

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: P939896

Luminaire Tested: **GALN-SB2C-950-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939896
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-950-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 5000K, 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: 8171 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

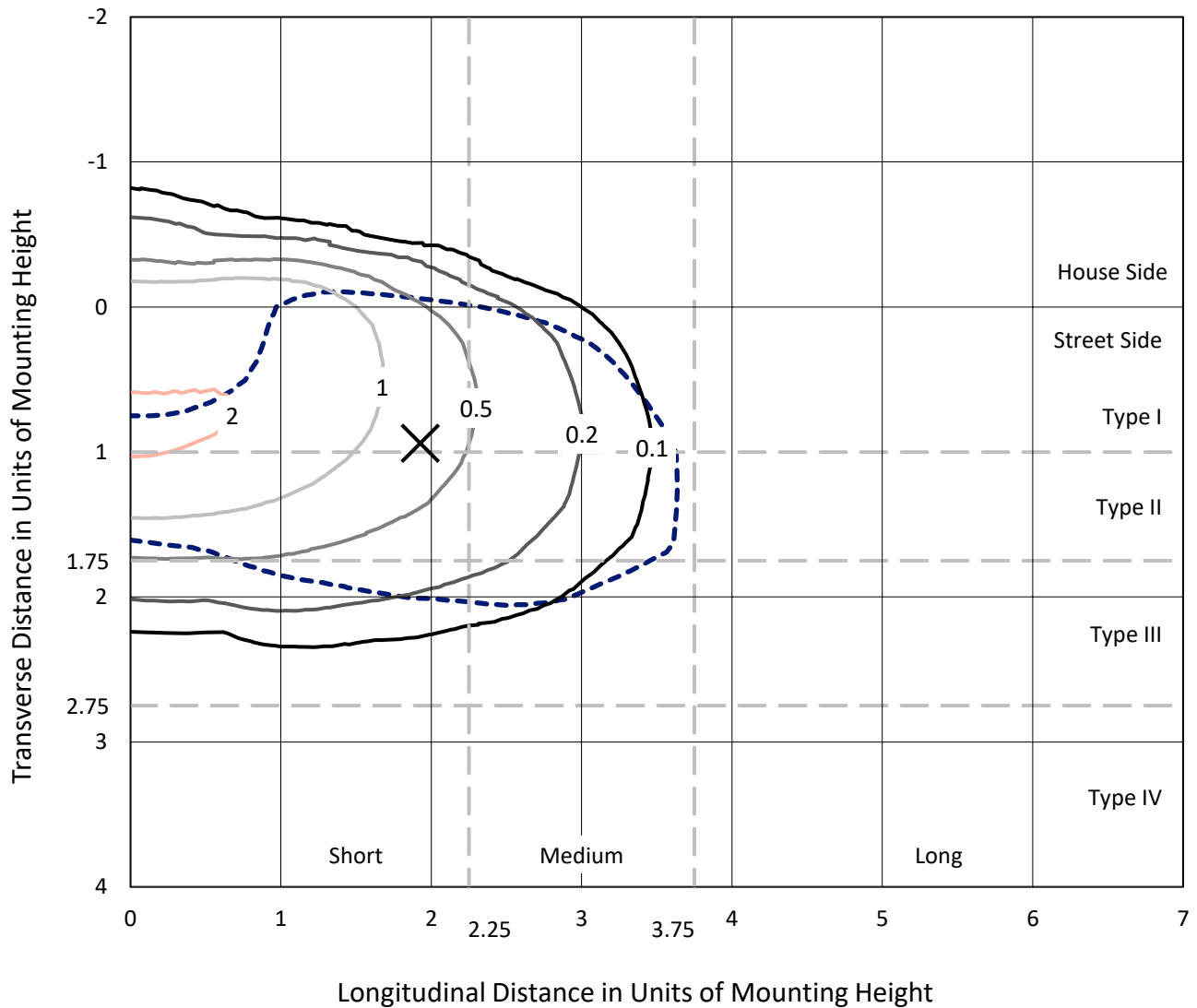
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

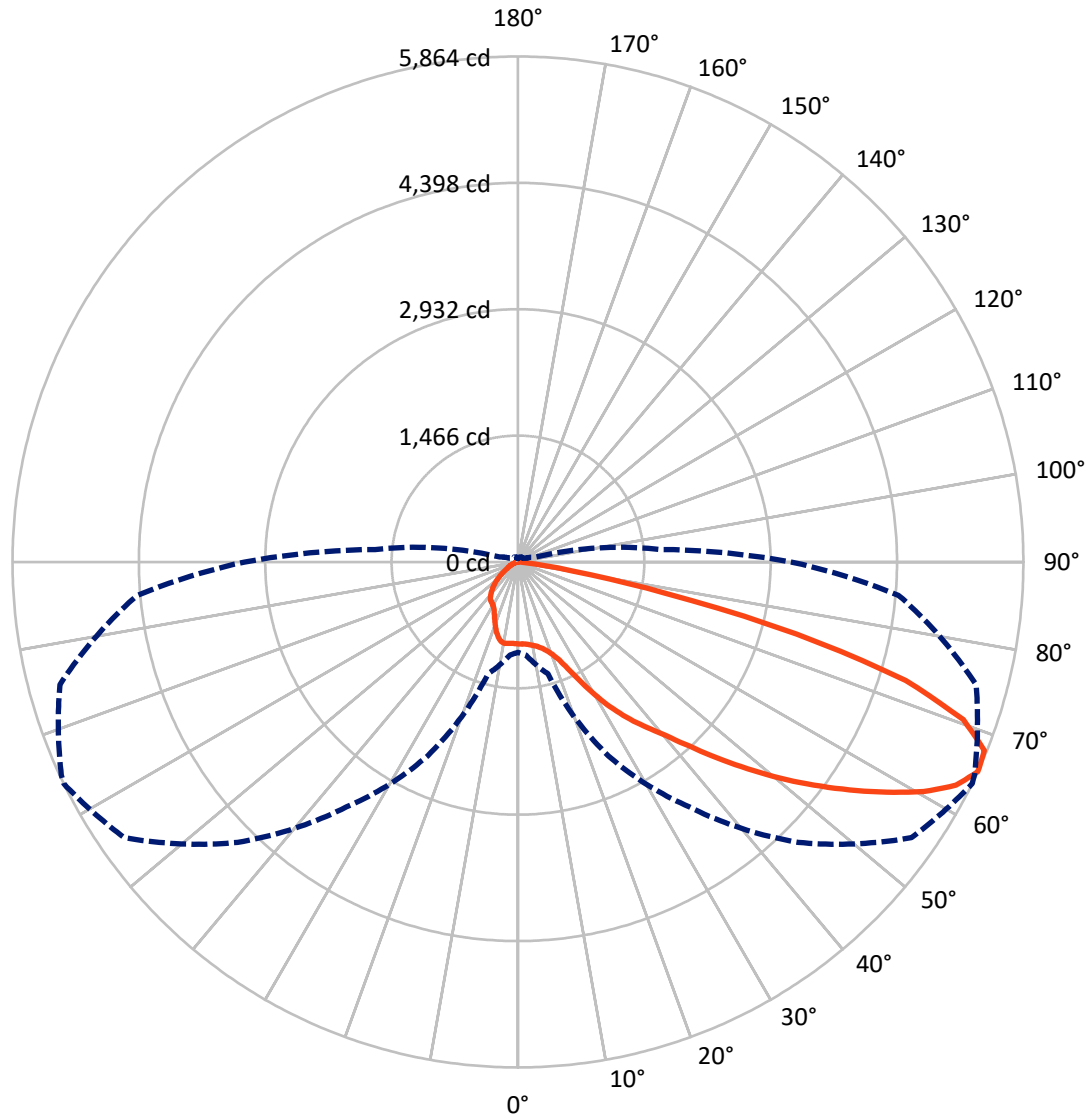
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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	1092.7	0.0	1092.7
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	7078.3	0.0	7078.3
	% Fixture	86.6	0.0	86.6
Total	Lumens	8171.0	0.0	8171.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.7	1.1
10°-20°	237.8	2.9
20°-30°	450.6	5.5
30°-40°	911.9	11.2
40°-50°	1553.4	19.0
50°-60°	2112.5	25.9
60°-70°	1983.8	24.3
70°-80°	794.8	9.7
80°-90°	38.5	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°	8171.0	100.0
0°-180°	8171.0	100.0

Coefficient of Utilization



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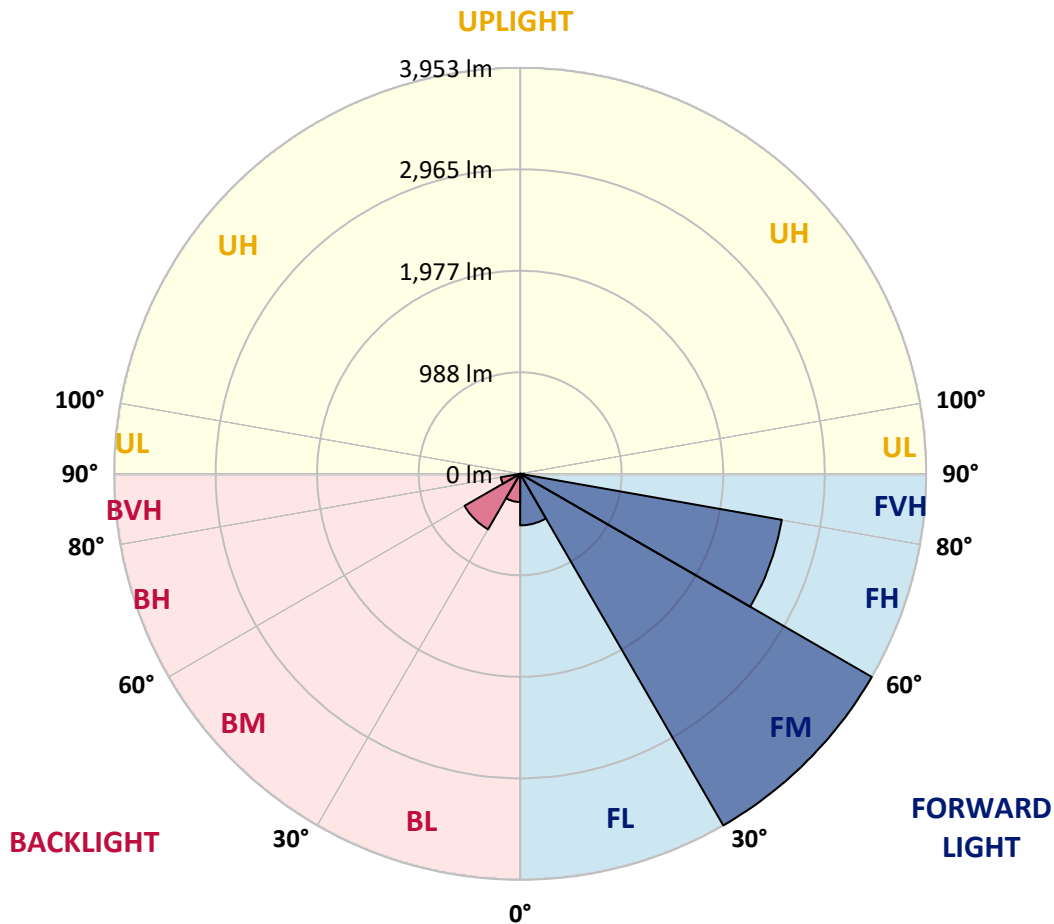
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	501.8	6.1			
FM (30°-60°)	3953.1	48.4			
FH (60°-80°)	2586.7	31.7			G2/5000
FVH (80°-90°)	36.6	0.4			G1/100
BL (0°-30°)	274.3	3.4	B1/500		
BM (30°-60°)	624.7	7.6	B1/1000		
BH (60°-80°)	191.8	2.3	B1/500		G1/500
BVH (80°-90°)	1.9	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°	950.4	950.4	950.4	950.4	950.4	950.4	950.4	950.4	950.4	950.4
2.5°	947.1	953.7	952.0	950.4	949.8	950.9	951.5	950.9	950.9	950.9
5°	929.0	934.5	934.5	938.3	943.8	950.4	955.3	956.4	957.5	959.1
7.5°	894.5	898.9	902.2	914.8	928.5	946.0	960.8	968.4	969.5	975.6
10°	870.9	876.4	881.9	895.0	914.8	941.1	966.3	984.9	987.6	1001.9
12.5°	869.9	875.3	882.4	896.7	919.7	947.6	978.3	1005.1	1010.1	1030.9
15°	881.4	887.9	894.5	912.0	936.7	970.6	1003.5	1036.9	1041.8	1071.4
17.5°	904.9	913.7	918.6	936.1	962.4	1000.2	1043.5	1081.8	1086.2	1120.7
20°	951.5	961.9	963.5	977.8	1003.5	1044.0	1095.5	1143.2	1148.7	1188.1
22.5°	1047.9	1062.7	1049.5	1056.6	1079.6	1120.2	1176.1	1236.3	1244.0	1288.9
25°	1217.7	1238.5	1204.5	1192.5	1202.3	1244.5	1314.6	1390.8	1399.5	1435.7
27.5°	1551.3	1524.4	1472.9	1422.5	1393.0	1417.1	1495.9	1590.2	1601.1	1636.2
30°	1917.7	1894.2	1824.6	1712.9	1642.7	1638.9	1711.8	1816.9	1829.5	1862.9
32.5°	2284.7	2262.3	2186.7	2049.2	1927.6	1867.3	1917.7	2034.4	2041.0	2062.3
35°	2645.7	2622.7	2547.1	2406.3	2256.8	2119.9	2110.0	2241.5	2243.6	2266.1
37.5°	3008.9	2989.7	2909.2	2771.1	2623.8	2434.8	2343.3	2437.6	2440.3	2462.2
40°	3268.0	3276.2	3220.9	3114.0	2987.5	2781.0	2605.2	2646.3	2629.8	2666.5
42.5°	3490.4	3506.8	3458.6	3404.9	3331.5	3149.6	2929.4	2922.3	2896.0	2915.8
45°	3682.6	3696.3	3653.0	3640.4	3638.8	3511.2	3283.9	3241.1	3204.4	3200.6
47.5°	3753.3	3779.6	3798.2	3840.4	3922.5	3868.9	3650.3	3584.0	3542.9	3512.8
50°	3780.1	3808.1	3871.6	3994.3	4188.8	4211.8	4015.1	3940.6	3890.2	3835.5
52.5°	3744.0	3793.8	3879.3	4085.8	4367.9	4486.7	4365.1	4300.0	4242.4	4153.2
55°	3530.9	3580.7	3755.5	4084.7	4457.2	4679.6	4696.0	4667.0	4602.3	4461.5
57.5°	3081.7	3155.7	3432.3	3945.6	4455.5	4845.5	5020.3	5041.1	4968.8	4767.2
60°	2459.5	2559.7	2897.1	3637.2	4318.0	4935.4	5304.6	5408.6	5331.9	5068.5
62.5°	1716.1	1832.3	2151.6	3154.0	4003.6	4870.7	5512.2	5704.4	5646.4	5338.0
65°	1046.8	1084.0	1341.5	2481.9	3469.0	4600.1	5576.2	5864.4	5845.2	5502.8
67.5°	697.3	728.5	802.5	1701.9	2692.8	4059.5	5422.9	5836.4	5841.9	5476.0
70°	420.1	447.0	495.2	989.8	1745.2	3213.2	4948.0	5480.4	5512.2	5117.2
72.5°	173.1	191.2	235.0	448.6	903.8	2039.3	3940.1	4705.3	4779.2	4302.7
75°	98.0	107.4	138.0	225.1	392.2	950.4	2386.6	3340.3	3449.3	2965.6
77.5°	65.2	69.6	89.3	145.7	220.7	324.3	1019.9	1740.2	1948.4	1619.7
80°	43.8	47.7	61.3	97.5	143.5	139.1	324.8	644.7	793.2	556.5
82.5°	29.6	30.1	43.8	64.1	90.9	67.4	95.9	200.5	252.0	161.0
85°	17.0	16.4	32.3	37.2	40.5	27.9	29.0	60.3	78.9	67.9
87.5°	2.2	3.3	12.6	9.9	5.5	6.0	6.0	10.4	15.3	16.4
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°
950.4	0°	950.4	950.4	950.4	950.4	950.4	950.4	950.4	950.4	950.4	950.4
951.5	2.5°	951.5	950.9	949.3	947.6	943.8	941.6	942.7	941.6	941.1	941.6
958.6	5°	958.6	956.9	952.6	947.1	939.4	930.1	924.1	915.3	907.1	902.2
977.8	7.5°	977.8	976.1	970.1	954.8	930.1	891.2	855.6	824.4	800.8	787.1
1008.4	10°	1008.4	1005.7	996.4	962.4	897.8	812.9	742.2	683.6	645.3	627.2
1044.6	12.5°	1044.6	1041.3	1024.9	955.3	836.4	703.9	606.4	541.2	505.6	489.7
1086.2	15°	1087.3	1082.9	1050.6	921.3	747.2	583.4	494.1	445.3	422.3	408.1
1139.4	17.5°	1140.4	1132.8	1069.8	870.4	650.2	491.3	425.1	388.4	368.1	354.4
1208.9	20°	1209.5	1196.9	1085.1	809.6	560.9	433.3	378.5	347.8	332.5	320.4
1307.5	22.5°	1305.9	1287.8	1103.7	743.9	497.9	393.3	344.0	321.5	308.9	295.2
1445.0	25°	1425.3	1403.9	1126.8	683.1	454.6	358.8	318.8	300.2	285.4	269.5
1625.2	27.5°	1592.4	1554.0	1154.1	633.2	417.4	329.2	295.8	275.0	258.0	244.9
1829.5	30°	1778.6	1715.6	1178.2	603.1	383.4	301.8	265.7	244.9	229.0	219.7
2013.0	32.5°	1955.0	1869.5	1194.1	589.9	352.8	270.6	232.8	210.3	198.3	195.6
2192.7	35°	2121.5	2008.7	1192.5	577.3	325.4	239.4	200.5	177.5	168.2	169.8
2386.1	37.5°	2313.2	2157.1	1181.0	557.6	302.9	210.9	172.5	152.3	144.1	144.6
2621.1	40°	2536.2	2328.5	1173.9	520.4	278.3	184.6	149.5	133.1	127.1	124.9
2868.6	42.5°	2773.9	2494.5	1175.0	478.2	247.6	161.0	133.7	120.0	114.5	112.8
3144.2	45°	3012.7	2652.8	1176.6	434.4	215.3	143.0	122.2	110.6	107.4	105.2
3423.5	47.5°	3237.3	2787.6	1145.9	387.3	183.5	129.3	112.8	105.2	102.4	99.7
3704.0	50°	3446.5	2877.4	1072.0	332.5	158.3	118.3	105.7	100.2	97.5	94.8
3958.1	52.5°	3609.2	2891.7	949.8	276.1	140.8	110.1	101.3	96.4	93.1	90.4
4163.6	55°	3681.5	2802.4	776.2	223.5	127.1	103.0	97.0	92.0	88.2	85.5
4325.2	57.5°	3662.9	2614.5	605.3	179.7	113.9	95.9	91.5	88.2	83.8	79.4
4456.1	60°	3571.4	2363.1	456.3	149.5	101.9	88.2	85.5	82.7	76.7	70.1
4506.5	62.5°	3413.1	2047.0	325.4	123.8	88.7	79.4	78.3	76.1	67.4	55.3
4432.0	65°	3171.0	1663.0	219.1	103.0	76.1	69.6	70.1	66.3	54.8	41.1
4159.2	67.5°	2817.2	1216.0	140.2	84.4	63.5	58.1	58.6	56.4	46.6	35.1
3642.1	70°	2366.3	805.2	91.5	64.1	50.9	44.9	48.2	48.8	39.4	28.5
2795.2	72.5°	1734.8	475.5	64.1	47.7	37.2	31.2	39.4	40.5	31.8	21.4
1681.6	75°	988.7	225.7	48.2	34.5	23.0	21.9	30.7	30.7	21.9	14.2
728.0	77.5°	415.2	94.2	34.0	22.5	13.1	12.6	20.8	19.2	11.0	6.6
177.5	80°	120.0	42.2	18.1	11.0	5.5	4.9	8.2	6.0	2.7	1.1
67.4	82.5°	47.1	18.6	7.1	4.4	2.2	2.2	1.1	0.0	0.0	0.0
38.3	85°	27.9	7.7	3.3	1.6	0.5	0.0	0.0	0.0	0.0	0.0
8.2	87.5°	7.1	1.6	1.1	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>
950.4
943.8
903.3
787.7
625.5
488.1
408.6
353.3
318.3
293.1
267.9
242.1
218.0
197.2
169.8
146.8
124.3
112.3
105.2
99.7
94.8
89.8
84.9
78.9
69.0
54.2
40.0
33.4
27.4
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6.6
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