

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: P846998

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

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P846998
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
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
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17485 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

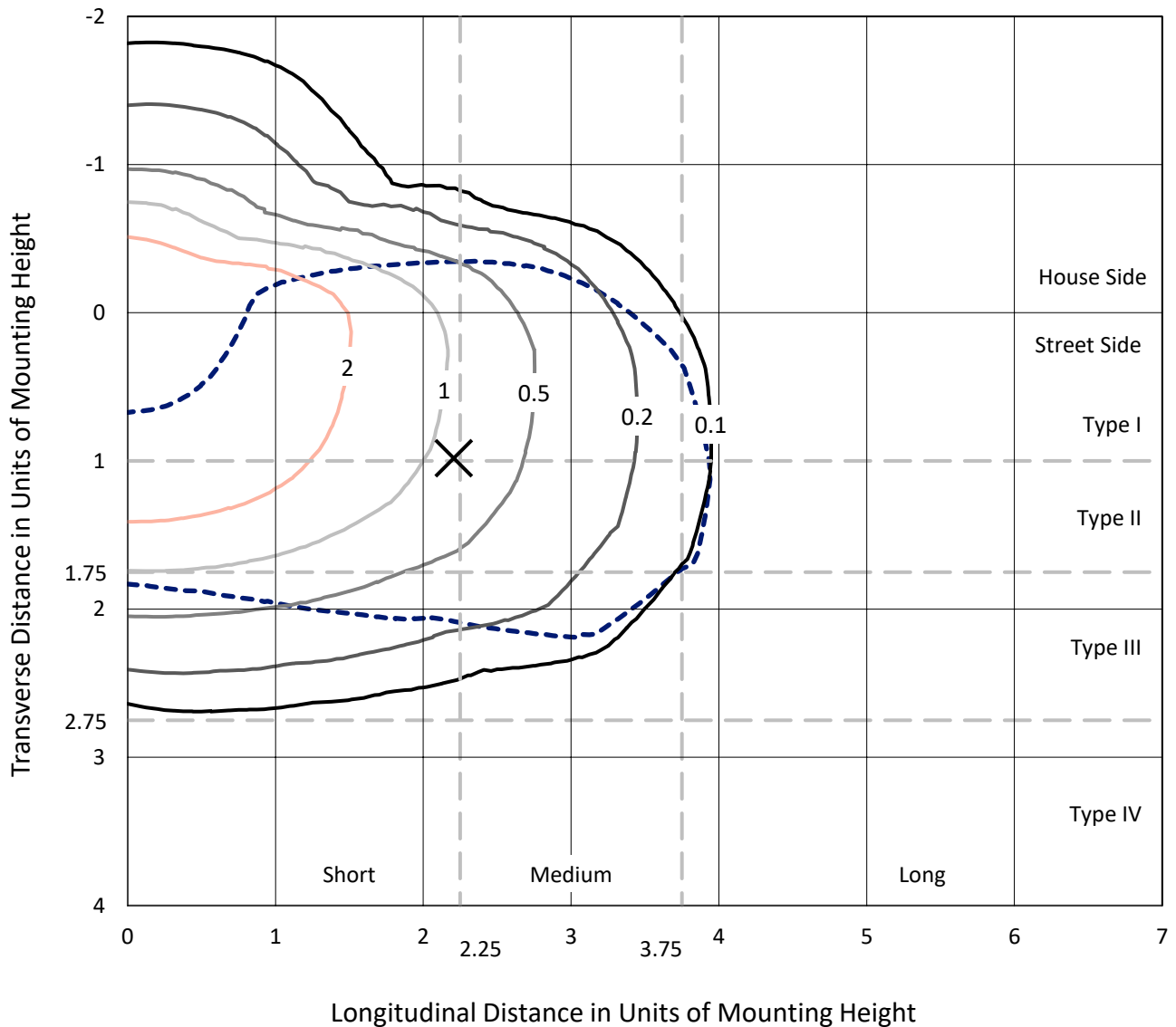
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

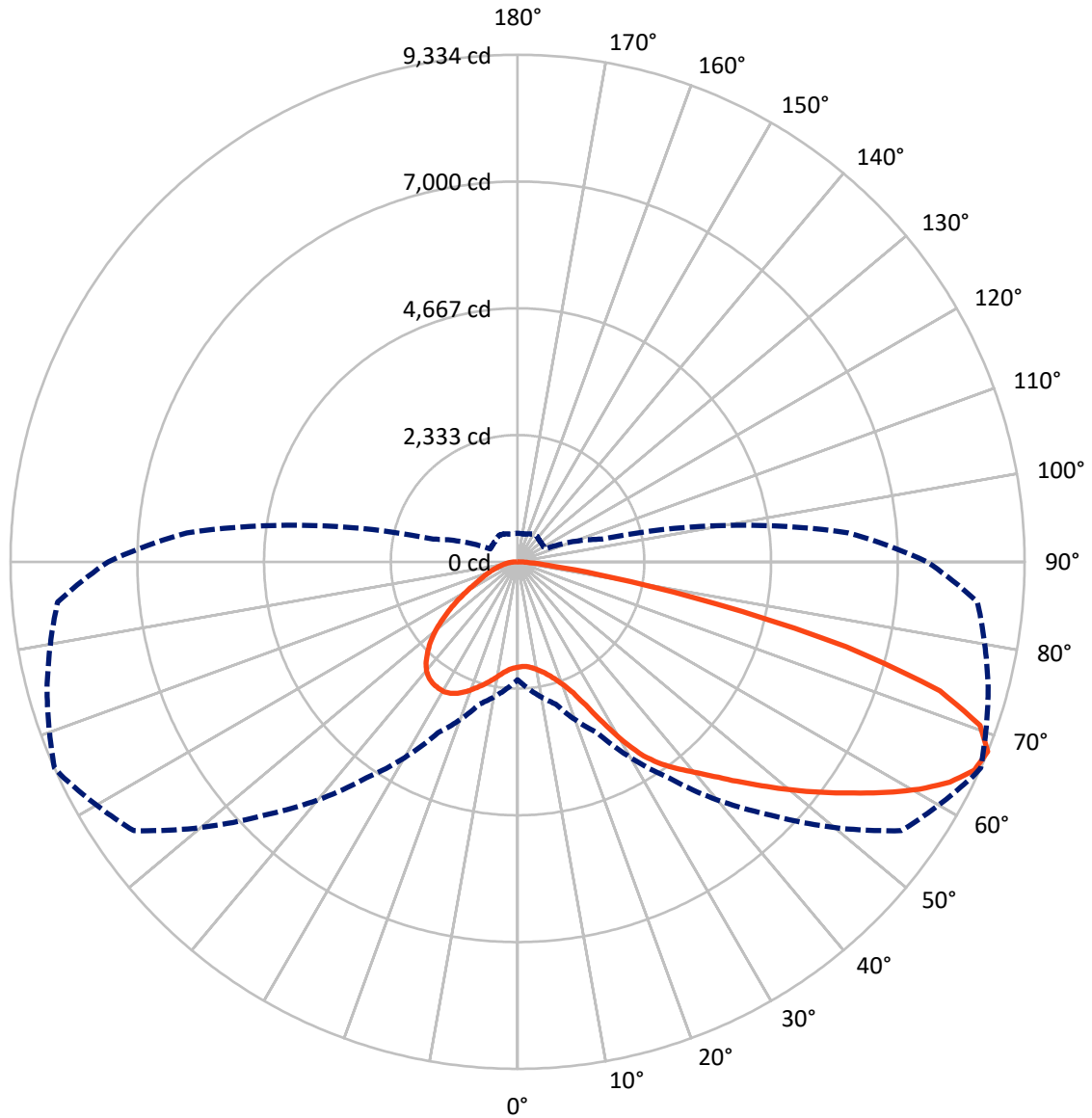
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4347.6	0.0	4347.6
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	13137.4	0.0	13137.4
	% Fixture	75.1	0.0	75.1
Total	Lumens	17485.0	0.0	17485.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.3	1.1
10°-20°	635.3	3.6
20°-30°	1224.4	7.0
30°-40°	2146.9	12.3
40°-50°	3191.7	18.3
50°-60°	4045.7	23.1
60°-70°	3958.7	22.6
70°-80°	1888.3	10.8
80°-90°	201.8	1.2
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°	17485.0	100.0
0°-180°	17485.0	100.0

Coefficient of Utilization



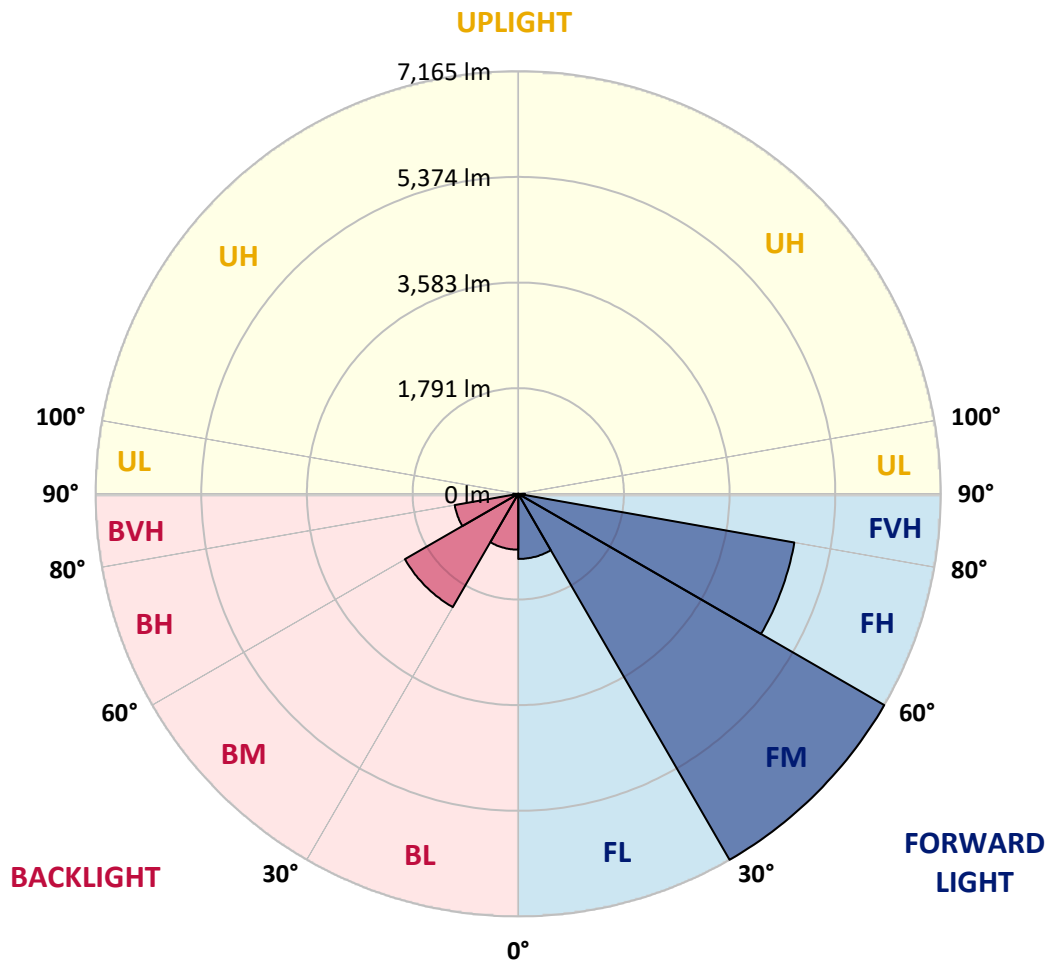
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1104.9	6.3			
FM (30°-60°)	7165.2	41.0			
FH (60°-80°)	4752.9	27.2			G2/5000
FVH (80°-90°)	114.4	0.7			G2/225
BL (0°-30°)	947.1	5.4	B2/1000		
BM (30°-60°)	2219.1	12.7	B2/2500		
BH (60°-80°)	1094.1	6.3	B3/2500		G3/2500
BVH (80°-90°)	87.4	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	1939.3	1939.3	1939.3	1939.3	1939.3	1939.3	1939.3	1939.3	1939.3	1939.3
2.5°	1919.1	1930.1	1927.4	1922.8	1921.9	1923.7	1926.5	1929.2	1928.3	1932.9
5°	1913.6	1924.6	1923.7	1923.7	1927.4	1934.7	1939.3	1943.9	1939.3	1944.8
7.5°	1917.3	1925.5	1929.2	1932.9	1942.1	1955.9	1966.9	1977.0	1971.5	1977.9
10°	1964.1	1970.6	1974.2	1974.2	1980.7	1996.3	2007.3	2025.7	2021.1	2031.2
12.5°	2049.6	2056.0	2056.0	2052.3	2056.9	2067.0	2070.7	2090.9	2082.6	2099.2
15°	2154.3	2167.1	2157.0	2150.6	2152.4	2162.6	2161.6	2177.3	2169.0	2182.8
17.5°	2270.0	2286.6	2270.0	2269.1	2265.4	2276.5	2277.4	2291.2	2276.5	2286.6
20°	2406.9	2429.9	2416.1	2420.7	2412.4	2417.0	2421.6	2441.8	2418.9	2426.2
22.5°	2599.8	2627.4	2612.7	2630.2	2624.6	2621.0	2620.1	2655.9	2620.1	2622.8
25°	2881.0	2914.0	2888.3	2912.2	2912.2	2924.1	2937.9	2983.8	2924.1	2906.7
27.5°	3296.2	3329.3	3278.7	3293.4	3288.8	3318.2	3303.5	3417.5	3353.2	3324.7
30°	3796.0	3854.7	3759.2	3755.5	3750.9	3797.8	3818.9	3894.3	3829.0	3800.5
32.5°	4336.1	4397.7	4283.8	4250.7	4233.2	4261.7	4244.3	4304.9	4259.9	4215.8
35°	4907.5	4968.2	4859.8	4795.5	4725.7	4665.9	4603.5	4619.1	4576.8	4509.8
37.5°	5447.7	5558.9	5444.1	5375.2	5246.5	5129.9	4955.3	4882.7	4843.2	4781.7
40°	5998.0	6061.4	5974.1	5915.3	5775.7	5592.9	5313.6	5160.2	5106.9	5047.2
42.5°	6403.1	6463.8	6416.9	6376.5	6267.2	6055.0	5693.9	5501.9	5424.8	5357.7
45°	6724.7	6769.7	6740.3	6755.0	6708.1	6502.4	6088.0	5868.5	5788.6	5706.8
47.5°	6854.2	6902.0	6948.8	7036.1	7116.0	6964.5	6511.6	6265.3	6180.8	6097.2
50°	6839.5	6888.2	7024.2	7209.7	7457.8	7407.3	6958.0	6687.9	6609.8	6514.3
52.5°	6721.9	6777.0	6951.6	7260.3	7655.3	7738.9	7412.8	7124.3	7050.8	6936.9
55°	6413.3	6446.3	6708.1	7145.4	7702.1	7970.4	7858.3	7589.2	7515.7	7356.7
57.5°	5840.9	5888.7	6269.9	6835.8	7584.6	8127.5	8249.7	8077.9	8007.1	7778.4
60°	5094.0	5170.3	5606.7	6315.9	7285.1	8126.6	8605.2	8558.4	8499.6	8193.6
62.5°	4248.9	4337.1	4756.9	5580.9	6761.4	7896.0	8827.5	8960.7	8930.4	8576.7
65°	3263.1	3323.8	3741.8	4630.1	5946.6	7400.8	8853.2	9235.4	9240.9	8867.9
67.5°	2172.7	2347.2	2710.1	3474.4	4855.2	6591.5	8627.3	9280.4	9333.7	8968.1
70°	1060.1	1289.8	1645.3	2258.1	3474.4	5350.3	8036.5	8911.1	9029.6	8675.9
72.5°	440.0	514.5	708.3	1114.3	1994.4	3610.4	6849.6	7909.8	8129.3	7687.5
75°	296.7	321.5	405.1	571.4	908.6	1780.4	4939.7	5897.9	6251.6	5806.0
77.5°	228.7	244.4	294.9	399.6	540.2	673.4	2643.9	3554.3	3737.2	3459.7
80°	180.1	192.0	220.5	291.2	383.1	360.1	901.2	1610.4	1716.1	1439.6
82.5°	156.2	160.8	158.0	197.5	254.5	210.4	295.8	594.4	655.9	475.9
85°	113.0	125.9	131.4	122.2	135.0	106.6	121.3	210.4	231.5	206.7
87.5°	45.9	68.0	83.6	79.0	49.6	30.3	37.7	61.6	70.7	77.2
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°
1939.3	0°	1939.3	1939.3	1939.3	1939.3	1939.3	1939.3	1939.3	1939.3	1939.3	1939.3
1940.2	2.5°	1941.2	1947.6	1952.2	1957.7	1961.4	1966.9	1977.9	1984.3	1985.3	1989.8
1954.9	5°	1958.6	1967.8	1977.9	1992.6	2009.1	2022.9	2044.0	2058.7	2064.3	2068.9
1990.8	7.5°	1996.3	2009.1	2027.5	2053.2	2077.1	2095.5	2121.2	2138.7	2156.1	2162.6
2047.7	10°	2052.3	2070.7	2097.3	2132.2	2158.0	2181.8	2208.5	2223.2	2240.6	2248.0
2115.7	12.5°	2122.1	2141.4	2176.3	2225.0	2248.9	2265.4	2274.6	2271.0	2274.6	2281.1
2197.5	15°	2202.1	2223.2	2262.7	2315.1	2331.6	2316.9	2296.7	2278.3	2275.6	2277.4
2296.7	17.5°	2296.7	2312.3	2358.2	2402.3	2390.4	2329.8	2285.7	2256.3	2241.6	2237.0
2423.5	20°	2429.0	2429.0	2466.6	2494.2	2414.3	2311.4	2242.5	2194.7	2164.4	2151.5
2596.2	22.5°	2589.7	2575.0	2598.9	2579.6	2409.7	2259.9	2164.4	2081.7	2035.8	2017.4
2837.8	25°	2793.7	2776.2	2769.8	2650.4	2376.6	2178.2	2022.9	1922.8	1882.4	1872.3
3186.0	27.5°	3101.4	3057.3	2973.7	2689.0	2316.0	2049.6	1857.6	1764.8	1741.8	1742.7
3633.3	30°	3511.2	3423.0	3218.1	2695.4	2216.8	1867.7	1688.5	1622.4	1611.4	1615.9
4009.1	32.5°	3890.6	3807.0	3468.0	2666.0	2064.3	1689.4	1536.9	1492.8	1476.3	1481.8
4295.7	35°	4188.2	4165.3	3699.5	2624.6	1876.8	1522.2	1401.0	1363.3	1331.2	1323.8
4565.8	37.5°	4469.3	4460.2	3873.1	2566.8	1691.3	1403.7	1291.7	1242.0	1195.2	1169.5
4864.4	40°	4778.0	4768.8	3987.0	2477.7	1526.8	1300.8	1193.4	1128.1	1070.3	1023.4
5202.4	42.5°	5125.3	5071.1	4041.2	2350.0	1387.2	1213.6	1113.4	1025.2	949.0	905.8
5584.6	45°	5504.7	5382.5	4040.3	2187.4	1269.6	1133.6	1028.0	903.1	832.3	791.9
5976.9	47.5°	5907.1	5680.2	3990.7	2007.3	1155.7	1045.4	895.7	800.2	753.3	728.5
6403.1	50°	6322.3	5958.5	3906.2	1800.6	1039.0	945.3	813.0	747.8	712.0	689.0
6825.7	52.5°	6712.7	6211.1	3804.2	1566.3	920.5	847.9	776.3	725.8	688.1	662.4
7235.5	55°	7075.6	6428.9	3660.0	1326.6	824.0	782.7	758.8	716.6	673.4	643.1
7651.6	57.5°	7398.1	6570.3	3411.0	1101.5	755.1	737.7	740.5	700.9	651.3	625.6
8061.4	60°	7666.3	6674.2	3042.6	892.9	699.1	693.6	712.0	671.5	613.7	584.3
8407.7	62.5°	7827.1	6672.3	2590.7	731.3	651.3	653.2	674.3	634.8	576.0	548.4
8588.7	65°	7813.3	6508.8	2094.6	625.6	605.4	607.2	634.8	594.4	544.8	528.2
8497.7	67.5°	7536.8	6110.1	1606.8	556.7	554.9	563.1	595.3	566.8	525.5	523.6
7955.7	70°	6788.1	5282.4	1157.5	501.6	502.5	514.5	556.7	549.4	515.4	519.0
6688.9	72.5°	5443.1	4027.5	777.2	443.7	444.6	463.9	520.0	535.6	505.3	554.0
4745.9	75°	3625.1	2511.7	499.8	382.2	383.1	407.9	487.8	508.9	477.7	552.1
2469.4	77.5°	1741.8	1129.0	362.0	321.5	321.5	344.5	421.7	455.7	407.0	429.0
793.7	80°	601.7	424.4	284.8	259.1	253.6	269.2	355.5	395.0	350.9	323.4
259.1	82.5°	237.0	220.5	228.7	201.2	182.8	192.9	276.5	326.1	258.1	233.3
146.1	85°	136.0	143.3	161.7	133.2	105.6	118.5	203.0	234.3	194.8	171.8
47.8	87.5°	36.7	50.5	74.4	68.9	47.8	50.5	96.5	129.5	112.1	86.4
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°
1939.3
1988.9
2067.9
2163.5
2251.7
2282.9
2283.8
2243.4
2148.8
2014.6
1874.1
1745.5
1631.6
1489.2
1329.3
1170.4
1028.0
908.6
790.1
723.0
680.7
651.3
631.1
609.1
571.4
540.2
527.3
526.4
518.1
561.3
556.7
393.2
303.2
232.4
175.5
89.1
0.0

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