

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: P946336

Luminaire Tested: **GALN-SB2A-735-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946336
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-735-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 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: 6856 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

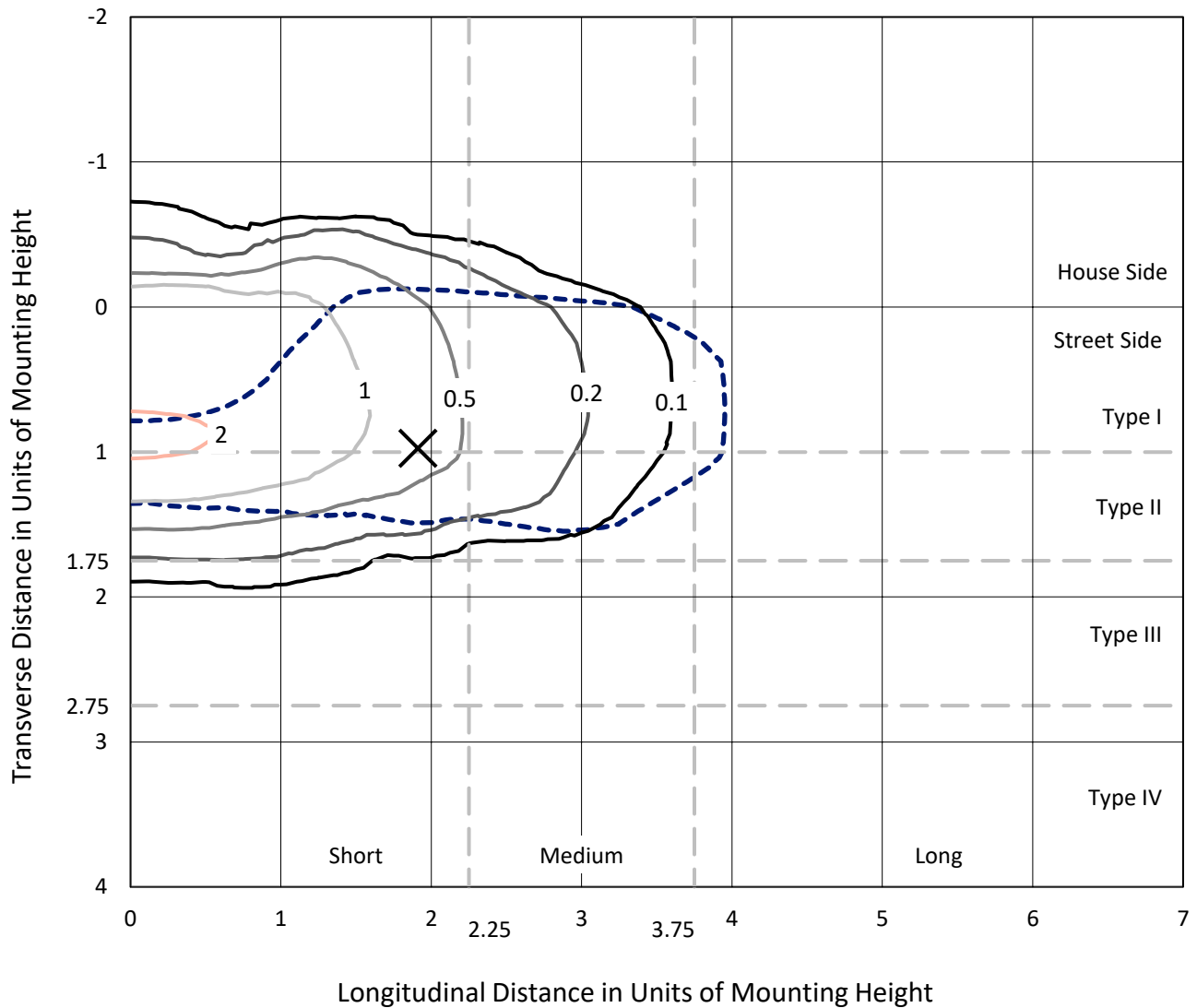
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

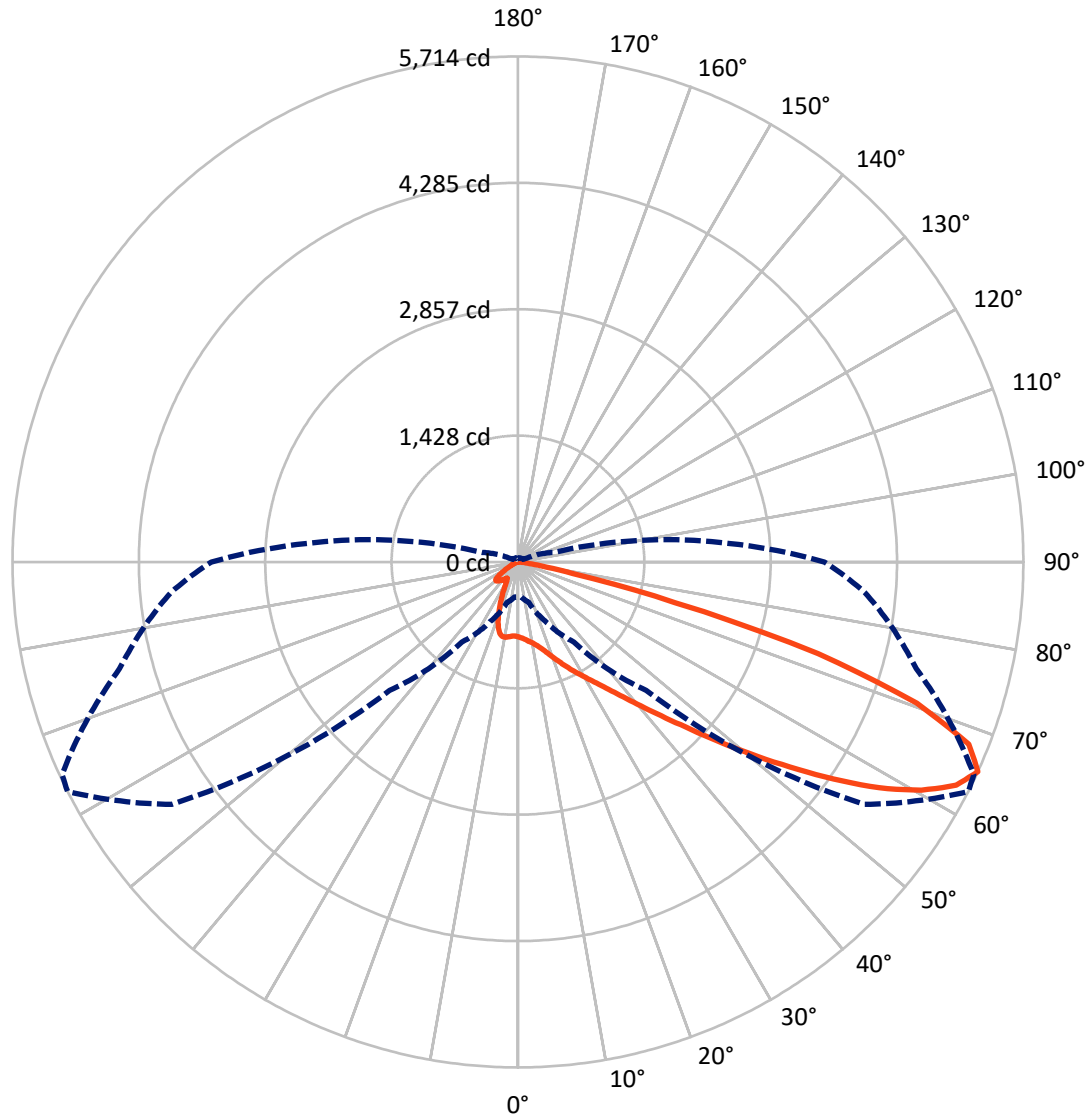
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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	1007.8	0.0	1007.8
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	5848.2	0.0	5848.2
	% Fixture	85.3	0.0	85.3
Total	Lumens	6856.0	0.0	6856.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.7	1.2
10°-20°	221.2	3.2
20°-30°	385.2	5.6
30°-40°	694.2	10.1
40°-50°	1376.9	20.1
50°-60°	1875.6	27.4
60°-70°	1497.1	21.8
70°-80°	677.5	9.9
80°-90°	48.7	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°	6856.0	100.0
0°-180°	6856.0	100.0

Coefficient of Utilization



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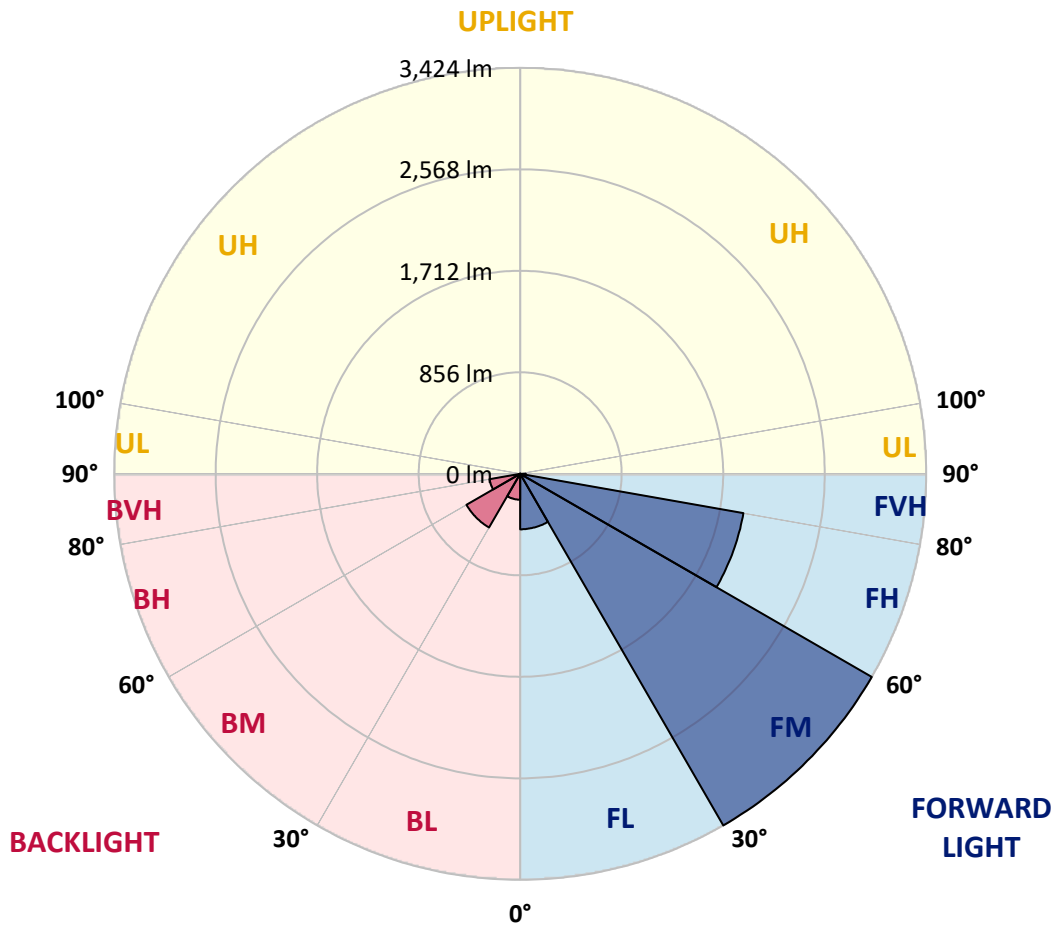
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	468.0	6.8			
FM (30°-60°)	3423.7	49.9			
FH (60°-80°)	1911.4	27.9			G2/5000
FVH (80°-90°)	45.1	0.7			G1/100
BL (0°-30°)	218.1	3.2	B1/500		
BM (30°-60°)	523.0	7.6	B1/1000		
BH (60°-80°)	263.1	3.8	B1/500		G1/500
BVH (80°-90°)	3.6	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°	846.2	846.2	846.2	846.2	846.2	846.2	846.2	846.2	846.2	846.2
2.5°	866.0	863.6	866.9	865.5	864.6	862.7	861.7	860.8	858.9	857.5
5°	868.3	866.9	870.2	873.0	875.9	878.7	880.1	882.0	880.1	876.3
7.5°	848.5	847.6	854.6	863.1	875.9	886.7	898.5	905.1	905.6	904.2
10°	847.1	844.7	851.8	862.2	878.7	898.0	918.8	932.9	934.8	941.0
12.5°	869.3	866.9	876.8	888.1	905.1	925.4	950.9	970.7	973.5	982.0
15°	906.5	903.2	914.6	929.2	950.9	974.0	1000.9	1018.8	1021.1	1031.5
17.5°	949.9	946.6	959.8	975.4	999.0	1030.6	1061.7	1081.5	1084.3	1091.0
20°	1005.6	1001.3	1011.7	1025.9	1050.9	1088.6	1125.9	1154.2	1153.7	1153.7
22.5°	1070.2	1063.6	1072.6	1083.9	1107.5	1153.2	1202.7	1236.2	1236.2	1223.0
25°	1139.5	1132.9	1142.8	1153.2	1174.0	1225.8	1283.9	1325.4	1327.3	1304.6
27.5°	1226.3	1217.8	1225.4	1237.6	1249.9	1302.7	1371.6	1419.7	1420.6	1385.7
30°	1393.3	1369.2	1345.6	1332.4	1338.1	1390.5	1464.0	1517.3	1522.1	1473.9
32.5°	1698.9	1694.2	1611.2	1502.7	1446.1	1484.8	1567.3	1631.5	1634.3	1572.5
35°	2173.9	2168.2	2034.7	1828.2	1643.7	1611.2	1692.8	1768.7	1766.8	1697.0
37.5°	2740.8	2735.6	2559.7	2283.3	1984.7	1802.2	1854.6	1934.3	1946.1	1854.6
40°	3225.2	3205.9	3094.6	2828.1	2437.5	2119.2	2084.7	2137.6	2149.8	2041.3
42.5°	3592.2	3575.7	3519.1	3352.6	2985.6	2588.0	2355.9	2376.2	2389.9	2259.7
45°	3782.3	3778.5	3801.1	3785.6	3544.1	3163.4	2743.7	2659.2	2664.4	2501.7
47.5°	3809.1	3807.2	3910.5	4056.8	4024.2	3812.4	3241.3	3012.0	2993.6	2774.8
50°	3650.7	3646.9	3845.0	4119.0	4344.9	4357.7	3806.3	3409.6	3369.1	3057.3
52.5°	3144.6	3143.6	3469.1	3925.2	4457.7	4835.0	4364.8	3846.4	3778.5	3356.3
55°	2419.6	2437.1	2810.2	3349.3	4252.0	5064.7	4866.1	4331.3	4227.0	3657.3
57.5°	1714.0	1739.5	2108.3	2588.5	3614.3	4928.9	5205.3	4817.1	4704.8	3957.2
60°	920.7	943.3	1312.6	1885.7	2688.9	4422.3	5384.0	5238.7	5132.6	4242.1
62.5°	548.5	556.1	708.9	1217.4	1818.7	3378.5	5308.1	5559.9	5472.7	4481.3
65°	393.8	395.3	472.1	743.3	1104.2	2052.7	4775.6	5713.7	5686.8	4661.4
67.5°	331.6	330.6	362.7	493.8	752.3	1028.2	3660.1	5496.3	5610.4	4775.6
70°	284.4	285.8	323.6	361.8	565.5	582.0	1819.7	4785.5	5028.9	4805.8
72.5°	211.8	216.5	251.4	329.7	426.9	400.4	628.3	3548.3	3988.4	4527.9
75°	149.5	151.9	176.9	277.3	318.4	291.5	320.7	1834.3	2398.4	3471.4
77.5°	115.1	119.3	134.0	193.9	313.7	204.7	196.2	634.9	975.4	2097.0
80°	62.3	69.8	96.7	140.1	220.3	144.8	97.2	252.8	330.6	980.6
82.5°	32.1	35.8	67.4	100.9	125.5	126.4	48.1	105.2	136.3	302.8
85°	12.7	15.6	45.3	55.7	64.6	62.3	21.7	42.4	49.1	84.0
87.5°	2.8	4.7	16.5	12.7	12.3	13.2	5.2	9.9	9.4	9.9
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°
846.2	0°	846.2	846.2	846.2	846.2	846.2	846.2	846.2	846.2	846.2	846.2
851.8	2.5°	851.3	849.5	844.3	838.6	832.0	828.2	825.9	825.4	822.1	819.7
870.7	5°	865.5	863.6	853.7	841.9	829.2	819.3	809.8	801.4	789.1	786.7
898.0	7.5°	893.8	888.6	872.6	856.5	832.5	803.7	768.8	728.7	692.9	682.0
934.4	10°	928.7	921.6	901.3	873.0	819.7	741.5	657.0	578.7	516.5	499.0
977.3	12.5°	968.3	962.2	935.3	882.9	766.4	624.5	495.2	398.1	337.7	322.6
1023.0	15°	1015.5	1006.5	969.3	867.9	671.2	474.5	340.1	282.5	260.8	258.0
1075.4	17.5°	1065.5	1050.9	999.4	813.6	542.9	337.2	262.7	246.2	236.8	233.9
1128.2	20°	1111.2	1092.4	1017.4	731.5	405.6	262.7	235.4	224.5	216.0	212.7
1181.0	22.5°	1157.0	1130.1	1017.4	619.8	304.2	233.0	216.0	206.1	196.2	192.0
1237.6	25°	1204.6	1168.8	999.4	495.2	244.8	213.7	197.6	186.8	178.3	173.1
1291.4	27.5°	1250.8	1201.3	958.4	377.3	217.9	196.7	180.6	170.3	162.3	158.5
1349.9	30°	1294.7	1233.4	900.9	286.3	200.5	180.2	165.1	156.1	148.1	144.3
1425.8	32.5°	1354.1	1274.0	839.6	234.9	185.4	164.6	150.9	142.4	135.4	132.5
1524.4	35°	1436.7	1333.9	786.7	230.6	172.6	151.9	138.2	130.2	123.1	120.7
1651.8	37.5°	1553.7	1430.5	758.9	258.9	162.3	140.6	127.8	119.3	112.7	110.8
1813.5	40°	1698.0	1561.7	774.0	287.2	155.2	130.7	118.4	109.9	104.2	101.9
1999.4	42.5°	1869.2	1723.4	857.5	308.9	150.5	122.2	109.4	100.0	96.2	95.3
2210.2	45°	2065.9	1901.3	985.3	332.0	142.9	114.1	100.5	93.4	90.6	90.1
2439.4	47.5°	2289.4	2096.5	1133.4	360.8	135.4	106.6	93.4	88.7	86.3	85.4
2678.6	50°	2511.1	2293.2	1285.7	376.9	129.2	99.5	87.7	84.0	82.1	81.6
2931.4	52.5°	2743.2	2495.6	1408.9	361.8	124.0	93.9	83.0	80.2	78.3	77.8
3164.4	55°	2964.4	2659.2	1430.1	307.1	113.7	88.2	77.8	76.4	74.1	74.1
3400.7	57.5°	3154.9	2741.3	1280.1	225.5	103.3	79.7	72.6	71.2	69.3	68.9
3613.9	60°	3329.9	2717.7	988.1	151.9	92.0	71.2	66.0	65.1	63.2	60.8
3799.2	62.5°	3428.5	2613.9	675.9	99.0	80.7	62.3	58.5	58.0	53.8	49.1
3936.5	65°	3465.8	2400.8	421.7	72.2	67.4	53.3	50.5	49.5	43.4	38.2
4014.3	67.5°	3433.2	2049.8	212.7	57.1	53.3	44.3	41.5	41.5	37.3	32.5
4009.6	70°	3303.0	1536.7	89.6	45.8	41.0	34.0	34.0	35.8	31.6	26.4
3801.6	72.5°	3020.5	1033.9	47.6	34.9	30.7	24.1	27.8	29.2	25.0	19.8
3111.5	75°	2401.2	630.6	33.0	25.9	19.3	17.0	21.2	22.2	17.0	13.2
2133.3	77.5°	1642.3	362.2	22.2	16.5	12.3	9.9	14.6	13.7	9.0	6.1
822.6	80°	721.2	150.9	12.7	7.5	4.7	3.8	5.2	3.8	2.8	1.9
112.7	82.5°	84.4	35.4	4.7	2.8	1.9	0.9	0.5	0.0	0.0	0.0
34.4	85°	17.5	4.2	2.4	0.9	0.5	0.0	0.0	0.0	0.0	0.0
6.1	87.5°	3.3	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>
846.2
822.1
785.8
676.8
492.4
318.4
255.2
232.5
210.8
189.6
171.2
158.5
144.8
132.5
120.7
110.4
101.4
95.3
89.6
85.4
81.6
77.8
73.6
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