1563.3	1504.2
35°	2079.4	2074.0	1946.3	1748.7	1572.3	1541.2	1619.2	1691.9	1690.0	1623.3
37.5°	2621.7	2616.7	2448.4	2184.1	1898.5	1723.9	1774.0	1850.2	1861.5	1774.0
40°	3085.0	3066.5	2960.1	2705.2	2331.6	2027.1	1994.1	2044.7	2056.4	1952.6
42.5°	3436.0	3420.2	3366.1	3206.8	2855.8	2475.5	2253.5	2272.9	2286.0	2161.5
45°	3617.9	3614.2	3635.9	3621.0	3390.0	3025.9	2624.4	2543.6	2548.6	2393.0
47.5°	3643.6	3641.8	3740.6	3880.4	3849.3	3646.7	3100.4	2881.1	2863.5	2654.2
50°	3492.0	3488.4	3677.9	3940.0	4156.1	4168.3	3640.9	3261.4	3222.6	2924.4
52.5°	3007.9	3007.0	3318.3	3754.6	4263.9	4624.8	4175.0	3679.2	3614.2	3210.5
55°	2314.5	2331.1	2688.0	3203.7	4067.2	4844.6	4654.6	4143.0	4043.3	3498.3
57.5°	1639.5	1663.9	2016.7	2476.0	3457.2	4714.6	4979.0	4607.7	4500.3	3785.2
60°	880.7	902.3	1255.6	1803.7	2572.1	4230.1	5150.0	5011.0	4909.5	4057.7
62.5°	524.7	531.9	678.1	1164.4	1739.7	3231.7	5077.4	5318.3	5234.8	4286.5
65°	376.7	378.1	451.6	711.0	1056.2	1963.4	4568.0	5465.4	5439.6	4458.8
67.5°	317.2	316.3	346.9	472.4	719.6	983.5	3501.0	5257.4	5366.5	4568.0
70°	272.0	273.4	309.5	346.0	540.9	556.7	1740.6	4577.5	4810.3	4596.9
72.5°	202.6	207.1	240.5	315.4	408.3	383.0	600.9	3394.1	3815.0	4331.1
75°	143.0	145.3	169.2	265.3	304.5	278.8	306.8	1754.6	2294.1	3320.5
77.5°	110.1	114.1	128.1	185.4	300.0	195.8	187.7	607.3	933.0	2005.9
80°	59.6	66.8	92.5	134.0	210.7	138.5	92.9	241.8	316.3	938.0
82.5°	30.7	34.3	64.5	96.5	120.0	120.9	46.0	100.6	130.4	289.6
85°	12.2	14.9	43.3	53.2	61.8	59.6	20.8	40.6	46.9	80.3
87.5°	2.7	4.5	15.8	12.2	11.7	12.6	5.0	9.5	9.0	9.5
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°
809.4	0°	809.4	809.4	809.4	809.4	809.4	809.4	809.4	809.4	809.4	809.4
814.8	2.5°	814.3	812.5	807.6	802.2	795.8	792.2	790.0	789.5	786.4	784.1
832.8	5°	827.9	826.1	816.6	805.3	793.1	783.7	774.6	766.5	754.8	752.5
859.0	7.5°	854.9	850.0	834.6	819.3	796.3	768.8	735.4	697.0	662.8	652.4
893.7	10°	888.3	881.6	862.2	835.1	784.1	709.2	628.5	553.6	494.0	477.3
934.8	12.5°	926.2	920.4	894.7	844.6	733.1	597.3	473.7	380.8	323.0	308.6
978.6	15°	971.3	962.8	927.1	830.1	642.0	453.9	325.3	270.2	249.5	246.8
1028.6	17.5°	1019.2	1005.2	956.0	778.3	519.3	322.6	251.3	235.5	226.5	223.8
1079.2	20°	1062.9	1044.9	973.2	699.7	388.0	251.3	225.1	214.8	206.6	203.5
1129.7	22.5°	1106.7	1081.0	973.2	592.8	291.0	222.9	206.6	197.2	187.7	183.6
1183.8	25°	1152.3	1118.0	956.0	473.7	234.2	204.4	189.0	178.7	170.5	165.6
1235.3	27.5°	1196.5	1149.1	916.8	360.9	208.4	188.1	172.8	162.9	155.2	151.6
1291.2	30°	1238.4	1179.8	861.7	273.9	191.7	172.3	157.9	149.3	141.7	138.1
1363.9	32.5°	1295.3	1218.6	803.1	224.7	177.3	157.5	144.4	136.3	129.5	126.8
1458.1	35°	1374.2	1275.9	752.5	220.6	165.1	145.3	132.2	124.5	117.8	115.5
1580.0	37.5°	1486.1	1368.4	725.9	247.7	155.2	134.4	122.3	114.1	107.8	106.0
1734.7	40°	1624.2	1493.8	740.4	274.8	148.4	125.0	113.2	105.1	99.7	97.5
1912.5	42.5°	1787.9	1648.5	820.2	295.5	143.9	116.9	104.7	95.6	92.0	91.1
2114.1	45°	1976.1	1818.6	942.5	317.6	136.7	109.2	96.1	89.3	86.6	86.2
2333.4	47.5°	2189.9	2005.4	1084.1	345.1	129.5	102.0	89.3	84.8	82.6	81.7
2562.1	50°	2402.0	2193.5	1229.9	360.5	123.6	95.2	83.9	80.3	78.5	78.1
2804.0	52.5°	2623.9	2387.1	1347.6	346.0	118.7	89.8	79.4	76.7	74.9	74.4
3026.8	55°	2835.5	2543.6	1367.9	293.7	108.7	84.4	74.4	73.1	70.8	70.8
3252.9	57.5°	3017.8	2622.1	1224.4	215.7	98.8	76.2	69.5	68.1	66.3	65.9
3456.8	60°	3185.2	2599.6	945.2	145.3	88.0	68.1	63.2	62.3	60.5	58.2
3634.1	62.5°	3279.5	2500.3	646.5	94.7	77.1	59.6	55.9	55.5	51.4	46.9
3765.4	65°	3315.1	2296.4	403.3	69.0	64.5	51.0	48.3	47.4	41.5	36.5
3839.8	67.5°	3284.0	1960.7	203.5	54.6	51.0	42.4	39.7	39.7	35.6	31.1
3835.3	70°	3159.5	1469.9	85.7	43.8	39.3	32.5	32.5	34.3	30.2	25.3
3636.3	72.5°	2889.2	988.9	45.6	33.4	29.3	23.0	26.6	28.0	23.9	18.9
2976.3	75°	2296.9	603.2	31.6	24.8	18.5	16.2	20.3	21.2	16.2	12.6
2040.6	77.5°	1570.9	346.5	21.2	15.8	11.7	9.5	14.0	13.1	8.6	5.9
786.8	80°	689.8	144.4	12.2	7.2	4.5	3.6	5.0	3.6	2.7	1.8
107.8	82.5°	80.8	33.8	4.5	2.7	1.8	0.9	0.5	0.0	0.0	0.0
32.9	85°	16.7	4.1	2.3	0.9	0.5	0.0	0.0	0.0	0.0	0.0
5.9	87.5°	3.2	0.9	0.5	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>
809.4
786.4
751.6
647.4
471.0
304.5
244.1
222.4
201.7
181.4
163.8
151.6
138.5
126.8
115.5
105.6
97.0
91.1
85.7
81.7
78.1
74.4
70.4
65.4
57.7
46.0
36.1
30.7
24.8
18.9
12.2
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