

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: STREETWORKS

Report Number: P846997

Luminaire Tested: **GLAN-SB2D-850-U-T3-HSS**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P846997
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB2D-850-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 5000K, 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: 13704 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

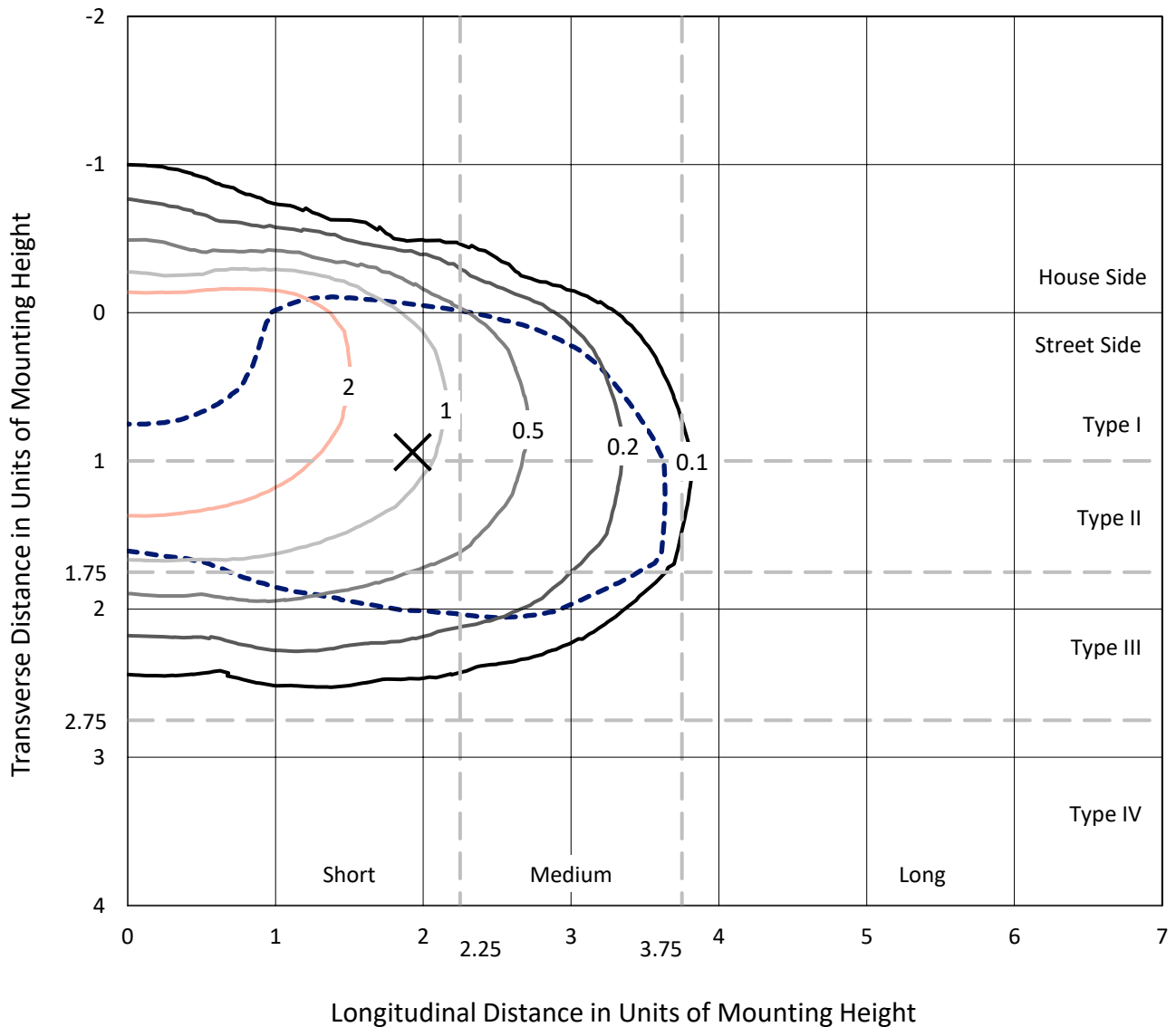
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

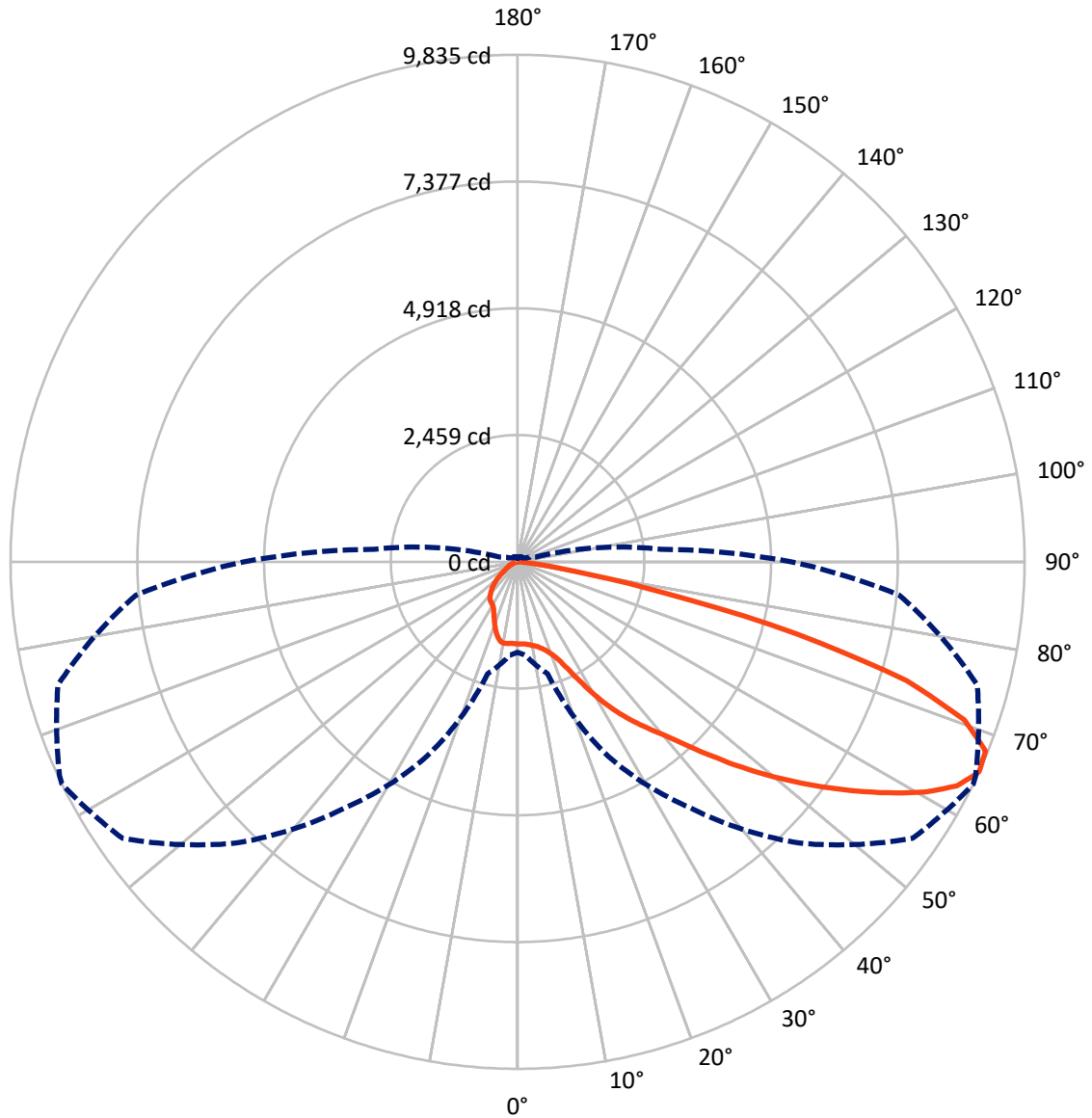
✕ Max cd
 - - - 1/2 Max cd



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	1832.6	0.0	1832.6
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	11871.4	0.0	11871.4
	% Fixture	86.6	0.0	86.6
Total	Lumens	13704.0	0.0	13704.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.1	1.1
10°-20°	398.9	2.9
20°-30°	755.8	5.5
30°-40°	1529.4	11.2
40°-50°	2605.3	19.0
50°-60°	3543.0	25.9
60°-70°	3327.1	24.3
70°-80°	1333.0	9.7
80°-90°	64.6	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°	13704.0	100.0
0°-180°	13704.0	100.0

Coefficient of Utilization



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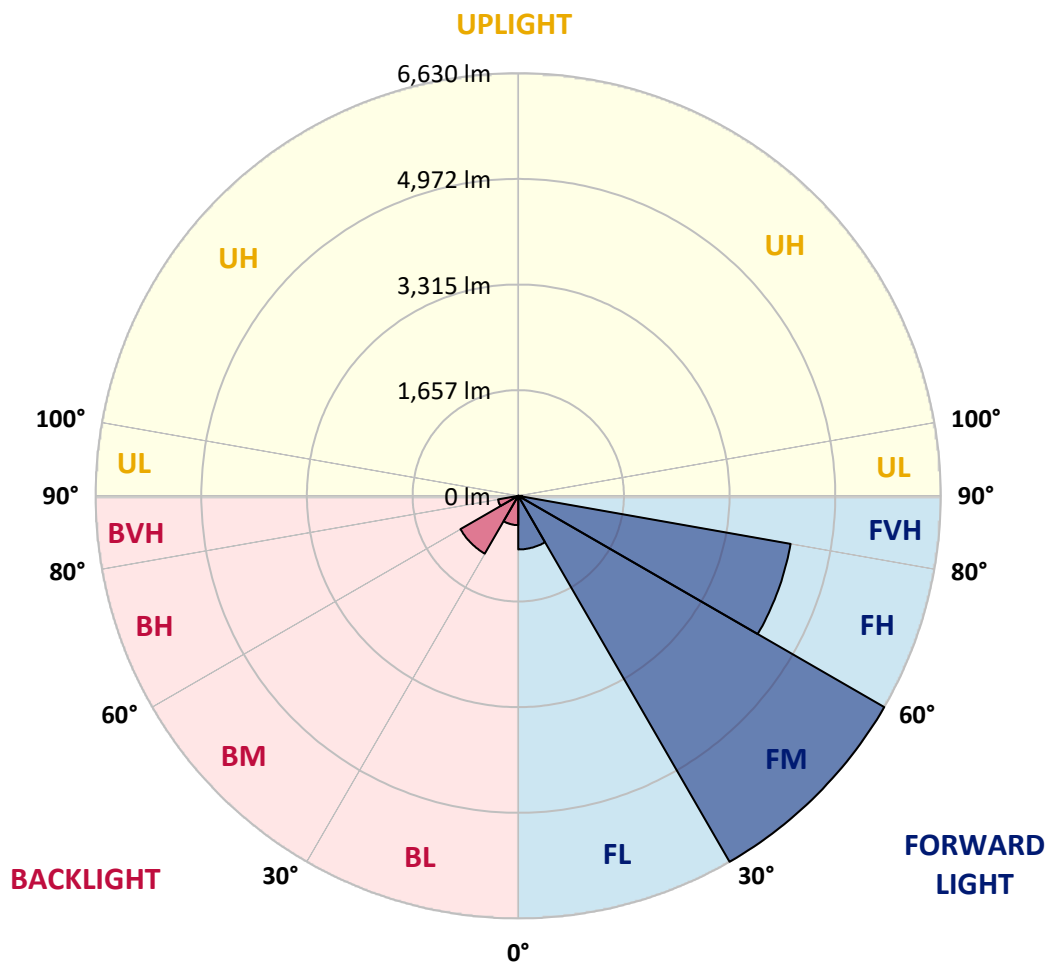
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	841.6	6.1			
FM (30°-60°)	6630.0	48.4			
FH (60°-80°)	4338.4	31.7			G2/5000
FVH (80°-90°)	61.4	0.4			G1/100
BL (0°-30°)	460.1	3.4	B1/500		
BM (30°-60°)	1047.7	7.6	B2/2500		
BH (60°-80°)	321.7	2.3	B1/500		G1/500
BVH (80°-90°)	3.2	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-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	1593.9	1593.9	1593.9	1593.9	1593.9	1593.9	1593.9	1593.9	1593.9	1593.9
2.5°	1588.4	1599.4	1596.7	1593.9	1593.0	1594.8	1595.8	1594.8	1594.8	1594.8
5°	1558.1	1567.3	1567.3	1573.7	1582.9	1593.9	1602.2	1604.0	1605.9	1608.6
7.5°	1500.2	1507.6	1513.1	1534.2	1557.2	1586.6	1611.4	1624.2	1626.1	1636.2
10°	1460.7	1469.9	1479.1	1501.1	1534.2	1578.3	1620.6	1651.8	1656.4	1680.3
12.5°	1458.9	1468.1	1480.0	1503.9	1542.5	1589.3	1640.8	1685.8	1694.1	1729.0
15°	1478.2	1489.2	1500.2	1529.6	1571.0	1627.9	1683.0	1739.1	1747.3	1796.9
17.5°	1517.7	1532.4	1540.6	1570.0	1614.1	1677.5	1750.1	1814.4	1821.8	1879.6
20°	1595.8	1613.2	1616.0	1639.9	1683.0	1751.0	1837.4	1917.3	1926.5	1992.6
22.5°	1757.4	1782.2	1760.2	1772.1	1810.7	1878.7	1972.4	2073.5	2086.3	2161.7
25°	2042.2	2077.1	2020.2	2000.0	2016.5	2087.3	2204.8	2332.5	2347.2	2407.9
27.5°	2601.7	2556.7	2470.3	2385.8	2336.2	2376.6	2508.9	2666.9	2685.3	2744.1
30°	3216.3	3176.8	3060.1	2872.7	2755.1	2748.7	2870.9	3047.3	3068.4	3124.4
32.5°	3831.8	3794.2	3667.4	3436.8	3232.9	3131.8	3216.3	3412.0	3423.0	3458.8
35°	4437.2	4398.7	4271.9	4035.8	3785.0	3555.3	3538.8	3759.3	3762.9	3800.6
37.5°	5046.3	5014.2	4879.1	4647.6	4400.5	4083.6	3930.1	4088.1	4092.7	4129.5
40°	5480.9	5494.7	5401.9	5222.7	5010.5	4664.2	4369.3	4438.2	4410.6	4472.2
42.5°	5853.9	5881.4	5800.6	5710.5	5587.4	5282.4	4913.1	4901.2	4857.1	4890.2
45°	6176.3	6199.3	6126.7	6105.6	6102.8	5888.8	5507.5	5435.9	5374.3	5367.9
47.5°	6294.8	6338.9	6370.2	6440.9	6578.7	6488.7	6122.1	6011.0	5942.1	5891.5
50°	6339.8	6386.7	6493.3	6699.0	7025.2	7063.8	6734.0	6609.0	6524.5	6432.6
52.5°	6279.2	6362.8	6506.1	6852.5	7325.6	7524.9	7321.0	7211.7	7115.2	6965.5
55°	5921.8	6005.4	6298.5	6850.6	7475.3	7848.3	7875.9	7827.2	7718.8	7482.7
57.5°	5168.5	5292.5	5756.5	6617.3	7472.6	8126.7	8419.7	8454.7	8333.4	7995.3
60°	4124.9	4293.0	4858.9	6100.1	7242.0	8277.3	8896.5	9071.1	8942.5	8500.6
62.5°	2878.2	3073.0	3608.6	5289.8	6714.7	8168.9	9244.7	9567.2	9469.8	8952.6
65°	1755.6	1818.1	2249.9	4162.6	5818.0	7715.1	9352.2	9835.4	9803.3	9229.1
67.5°	1169.5	1221.9	1345.9	2854.4	4516.3	6808.4	9095.0	9788.6	9797.8	9184.1
70°	704.6	749.6	830.5	1660.1	2926.9	5389.0	8298.5	9191.4	9244.7	8582.4
72.5°	290.3	320.6	394.1	752.4	1515.8	3420.3	6608.1	7891.5	8015.5	7216.3
75°	164.4	180.1	231.5	377.6	657.8	1593.9	4002.7	5602.1	5785.0	4973.8
77.5°	109.3	116.7	149.7	244.4	370.2	543.9	1710.6	2918.7	3267.8	2716.5
80°	73.5	79.9	102.9	163.5	240.7	233.3	544.8	1081.3	1330.3	933.4
82.5°	49.6	50.5	73.5	107.5	152.5	113.0	160.8	336.2	422.6	270.1
85°	28.5	27.6	54.2	62.5	68.0	46.9	48.7	101.1	132.3	113.9
87.5°	3.7	5.5	21.1	16.5	9.2	10.1	10.1	17.5	25.7	27.6
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°
1593.9	0°	1593.9	1593.9	1593.9	1593.9	1593.9	1593.9	1593.9	1593.9	1593.9
1595.8	2.5°	1595.8	1594.8	1592.1	1589.3	1582.9	1579.2	1581.1	1579.2	1578.3
1607.7	5°	1607.7	1604.9	1597.6	1588.4	1575.5	1559.9	1549.8	1535.1	1521.3
1639.9	7.5°	1639.9	1637.1	1627.0	1601.3	1559.9	1494.7	1435.0	1382.6	1343.1
1691.3	10°	1691.3	1686.7	1671.1	1614.1	1505.7	1363.3	1244.8	1146.5	1082.2
1751.9	12.5°	1751.9	1746.4	1718.9	1602.2	1402.8	1180.5	1017.0	907.7	847.9
1821.8	15°	1823.6	1816.2	1762.0	1545.2	1253.1	978.4	828.7	746.9	708.3
1910.9	17.5°	1912.7	1899.8	1794.2	1459.8	1090.5	824.1	712.9	651.3	617.4
2027.5	20°	2028.5	2007.3	1819.9	1357.8	940.7	726.7	634.8	583.4	557.6
2192.9	22.5°	2190.1	2159.8	1851.1	1247.6	835.1	659.6	576.9	539.3	518.1
2423.5	25°	2390.4	2354.6	1889.7	1145.6	762.5	601.7	534.7	503.4	478.6
2725.7	27.5°	2670.6	2606.3	1935.7	1062.0	700.0	552.1	496.1	461.2	432.7
3068.4	30°	2983.0	2877.3	1976.1	1011.5	643.1	506.2	445.6	410.7	384.0
3376.2	32.5°	3278.8	3135.5	2002.7	989.4	591.6	453.8	390.4	352.8	332.6
3677.5	35°	3558.1	3368.8	2000.0	968.3	545.7	401.5	336.2	297.7	282.0
4001.8	37.5°	3879.6	3617.8	1980.7	935.2	508.0	353.7	289.4	255.4	241.6
4395.9	40°	4253.5	3905.3	1968.7	872.8	466.7	309.6	250.8	223.2	213.1
4811.2	42.5°	4652.2	4183.7	1970.6	802.0	415.2	270.1	224.2	201.2	192.0
5273.2	45°	5052.8	4449.2	1973.3	728.5	361.0	239.8	204.9	185.6	180.1
5741.8	47.5°	5429.4	4675.2	1921.9	649.5	307.8	216.8	189.2	176.4	171.8
6212.1	50°	5780.4	4825.8	1797.9	557.6	265.5	198.4	177.3	168.1	163.5
6638.4	52.5°	6053.2	4849.7	1593.0	463.0	236.1	184.7	170.0	161.7	156.2
6982.9	55°	6174.5	4700.0	1301.8	374.8	213.1	172.7	162.6	154.3	147.9
7253.9	57.5°	6143.2	4384.9	1015.1	301.3	191.1	160.8	153.4	147.9	140.6
7473.5	60°	5989.8	3963.2	765.3	250.8	170.9	147.9	143.3	138.7	128.6
7558.0	62.5°	5724.3	3433.1	545.7	207.6	148.8	133.2	131.4	127.7	113.0
7433.1	65°	5318.3	2789.1	367.5	172.7	127.7	116.7	117.6	111.2	91.9
6975.6	67.5°	4724.8	2039.5	235.2	141.5	106.6	97.4	98.3	94.6	78.1
6108.3	70°	3968.7	1350.5	153.4	107.5	85.4	75.3	80.8	81.8	66.1
4688.0	72.5°	2909.5	797.4	107.5	79.9	62.5	52.4	66.1	68.0	53.3
2820.4	75°	1658.2	378.5	80.8	57.9	38.6	36.7	51.4	51.4	36.7
1220.9	77.5°	696.4	158.0	57.0	37.7	22.0	21.1	34.9	32.2	18.4
297.7	80°	201.2	70.7	30.3	18.4	9.2	8.3	13.8	10.1	4.6
113.0	82.5°	79.0	31.2	11.9	7.3	3.7	3.7	1.8	0.0	0.0
64.3	85°	46.9	12.9	5.5	2.8	0.9	0.0	0.0	0.0	0.0
13.8	87.5°	11.9	2.8	1.8	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

(END O

180°
1593.9
1582.9
1514.9
1321.1
1049.1
818.5
685.3
592.6
533.8
491.5
449.2
406.1
365.6
330.7
284.8
246.2
208.5
188.3
176.4
167.2
158.9
150.7
142.4
132.3
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67.1
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