

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: P950895

Luminaire Tested: **GALN-SB5A-950-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950895
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5A-950-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13123 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

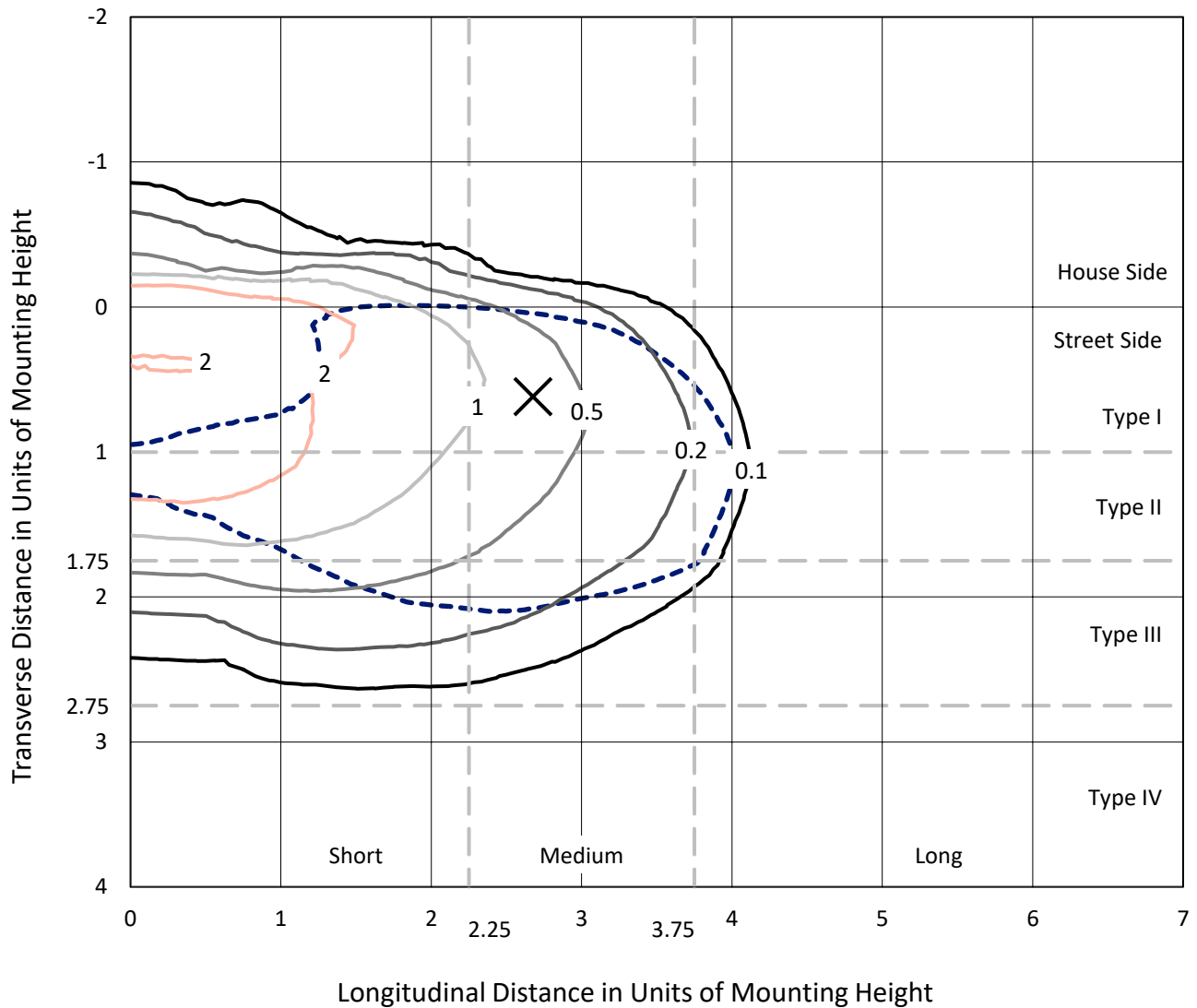
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

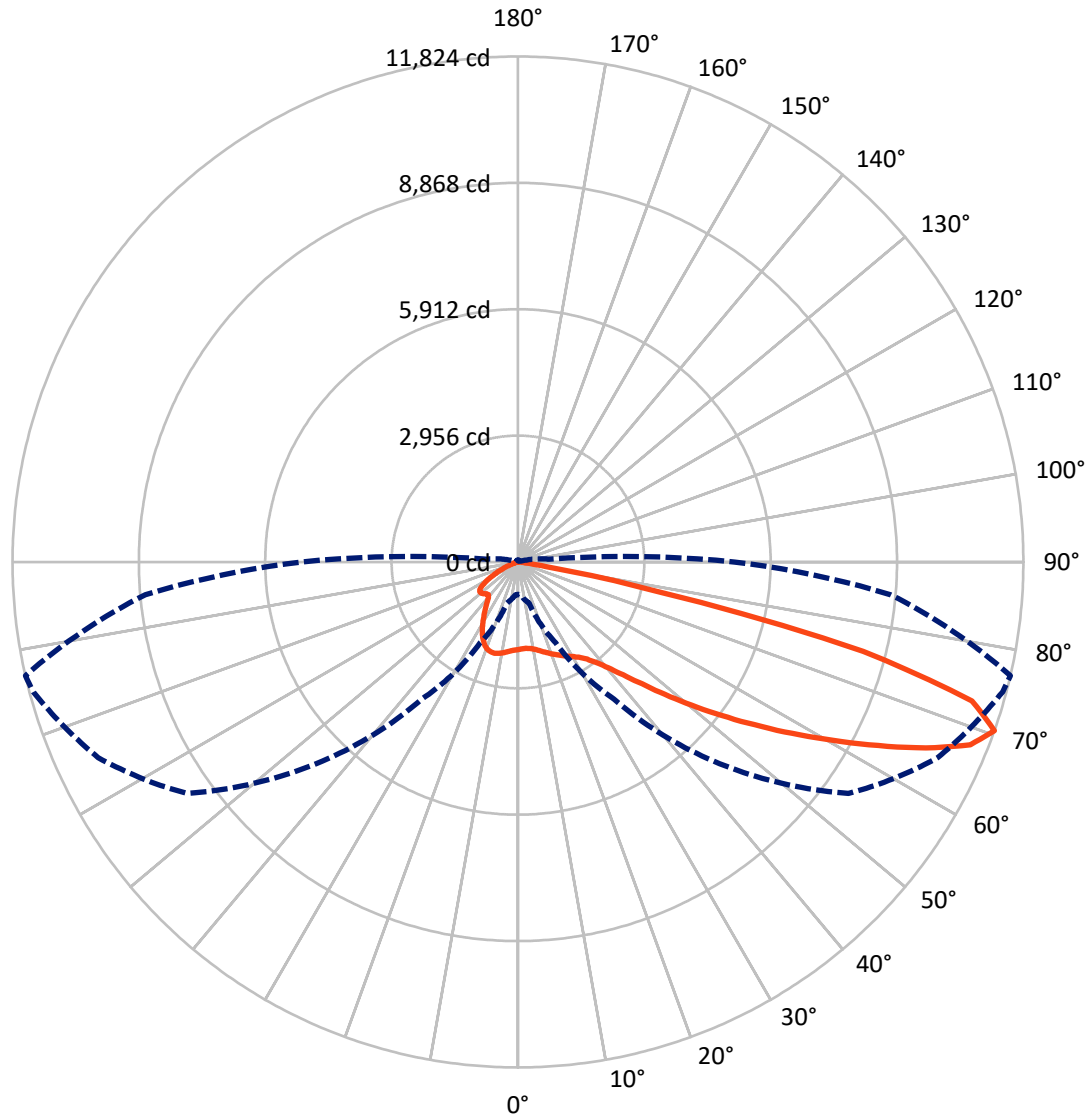
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1383.3	0.0	1383.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	11739.6	0.0	11739.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	13123.0	0.0	13123.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.4	1.3
10°-20°	418.8	3.2
20°-30°	647.7	4.9
30°-40°	1175.4	9.0
40°-50°	2218.7	16.9
50°-60°	3205.8	24.4
60°-70°	3412.5	26.0
70°-80°	1808.4	13.8
80°-90°	59.4	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°	13123.0	100.0
0°-180°	13123.0	100.0

Coefficient of Utilization



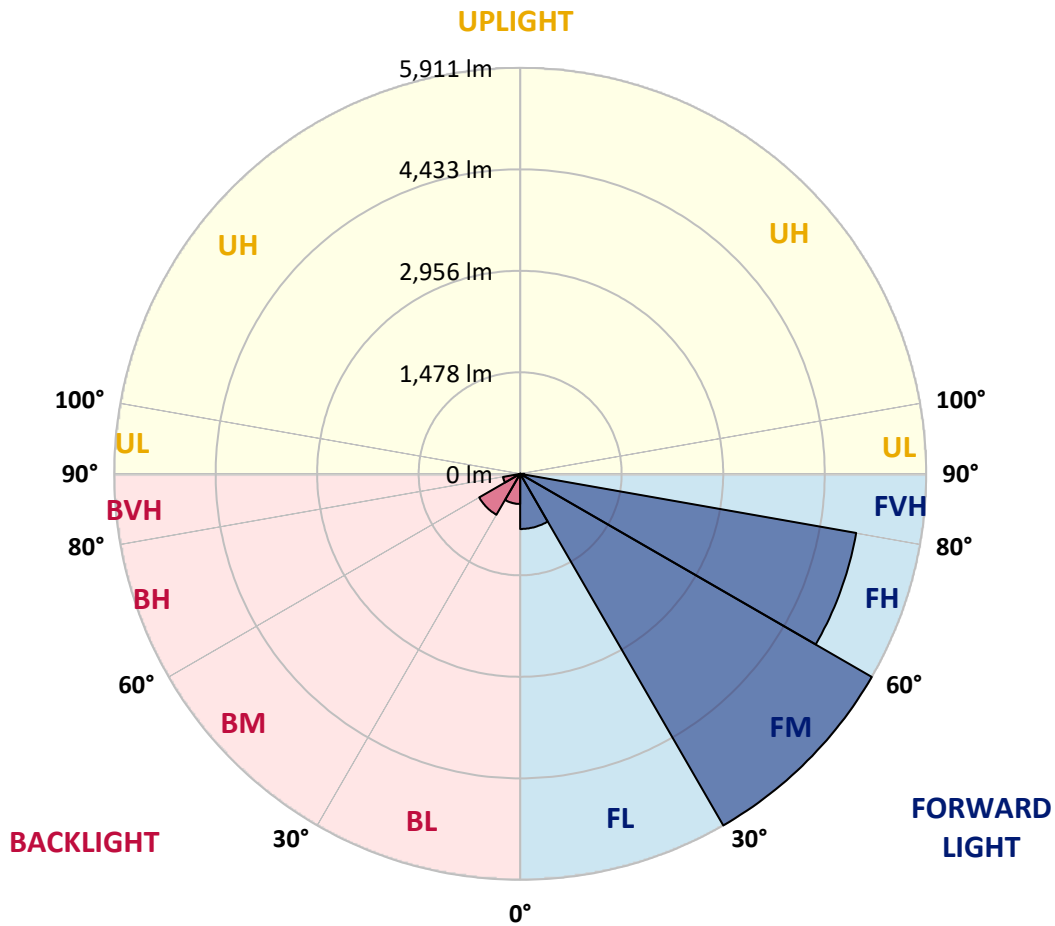
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	803.4	6.1			
FM (30°-60°)	5911.2	45.0			
FH (60°-80°)	4967.2	37.9			G2/5000
FVH (80°-90°)	57.8	0.4			G1/100
BL (0°-30°)	439.5	3.3	B1/500		
BM (30°-60°)	688.6	5.2	B1/1000		
BH (60°-80°)	253.6	1.9	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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2047.0	2047.0	2047.0	2047.0	2047.0	2047.0	2047.0	2047.0	2047.0	2047.0
2.5°	1921.8	1939.2	1936.7	1948.3	1952.5	1969.1	1985.6	2008.0	2032.9	2032.0
5°	1813.3	1830.7	1834.8	1850.5	1870.4	1896.1	1930.1	1974.9	2021.3	2028.7
7.5°	1684.8	1703.0	1713.8	1745.3	1781.8	1834.8	1890.3	1955.8	2032.9	2043.6
10°	1556.3	1572.9	1587.0	1631.8	1689.8	1768.5	1858.8	1953.3	2056.9	2072.6
12.5°	1476.8	1492.5	1508.3	1547.2	1619.3	1715.5	1838.1	1964.9	2096.7	2119.1
15°	1448.6	1462.7	1475.1	1509.9	1577.1	1686.5	1834.0	1988.9	2147.2	2177.1
17.5°	1452.8	1460.2	1468.5	1495.0	1560.5	1673.2	1841.4	2030.4	2206.9	2233.4
20°	1476.8	1480.9	1481.8	1500.0	1558.0	1671.5	1856.3	2070.2	2263.2	2298.9
22.5°	1507.5	1509.1	1507.5	1519.9	1573.7	1684.0	1876.2	2118.2	2326.2	2359.4
25°	1650.8	1619.3	1579.6	1555.5	1600.3	1708.0	1906.1	2182.9	2395.0	2427.3
27.5°	2095.8	2005.5	1863.0	1703.0	1655.0	1742.8	1947.5	2248.3	2464.6	2493.6
30°	2818.5	2700.0	2458.0	2097.5	1830.7	1815.7	2001.4	2313.8	2538.4	2569.9
32.5°	3542.8	3513.8	3234.5	2735.6	2226.0	1978.2	2090.9	2402.5	2636.2	2661.0
35°	4275.4	4216.6	3987.8	3494.7	2835.1	2308.8	2240.0	2518.5	2764.6	2792.8
37.5°	4836.4	4800.8	4659.1	4253.0	3557.7	2819.3	2495.3	2698.3	2951.1	2982.6
40°	5332.0	5315.4	5267.4	4999.7	4365.7	3487.3	2892.3	2976.8	3209.7	3246.9
42.5°	5721.5	5760.5	5787.8	5713.2	5198.6	4249.7	3425.9	3367.9	3570.1	3608.3
45°	6120.1	6133.4	6243.6	6351.3	6025.7	5046.9	4027.6	3826.2	4018.5	4065.7
47.5°	6376.2	6429.2	6623.2	6812.9	6721.0	5837.5	4674.0	4367.4	4538.1	4626.8
50°	6395.3	6495.5	6762.4	7093.1	7227.3	6590.0	5376.8	4984.0	5165.4	5263.2
52.5°	6077.9	6233.7	6647.2	7131.2	7500.8	7227.3	6103.6	5600.5	5833.4	5961.0
55°	4659.9	4863.8	6213.8	6924.0	7511.6	7710.5	6811.3	6242.8	6577.6	6721.8
57.5°	4059.9	4162.7	4885.3	6564.3	7311.8	7905.2	7451.1	6854.4	7387.3	7566.3
60°	3377.9	3513.0	4097.2	5975.9	7040.8	7924.3	8016.3	7643.3	8264.9	8466.3
62.5°	2295.6	2442.3	3023.2	4964.9	6670.4	7915.2	8479.5	8455.5	9240.3	9456.6
65°	1422.1	1514.1	1897.0	4054.1	6152.5	7925.1	8964.3	9441.7	10269.6	10489.2
67.5°	1123.8	1166.0	1365.7	3112.7	5259.9	7701.3	9448.3	10369.0	11238.3	11412.4
70°	755.0	780.7	993.6	2086.7	3913.2	6668.8	9439.2	10834.8	11737.2	11824.2
72.5°	397.8	417.7	580.9	966.3	2363.5	4740.3	7956.6	10277.8	11240.8	11109.9
75°	198.9	232.0	391.2	490.6	1009.4	2643.6	4940.9	8103.3	8847.5	8340.3
77.5°	150.8	182.3	323.2	323.2	351.4	890.1	2092.5	4419.6	4076.5	3394.5
80°	96.1	124.3	282.6	244.5	146.7	226.2	545.3	1238.1	866.0	658.8
82.5°	56.4	81.2	235.4	161.6	82.0	83.7	154.1	263.5	224.6	174.9
85°	22.4	53.0	161.6	63.8	32.3	20.7	46.4	56.4	46.4	34.8
87.5°	0.0	12.4	28.2	0.0	2.5	1.7	3.3	4.1	4.1	3.3
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°
2047.0	0°	2047.0	2047.0	2047.0	2047.0	2047.0	2047.0	2047.0	2047.0	2047.0	2047.0
2048.6	2.5°	2056.1	2057.7	2062.7	2063.5	2051.9	2037.0	2031.2	2028.7	2018.8	2017.9
2061.9	5°	2080.9	2088.4	2080.9	2059.4	2008.0	1935.9	1881.2	1836.5	1795.8	1783.4
2107.4	7.5°	2130.7	2138.1	2115.7	2031.2	1901.9	1758.6	1629.3	1538.1	1456.1	1425.4
2163.0	10°	2201.9	2211.9	2141.4	1970.7	1742.0	1511.6	1292.8	1138.7	1018.5	969.6
2238.4	12.5°	2291.4	2295.6	2155.5	1878.7	1534.0	1205.0	895.0	730.1	623.2	583.4
2329.5	15°	2390.0	2384.2	2157.2	1753.6	1250.5	851.9	584.3	479.8	436.7	423.5
2420.7	17.5°	2493.6	2469.6	2124.0	1572.9	939.8	582.6	433.4	408.6	401.1	397.8
2511.0	20°	2595.6	2541.7	2063.5	1336.7	674.6	435.1	393.6	386.2	382.0	380.4
2602.2	22.5°	2688.4	2596.4	1959.9	1062.4	489.8	384.5	372.1	365.5	358.0	354.7
2690.9	25°	2778.7	2627.9	1814.1	806.3	392.0	359.7	349.7	337.3	327.3	323.2
2786.2	27.5°	2866.6	2647.8	1631.8	596.7	349.7	336.5	318.2	300.8	293.4	291.7
2888.1	30°	2960.2	2654.4	1424.6	445.0	324.0	307.5	280.9	261.0	256.9	257.7
3025.7	32.5°	3074.6	2664.4	1215.7	364.6	302.5	272.7	241.2	220.4	217.1	220.4
3226.2	35°	3211.3	2684.2	1014.4	335.6	283.4	237.0	203.0	185.6	182.3	184.8
3483.1	37.5°	3396.9	2716.6	826.2	329.8	267.7	207.2	170.7	156.6	156.6	157.5
3798.0	40°	3643.9	2802.7	658.0	325.7	259.4	184.8	144.2	138.4	140.9	142.5
4199.2	42.5°	3944.7	2985.9	544.5	320.7	250.3	174.9	130.9	128.5	132.6	134.3
4679.8	45°	4282.0	3217.9	504.7	312.4	242.0	181.5	125.1	121.8	126.8	127.6
5218.5	47.5°	4630.9	3445.0	499.7	303.3	233.7	191.4	123.5	116.0	121.8	122.7
5793.6	50°	4984.0	3593.4	504.7	289.2	220.4	191.4	124.3	110.2	115.2	117.7
6390.3	52.5°	5339.5	3661.3	501.4	258.6	197.2	179.8	124.3	105.2	110.2	111.9
7035.0	55°	5684.2	3648.0	450.8	213.0	167.4	159.1	121.0	101.1	104.4	105.2
7644.2	57.5°	5956.9	3463.2	357.2	165.7	135.9	132.6	110.2	96.1	98.6	97.8
8202.7	60°	6099.4	3057.2	255.2	127.6	106.9	104.4	97.0	89.5	91.2	87.0
8675.9	62.5°	6101.1	2520.2	170.7	101.1	85.4	82.9	82.9	80.4	78.7	70.4
9042.2	65°	5971.0	1924.3	113.5	80.4	68.8	64.6	69.6	68.8	63.0	51.4
9154.1	67.5°	5675.9	1261.3	86.2	63.0	53.0	50.6	55.5	58.0	53.9	43.1
8746.4	70°	5069.3	734.3	71.3	48.9	39.8	37.3	44.8	49.7	44.8	34.8
7475.9	72.5°	4210.8	396.1	58.0	36.5	27.3	24.9	35.6	40.6	35.6	25.7
4796.7	75°	2732.3	212.2	44.8	24.0	14.1	15.7	26.5	29.8	24.9	16.6
1408.0	77.5°	917.4	93.6	28.2	11.6	6.6	6.6	15.7	18.2	11.6	5.8
256.1	80°	204.7	39.0	11.6	5.0	2.5	2.5	3.3	3.3	1.7	0.0
78.7	82.5°	67.1	15.7	5.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0
19.9	85°	25.7	5.8	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.6	87.5°	9.9	0.8	0.0	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

180°
2047.0
2019.6
1776.0
1413.0
948.9
571.0
423.5
397.0
378.7
353.9
321.5
290.1
257.7
219.6
184.0
156.6
142.5
134.3
128.5
123.5
118.5
111.9
105.2
97.8
86.2
68.0
49.7
42.3
33.1
24.9
14.9
5.0
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