

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: P942946

Luminaire Tested: **GALN-SB7A-940-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942946
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-SB7A-940-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 4000K, 350mA 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: 18130 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

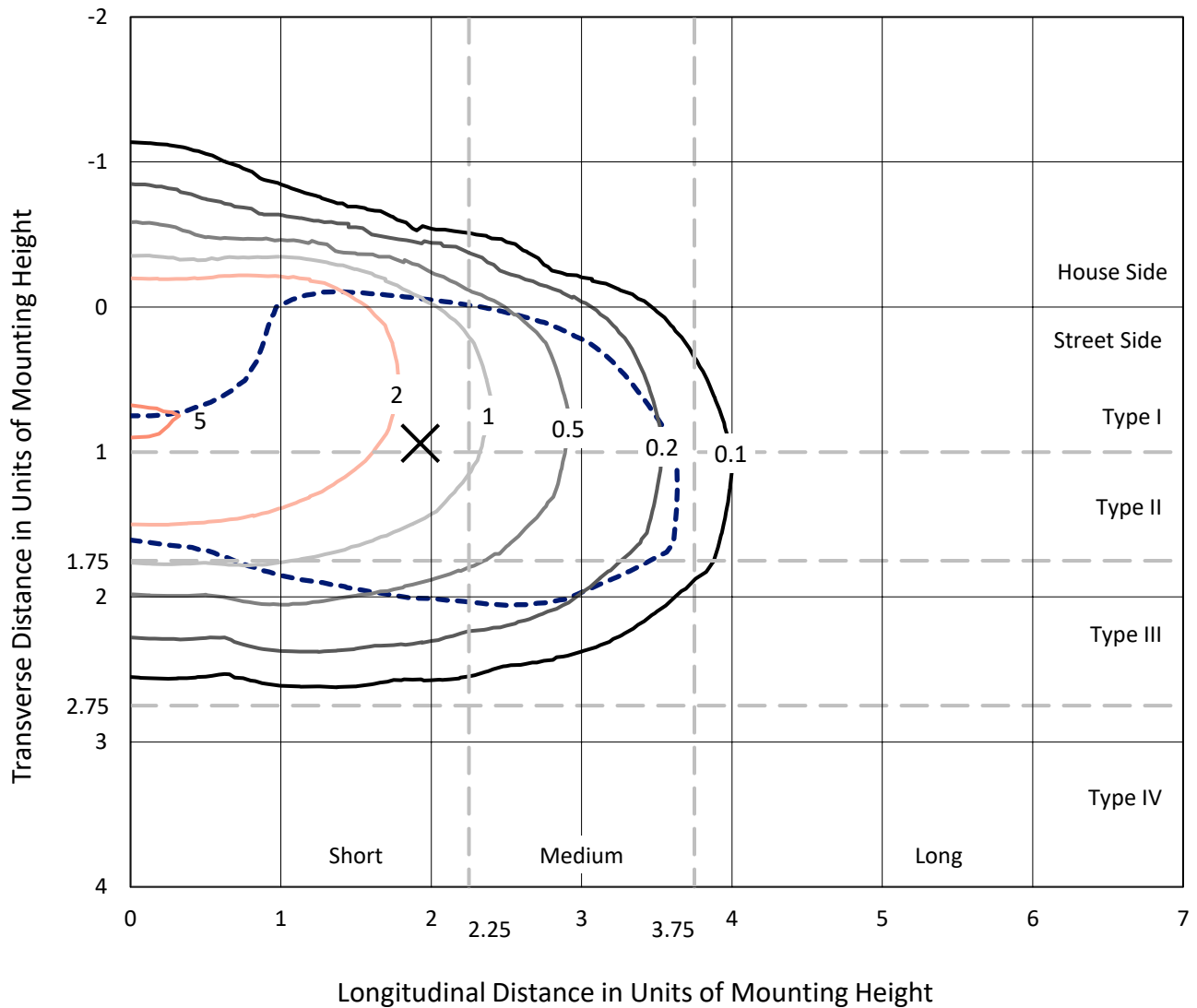
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

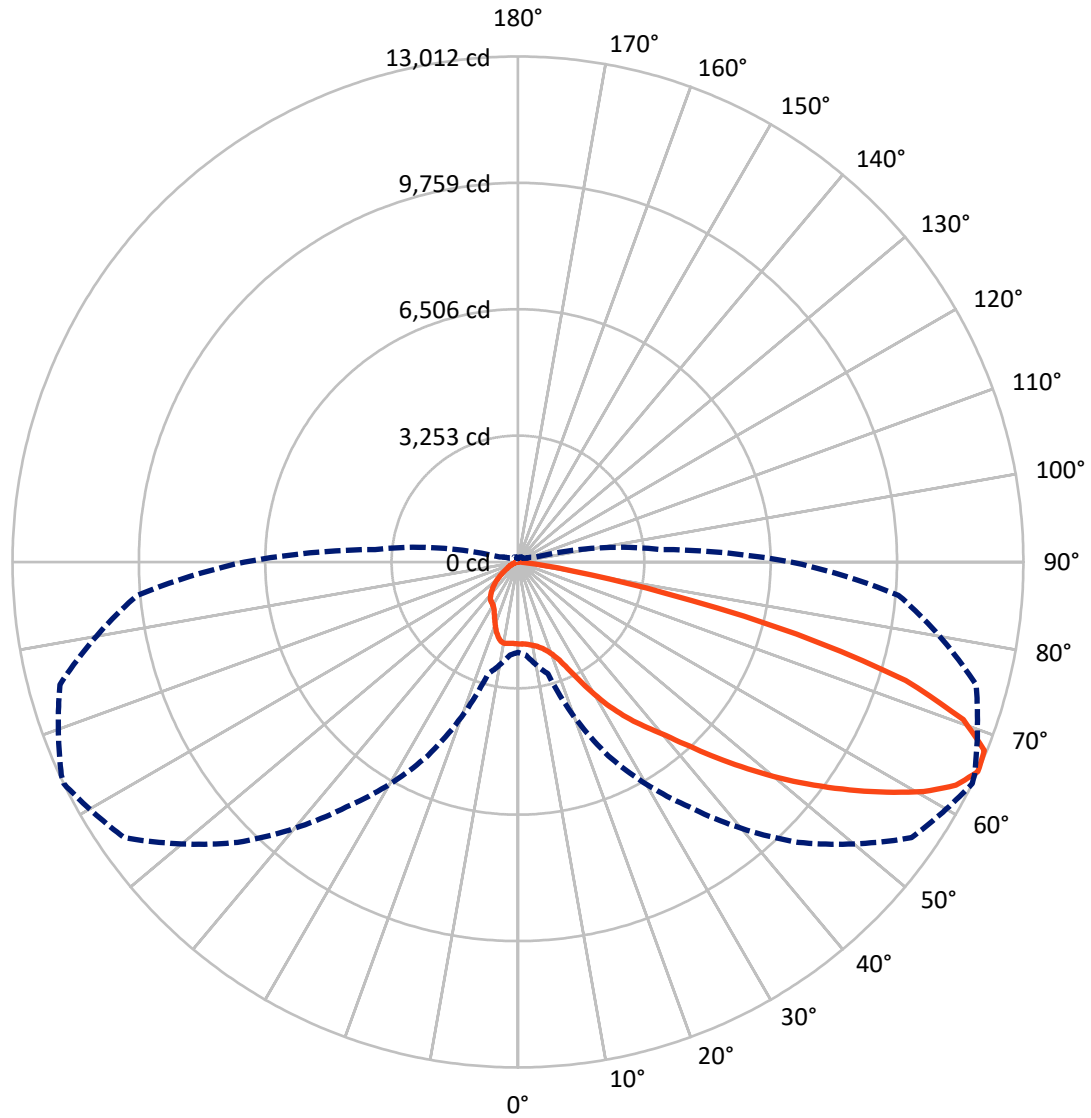
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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	2424.5	0.0	2424.5
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	15705.5	0.0	15705.5
	% Fixture	86.6	0.0	86.6
Total	Lumens	18130.0	0.0	18130.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.6	1.1
10°-20°	527.7	2.9
20°-30°	999.9	5.5
30°-40°	2023.3	11.2
40°-50°	3446.7	19.0
50°-60°	4687.3	25.9
60°-70°	4401.6	24.3
70°-80°	1763.5	9.7
80°-90°	85.4	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°	18130.0	100.0
0°-180°	18130.0	100.0

Coefficient of Utilization



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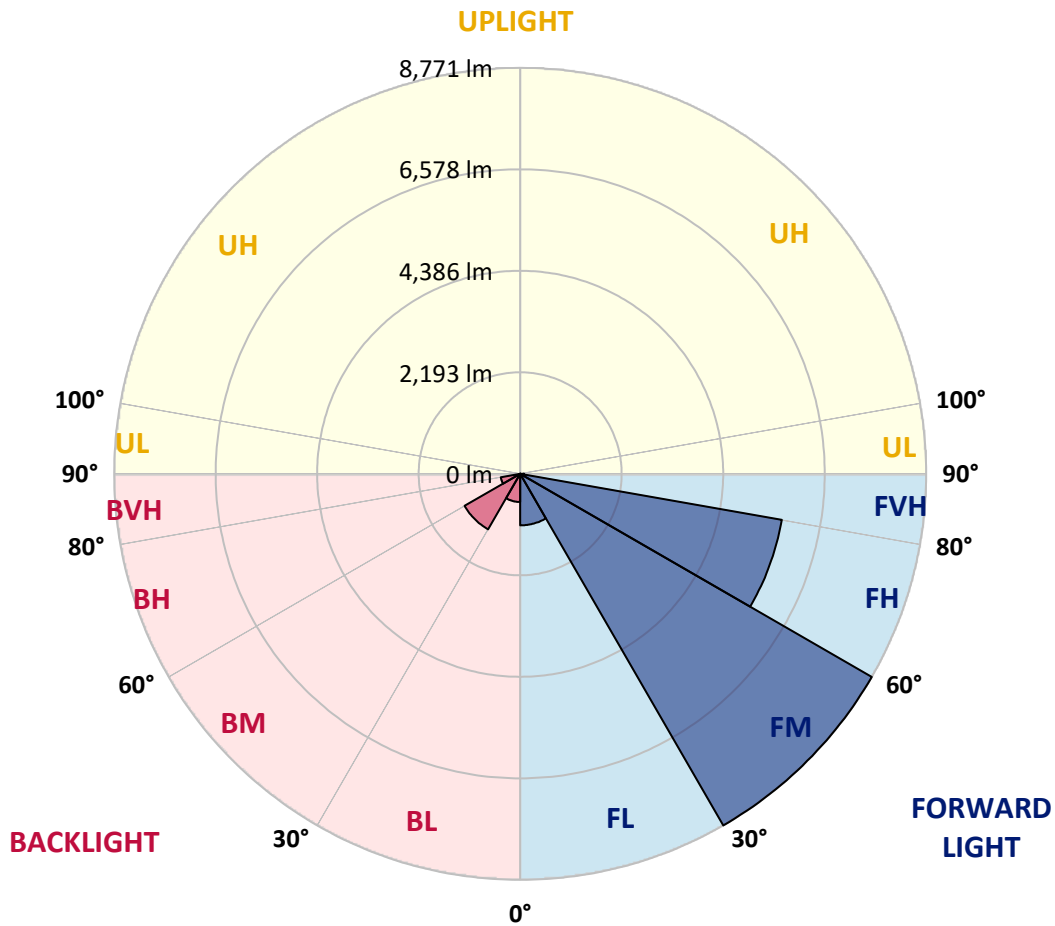
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1113.4	6.1			
FM (30°-60°)	8771.3	48.4			
FH (60°-80°)	5739.5	31.7			G3/7500
FVH (80°-90°)	81.3	0.4			G1/100
BL (0°-30°)	608.7	3.4	B2/1000		
BM (30°-60°)	1386.1	7.6	B2/2500		
BH (60°-80°)	425.5	2.3	B1/500		G1/500
BVH (80°-90°)	4.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	2108.7	2108.7	2108.7	2108.7	2108.7	2108.7	2108.7	2108.7	2108.7	2108.7
2.5°	2101.4	2116.0	2112.4	2108.7	2107.5	2109.9	2111.1	2109.9	2109.9	2109.9
5°	2061.3	2073.5	2073.5	2082.0	2094.1	2108.7	2119.6	2122.1	2124.5	2128.2
7.5°	1984.7	1994.5	2001.8	2029.7	2060.1	2099.0	2131.8	2148.8	2151.2	2164.6
10°	1932.5	1944.6	1956.8	1986.0	2029.7	2088.0	2144.0	2185.3	2191.4	2223.0
12.5°	1930.0	1942.2	1958.0	1989.6	2040.6	2102.6	2170.7	2230.2	2241.2	2287.4
15°	1955.6	1970.2	1984.7	2023.6	2078.3	2153.7	2226.6	2300.7	2311.7	2377.3
17.5°	2007.8	2027.3	2038.2	2077.1	2135.4	2219.3	2315.3	2400.4	2410.1	2486.7
20°	2111.1	2134.2	2137.9	2169.5	2226.6	2316.5	2430.8	2536.5	2548.7	2636.2
22.5°	2325.0	2357.9	2328.7	2344.5	2395.5	2485.5	2609.4	2743.1	2760.2	2859.8
25°	2701.8	2748.0	2672.6	2645.9	2667.8	2761.4	2916.9	3085.9	3105.3	3185.5
27.5°	3442.0	3382.4	3268.2	3156.4	3090.7	3144.2	3319.2	3528.3	3552.6	3630.4
30°	4255.1	4202.8	4048.5	3800.5	3645.0	3636.5	3798.1	4031.5	4059.4	4133.6
32.5°	5069.4	5019.6	4851.8	4546.8	4277.0	4143.3	4255.1	4514.0	4528.6	4576.0
35°	5870.3	5819.3	5651.6	5339.2	5007.4	4703.6	4681.7	4973.4	4978.3	5028.1
37.5°	6676.2	6633.6	6455.0	6148.7	5821.7	5402.4	5199.5	5408.5	5414.6	5463.2
40°	7251.0	7269.3	7146.5	6909.5	6628.8	6170.6	5780.4	5871.6	5835.1	5916.5
42.5°	7744.5	7780.9	7674.0	7554.9	7392.0	6988.5	6499.9	6484.1	6425.8	6469.5
45°	8171.1	8201.5	8105.5	8077.5	8073.9	7790.7	7286.3	7191.5	7110.1	7101.5
47.5°	8327.9	8386.2	8427.5	8521.1	8703.4	8584.3	8099.4	7952.3	7861.2	7794.3
50°	8387.4	8449.4	8590.4	8862.6	9294.1	9345.2	8908.8	8743.5	8631.7	8510.2
52.5°	8307.2	8417.8	8607.4	9065.6	9691.5	9955.3	9685.5	9540.8	9413.2	9215.1
55°	7834.4	7945.0	8332.7	9063.2	9889.7	10383.1	10419.6	10355.2	10211.7	9899.4
57.5°	6837.8	7001.9	7615.7	8754.5	9886.0	10751.4	11139.1	11185.3	11024.8	10577.6
60°	5457.1	5679.5	6428.2	8070.2	9580.9	10950.7	11769.9	12000.8	11830.6	11246.0
62.5°	3807.8	4065.5	4774.1	6998.2	8883.3	10807.3	12230.5	12657.1	12528.3	11844.0
65°	2322.6	2405.3	2976.5	5506.9	7697.1	10206.9	12372.7	13012.0	12969.5	12209.8
67.5°	1547.2	1616.5	1780.6	3776.2	5974.9	9007.3	12032.4	12950.0	12962.2	12150.3
70°	932.2	991.8	1098.7	2196.2	3872.2	7129.5	10978.6	12160.0	12230.5	11354.2
72.5°	384.1	424.2	521.4	995.4	2005.4	4524.9	8742.3	10440.2	10604.3	9546.9
75°	217.6	238.2	306.3	499.5	870.2	2108.7	5295.5	7411.5	7653.3	6580.1
77.5°	144.6	154.4	198.1	323.3	489.8	719.5	2263.1	3861.3	4323.2	3593.9
80°	97.2	105.7	136.1	216.3	318.4	308.7	720.7	1430.5	1759.9	1234.8
82.5°	65.6	66.8	97.2	142.2	201.8	149.5	212.7	444.8	559.1	357.3
85°	37.7	36.5	71.7	82.6	89.9	62.0	64.4	133.7	175.0	150.7
87.5°	4.9	7.3	28.0	21.9	12.2	13.4	13.4	23.1	34.0	36.5
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°
2108.7	0°	2108.7	2108.7	2108.7	2108.7	2108.7	2108.7	2108.7	2108.7	2108.7	2108.7
2111.1	2.5°	2111.1	2109.9	2106.3	2102.6	2094.1	2089.3	2091.7	2089.3	2088.0	2089.3
2126.9	5°	2126.9	2123.3	2113.6	2101.4	2084.4	2063.7	2050.4	2030.9	2012.7	2001.8
2169.5	7.5°	2169.5	2165.8	2152.5	2118.4	2063.7	1977.4	1898.4	1829.2	1776.9	1746.5
2237.5	10°	2237.5	2231.5	2210.8	2135.4	1992.0	1803.6	1646.9	1516.8	1431.7	1391.6
2317.8	12.5°	2317.8	2310.5	2274.0	2119.6	1855.9	1561.8	1345.4	1200.8	1121.8	1086.6
2410.1	15°	2412.6	2402.8	2331.1	2044.3	1657.8	1294.4	1096.3	988.1	937.1	905.5
2528.0	17.5°	2530.4	2513.4	2373.7	1931.3	1442.7	1090.2	943.1	861.7	816.7	786.4
2682.4	20°	2683.6	2655.6	2407.7	1796.4	1244.6	961.4	839.8	771.8	737.7	711.0
2901.1	22.5°	2897.5	2857.4	2449.0	1650.5	1104.8	872.7	763.3	713.4	685.5	655.1
3206.2	25°	3162.5	3115.1	2500.1	1515.6	1008.8	796.1	707.4	666.0	633.2	598.0
3606.1	27.5°	3533.1	3448.1	2560.8	1405.0	926.1	730.5	656.3	610.1	572.5	543.3
4059.4	30°	3946.4	3806.6	2614.3	1338.1	850.8	669.7	589.5	543.3	508.0	487.4
4466.6	32.5°	4337.7	4148.1	2649.6	1309.0	782.7	600.4	516.5	466.7	440.0	433.9
4865.2	35°	4707.2	4456.8	2645.9	1281.0	721.9	531.1	444.8	393.8	373.1	376.8
5294.3	37.5°	5132.6	4786.2	2620.4	1237.3	672.1	467.9	382.8	337.9	319.6	320.9
5815.7	40°	5627.3	5166.6	2604.6	1154.6	617.4	409.6	331.8	295.3	282.0	277.1
6365.0	42.5°	6154.8	5534.9	2607.0	1061.0	549.4	357.3	296.6	266.2	254.0	250.4
6976.4	45°	6684.7	5886.1	2610.7	963.8	477.6	317.2	271.0	245.5	238.2	233.4
7596.2	47.5°	7183.0	6185.1	2542.6	859.3	407.2	286.8	250.4	233.4	227.3	221.2
8218.5	50°	7647.3	6384.5	2378.5	737.7	351.2	262.5	234.6	222.4	216.3	210.3
8782.4	52.5°	8008.2	6416.1	2107.5	612.6	312.4	244.3	224.8	213.9	206.6	200.5
9238.2	55°	8168.7	6218.0	1722.2	495.9	282.0	228.5	215.1	204.2	195.7	189.6
9596.7	57.5°	8127.3	5801.1	1343.0	398.6	252.8	212.7	203.0	195.7	186.0	176.2
9887.2	60°	7924.4	5243.2	1012.4	331.8	226.1	195.7	189.6	183.5	170.2	155.6
9999.0	62.5°	7573.1	4541.9	721.9	274.7	196.9	176.2	173.8	168.9	149.5	122.8
9833.7	65°	7035.9	3689.9	486.2	228.5	168.9	154.4	155.6	147.1	121.5	91.2
9228.5	67.5°	6250.8	2698.2	311.1	187.2	141.0	128.8	130.0	125.2	103.3	77.8
8081.1	70°	5250.5	1786.6	203.0	142.2	113.0	99.7	107.0	108.2	87.5	63.2
6202.2	72.5°	3849.2	1055.0	142.2	105.7	82.6	69.3	87.5	89.9	70.5	47.4
3731.3	75°	2193.8	500.7	107.0	76.6	51.0	48.6	68.1	68.1	48.6	31.6
1615.3	77.5°	921.3	209.0	75.4	49.8	29.2	28.0	46.2	42.5	24.3	14.6
393.8	80°	266.2	93.6	40.1	24.3	12.2	10.9	18.2	13.4	6.1	2.4
149.5	82.5°	104.5	41.3	15.8	9.7	4.9	4.9	2.4	0.0	0.0	0.0
85.1	85°	62.0	17.0	7.3	3.6	1.2	0.0	0.0	0.0	0.0	0.0
18.2	87.5°	15.8	3.6	2.4	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

180°
2108.7
2094.1
2004.2
1747.7
1388.0
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906.7
783.9
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537.2
483.7
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