

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: P940706

Luminaire Tested: **GALN-SB3D-927-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940706
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-SB3D-927-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 2700K, 900mA 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: 14575 lumens
Efficiency: N/A
Efficacy: 66.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

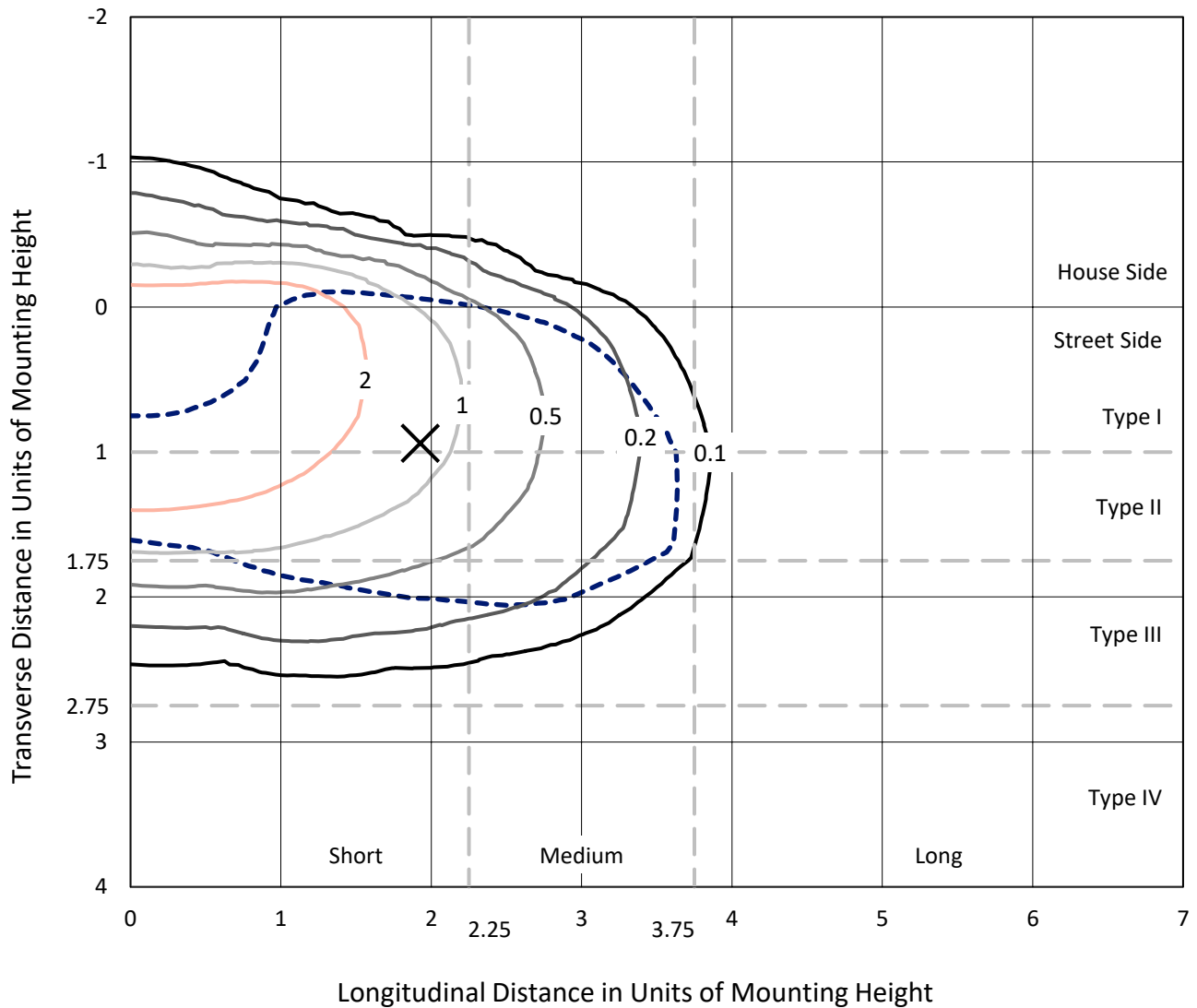
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

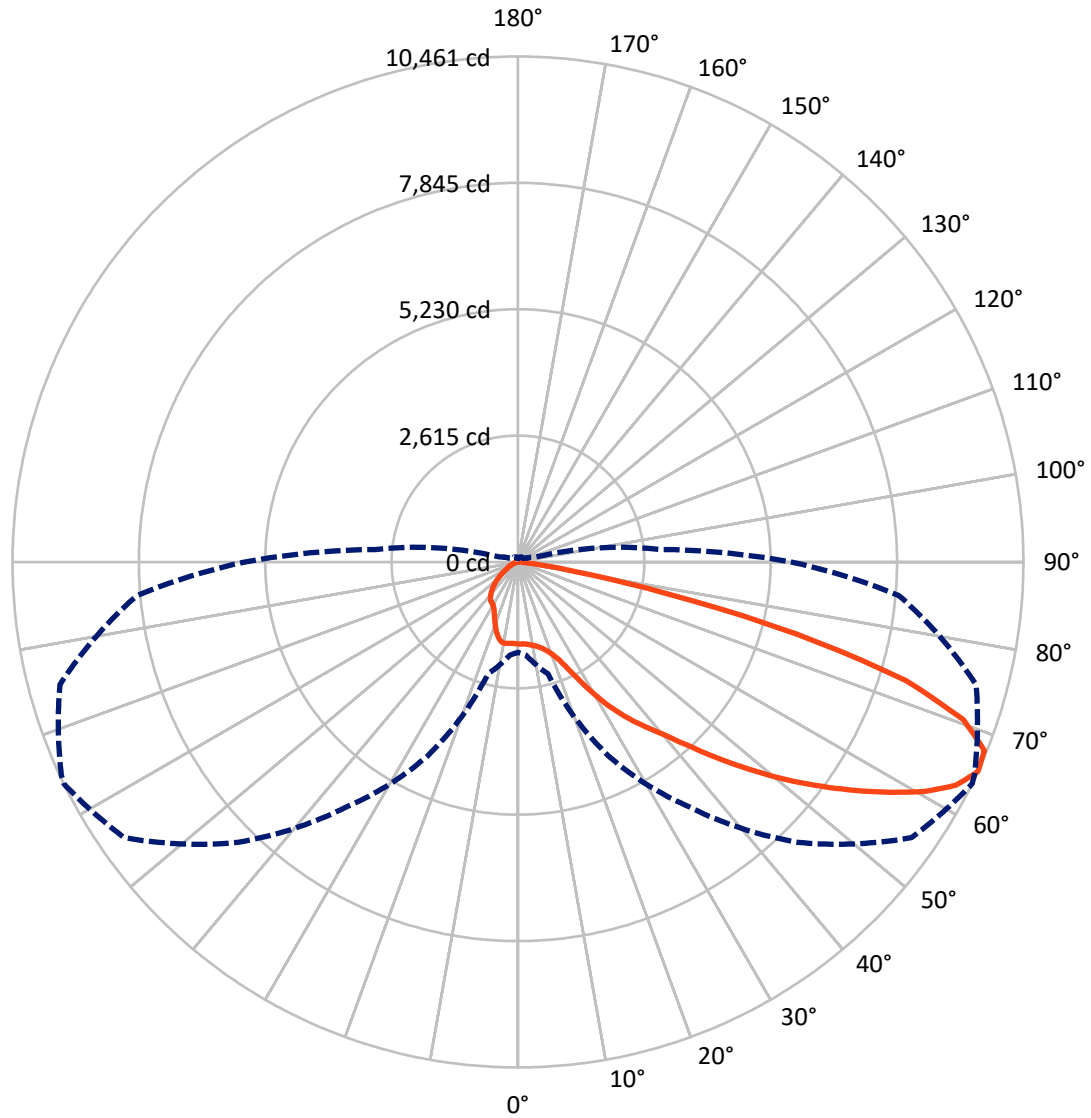
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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	1949.1	0.0	1949.1
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	12625.9	0.0	12625.9
	% Fixture	86.6	0.0	86.6
Total	Lumens	14575.0	0.0	14575.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.4	1.1
10°-20°	424.2	2.9
20°-30°	803.8	5.5
30°-40°	1626.6	11.2
40°-50°	2770.9	19.0
50°-60°	3768.2	25.9
60°-70°	3538.5	24.3
70°-80°	1417.7	9.7
80°-90°	68.7	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°	14575.0	100.0
0°-180°	14575.0	100.0

Coefficient of Utilization



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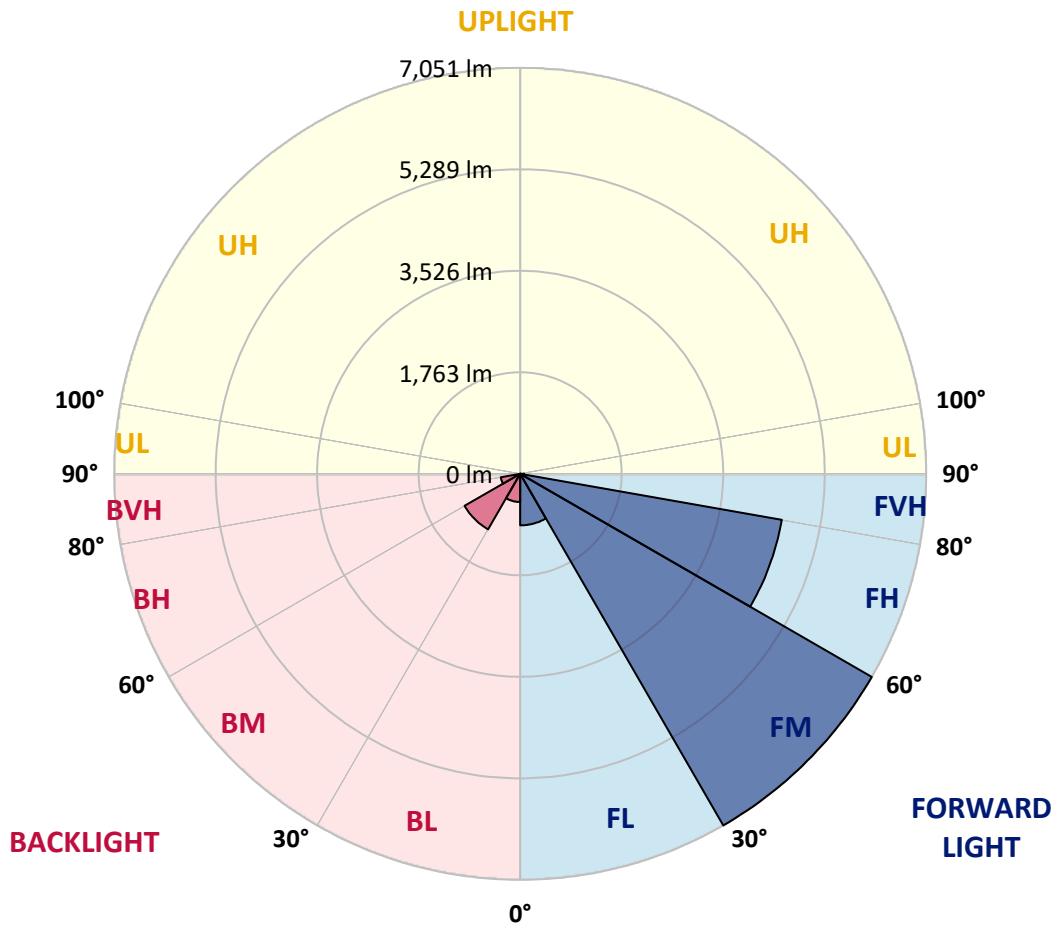
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	895.1	6.1			
FM (30°-60°)	7051.4	48.4			
FH (60°-80°)	4614.1	31.7			G2/5000
FVH (80°-90°)	65.3	0.4			G1/100
BL (0°-30°)	489.4	3.4	B1/500		
BM (30°-60°)	1114.3	7.6	B2/2500		
BH (60°-80°)	342.1	2.3	B1/500		G1/500
BVH (80°-90°)	3.4	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°	1695.2	1695.2	1695.2	1695.2	1695.2	1695.2	1695.2	1695.2	1695.2	1695.2
2.5°	1689.4	1701.1	1698.2	1695.2	1694.2	1696.2	1697.2	1696.2	1696.2	1696.2
5°	1657.1	1666.9	1666.9	1673.7	1683.5	1695.2	1704.0	1706.0	1707.9	1710.9
7.5°	1595.6	1603.4	1609.2	1631.7	1656.1	1687.4	1713.8	1727.5	1729.4	1740.2
10°	1553.5	1563.3	1573.1	1596.5	1631.7	1678.6	1723.6	1756.8	1761.7	1787.1
12.5°	1551.6	1561.4	1574.1	1599.5	1640.5	1690.3	1745.1	1792.9	1801.7	1838.9
15°	1572.1	1583.8	1595.6	1626.8	1670.8	1731.4	1790.0	1849.6	1858.4	1911.2
17.5°	1614.1	1629.8	1638.6	1669.8	1716.7	1784.1	1861.3	1929.7	1937.5	1999.1
20°	1697.2	1715.7	1718.7	1744.1	1790.0	1862.3	1954.1	2039.2	2048.9	2119.3
22.5°	1869.1	1895.5	1872.1	1884.8	1925.8	1998.1	2097.8	2205.3	2218.9	2299.1
25°	2172.0	2209.2	2148.6	2127.1	2144.7	2219.9	2345.0	2480.8	2496.4	2560.9
27.5°	2767.1	2719.2	2627.4	2537.5	2484.7	2527.7	2668.4	2836.4	2856.0	2918.5
30°	3420.7	3378.7	3254.6	3055.3	2930.2	2923.4	3053.4	3241.0	3263.4	3323.0
32.5°	4075.4	4035.3	3900.5	3655.2	3438.3	3330.8	3420.7	3628.9	3640.6	3678.7
35°	4719.3	4678.2	4543.4	4292.3	4025.5	3781.3	3763.7	3998.2	4002.1	4042.2
37.5°	5367.1	5332.9	5189.2	4943.0	4680.2	4343.1	4179.9	4348.0	4352.9	4391.9
40°	5829.2	5843.9	5745.2	5554.7	5329.0	4960.6	4647.0	4720.2	4690.9	4756.4
42.5°	6225.9	6255.2	6169.2	6073.5	5942.6	5618.2	5225.4	5212.7	5165.8	5201.0
45°	6568.9	6593.3	6516.1	6493.6	6490.7	6263.0	5857.6	5781.3	5715.9	5709.0
47.5°	6694.9	6741.8	6775.0	6850.3	6996.8	6901.1	6511.2	6393.0	6319.7	6266.0
50°	6742.8	6792.6	6906.0	7124.8	7471.7	7512.7	7162.0	7029.1	6939.2	6841.5
52.5°	6678.3	6767.2	6919.6	7288.0	7791.2	8003.2	7786.3	7670.0	7567.4	7408.2
55°	6298.2	6387.1	6698.8	7286.0	7950.5	8347.1	8376.5	8324.7	8209.4	7958.3
57.5°	5497.0	5628.9	6122.3	7037.9	7947.5	8643.2	8954.9	8992.0	8863.0	8503.5
60°	4387.1	4565.9	5167.7	6487.8	7702.3	8803.4	9462.0	9647.6	9510.8	9040.9
62.5°	3061.2	3268.3	3837.9	5626.0	7141.4	8688.1	9832.3	10175.3	10071.7	9521.6
65°	1867.2	1933.6	2392.9	4427.1	6187.8	8205.5	9946.6	10460.6	10426.4	9815.7
67.5°	1243.8	1299.5	1431.4	3035.8	4803.3	7241.1	9673.0	10410.7	10420.5	9767.8
70°	749.4	797.3	883.3	1765.6	3113.0	5731.5	8825.9	9775.6	9832.3	9127.8
72.5°	308.8	341.0	419.2	800.2	1612.2	3637.6	7028.1	8393.1	8525.0	7674.9
75°	174.9	191.5	246.2	401.6	699.6	1695.2	4257.1	5958.2	6152.6	5289.9
77.5°	116.3	124.1	159.3	259.9	393.8	578.4	1819.3	3104.2	3475.5	2889.2
80°	78.2	85.0	109.4	173.9	256.0	248.2	579.4	1150.0	1414.8	992.7
82.5°	52.8	53.7	78.2	114.3	162.2	120.2	171.0	357.6	449.5	287.3
85°	30.3	29.3	57.6	66.4	72.3	49.8	51.8	107.5	140.7	121.2
87.5°	3.9	5.9	22.5	17.6	9.8	10.7	10.7	18.6	27.4	29.3
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°
1695.2	0°	1695.2	1695.2	1695.2	1695.2	1695.2	1695.2	1695.2	1695.2	1695.2	1695.2
1697.2	2.5°	1697.2	1696.2	1693.3	1690.3	1683.5	1679.6	1681.5	1679.6	1678.6	1679.6
1709.9	5°	1709.9	1706.9	1699.1	1689.4	1675.7	1659.1	1648.3	1632.7	1618.0	1609.2
1744.1	7.5°	1744.1	1741.1	1730.4	1703.0	1659.1	1589.7	1526.2	1470.5	1428.5	1404.1
1798.8	10°	1798.8	1793.9	1777.3	1716.7	1601.4	1450.0	1323.9	1219.4	1151.0	1118.8
1863.3	12.5°	1863.3	1857.4	1828.1	1704.0	1492.0	1255.5	1081.6	965.3	901.8	873.5
1937.5	15°	1939.5	1931.7	1874.0	1643.4	1332.7	1040.6	881.3	794.4	753.3	727.9
2032.3	17.5°	2034.3	2020.6	1908.2	1552.6	1159.8	876.4	758.2	692.7	656.6	632.2
2156.4	20°	2157.4	2134.9	1935.6	1444.1	1000.5	772.9	675.2	620.4	593.1	571.6
2332.3	22.5°	2329.3	2297.1	1968.8	1326.9	888.2	701.5	613.6	573.5	551.1	526.6
2577.5	25°	2542.3	2504.2	2009.8	1218.4	811.0	640.0	568.7	535.4	509.1	480.7
2899.0	27.5°	2840.4	2772.0	2058.7	1129.5	744.5	587.2	527.6	490.5	460.2	436.8
3263.4	30°	3172.6	3060.2	2101.7	1075.8	684.0	538.4	473.9	436.8	408.4	391.8
3590.7	32.5°	3487.2	3334.8	2130.0	1052.3	629.2	482.7	415.3	375.2	353.7	348.8
3911.2	35°	3784.2	3582.9	2127.1	1029.8	580.4	427.0	357.6	316.6	300.0	302.9
4256.1	37.5°	4126.2	3847.7	2106.6	994.7	540.3	376.2	307.8	271.6	257.0	257.9
4675.3	40°	4523.9	4153.5	2093.9	928.2	496.4	329.3	266.7	237.4	226.7	222.8
5116.9	42.5°	4947.9	4449.6	2095.8	853.0	441.6	287.3	238.4	214.0	204.2	201.3
5608.4	45°	5373.9	4732.0	2098.8	774.8	384.0	255.0	217.9	197.4	191.5	187.6
6106.7	47.5°	5774.5	4972.3	2044.0	690.8	327.3	230.6	201.3	187.6	182.7	177.8
6607.0	50°	6147.8	5132.6	1912.1	593.1	282.4	211.0	188.6	178.8	173.9	169.0
7060.3	52.5°	6437.9	5158.0	1694.2	492.4	251.1	196.4	180.8	172.0	166.1	161.2
7426.7	55°	6566.9	4998.7	1384.5	398.6	226.7	183.7	172.9	164.1	157.3	152.4
7715.0	57.5°	6533.7	4663.6	1079.7	320.5	203.2	171.0	163.2	157.3	149.5	141.7
7948.5	60°	6370.5	4215.1	813.9	266.7	181.7	157.3	152.4	147.5	136.8	125.1
8038.4	62.5°	6088.1	3651.3	580.4	220.8	158.3	141.7	139.7	135.8	120.2	98.7
7905.5	65°	5656.3	2966.4	390.8	183.7	135.8	124.1	125.1	118.2	97.7	73.3
7418.9	67.5°	5025.1	2169.1	250.1	150.5	113.3	103.6	104.5	100.6	83.1	62.5
6496.6	70°	4221.0	1436.3	163.2	114.3	90.9	80.1	86.0	87.0	70.3	50.8
4986.0	72.5°	3094.4	848.1	114.3	85.0	66.4	55.7	70.3	72.3	56.7	38.1
2999.6	75°	1763.6	402.6	86.0	61.6	41.0	39.1	54.7	54.7	39.1	25.4
1298.5	77.5°	740.6	168.1	60.6	40.1	23.4	22.5	37.1	34.2	19.5	11.7
316.6	80°	214.0	75.2	32.2	19.5	9.8	8.8	14.7	10.7	4.9	2.0
120.2	82.5°	84.0	33.2	12.7	7.8	3.9	3.9	2.0	0.0	0.0	0.0
68.4	85°	49.8	13.7	5.9	2.9	1.0	0.0	0.0	0.0	0.0	0.0
14.7	87.5°	12.7	2.9	2.0	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°
1695.2
1683.5
1611.2
1405.0
1115.8
870.6
728.9
630.2
567.7
522.7
477.8
431.9
388.9
351.7
302.9
261.9
221.8
200.3
187.6
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169.0
160.2
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