

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: P852512

Luminaire Tested: **GLAN-SB4B-850-U-T4FT-HSS**

Issue Date: 7/11/2024

Test Information

Test Method: LM-79-08
Report Number: P852512
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB4B-850-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14672 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

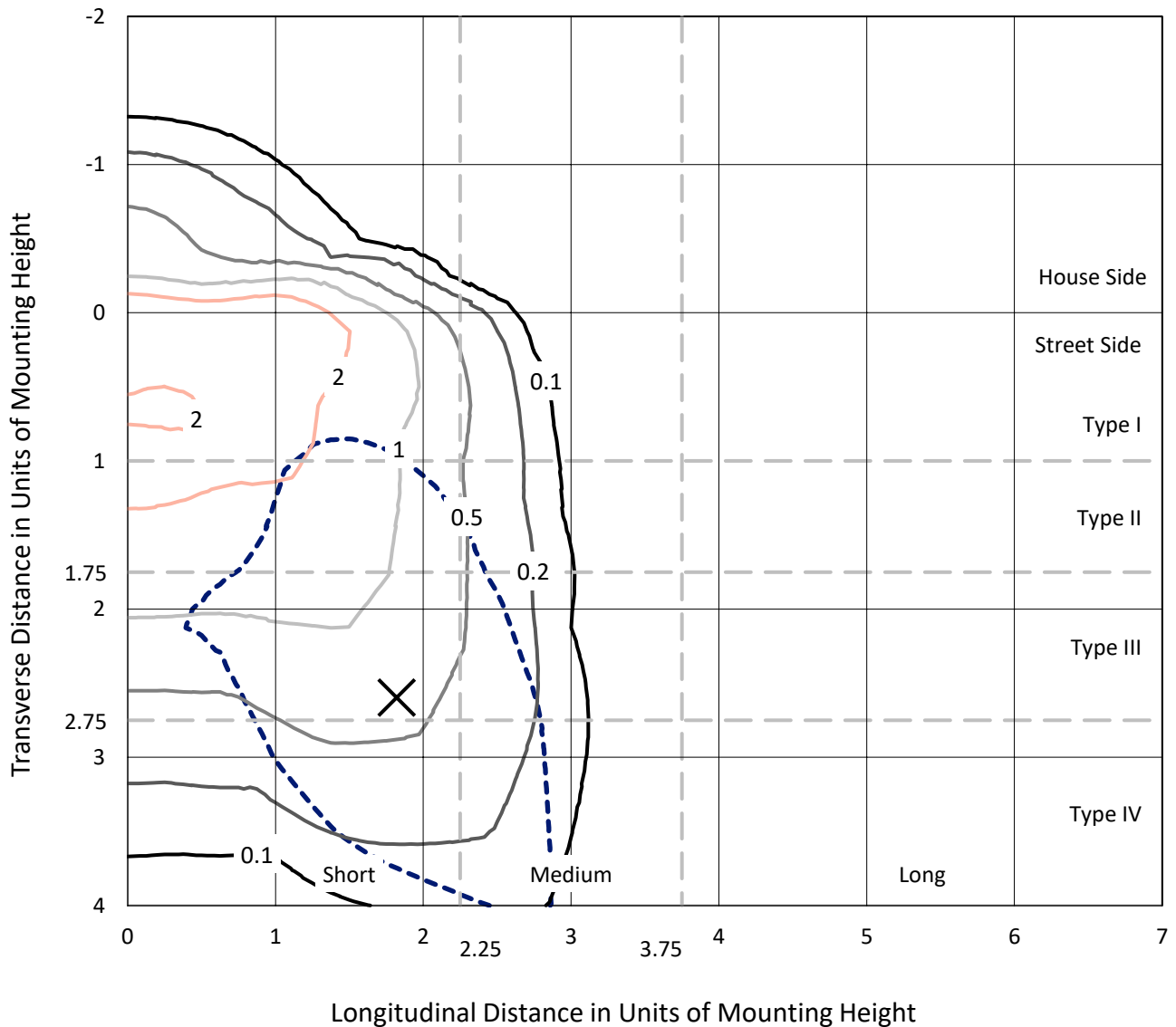
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

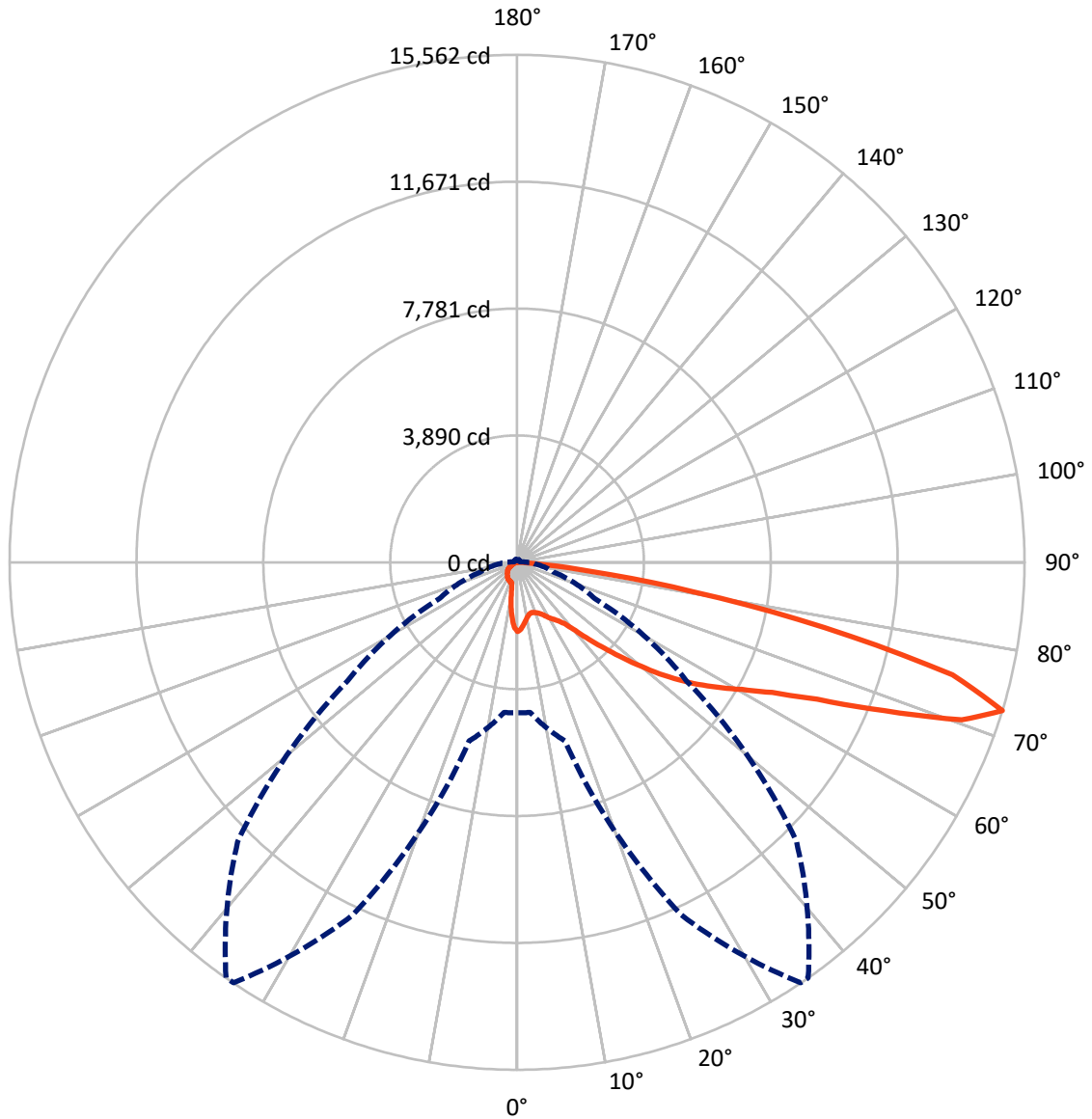
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1651.3	0.0	1651.3
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	13020.7	0.0	13020.7
	% Fixture	88.7	0.0	88.7
Total	Lumens	14672.0	0.0	14672.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.7	1.2
10°-20°	408.8	2.8
20°-30°	664.1	4.5
30°-40°	1108.0	7.6
40°-50°	2096.3	14.3
50°-60°	3331.0	22.7
60°-70°	4120.7	28.1
70°-80°	2561.5	17.5
80°-90°	207.0	1.4
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°	14672.0	100.0
0°-180°	14672.0	100.0

Coefficient of Utilization



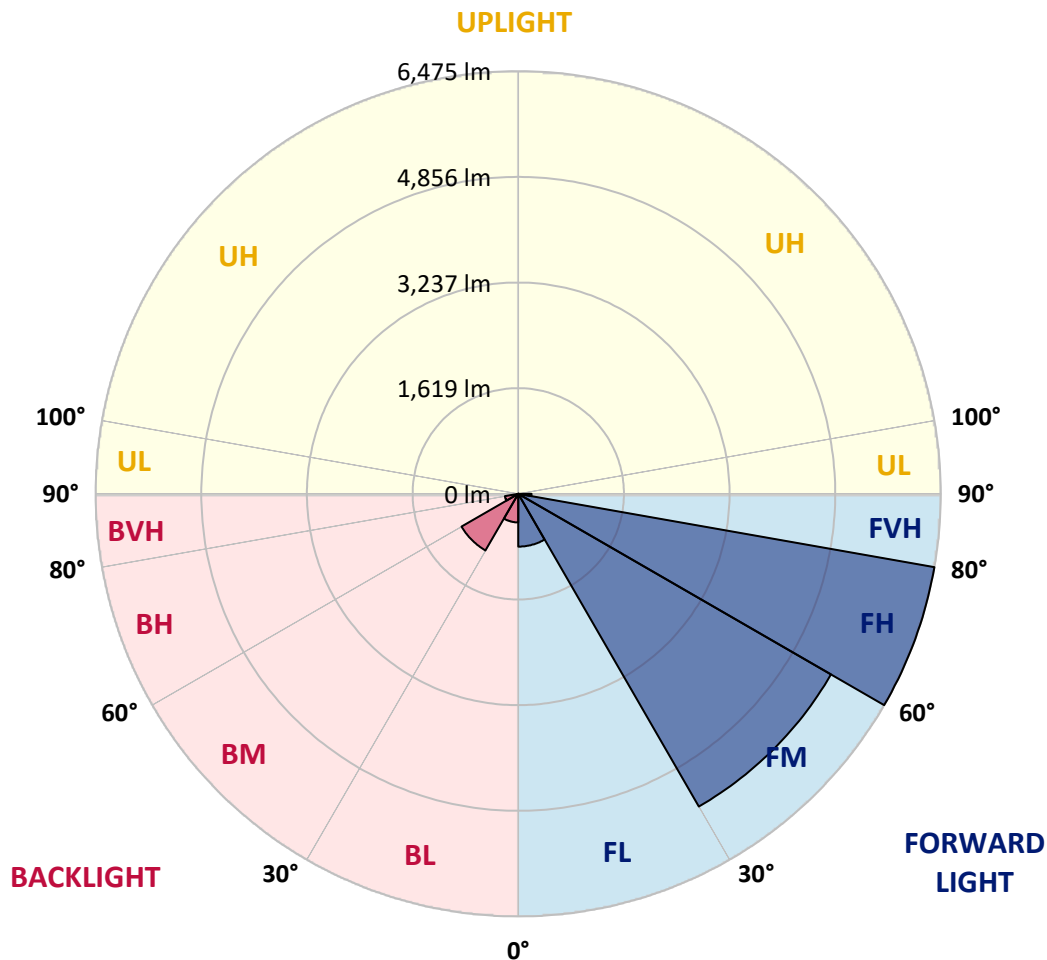
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	808.8	5.5			
FM (30°-60°)	5532.8	37.7			
FH (60°-80°)	6474.9	44.1			G3/7500
FVH (80°-90°)	204.2	1.4			G2/225
BL (0°-30°)	438.8	3.0	B1/500		
BM (30°-60°)	1002.5	6.8	B2/2500		
BH (60°-80°)	207.2	1.4	B1/500		G1/500
BVH (80°-90°)	2.8	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-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	2126.5	2126.5	2126.5	2126.5	2126.5	2126.5	2126.5	2126.5	2126.5	2126.5
2.5°	2031.9	2049.1	2052.3	2057.7	2057.7	2064.1	2074.9	2089.9	2114.6	2127.5
5°	1872.8	1885.7	1901.8	1914.7	1939.4	1942.6	1984.6	2025.4	2082.4	2125.4
7.5°	1712.6	1727.6	1749.1	1780.3	1812.5	1822.2	1885.7	1954.5	2044.8	2125.4
10°	1599.7	1600.8	1620.1	1651.3	1702.9	1714.7	1792.1	1890.0	2002.8	2112.5
12.5°	1536.3	1543.8	1552.4	1576.0	1625.5	1633.0	1715.8	1830.8	1960.9	2105.0
15°	1536.3	1541.6	1547.0	1558.8	1598.6	1605.1	1678.2	1793.2	1939.4	2108.2
17.5°	1552.4	1561.0	1556.7	1570.7	1612.6	1616.9	1681.4	1782.4	1938.3	2128.6
20°	1591.1	1597.5	1588.9	1597.5	1639.5	1648.1	1714.7	1802.9	1956.6	2164.1
22.5°	1652.4	1655.6	1635.2	1641.6	1684.6	1695.4	1772.8	1860.9	2000.7	2221.1
25°	1729.8	1736.2	1705.0	1712.6	1753.4	1766.3	1855.6	1948.0	2070.6	2299.5
27.5°	1819.0	1822.2	1795.3	1794.3	1846.9	1865.2	1955.5	2055.5	2164.1	2398.5
30°	1921.1	1930.8	1905.0	1900.7	1967.4	1982.4	2071.6	2187.7	2301.7	2546.8
32.5°	2001.8	2009.3	1994.2	2005.0	2072.7	2084.5	2212.5	2374.8	2517.8	2757.5
35°	2117.9	2122.2	2087.8	2107.1	2184.5	2214.6	2404.9	2637.1	2789.8	3022.0
37.5°	2538.2	2538.2	2392.0	2296.3	2370.5	2397.4	2668.3	2967.2	3125.2	3376.8
40°	3119.8	3110.1	2896.2	2700.5	2690.9	2743.5	3043.5	3383.2	3558.4	3802.5
42.5°	3740.1	3725.1	3433.7	3240.2	3208.0	3226.2	3476.7	3896.0	4074.5	4321.7
45°	4290.6	4286.3	4019.6	3759.5	3701.4	3759.5	4017.5	4495.9	4623.8	4884.0
47.5°	4751.8	4751.8	4557.2	4387.3	4357.2	4391.6	4749.6	5161.4	5149.5	5482.8
50°	5282.8	5278.5	5093.6	5020.5	5051.7	5100.1	5592.5	5862.3	5693.5	6070.9
52.5°	5654.8	5680.6	5617.2	5605.4	5764.5	5848.3	6448.2	6548.2	6180.5	6628.8
55°	5949.4	5979.5	6052.6	6135.4	6441.7	6551.4	7277.1	7198.6	6588.0	7112.6
57.5°	6366.5	6323.5	6436.4	6599.8	7095.4	7227.6	8080.1	7812.4	6915.8	7505.0
60°	6872.8	6879.3	6898.6	7105.1	7747.9	7917.8	8871.4	8393.0	7126.6	7745.8
62.5°	7481.3	7491.0	7530.8	7847.9	8624.1	8784.3	9714.2	8868.2	7223.3	7678.1
65°	7439.4	7480.3	7924.3	9009.0	9956.1	10114.1	10697.9	9201.4	7077.1	7058.8
67.5°	6777.2	6843.8	7586.7	10395.8	11964.3	12140.6	11886.9	9267.0	6446.0	5489.2
70°	5908.5	5932.2	6825.5	11642.9	14289.7	14468.1	12951.2	8545.6	4891.5	3061.8
72.5°	4614.1	4619.5	5667.7	11932.1	15551.8	15561.5	12115.9	6343.9	2630.7	1176.1
75°	3296.1	3263.9	3796.0	9676.6	13682.3	13791.9	9083.2	2975.8	1005.2	555.8
77.5°	1767.4	1802.9	2148.0	5738.7	9451.9	9639.0	4956.0	857.9	511.7	378.4
80°	546.1	576.2	880.5	2627.4	5353.8	5466.7	1837.3	381.6	356.9	269.8
82.5°	172.0	178.5	410.7	1104.1	2222.1	2273.7	532.2	216.1	244.0	178.5
85°	49.5	50.5	182.8	411.7	549.4	560.1	149.4	83.9	139.8	110.7
87.5°	5.4	17.2	68.8	68.8	48.4	47.3	16.1	18.3	39.8	14.0
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°
2126.5	0°	2126.5	2126.5	2126.5	2126.5	2126.5	2126.5	2126.5	2126.5	2126.5
2136.1	2.5°	2130.8	2131.8	2117.9	2094.2	2068.4	2046.9	2020.0	1998.5	1983.5
2155.5	5°	2145.8	2138.3	2098.5	2026.5	1940.5	1866.3	1783.5	1717.9	1674.9
2175.9	7.5°	2168.4	2146.9	2059.8	1917.9	1753.4	1607.2	1458.9	1343.8	1270.7
2195.3	10°	2187.7	2144.7	1995.3	1760.9	1509.4	1287.9	1088.0	949.3	871.9
2217.8	12.5°	2206.0	2143.7	1911.5	1575.0	1234.2	963.3	777.3	708.5	687.0
2254.4	15°	2240.4	2146.9	1806.1	1362.1	960.0	727.8	660.1	659.0	663.3
2310.3	17.5°	2287.7	2150.1	1686.8	1136.3	740.7	641.8	638.6	648.3	654.7
2380.2	20°	2349.0	2163.0	1559.9	912.7	636.4	620.3	627.8	636.4	641.8
2473.7	22.5°	2435.0	2185.6	1421.2	733.2	603.1	607.4	613.9	623.5	628.9
2593.0	25°	2540.4	2221.1	1284.7	637.5	587.0	592.4	602.0	612.8	619.2
2743.5	27.5°	2676.9	2278.0	1158.9	616.0	570.9	574.1	588.1	604.2	612.8
2957.5	30°	2874.7	2371.6	1050.3	625.7	561.2	553.7	573.0	595.6	605.3
3248.8	32.5°	3137.0	2503.8	983.7	640.7	556.9	530.0	548.3	577.3	593.4
3629.4	35°	3481.0	2704.8	957.9	657.9	553.7	505.3	518.2	549.4	577.3
4108.9	37.5°	3898.2	2984.4	965.4	665.5	544.0	484.9	491.3	518.2	554.7
4648.6	40°	4372.3	3310.1	1008.4	657.9	533.2	467.7	468.7	489.2	521.4
5229.1	42.5°	4861.4	3690.7	1088.0	630.0	523.6	452.6	449.4	463.3	484.9
5808.5	45°	5326.9	4082.0	1166.4	591.3	511.7	437.5	430.0	435.4	439.7
6372.9	47.5°	5733.3	4357.2	1143.9	555.8	495.6	420.3	407.4	405.3	392.4
6877.1	50°	6013.9	4417.4	1015.9	520.3	472.0	401.0	380.6	367.7	345.1
7254.5	52.5°	6103.1	4179.8	829.9	484.9	433.2	375.2	346.2	325.7	297.8
7471.7	55°	5984.8	3714.3	663.3	441.8	379.5	340.8	308.5	281.7	259.1
7495.3	57.5°	5695.7	3122.0	524.6	391.3	322.5	302.1	269.8	243.0	223.6
7233.0	60°	5216.2	2479.1	415.0	331.1	275.2	260.2	226.8	209.6	192.4
6555.7	62.5°	4488.4	1769.5	325.7	262.3	230.1	212.9	193.5	180.6	160.2
5337.7	65°	3502.5	1082.6	251.6	192.4	184.9	176.3	164.5	152.7	127.9
3482.1	67.5°	2209.2	512.8	179.5	145.1	146.2	141.9	136.5	126.9	108.6
1559.9	70°	972.9	248.3	118.3	110.7	108.6	108.6	112.9	109.7	92.5
541.8	72.5°	331.1	133.3	88.2	83.9	78.5	77.4	94.6	91.4	74.2
269.8	75°	173.1	89.2	64.5	60.2	47.3	57.0	75.3	71.0	52.7
178.5	77.5°	112.9	63.4	44.1	38.7	26.9	37.6	55.9	49.5	31.2
117.2	80°	71.0	41.9	25.8	18.3	12.9	20.4	30.1	21.5	11.8
68.8	82.5°	37.6	21.5	9.7	6.5	5.4	6.5	7.5	5.4	2.2
35.5	85°	15.1	7.5	3.2	2.2	1.1	0.0	2.2	1.1	0.0
6.5	87.5°	5.4	1.1	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

(END O

180°
2126.5
1986.7
1663.1
1239.5
836.4
677.3
660.1
650.4
635.4
620.3
610.6
603.1
595.6
588.1
582.7
576.2
555.8
510.7
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247.3
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