

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: P848517

Luminaire Tested: **GLAN-SB5A-840-U-T3-HSS**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P848517
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-SB5A-840-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 4000K, 350mA 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: 15804 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

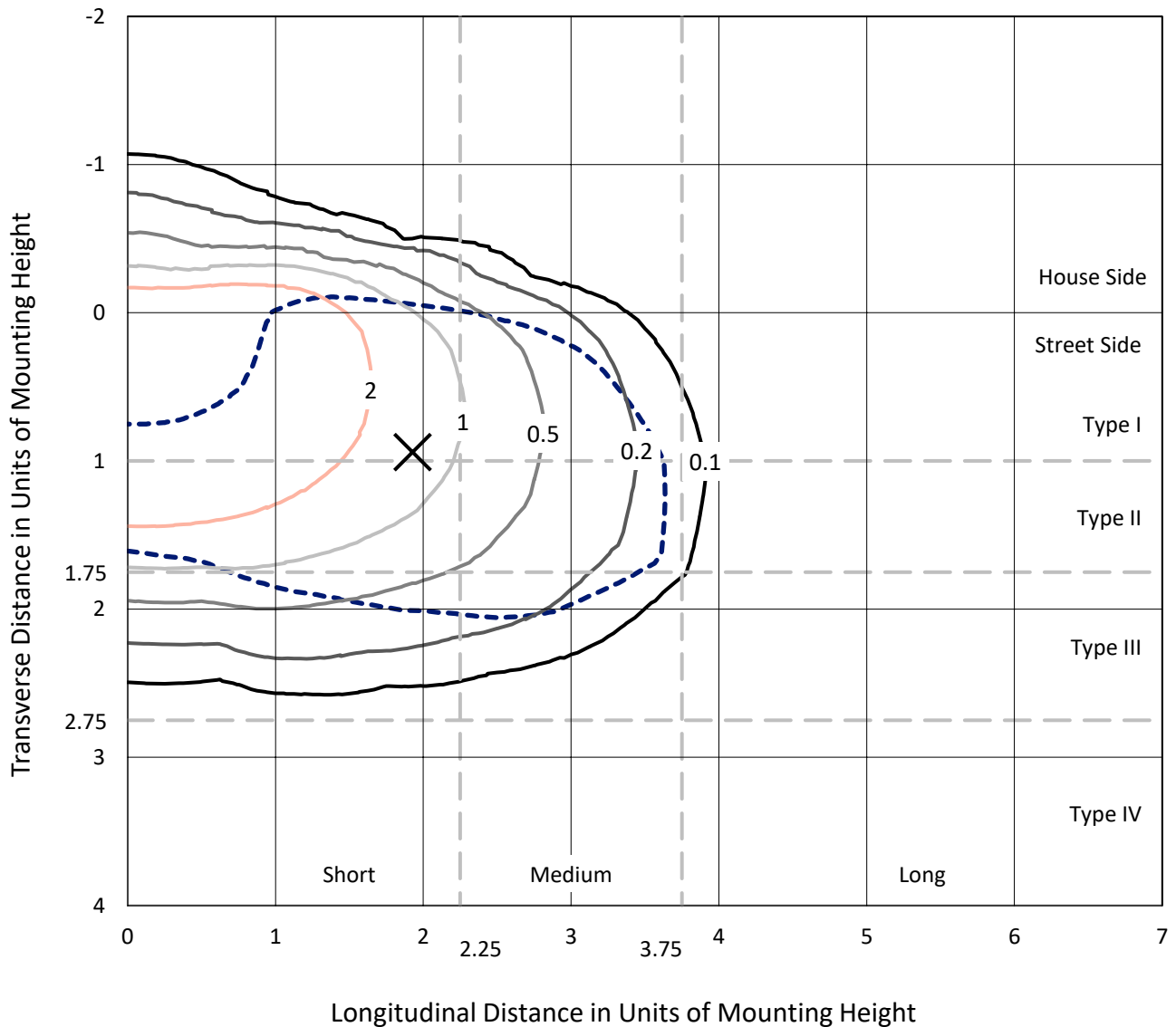
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

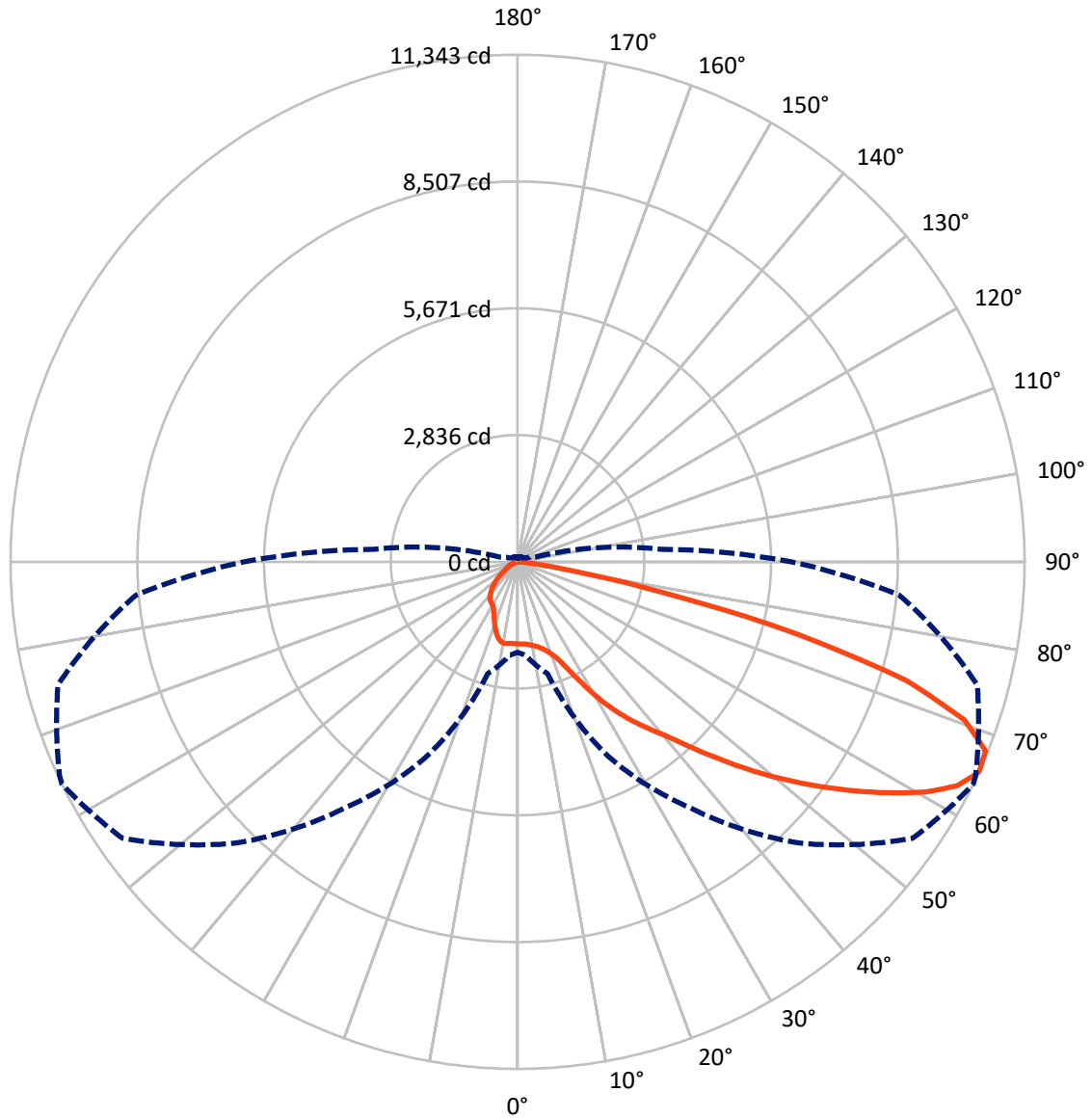
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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	2113.5	0.0	2113.5
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	13690.5	0.0	13690.5
	% Fixture	86.6	0.0	86.6
Total	Lumens	15804.0	0.0	15804.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.6	1.1
10°-20°	460.0	2.9
20°-30°	871.6	5.5
30°-40°	1763.7	11.2
40°-50°	3004.5	19.0
50°-60°	4085.9	25.9
60°-70°	3836.9	24.3
70°-80°	1537.2	9.7
80°-90°	74.5	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°	15804.0	100.0
0°-180°	15804.0	100.0

Coefficient of Utilization



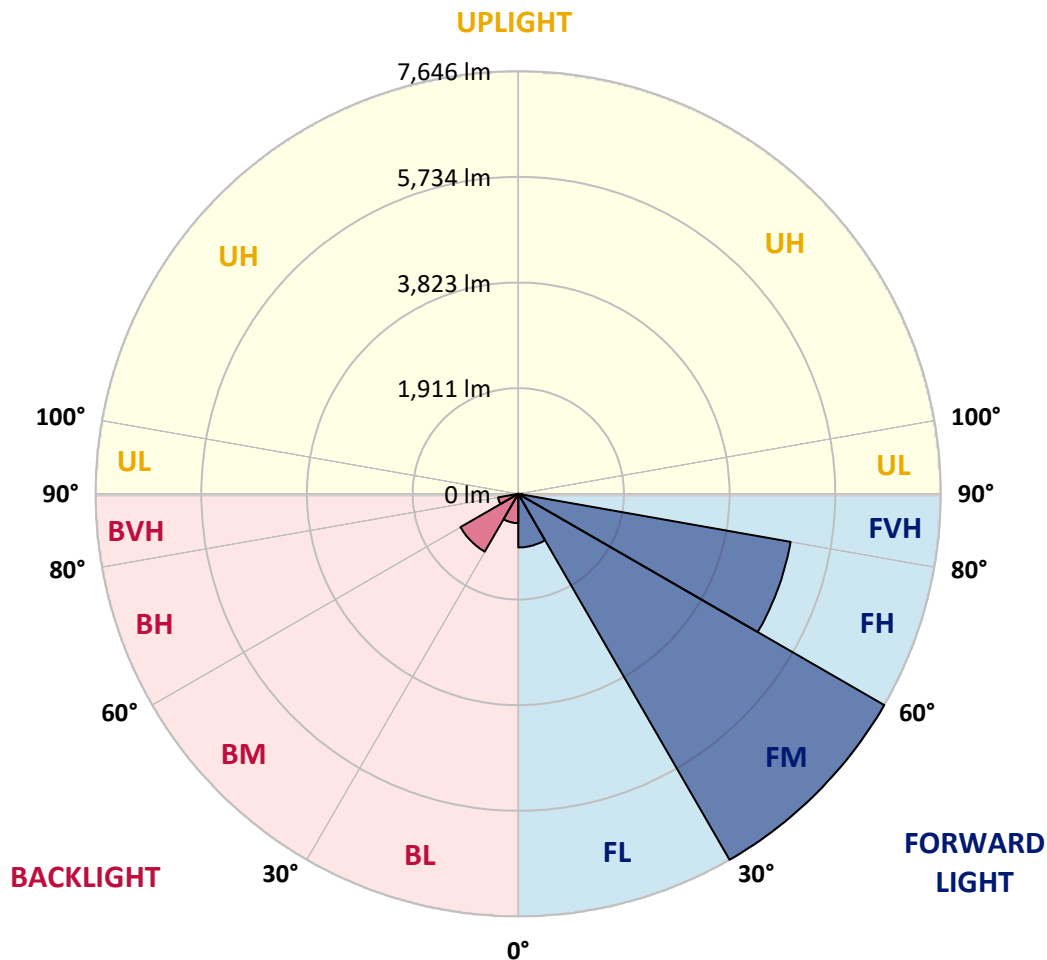
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	970.5	6.1			
FM (30°-60°)	7646.0	48.4			
FH (60°-80°)	5003.2	31.7			G3/7500
FVH (80°-90°)	70.8	0.4			G1/100
BL (0°-30°)	530.6	3.4	B2/1000		
BM (30°-60°)	1208.3	7.6	B2/2500		
BH (60°-80°)	370.9	2.3	B1/500		G1/500
BVH (80°-90°)	3.6	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	1838.2	1838.2	1838.2	1838.2	1838.2	1838.2	1838.2	1838.2	1838.2	1838.2
2.5°	1831.8	1844.5	1841.3	1838.2	1837.1	1839.2	1840.3	1839.2	1839.2	1839.2
5°	1796.9	1807.4	1807.4	1814.9	1825.5	1838.2	1847.7	1849.8	1851.9	1855.1
7.5°	1730.1	1738.6	1744.9	1769.3	1795.8	1829.7	1858.3	1873.1	1875.3	1886.9
10°	1684.5	1695.1	1705.7	1731.2	1769.3	1820.2	1868.9	1904.9	1910.2	1937.8
12.5°	1682.4	1693.0	1706.8	1734.3	1778.8	1832.9	1892.2	1944.1	1953.7	1993.9
15°	1704.7	1717.4	1730.1	1764.0	1811.7	1877.4	1940.9	2005.6	2015.1	2072.3
17.5°	1750.2	1767.2	1776.7	1810.6	1861.5	1934.6	2018.3	2092.4	2100.9	2167.7
20°	1840.3	1860.4	1863.6	1891.1	1940.9	2019.3	2118.9	2211.1	2221.7	2298.0
22.5°	2026.8	2055.4	2029.9	2043.7	2088.2	2166.6	2274.7	2391.2	2406.0	2492.9
25°	2355.2	2395.4	2329.8	2306.5	2325.5	2407.1	2542.7	2690.0	2706.9	2776.9
27.5°	3000.4	2948.5	2848.9	2751.4	2694.2	2740.8	2893.4	3075.6	3096.8	3164.6
30°	3709.2	3663.6	3529.1	3312.9	3177.3	3169.9	3310.8	3514.2	3538.6	3603.2
32.5°	4419.0	4375.6	4229.4	3963.5	3728.3	3611.7	3709.2	3934.8	3947.6	3988.9
35°	5117.2	5072.7	4926.5	4654.2	4365.0	4100.1	4081.1	4335.3	4339.6	4383.0
37.5°	5819.6	5782.6	5626.8	5359.8	5074.8	4709.3	4532.4	4714.6	4719.9	4762.3
40°	6320.8	6336.7	6229.6	6023.1	5778.3	5378.9	5038.8	5118.3	5086.5	5157.5
42.5°	6750.9	6782.7	6689.5	6585.6	6443.7	6091.9	5666.0	5652.2	5601.4	5639.5
45°	7122.8	7149.3	7065.6	7041.2	7038.0	6791.2	6351.5	6268.8	6197.9	6190.4
47.5°	7259.4	7310.3	7346.3	7427.9	7586.8	7483.0	7060.3	6932.1	6852.6	6794.3
50°	7311.4	7365.4	7488.3	7725.6	8101.7	8146.2	7765.9	7621.8	7524.3	7418.4
52.5°	7241.4	7337.8	7503.1	7902.5	8448.2	8678.1	8442.9	8316.8	8205.5	8032.9
55°	6829.3	6925.7	7263.7	7900.4	8620.9	9051.0	9082.8	9026.6	8901.6	8629.3
57.5°	5960.5	6103.6	6638.6	7631.3	8617.7	9372.0	9710.0	9750.2	9610.4	9220.5
60°	4757.0	4950.9	5603.5	7034.8	8351.8	9545.8	10259.8	10461.1	10312.8	9803.2
62.5°	3319.3	3543.9	4161.6	6100.4	7743.6	9420.8	10661.4	11033.3	10921.0	10324.5
65°	2024.6	2096.7	2594.6	4800.4	6709.6	8897.4	10785.3	11342.6	11305.5	10643.4
67.5°	1348.7	1409.1	1552.1	3291.8	5208.3	7851.7	10488.7	11288.6	11299.2	10591.5
70°	812.6	864.5	957.8	1914.5	3375.5	6214.8	9570.1	10599.9	10661.4	9897.5
72.5°	334.8	369.8	454.5	867.7	1748.1	3944.4	7620.7	9100.8	9243.8	8322.1
75°	189.6	207.7	267.0	435.4	758.6	1838.2	4616.1	6460.6	6671.4	5735.9
77.5°	126.1	134.6	172.7	281.8	427.0	627.2	1972.7	3365.9	3768.5	3132.8
80°	84.8	92.2	118.7	188.6	277.6	269.1	628.3	1247.0	1534.1	1076.4
82.5°	57.2	58.3	84.8	124.0	175.9	130.3	185.4	387.8	487.4	311.5
85°	32.8	31.8	62.5	72.0	78.4	54.0	56.2	116.5	152.6	131.4
87.5°	4.2	6.4	24.4	19.1	10.6	11.7	11.7	20.1	29.7	31.8
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°
1838.2	0°	1838.2	1838.2	1838.2	1838.2	1838.2	1838.2	1838.2	1838.2	1838.2	1838.2
1840.3	2.5°	1840.3	1839.2	1836.1	1832.9	1825.5	1821.2	1823.3	1821.2	1820.2	1821.2
1854.1	5°	1854.1	1850.9	1842.4	1831.8	1817.0	1799.0	1787.3	1770.4	1754.5	1744.9
1891.1	7.5°	1891.1	1888.0	1876.3	1846.6	1799.0	1723.7	1654.9	1594.5	1548.9	1522.4
1950.5	10°	1950.5	1945.2	1927.2	1861.5	1736.5	1572.2	1435.6	1322.2	1248.0	1213.1
2020.4	12.5°	2020.4	2014.0	1982.3	1847.7	1617.8	1361.4	1172.8	1046.8	977.9	947.2
2100.9	15°	2103.0	2094.6	2032.1	1782.0	1445.1	1128.3	955.6	861.3	816.8	789.3
2203.7	17.5°	2205.8	2191.0	2069.1	1683.5	1257.6	950.3	822.1	751.2	712.0	685.5
2338.2	20°	2339.3	2314.9	2098.8	1565.9	1084.9	838.0	732.1	672.8	643.1	619.8
2528.9	22.5°	2525.8	2490.8	2134.8	1438.8	963.1	760.7	665.3	621.9	597.5	571.1
2794.9	25°	2756.7	2715.4	2179.3	1321.2	879.4	693.9	616.6	580.6	552.0	521.3
3143.4	27.5°	3079.9	3005.7	2232.3	1224.7	807.3	636.7	572.1	531.9	499.0	473.6
3538.6	30°	3440.1	3318.2	2278.9	1166.5	741.6	583.8	513.8	473.6	442.9	424.8
3893.5	32.5°	3781.2	3615.9	2309.6	1141.0	682.3	523.4	450.3	406.8	383.5	378.2
4241.0	35°	4103.3	3885.1	2306.5	1116.7	629.3	463.0	387.8	343.3	325.3	328.4
4615.0	37.5°	4474.1	4172.2	2284.2	1078.5	585.9	407.9	333.7	294.5	278.6	279.7
5069.5	40°	4905.3	4503.8	2270.4	1006.5	538.2	357.0	289.2	257.4	245.8	241.6
5548.4	42.5°	5365.1	4824.8	2272.5	924.9	478.9	311.5	258.5	232.0	221.4	218.2
6081.3	45°	5827.0	5131.0	2275.7	840.2	416.4	276.5	236.3	214.0	207.7	203.4
6621.6	47.5°	6261.4	5391.6	2216.4	749.0	354.9	250.0	218.2	203.4	198.1	192.8
7164.1	50°	6666.1	5565.4	2073.4	643.1	306.2	228.8	204.5	193.9	188.6	183.3
7655.7	52.5°	6980.8	5592.9	1837.1	534.0	272.3	213.0	196.0	186.5	180.1	174.8
8053.0	55°	7120.7	5420.2	1501.3	432.3	245.8	199.2	187.5	178.0	170.6	165.3
8365.5	57.5°	7084.6	5056.8	1170.7	347.5	220.4	185.4	176.9	170.6	162.1	153.6
8618.7	60°	6907.7	4570.5	882.5	289.2	197.1	170.6	165.3	160.0	148.3	135.6
8716.2	62.5°	6601.5	3959.2	629.3	239.4	171.6	153.6	151.5	147.3	130.3	107.0
8572.1	65°	6133.2	3216.5	423.8	199.2	147.3	134.6	135.6	128.2	105.9	79.5
8044.5	67.5°	5448.8	2352.0	271.2	163.2	122.9	112.3	113.4	109.1	90.1	67.8
7044.4	70°	4576.9	1557.4	176.9	124.0	98.5	86.9	93.2	94.3	76.3	55.1
5406.4	72.5°	3355.3	919.6	124.0	92.2	72.0	60.4	76.3	78.4	61.4	41.3
3252.6	75°	1912.3	436.5	93.2	66.7	44.5	42.4	59.3	59.3	42.4	27.5
1408.0	77.5°	803.1	182.2	65.7	43.4	25.4	24.4	40.3	37.1	21.2	12.7
343.3	80°	232.0	81.6	35.0	21.2	10.6	9.5	15.9	11.7	5.3	2.1
130.3	82.5°	91.1	36.0	13.8	8.5	4.2	4.2	2.1	0.0	0.0	0.0
74.2	85°	54.0	14.8	6.4	3.2	1.1	0.0	0.0	0.0	0.0	0.0
15.9	87.5°	13.8	3.2	2.1	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	0.0

(END O

180°
1838.2
1825.5
1747.1
1523.5
1209.9
944.0
790.4
683.4
615.5
566.8
518.1
468.3
421.7
381.4
328.4
283.9
240.5
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