

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: P941726

Luminaire Tested: **GALN-SB5B-927-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941726
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-SB5B-927-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 2700K, 450mA 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: 13579 lumens
Efficiency: N/A
Efficacy: 74.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

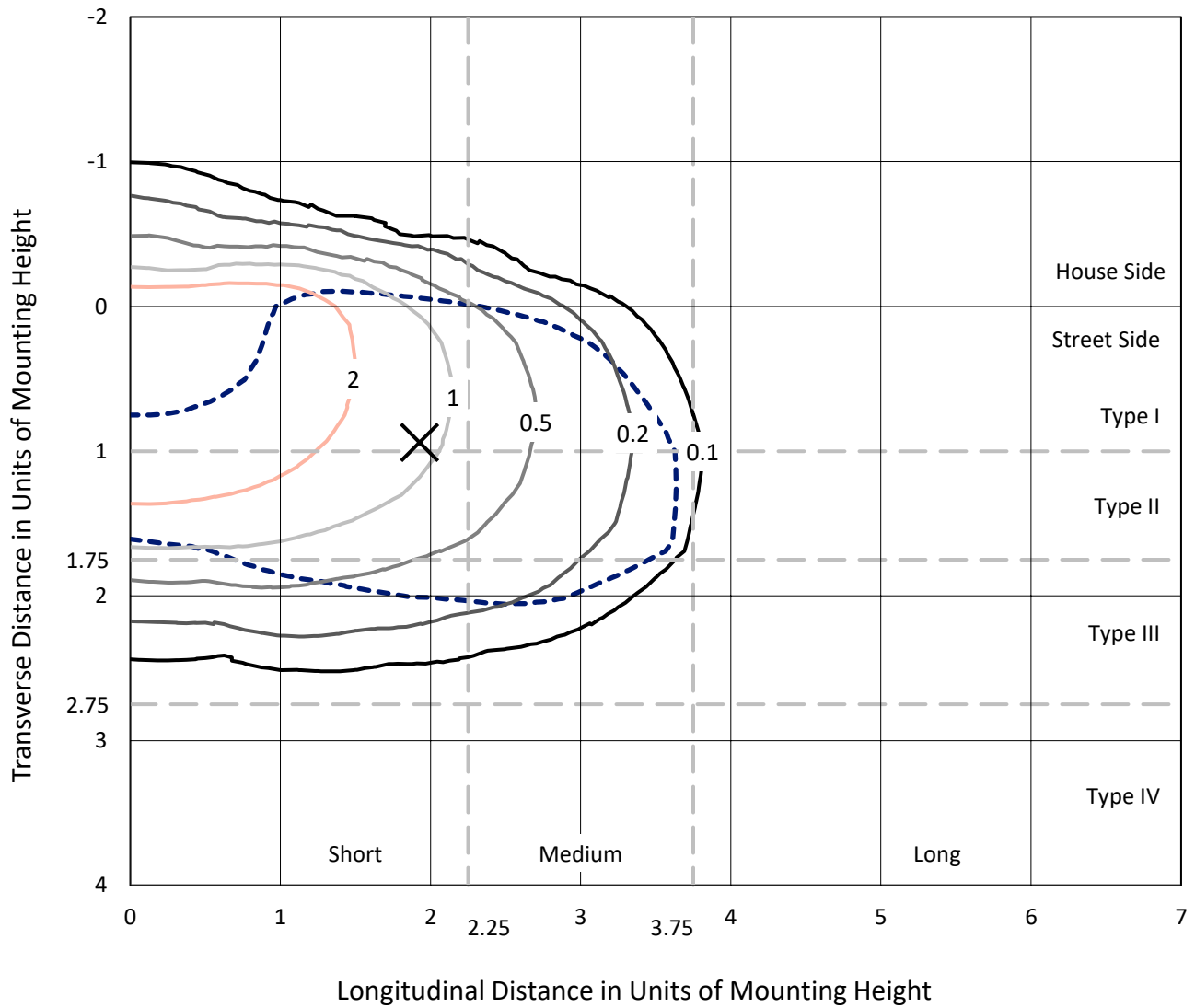
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

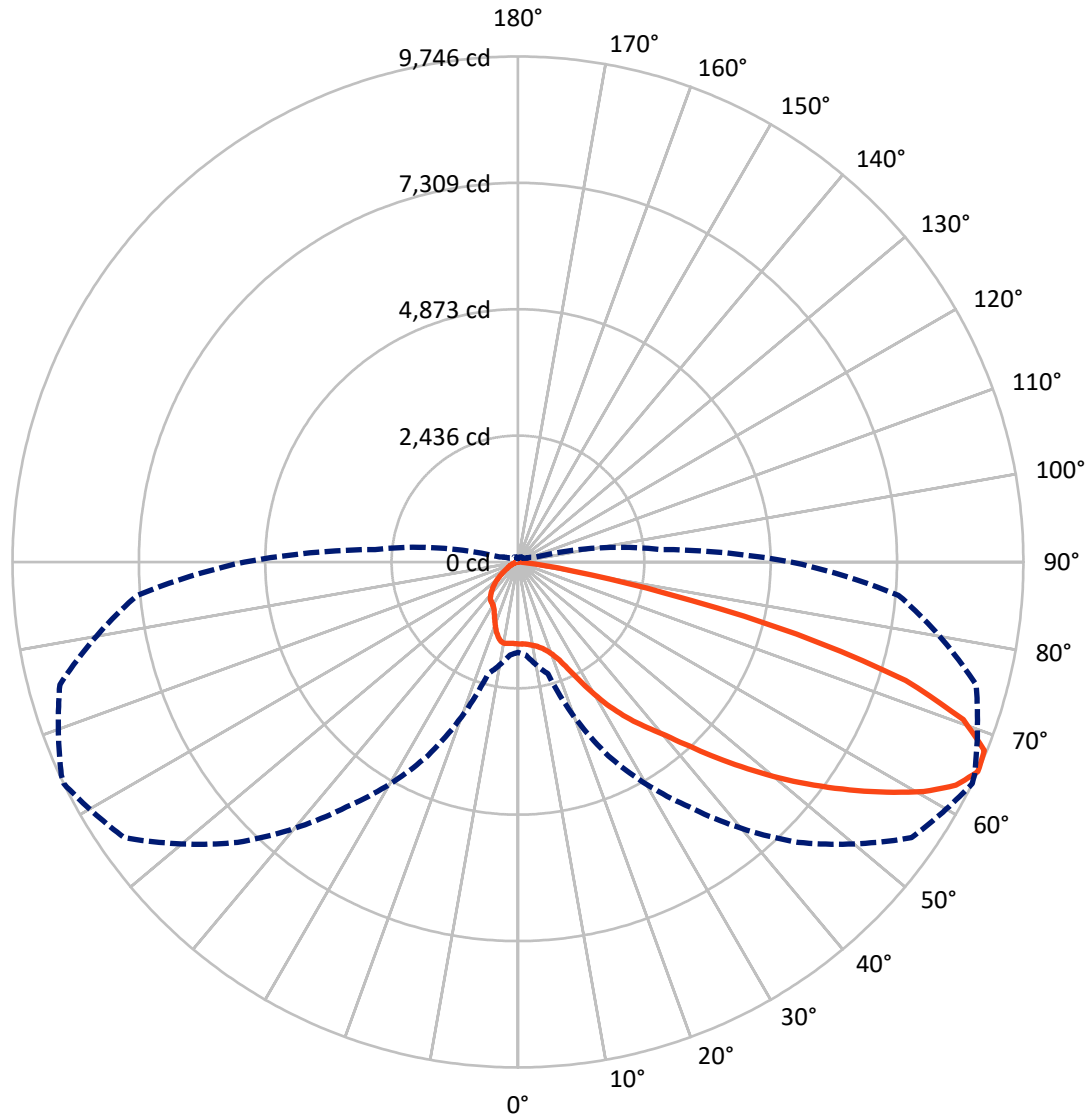
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	1815.9	0.0	1815.9
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	11763.1	0.0	11763.1
	% Fixture	86.6	0.0	86.6
Total	Lumens	13579.0	0.0	13579.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.7	1.1
10°-20°	395.2	2.9
20°-30°	748.9	5.5
30°-40°	1515.4	11.2
40°-50°	2581.5	19.0
50°-60°	3510.7	25.9
60°-70°	3296.7	24.3
70°-80°	1320.8	9.7
80°-90°	64.0	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°	13579.0	100.0
0°-180°	13579.0	100.0

Coefficient of Utilization



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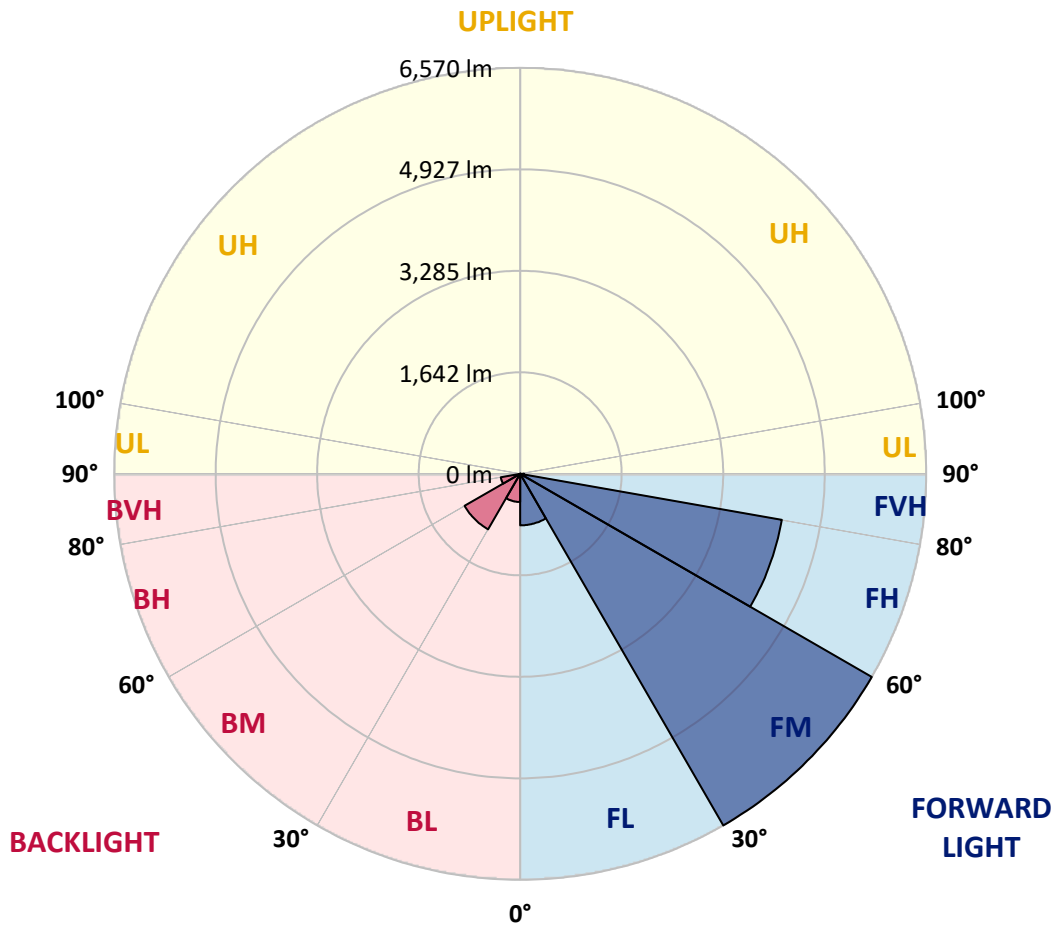
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	833.9	6.1			
FM (30°-60°)	6569.5	48.4			
FH (60°-80°)	4298.8	31.7			G2/5000
FVH (80°-90°)	60.9	0.4			G1/100
BL (0°-30°)	455.9	3.4	B1/500		
BM (30°-60°)	1038.2	7.6	B2/2500		
BH (60°-80°)	318.7	2.3	B1/500		G1/500
BVH (80°-90°)	3.1	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-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	1579.4	1579.4	1579.4	1579.4	1579.4	1579.4	1579.4	1579.4	1579.4	1579.4
2.5°	1573.9	1584.8	1582.1	1579.4	1578.5	1580.3	1581.2	1580.3	1580.3	1580.3
5°	1543.9	1553.0	1553.0	1559.4	1568.5	1579.4	1587.6	1589.4	1591.2	1593.9
7.5°	1486.5	1493.8	1499.3	1520.2	1543.0	1572.1	1596.7	1609.4	1611.2	1621.3
10°	1447.4	1456.5	1465.6	1487.4	1520.2	1563.9	1605.8	1636.7	1641.3	1664.9
12.5°	1445.6	1454.7	1466.5	1490.2	1528.4	1574.8	1625.8	1670.4	1678.6	1713.2
15°	1464.7	1475.6	1486.5	1515.7	1556.6	1613.1	1667.7	1723.2	1731.4	1780.6
17.5°	1503.8	1518.4	1526.6	1555.7	1599.4	1662.2	1734.1	1797.9	1805.1	1862.5
20°	1581.2	1598.5	1601.2	1624.9	1667.7	1735.0	1820.6	1899.8	1908.9	1974.5
22.5°	1741.4	1766.0	1744.1	1756.0	1794.2	1861.6	1954.4	2054.6	2067.3	2141.9
25°	2023.6	2058.2	2001.8	1981.7	1998.1	2068.2	2184.7	2311.3	2325.8	2385.9
27.5°	2578.0	2533.4	2447.8	2364.1	2314.9	2355.0	2486.0	2642.6	2660.8	2719.1
30°	3187.0	3147.8	3032.2	2846.5	2730.0	2723.6	2844.7	3019.5	3040.4	3095.9
32.5°	3796.9	3759.6	3633.9	3405.4	3203.4	3103.2	3187.0	3380.9	3391.8	3427.3
35°	4396.8	4358.5	4232.9	3999.0	3750.5	3522.9	3506.5	3725.0	3728.6	3765.9
37.5°	5000.3	4968.4	4834.6	4605.2	4360.4	4046.3	3894.3	4050.9	4055.4	4091.8
40°	5430.9	5444.5	5352.6	5175.1	4964.8	4621.6	4329.4	4397.7	4370.4	4431.4
42.5°	5800.5	5827.8	5747.7	5658.5	5536.5	5234.3	4868.3	4856.5	4812.8	4845.6
45°	6120.0	6142.7	6070.8	6049.9	6047.2	5835.1	5457.3	5386.3	5325.3	5318.9
47.5°	6237.4	6281.1	6312.1	6382.1	6518.7	6429.5	6066.3	5956.1	5887.9	5837.8
50°	6282.0	6328.4	6434.0	6637.9	6961.1	6999.3	6672.5	6548.7	6465.0	6374.0
52.5°	6221.9	6304.8	6446.8	6790.0	7258.8	7456.3	7254.2	7145.9	7050.3	6901.9
55°	5867.8	5950.7	6241.0	6788.1	7407.1	7776.7	7804.0	7755.8	7648.4	7414.4
57.5°	5121.4	5244.3	5704.0	6556.9	7404.4	8052.6	8342.9	8377.5	8257.4	7922.4
60°	4087.3	4253.9	4814.6	6044.4	7175.9	8201.8	8815.4	8988.3	8860.9	8423.0
62.5°	2852.0	3045.0	3575.7	5241.5	6653.4	8094.4	9160.4	9479.9	9383.4	8870.9
65°	1739.6	1801.5	2229.3	4124.6	5765.0	7644.7	9266.9	9745.7	9713.9	9144.9
67.5°	1158.8	1210.7	1333.6	2828.3	4475.1	6746.3	9012.0	9699.3	9708.4	9100.3
70°	698.2	742.8	822.9	1644.9	2900.2	5339.8	8222.8	9107.6	9160.4	8504.1
72.5°	287.7	317.7	390.5	745.5	1502.0	3389.1	6547.8	7819.5	7942.4	7150.4
75°	162.9	178.4	229.4	374.1	651.8	1579.4	3966.2	5551.0	5732.2	4928.4
77.5°	108.3	115.6	148.4	242.1	366.9	538.9	1695.0	2892.0	3238.0	2691.8
80°	72.8	79.2	102.0	162.0	238.5	231.2	539.8	1071.4	1318.1	924.9
82.5°	49.2	50.1	72.8	106.5	151.1	112.0	159.3	333.2	418.7	267.6
85°	28.2	27.3	53.7	61.9	67.4	46.4	48.2	100.1	131.1	112.9
87.5°	3.6	5.5	20.9	16.4	9.1	10.0	10.0	17.3	25.5	27.3
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°
1579.4	0°	1579.4	1579.4	1579.4	1579.4	1579.4	1579.4	1579.4	1579.4	1579.4	1579.4
1581.2	2.5°	1581.2	1580.3	1577.6	1574.8	1568.5	1564.8	1566.6	1564.8	1563.9	1564.8
1593.0	5°	1593.0	1590.3	1583.0	1573.9	1561.2	1545.7	1535.7	1521.1	1507.5	1499.3
1624.9	7.5°	1624.9	1622.2	1612.1	1586.7	1545.7	1481.1	1421.9	1370.0	1330.9	1308.1
1675.9	10°	1675.9	1671.3	1655.8	1599.4	1492.0	1350.9	1233.5	1136.1	1072.3	1042.3
1736.0	12.5°	1736.0	1730.5	1703.2	1587.6	1390.0	1169.7	1007.7	899.4	840.2	813.8
1805.1	15°	1807.0	1799.7	1746.0	1531.1	1241.7	969.5	821.1	740.1	701.8	678.2
1893.4	17.5°	1895.3	1882.5	1777.8	1446.5	1080.5	816.5	706.4	645.4	611.7	589.0
2009.0	20°	2010.0	1989.0	1803.3	1345.4	932.2	720.1	629.0	578.0	552.6	532.5
2172.9	22.5°	2170.2	2140.1	1834.3	1236.2	827.5	653.6	571.7	534.3	513.4	490.7
2401.4	25°	2368.6	2333.1	1872.5	1135.1	755.6	596.2	529.8	498.8	474.3	447.9
2700.9	27.5°	2646.3	2582.5	1918.0	1052.3	693.7	547.1	491.6	457.0	428.8	406.9
3040.4	30°	2955.8	2851.1	1958.1	1002.2	637.2	501.6	441.5	406.9	380.5	365.0
3345.4	32.5°	3248.9	3106.9	1984.5	980.4	586.2	449.7	386.9	349.6	329.5	325.0
3643.9	35°	3525.6	3338.1	1981.7	959.5	540.7	397.8	333.2	294.9	279.5	282.2
3965.3	37.5°	3844.2	3584.8	1962.6	926.7	503.4	350.5	286.7	253.1	239.4	240.3
4355.8	40°	4214.7	3869.7	1950.8	864.8	462.4	306.8	248.5	221.2	211.2	207.5
4767.3	42.5°	4609.8	4145.5	1952.6	794.7	411.5	267.6	222.1	199.4	190.3	187.5
5225.1	45°	5006.7	4408.6	1955.3	721.9	357.7	237.6	203.0	183.9	178.4	174.8
5689.4	47.5°	5379.9	4632.5	1904.4	643.6	305.0	214.8	187.5	174.8	170.2	165.7
6155.5	50°	5727.6	4781.8	1781.5	552.6	263.1	196.6	175.7	166.6	162.0	157.5
6577.9	52.5°	5998.0	4805.5	1578.5	458.8	233.9	183.0	168.4	160.2	154.8	150.2
6919.2	55°	6118.2	4657.1	1289.9	371.4	211.2	171.1	161.1	152.9	146.6	142.0
7187.8	57.5°	6087.2	4344.9	1005.9	298.6	189.3	159.3	152.0	146.6	139.3	132.0
7405.3	60°	5935.2	3927.1	758.3	248.5	169.3	146.6	142.0	137.5	127.4	116.5
7489.1	62.5°	5672.1	3401.8	540.7	205.7	147.5	132.0	130.2	126.5	112.0	91.9
7365.3	65°	5269.8	2763.7	364.1	171.1	126.5	115.6	116.5	110.1	91.0	68.3
6911.9	67.5°	4681.7	2020.9	233.0	140.2	105.6	96.5	97.4	93.8	77.4	58.3
6052.6	70°	3932.5	1338.1	152.0	106.5	84.7	74.6	80.1	81.0	65.5	47.3
4645.3	72.5°	2882.9	790.1	106.5	79.2	61.9	51.9	65.5	67.4	52.8	35.5
2794.6	75°	1643.1	375.0	80.1	57.3	38.2	36.4	51.0	51.0	36.4	23.7
1209.8	77.5°	690.0	156.6	56.4	37.3	21.8	20.9	34.6	31.9	18.2	10.9
294.9	80°	199.4	70.1	30.0	18.2	9.1	8.2	13.7	10.0	4.6	1.8
112.0	82.5°	78.3	31.0	11.8	7.3	3.6	3.6	1.8	0.0	0.0	0.0
63.7	85°	46.4	12.7	5.5	2.7	0.9	0.0	0.0	0.0	0.0	0.0
13.7	87.5°	11.8	2.7	1.8	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°
1579.4
1568.5
1501.1
1309.0
1039.6
811.1
679.1
587.1
528.9
487.0
445.1
402.4
362.3
327.7
282.2
244.0
206.6
186.6
174.8
165.7
157.5
149.3
141.1
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