

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: P947239

Luminaire Tested: **GALN-SB2C-927-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947239
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-SB2C-927-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 2700K, 615mA 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: 6967 lumens
Efficiency: N/A
Efficacy: 69.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

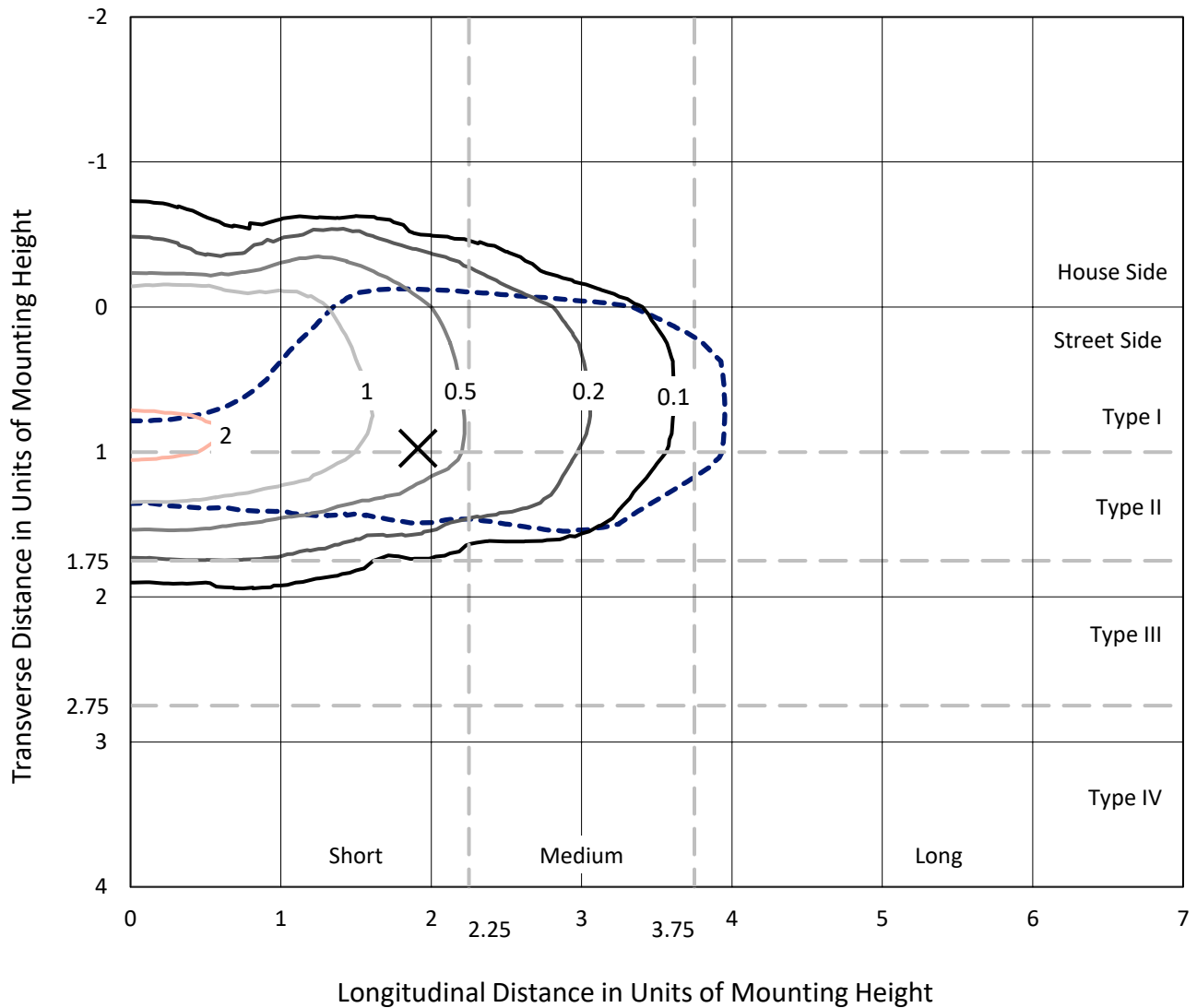
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

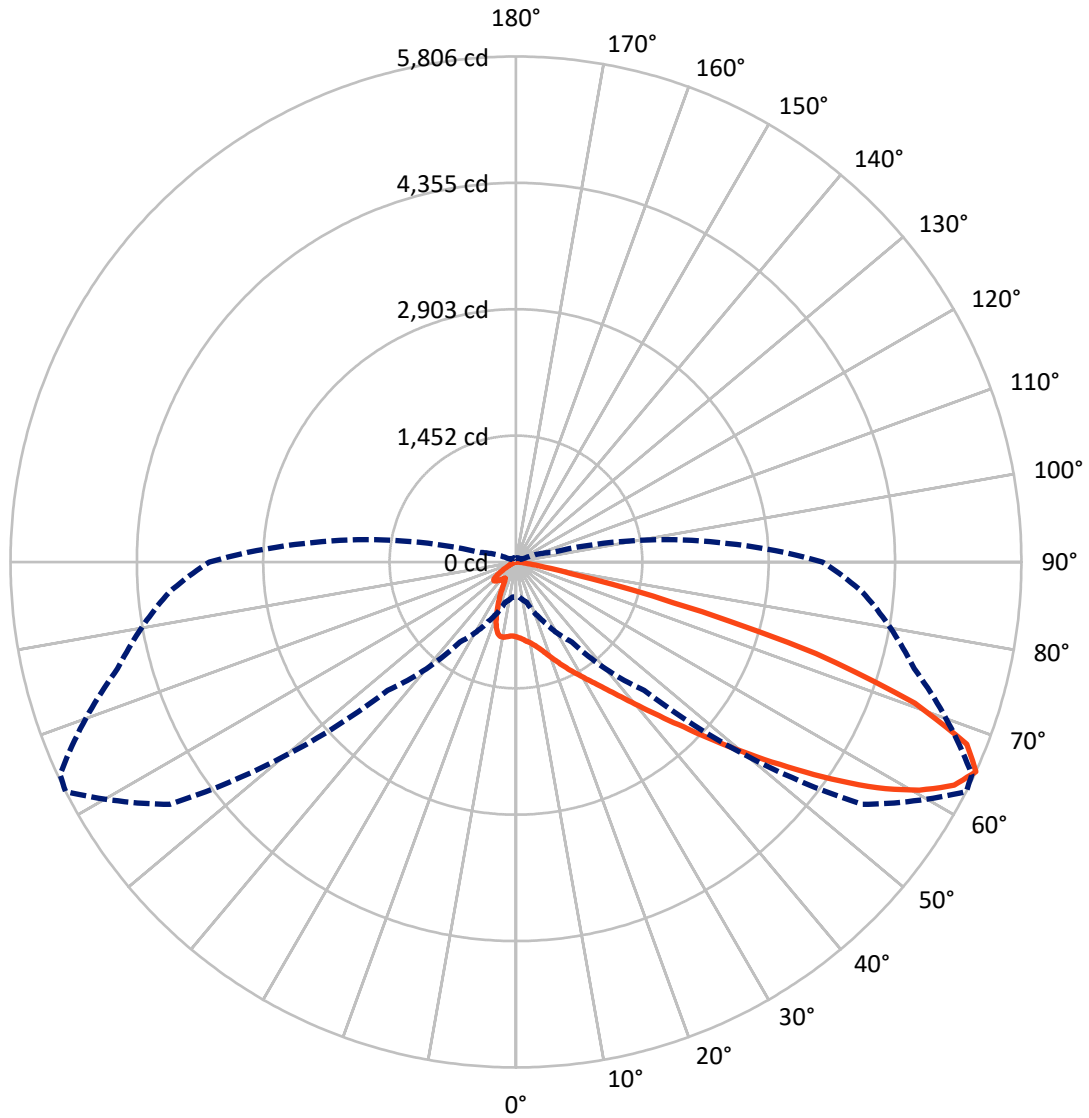
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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	1024.1	0.0	1024.1
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	5942.9	0.0	5942.9
	% Fixture	85.3	0.0	85.3
Total	Lumens	6967.0	0.0	6967.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.0	1.2
10°-20°	224.8	3.2
20°-30°	391.4	5.6
30°-40°	705.5	10.1
40°-50°	1399.2	20.1
50°-60°	1905.9	27.4
60°-70°	1521.3	21.8
70°-80°	688.4	9.9
80°-90°	49.5	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°	6967.0	100.0
0°-180°	6967.0	100.0

Coefficient of Utilization



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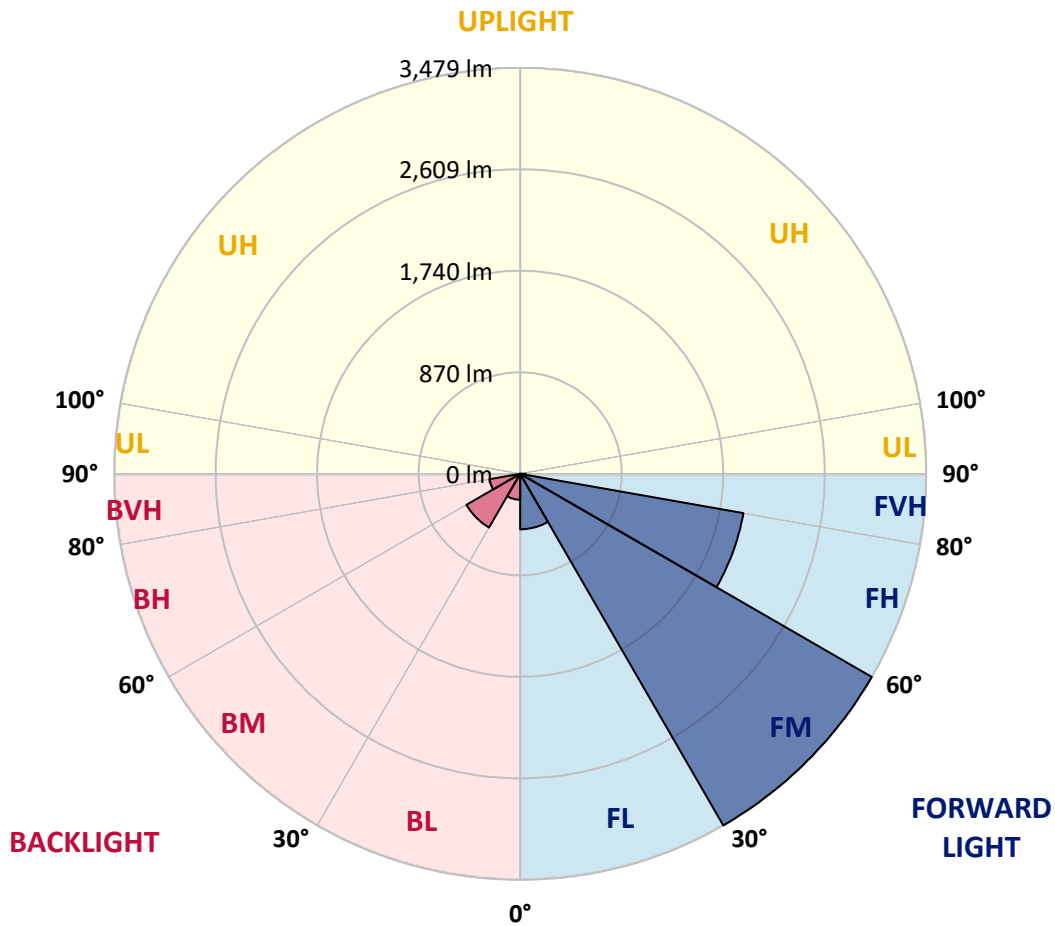
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	475.6	6.8			
FM (30°-60°)	3479.1	49.9			
FH (60°-80°)	1942.4	27.9			G2/5000
FVH (80°-90°)	45.8	0.7			G1/100
BL (0°-30°)	221.6	3.2	B1/500		
BM (30°-60°)	531.4	7.6	B1/1000		
BH (60°-80°)	267.4	3.8	B1/500		G1/500
BVH (80°-90°)	3.7	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°	859.9	859.9	859.9	859.9	859.9	859.9	859.9	859.9	859.9	859.9
2.5°	880.0	877.6	880.9	879.5	878.6	876.6	875.7	874.7	872.8	871.4
5°	882.4	880.9	884.3	887.2	890.1	892.9	894.4	896.3	894.4	890.5
7.5°	862.3	861.3	868.5	877.1	890.1	901.1	913.1	919.8	920.3	918.8
10°	860.8	858.4	865.6	876.2	892.9	912.6	933.7	948.1	950.0	956.2
12.5°	883.3	880.9	891.0	902.5	919.8	940.4	966.3	986.4	989.3	997.9
15°	921.2	917.9	929.4	944.2	966.3	989.7	1017.1	1035.3	1037.7	1048.2
17.5°	965.3	961.9	975.4	991.2	1015.2	1047.3	1078.9	1099.0	1101.9	1108.6
20°	1021.9	1017.5	1028.1	1042.5	1067.9	1106.2	1144.1	1172.8	1172.4	1172.4
22.5°	1087.5	1080.8	1089.9	1101.4	1125.4	1171.9	1222.2	1256.2	1256.2	1242.8
25°	1158.0	1151.3	1161.3	1171.9	1193.0	1245.7	1304.6	1346.8	1348.7	1325.7
27.5°	1246.2	1237.5	1245.2	1257.7	1270.1	1323.8	1393.8	1442.7	1443.6	1408.2
30°	1415.8	1391.4	1367.4	1354.0	1359.8	1413.0	1487.7	1541.9	1546.7	1497.8
32.5°	1726.4	1721.6	1637.3	1527.0	1469.5	1508.8	1592.7	1657.9	1660.8	1598.0
35°	2209.1	2203.3	2067.7	1857.8	1670.4	1637.3	1720.2	1797.4	1795.4	1724.5
37.5°	2785.2	2779.9	2601.1	2320.3	2016.9	1831.4	1884.6	1965.6	1977.6	1884.6
40°	3277.4	3257.8	3144.7	2873.9	2477.0	2153.5	2118.5	2172.2	2184.6	2074.4
42.5°	3650.3	3633.6	3576.0	3406.8	3034.0	2629.9	2394.1	2414.7	2428.6	2296.3
45°	3843.5	3839.7	3862.7	3846.8	3601.4	3214.6	2788.1	2702.3	2707.6	2542.2
47.5°	3870.8	3868.9	3973.9	4122.4	4089.4	3874.2	3293.7	3060.8	3042.1	2819.7
50°	3709.8	3705.9	3907.2	4185.7	4415.3	4428.2	3867.9	3464.8	3423.6	3106.8
52.5°	3195.5	3194.5	3525.2	3988.7	4529.8	4913.3	4435.4	3908.7	3839.7	3410.7
55°	2458.8	2476.5	2855.7	3403.5	4320.9	5146.7	4944.9	4401.4	4295.5	3716.5
57.5°	1741.8	1767.6	2142.5	2630.4	3672.9	5008.7	5289.5	4895.1	4781.0	4021.3
60°	935.6	958.6	1333.9	1916.2	2732.5	4493.9	5471.2	5323.6	5215.7	4310.8
62.5°	557.4	565.1	720.4	1237.1	1848.2	3433.2	5394.0	5650.0	5561.3	4553.8
65°	400.2	401.7	479.8	755.4	1122.0	2085.9	4852.9	5806.2	5778.9	4736.9
67.5°	336.9	336.0	368.6	501.8	764.5	1044.9	3719.3	5585.3	5701.2	4852.9
70°	289.0	290.5	328.8	367.6	574.7	591.5	1849.1	4863.0	5110.3	4883.6
72.5°	215.2	220.0	255.5	335.0	433.8	406.9	638.4	3605.8	4052.9	4601.3
75°	151.9	154.3	179.7	281.8	323.5	296.2	325.9	1864.0	2437.2	3527.6
77.5°	116.9	121.3	136.1	197.0	318.7	208.0	199.4	645.1	991.2	2131.0
80°	63.3	70.9	98.3	142.4	223.8	147.1	98.7	256.9	336.0	996.5
82.5°	32.6	36.4	68.5	102.6	127.5	128.5	48.9	106.9	138.5	307.7
85°	12.9	15.8	46.0	56.6	65.7	63.3	22.0	43.1	49.8	85.3
87.5°	2.9	4.8	16.8	12.9	12.5	13.4	5.3	10.1	9.6	10.1
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°
859.9	0°	859.9	859.9	859.9	859.9	859.9	859.9	859.9	859.9	859.9	859.9
865.6	2.5°	865.1	863.2	857.9	852.2	845.5	841.6	839.2	838.8	835.4	833.0
884.8	5°	879.5	877.6	867.5	855.5	842.6	832.5	823.0	814.3	801.9	799.5
912.6	7.5°	908.3	903.0	886.7	870.4	846.0	816.7	781.3	740.5	704.1	693.1
949.5	10°	943.7	936.5	915.9	887.2	833.0	753.5	667.7	588.1	524.8	507.1
993.1	12.5°	984.0	977.8	950.4	897.2	778.9	634.6	503.3	404.5	343.2	327.8
1039.6	15°	1031.9	1022.8	985.0	881.9	682.0	482.2	345.6	287.1	265.1	262.2
1092.8	17.5°	1082.7	1067.9	1015.6	826.8	551.7	342.7	267.0	250.2	240.6	237.7
1146.5	20°	1129.2	1110.1	1033.8	743.4	412.2	267.0	239.2	228.1	219.5	216.2
1200.2	22.5°	1175.7	1148.4	1033.8	629.8	309.1	236.8	219.5	209.5	199.4	195.1
1257.7	25°	1224.1	1187.7	1015.6	503.3	248.8	217.1	200.8	189.8	181.2	175.9
1312.3	27.5°	1271.1	1220.8	973.9	383.4	221.4	199.9	183.6	173.0	164.9	161.0
1371.7	30°	1315.7	1253.4	915.5	290.9	203.7	183.1	167.8	158.6	150.5	146.7
1448.9	32.5°	1376.1	1294.6	853.1	238.7	188.4	167.3	153.4	144.7	137.6	134.7
1549.1	35°	1459.9	1355.5	799.5	234.4	175.4	154.3	140.4	132.3	125.1	122.7
1678.5	37.5°	1578.8	1453.7	771.2	263.1	164.9	142.8	129.9	121.3	114.6	112.6
1842.9	40°	1725.5	1587.0	786.5	291.9	157.7	132.8	120.3	111.7	105.9	103.5
2031.7	42.5°	1899.5	1751.4	871.4	313.9	152.9	124.1	111.2	101.6	97.8	96.8
2246.0	45°	2099.3	1932.0	1001.3	337.4	145.2	116.0	102.1	94.9	92.0	91.5
2478.9	47.5°	2326.5	2130.5	1151.8	366.7	137.6	108.3	94.9	90.1	87.7	86.8
2721.9	50°	2551.8	2330.3	1306.6	383.0	131.3	101.1	89.1	85.3	83.4	82.9
2978.8	52.5°	2787.6	2536.0	1431.7	367.6	126.1	95.4	84.4	81.5	79.6	79.1
3215.6	55°	3012.4	2702.3	1453.2	312.0	115.5	89.6	79.1	77.6	75.2	75.2
3455.7	57.5°	3206.0	2785.7	1300.8	229.1	105.0	81.0	73.8	72.4	70.5	70.0
3672.4	60°	3383.8	2761.7	1004.1	154.3	93.5	72.4	67.1	66.1	64.2	61.8
3860.7	62.5°	3484.0	2656.3	686.8	100.7	82.0	63.3	59.4	59.0	54.6	49.8
4000.2	65°	3521.9	2439.6	428.5	73.3	68.5	54.2	51.3	50.3	44.1	38.8
4079.3	67.5°	3488.8	2083.0	216.2	58.0	54.2	45.1	42.2	42.2	37.9	33.1
4074.5	70°	3356.5	1561.6	91.1	46.5	41.7	34.5	34.5	36.4	32.1	26.8
3863.1	72.5°	3069.4	1050.6	48.4	35.5	31.2	24.4	28.3	29.7	25.4	20.1
3161.9	75°	2440.1	640.8	33.6	26.4	19.7	17.3	21.6	22.5	17.3	13.4
2167.9	77.5°	1668.9	368.1	22.5	16.8	12.5	10.1	14.9	13.9	9.1	6.2
835.9	80°	732.8	153.4	12.9	7.7	4.8	3.8	5.3	3.8	2.9	1.9
114.6	82.5°	85.8	35.9	4.8	2.9	1.9	1.0	0.5	0.0	0.0	0.0
35.0	85°	17.7	4.3	2.4	1.0	0.5	0.0	0.0	0.0	0.0	0.0
6.2	87.5°	3.4	1.0	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>
859.9
835.4
798.5
687.8
500.4
323.5
259.3
236.3
214.2
192.7
174.0
161.0
147.1
134.7
122.7
112.2
103.0
96.8
91.1
86.8
82.9
79.1
74.8
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