

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: P946462

Luminaire Tested: **GALN-SB2A-835-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946462
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-835-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 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: 6359 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

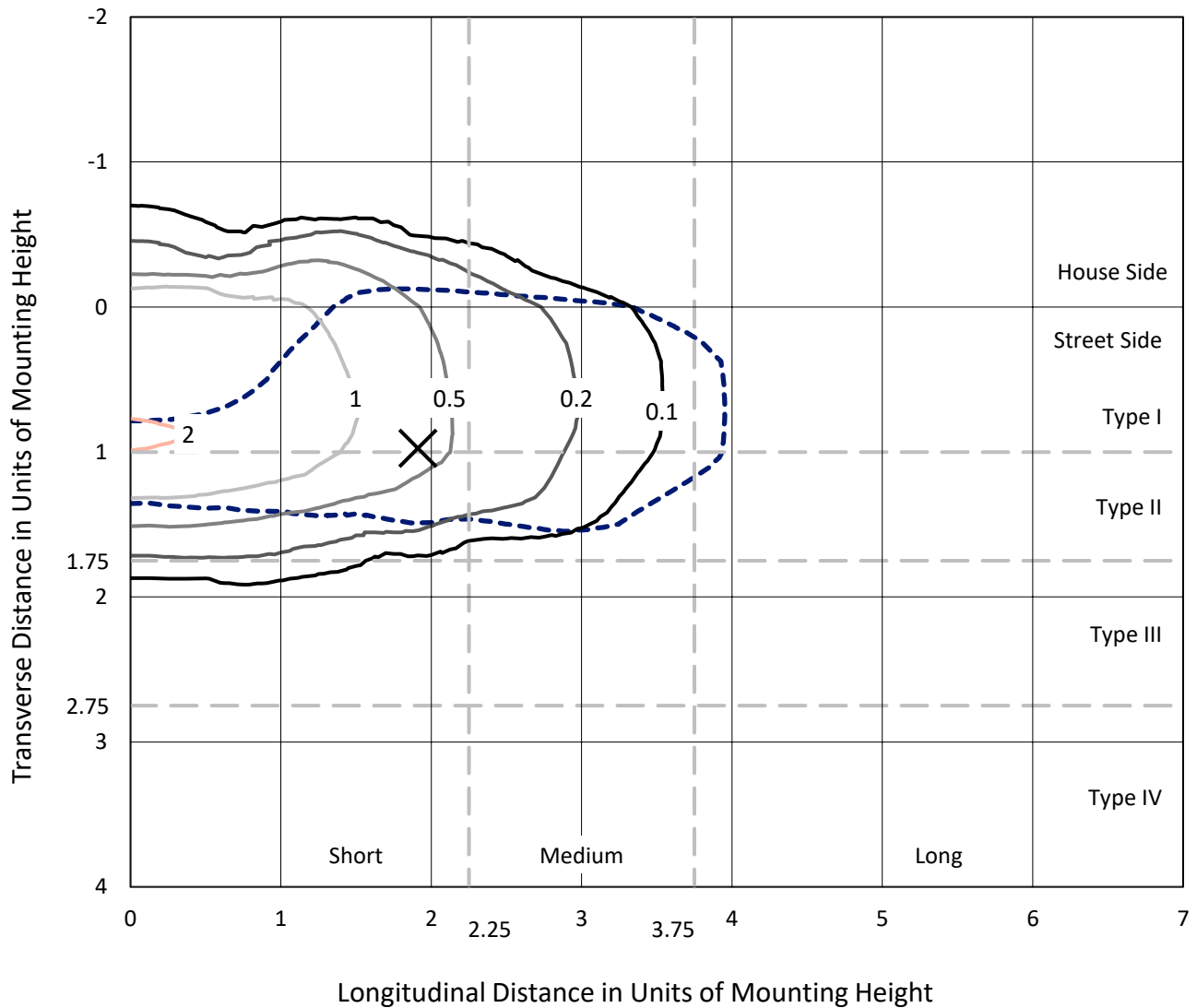
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

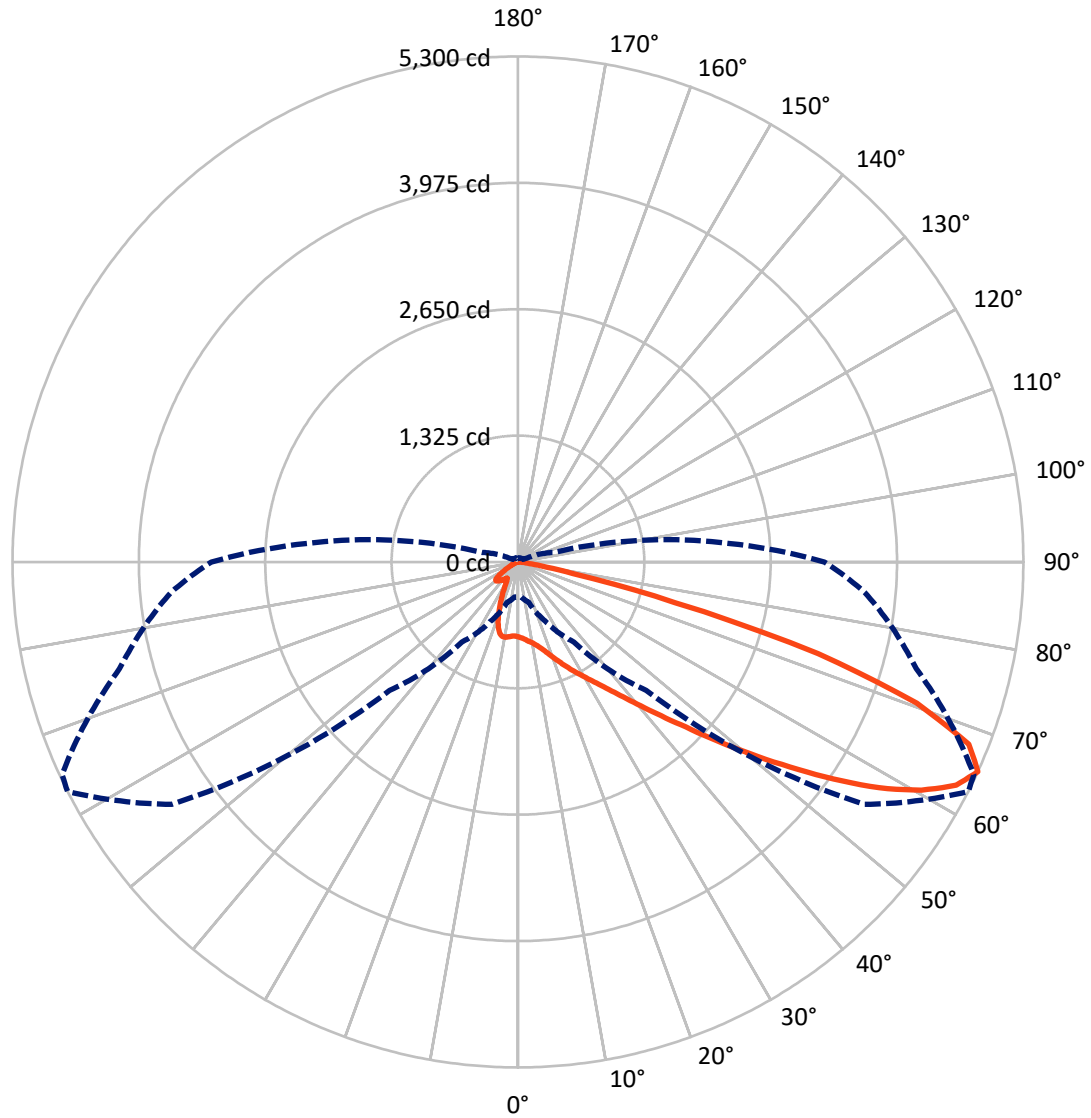
✕ Max cd
 - - - 1/2 Max cd



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	934.7	0.0	934.7
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	5424.3	0.0	5424.3
	% Fixture	85.3	0.0	85.3
Total	Lumens	6359.0	0.0	6359.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.9	1.2
10°-20°	205.2	3.2
20°-30°	357.3	5.6
30°-40°	643.9	10.1
40°-50°	1277.1	20.1
50°-60°	1739.6	27.4
60°-70°	1388.5	21.8
70°-80°	628.3	9.9
80°-90°	45.2	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°	6359.0	100.0
0°-180°	6359.0	100.0

Coefficient of Utilization



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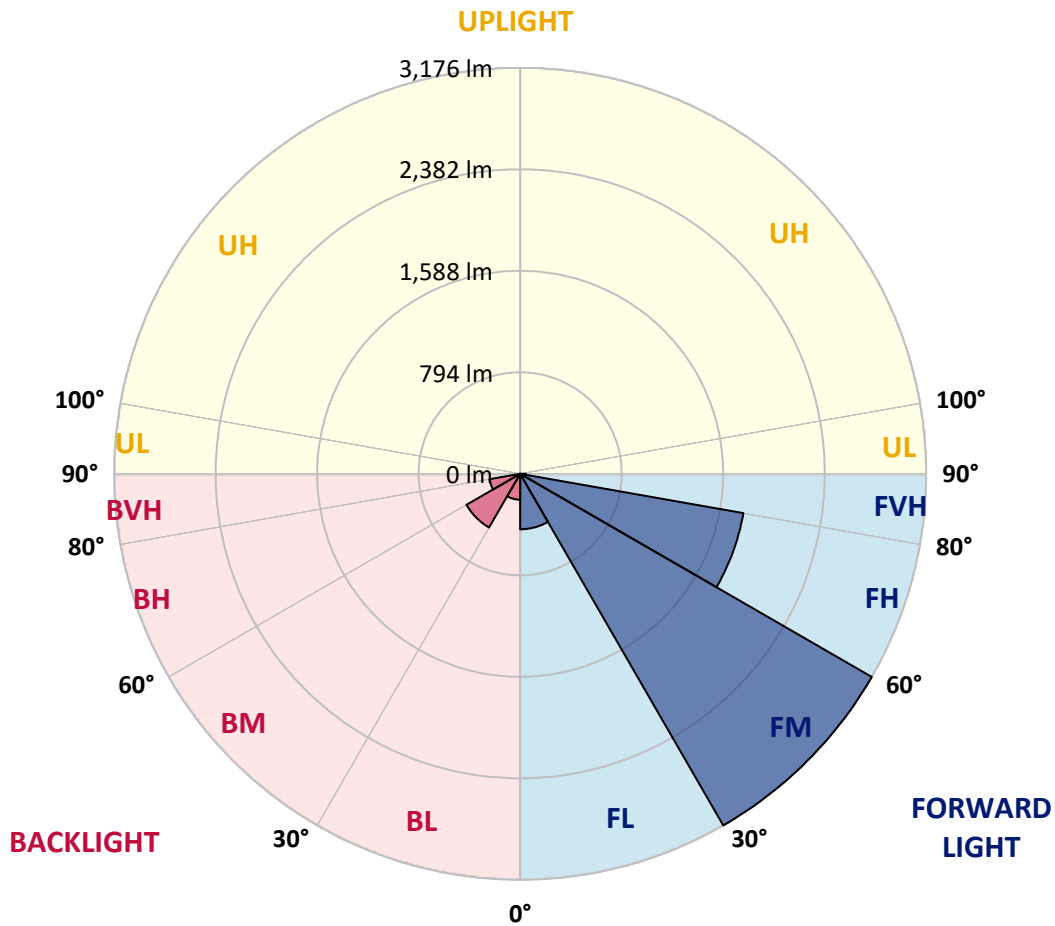
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	434.1	6.8			
FM (30°-60°)	3175.5	49.9			
FH (60°-80°)	1772.9	27.9			G1/1800
FVH (80°-90°)	41.8	0.7			G1/100
BL (0°-30°)	202.3	3.2	B1/500		
BM (30°-60°)	485.1	7.6	B1/1000		
BH (60°-80°)	244.0	3.8	B1/500		G1/500
BVH (80°-90°)	3.3	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°	784.8	784.8	784.8	784.8	784.8	784.8	784.8	784.8	784.8	784.8
2.5°	803.2	801.0	804.1	802.8	801.9	800.1	799.3	798.4	796.6	795.3
5°	805.4	804.1	807.1	809.8	812.4	815.0	816.3	818.1	816.3	812.8
7.5°	787.0	786.1	792.7	800.6	812.4	822.4	833.4	839.5	839.9	838.6
10°	785.7	783.5	790.1	799.7	815.0	832.9	852.2	865.3	867.1	872.8
12.5°	806.3	804.1	813.3	823.8	839.5	858.3	881.9	900.3	902.9	910.8
15°	840.8	837.8	848.3	861.8	881.9	903.4	928.3	944.9	947.1	956.7
17.5°	881.1	878.0	890.3	904.7	926.6	955.9	984.7	1003.1	1005.7	1011.9
20°	932.7	928.7	938.4	951.5	974.7	1009.7	1044.2	1070.5	1070.1	1070.1
22.5°	992.6	986.5	994.8	1005.3	1027.2	1069.6	1115.5	1146.6	1146.6	1134.4
25°	1056.9	1050.8	1060.0	1069.6	1088.9	1137.0	1190.8	1229.3	1231.0	1210.0
27.5°	1137.4	1129.5	1136.5	1147.9	1159.3	1208.3	1272.2	1316.8	1317.7	1285.3
30°	1292.3	1270.0	1248.1	1235.9	1241.1	1289.7	1357.9	1407.3	1411.7	1367.1
32.5°	1575.8	1571.4	1494.4	1393.8	1341.3	1377.2	1453.7	1513.2	1515.8	1458.5
35°	2016.3	2011.0	1887.2	1695.6	1524.6	1494.4	1570.1	1640.5	1638.8	1574.0
37.5°	2542.1	2537.3	2374.1	2117.8	1840.9	1671.6	1720.1	1794.1	1805.0	1720.1
40°	2991.4	2973.5	2870.2	2623.1	2260.8	1965.6	1933.6	1982.6	1994.0	1893.4
42.5°	3331.8	3316.5	3264.0	3109.5	2769.2	2400.4	2185.2	2204.0	2216.7	2095.9
45°	3508.1	3504.6	3525.6	3511.1	3287.1	2934.1	2544.8	2466.5	2471.3	2320.3
47.5°	3533.0	3531.3	3627.1	3762.7	3732.5	3536.1	3006.3	2793.7	2776.6	2573.6
50°	3386.0	3382.5	3566.3	3820.4	4030.0	4041.8	3530.4	3162.5	3124.8	2835.7
52.5°	2916.6	2915.7	3217.6	3640.6	4134.5	4484.5	4048.3	3567.6	3504.6	3113.0
55°	2244.2	2260.4	2606.4	3106.5	3943.8	4697.6	4513.4	4017.3	3920.6	3392.1
57.5°	1589.8	1613.4	1955.5	2400.8	3352.3	4571.6	4827.9	4467.9	4363.8	3670.4
60°	853.9	874.9	1217.5	1749.0	2494.0	4101.7	4993.7	4859.0	4760.5	3934.6
62.5°	508.8	515.8	657.5	1129.1	1686.9	3133.6	4923.3	5156.9	5076.0	4156.4
65°	365.3	366.6	437.9	689.5	1024.1	1903.9	4429.4	5299.5	5274.6	4323.5
67.5°	307.5	306.7	336.4	458.0	697.8	953.7	3394.8	5097.8	5203.7	4429.4
70°	263.8	265.1	300.1	335.5	524.5	539.8	1687.8	4438.6	4664.3	4457.4
72.5°	196.4	200.8	233.2	305.8	395.9	371.4	582.7	3291.1	3699.2	4199.7
75°	138.7	140.9	164.1	257.2	295.3	270.4	297.5	1701.3	2224.5	3219.8
77.5°	106.7	110.7	124.2	179.8	290.9	189.9	182.0	588.8	904.7	1945.0
80°	57.7	64.7	89.7	129.9	204.3	134.3	90.1	234.5	306.7	909.5
82.5°	29.7	33.2	62.6	93.6	116.4	117.2	44.6	97.6	126.4	280.9
85°	11.8	14.4	42.0	51.6	59.9	57.7	20.1	39.4	45.5	77.9
87.5°	2.6	4.4	15.3	11.8	11.4	12.2	4.8	9.2	8.7	9.2
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°
784.8	0°	784.8	784.8	784.8	784.8	784.8	784.8	784.8	784.8	784.8	784.8
790.1	2.5°	789.6	787.9	783.1	777.8	771.7	768.2	766.0	765.6	762.5	760.3
807.6	5°	802.8	801.0	791.8	780.9	769.1	759.9	751.1	743.3	731.9	729.7
832.9	7.5°	829.0	824.2	809.3	794.4	772.1	745.4	713.1	675.9	642.6	632.6
866.6	10°	861.4	854.8	836.0	809.8	760.3	687.7	609.4	536.8	479.0	462.8
906.4	12.5°	898.1	892.4	867.5	818.9	710.9	579.2	459.3	369.2	313.2	299.2
948.9	15°	941.9	933.6	899.0	804.9	622.5	440.1	315.4	262.0	241.9	239.3
997.4	17.5°	988.2	974.7	927.0	754.6	503.5	312.8	243.7	228.4	219.6	217.0
1046.4	20°	1030.7	1013.2	943.6	678.5	376.2	243.7	218.3	208.2	200.4	197.3
1095.4	22.5°	1073.1	1048.2	943.6	574.8	282.2	216.1	200.4	191.2	182.0	178.1
1147.9	25°	1117.3	1084.1	927.0	459.3	227.0	198.2	183.3	173.2	165.4	160.6
1197.8	27.5°	1160.2	1114.2	888.9	350.0	202.1	182.4	167.6	157.9	150.5	147.0
1252.0	30°	1200.9	1144.0	835.6	265.5	185.9	167.1	153.1	144.8	137.4	133.9
1322.5	32.5°	1256.0	1181.6	778.7	217.9	171.9	152.7	140.0	132.1	125.6	122.9
1413.9	35°	1332.5	1237.2	729.7	213.9	160.1	140.9	128.2	120.7	114.2	112.0
1532.0	37.5°	1441.0	1326.8	703.9	240.2	150.5	130.4	118.6	110.7	104.6	102.8
1682.1	40°	1574.9	1448.5	717.9	266.4	143.9	121.2	109.8	101.9	96.7	94.5
1854.4	42.5°	1733.7	1598.5	795.3	286.5	139.6	113.3	101.5	92.7	89.2	88.4
2050.0	45°	1916.1	1763.4	913.9	308.0	132.6	105.9	93.2	86.6	84.0	83.6
2262.6	47.5°	2123.5	1944.6	1051.2	334.7	125.6	98.9	86.6	82.2	80.1	79.2
2484.4	50°	2329.1	2127.0	1192.5	349.5	119.9	92.3	81.4	77.9	76.1	75.7
2718.9	52.5°	2544.3	2314.7	1306.7	335.5	115.1	87.1	77.0	74.4	72.6	72.2
2935.0	55°	2749.5	2466.5	1326.4	284.8	105.4	81.8	72.2	70.9	68.7	68.7
3154.2	57.5°	2926.2	2542.6	1187.3	209.1	95.8	73.9	67.4	66.1	64.3	63.9
3351.9	60°	3088.5	2520.7	916.5	140.9	85.3	66.1	61.2	60.4	58.6	56.4
3523.8	62.5°	3180.0	2424.5	626.9	91.9	74.8	57.7	54.2	53.8	49.9	45.5
3651.1	65°	3214.5	2226.7	391.1	66.9	62.6	49.4	46.8	45.9	40.2	35.4
3723.3	67.5°	3184.3	1901.2	197.3	52.9	49.4	41.1	38.5	38.5	34.6	30.2
3718.9	70°	3063.6	1425.3	83.1	42.4	38.1	31.5	31.5	33.2	29.3	24.5
3526.0	72.5°	2801.6	958.9	44.2	32.4	28.4	22.3	25.8	27.1	23.2	18.4
2886.0	75°	2227.2	584.9	30.6	24.1	17.9	15.7	19.7	20.6	15.7	12.2
1978.7	77.5°	1523.3	336.0	20.6	15.3	11.4	9.2	13.6	12.7	8.3	5.7
762.9	80°	668.9	140.0	11.8	7.0	4.4	3.5	4.8	3.5	2.6	1.7
104.6	82.5°	78.3	32.8	4.4	2.6	1.7	0.9	0.4	0.0	0.0	0.0
31.9	85°	16.2	3.9	2.2	0.9	0.4	0.0	0.0	0.0	0.0	0.0
5.7	87.5°	3.1	0.9	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>
784.8
762.5
728.8
627.8
456.7
295.3
236.7
215.7
195.5
175.9
158.8
147.0
134.3
122.9
112.0
102.4
94.1
88.4
83.1
79.2
75.7
72.2
68.2
63.4
56.0
44.6
35.0
29.7
24.1
18.4
11.8
6.1
1.7
0.0
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