

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: P939856

Luminaire Tested: **GALN-SB2C-927-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939856
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
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-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7150 lumens
Efficiency: N/A
Efficacy: 70.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

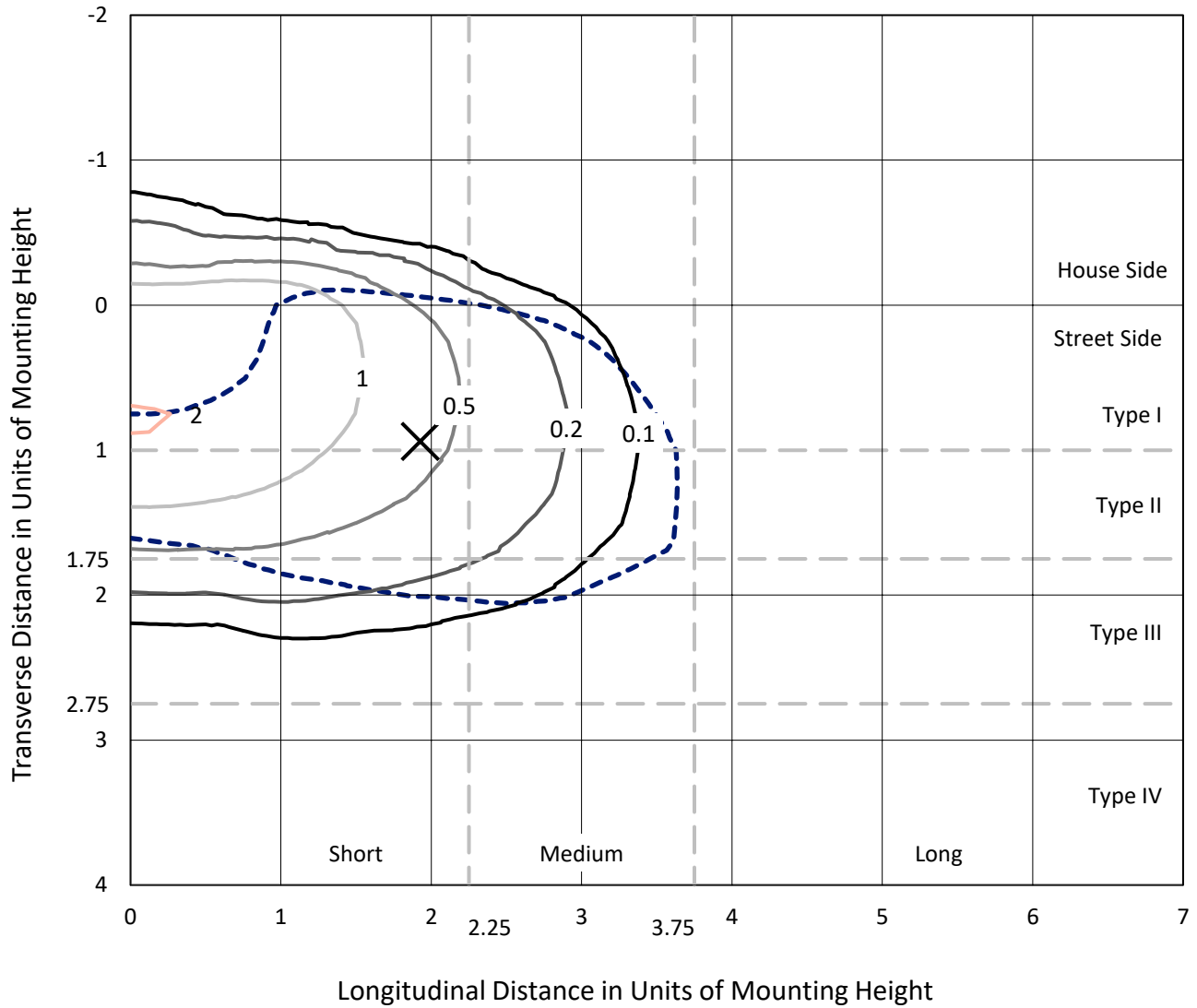
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

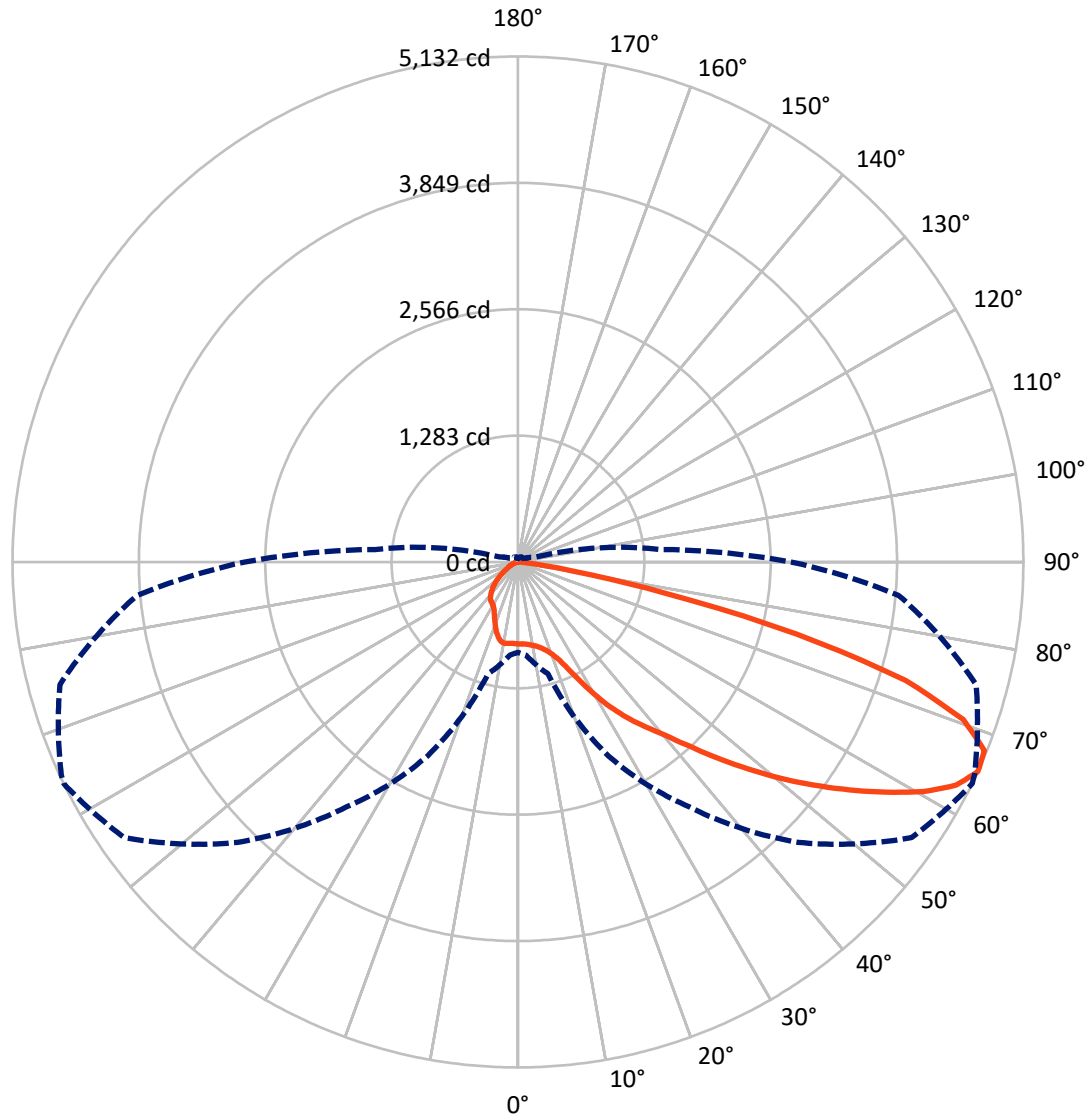
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	956.2	0.0	956.2
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	6193.8	0.0	6193.8
	% Fixture	86.6	0.0	86.6
Total	Lumens	7150.0	0.0	7150.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.7	1.1
10°-20°	208.1	2.9
20°-30°	394.3	5.5
30°-40°	797.9	11.2
40°-50°	1359.3	19.0
50°-60°	1848.5	25.9
60°-70°	1735.9	24.3
70°-80°	695.5	9.7
80°-90°	33.7	0.5
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°	7150.0	100.0
0°-180°	7150.0	100.0

Coefficient of Utilization



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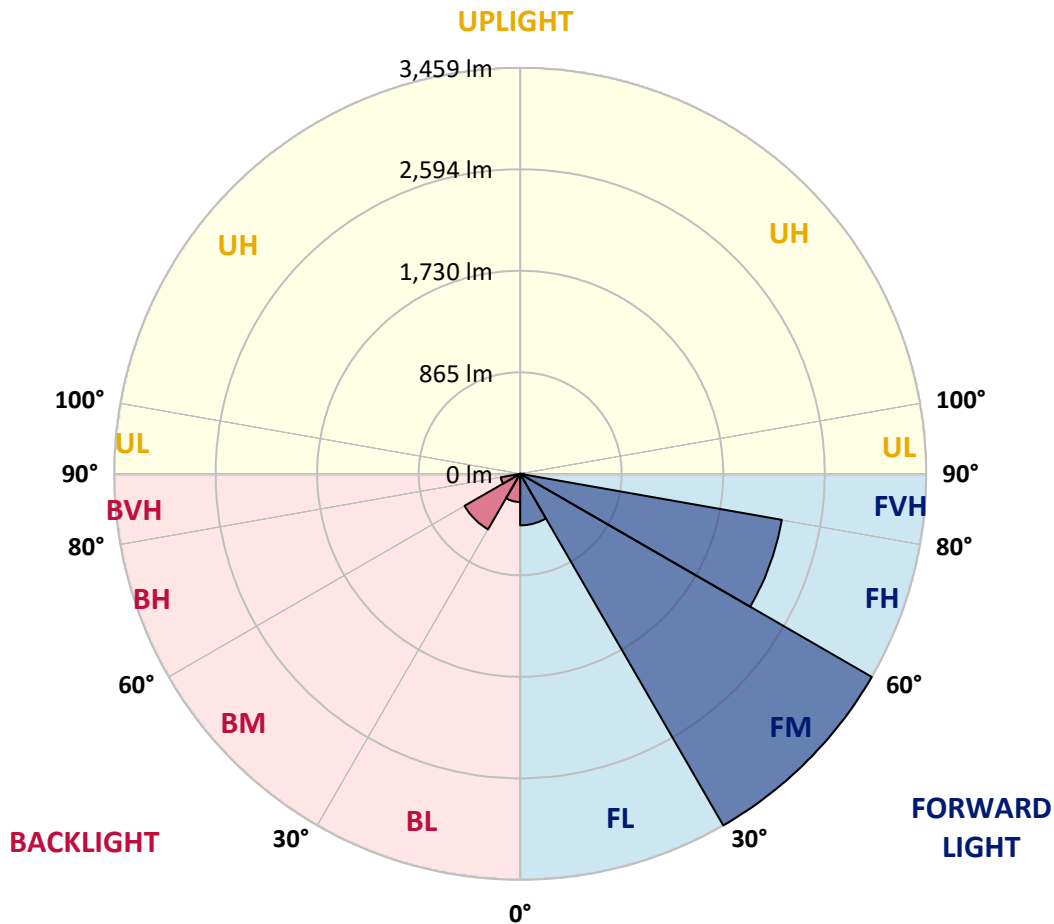
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	439.1	6.1			
FM (30°-60°)	3459.2	48.4			
FH (60°-80°)	2263.5	31.7			G2/5000
FVH (80°-90°)	32.0	0.4			G1/100
BL (0°-30°)	240.1	3.4	B1/500		
BM (30°-60°)	546.6	7.6	B1/1000		
BH (60°-80°)	167.8	2.3	B1/500		G1/500
BVH (80°-90°)	1.6	0.0			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	831.6	831.6	831.6	831.6	831.6	831.6	831.6	831.6	831.6	831.6
2.5°	828.7	834.5	833.1	831.6	831.1	832.1	832.6	832.1	832.1	832.1
5°	812.9	817.7	817.7	821.1	825.9	831.6	835.9	836.9	837.9	839.3
7.5°	782.7	786.6	789.4	800.5	812.4	827.8	840.7	847.4	848.4	853.7
10°	762.1	766.9	771.7	783.2	800.5	823.5	845.5	861.8	864.2	876.7
12.5°	761.2	766.0	772.2	784.6	804.8	829.2	856.1	879.6	883.9	902.1
15°	771.2	777.0	782.7	798.1	819.6	849.4	878.1	907.4	911.7	937.5
17.5°	791.8	799.5	803.8	819.2	842.2	875.2	913.1	946.7	950.5	980.7
20°	832.6	841.7	843.1	855.6	878.1	913.6	958.6	1000.3	1005.1	1039.6
22.5°	916.9	929.9	918.4	924.6	944.7	980.2	1029.1	1081.8	1088.5	1127.8
25°	1065.5	1083.7	1054.0	1043.5	1052.1	1089.0	1150.4	1217.0	1224.7	1256.3
27.5°	1357.4	1333.9	1288.9	1244.8	1218.9	1240.0	1309.0	1391.5	1401.1	1431.7
30°	1678.1	1657.5	1596.6	1498.8	1437.5	1434.1	1497.9	1589.9	1600.9	1630.2
32.5°	1999.2	1979.6	1913.4	1793.1	1686.7	1634.0	1678.1	1780.2	1785.9	1804.6
35°	2315.1	2295.0	2228.8	2105.7	1974.8	1855.0	1846.3	1961.4	1963.3	1982.9
37.5°	2632.9	2616.1	2545.7	2424.9	2295.9	2130.6	2050.5	2133.0	2135.4	2154.5
40°	2859.6	2866.8	2818.4	2724.9	2614.2	2433.5	2279.6	2315.6	2301.2	2333.3
42.5°	3054.2	3068.6	3026.4	2979.4	2915.2	2756.1	2563.4	2557.2	2534.2	2551.4
45°	3222.5	3234.4	3196.6	3185.6	3184.1	3072.4	2873.5	2836.1	2804.0	2800.7
47.5°	3284.3	3307.3	3323.6	3360.5	3432.4	3385.4	3194.2	3136.2	3100.2	3073.9
50°	3307.8	3332.2	3387.8	3495.2	3665.4	3685.5	3513.4	3448.2	3404.1	3356.2
52.5°	3276.1	3319.8	3394.5	3575.2	3822.1	3926.1	3819.7	3762.7	3712.3	3634.2
55°	3089.7	3133.3	3286.2	3574.3	3900.2	4094.8	4109.2	4083.8	4027.2	3904.1
57.5°	2696.7	2761.4	3003.4	3452.5	3898.8	4240.1	4393.0	4411.2	4347.9	4171.5
60°	2152.1	2239.9	2535.1	3182.7	3778.5	4318.7	4641.7	4732.8	4665.7	4435.1
62.5°	1501.7	1603.3	1882.8	2759.9	3503.3	4262.1	4823.4	4991.6	4940.8	4671.0
65°	916.0	948.6	1173.9	2171.8	3035.5	4025.3	4879.5	5131.6	5114.8	4815.2
67.5°	610.2	637.5	702.2	1489.2	2356.3	3552.2	4745.3	5107.1	5111.9	4791.8
70°	367.6	391.1	433.3	866.1	1527.1	2811.7	4329.7	4795.6	4823.4	4477.8
72.5°	151.5	167.3	205.6	392.6	790.9	1784.5	3447.7	4117.4	4182.1	3765.1
75°	85.8	93.9	120.8	197.0	343.2	831.6	2088.4	2922.9	3018.3	2595.0
77.5°	57.0	60.9	78.1	127.5	193.2	283.8	892.5	1522.8	1704.9	1417.3
80°	38.3	41.7	53.7	85.3	125.6	121.7	284.2	564.2	694.1	487.0
82.5°	25.9	26.4	38.3	56.1	79.6	59.0	83.9	175.4	220.5	140.9
85°	14.9	14.4	28.3	32.6	35.5	24.4	25.4	52.7	69.0	59.4
87.5°	1.9	2.9	11.0	8.6	4.8	5.3	5.3	9.1	13.4	14.4
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°
831.6	0°	831.6	831.6	831.6	831.6	831.6	831.6	831.6	831.6	831.6	831.6
832.6	2.5°	832.6	832.1	830.7	829.2	825.9	824.0	824.9	824.0	823.5	824.0
838.8	5°	838.8	837.4	833.5	828.7	822.0	813.9	808.6	800.9	793.8	789.4
855.6	7.5°	855.6	854.1	848.9	835.5	813.9	779.9	748.7	721.4	700.8	688.8
882.4	10°	882.4	880.0	871.9	842.2	785.6	711.3	649.5	598.2	564.6	548.8
914.1	12.5°	914.1	911.2	896.8	835.9	731.9	615.9	530.6	473.6	442.4	428.5
950.5	15°	951.4	947.6	919.3	806.2	653.8	510.5	432.3	389.7	369.6	357.1
997.0	17.5°	997.9	991.2	936.1	761.6	569.0	429.9	372.0	339.8	322.1	310.1
1057.9	20°	1058.3	1047.3	949.5	708.4	490.8	379.1	331.2	304.4	290.9	280.4
1144.1	22.5°	1142.7	1126.9	965.8	650.9	435.7	344.2	301.0	281.4	270.3	258.4
1264.4	25°	1247.2	1228.5	986.0	597.7	397.8	314.0	279.0	262.7	249.7	235.8
1422.1	27.5°	1393.4	1359.8	1009.9	554.1	365.2	288.1	258.8	240.6	225.8	214.3
1600.9	30°	1556.4	1501.2	1031.0	527.7	335.5	264.1	232.5	214.3	200.4	192.2
1761.5	32.5°	1710.7	1635.9	1044.9	516.2	308.7	236.8	203.7	184.1	173.5	171.1
1918.7	35°	1856.4	1757.7	1043.5	505.2	284.7	209.5	175.4	155.3	147.2	148.6
2087.9	37.5°	2024.2	1887.6	1033.4	487.9	265.1	184.5	151.0	133.3	126.1	126.5
2293.5	40°	2219.2	2037.6	1027.2	455.4	243.5	161.5	130.9	116.5	111.2	109.3
2510.2	42.5°	2427.3	2182.8	1028.1	418.4	216.7	140.9	117.0	105.0	100.2	98.7
2751.3	45°	2636.3	2321.3	1029.6	380.1	188.4	125.1	106.9	96.8	93.9	92.0
2995.7	47.5°	2832.8	2439.3	1002.7	338.9	160.6	113.1	98.7	92.0	89.6	87.2
3241.2	50°	3015.9	2517.9	938.0	290.9	138.5	103.5	92.5	87.7	85.3	82.9
3463.6	52.5°	3158.2	2530.3	831.1	241.6	123.2	96.3	88.7	84.4	81.5	79.1
3643.3	55°	3221.5	2452.2	679.2	195.6	111.2	90.1	84.8	80.5	77.2	74.8
3784.7	57.5°	3205.2	2287.8	529.6	157.2	99.7	83.9	80.0	77.2	73.3	69.5
3899.3	60°	3125.2	2067.8	399.3	130.9	89.2	77.2	74.8	72.4	67.1	61.4
3943.4	62.5°	2986.6	1791.2	284.7	108.3	77.6	69.5	68.5	66.6	59.0	48.4
3878.2	65°	2774.8	1455.2	191.7	90.1	66.6	60.9	61.4	58.0	47.9	35.9
3639.5	67.5°	2465.1	1064.1	122.7	73.8	55.6	50.8	51.3	49.4	40.7	30.7
3187.0	70°	2070.7	704.6	80.0	56.1	44.6	39.3	42.2	42.7	34.5	24.9
2446.0	72.5°	1518.0	416.0	56.1	41.7	32.6	27.3	34.5	35.5	27.8	18.7
1471.5	75°	865.2	197.5	42.2	30.2	20.1	19.2	26.8	26.8	19.2	12.5
637.0	77.5°	363.3	82.4	29.7	19.7	11.5	11.0	18.2	16.8	9.6	5.8
155.3	80°	105.0	36.9	15.8	9.6	4.8	4.3	7.2	5.3	2.4	1.0
59.0	82.5°	41.2	16.3	6.2	3.8	1.9	1.9	1.0	0.0	0.0	0.0
33.6	85°	24.4	6.7	2.9	1.4	0.5	0.0	0.0	0.0	0.0	0.0
7.2	87.5°	6.2	1.4	1.0	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>
831.6
825.9
790.4
689.3
547.4
427.1
357.6
309.2
278.5
256.4
234.4
211.9
190.8
172.6
148.6
128.5
108.8
98.3
92.0
87.2
82.9
78.6
74.3
69.0
60.4
47.5
35.0
29.2
24.0
17.7
11.5
5.8
1.0
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