

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: P846958

Luminaire Tested: **GLAN-SB2D-827-U-T3**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P846958
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-827-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16236 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

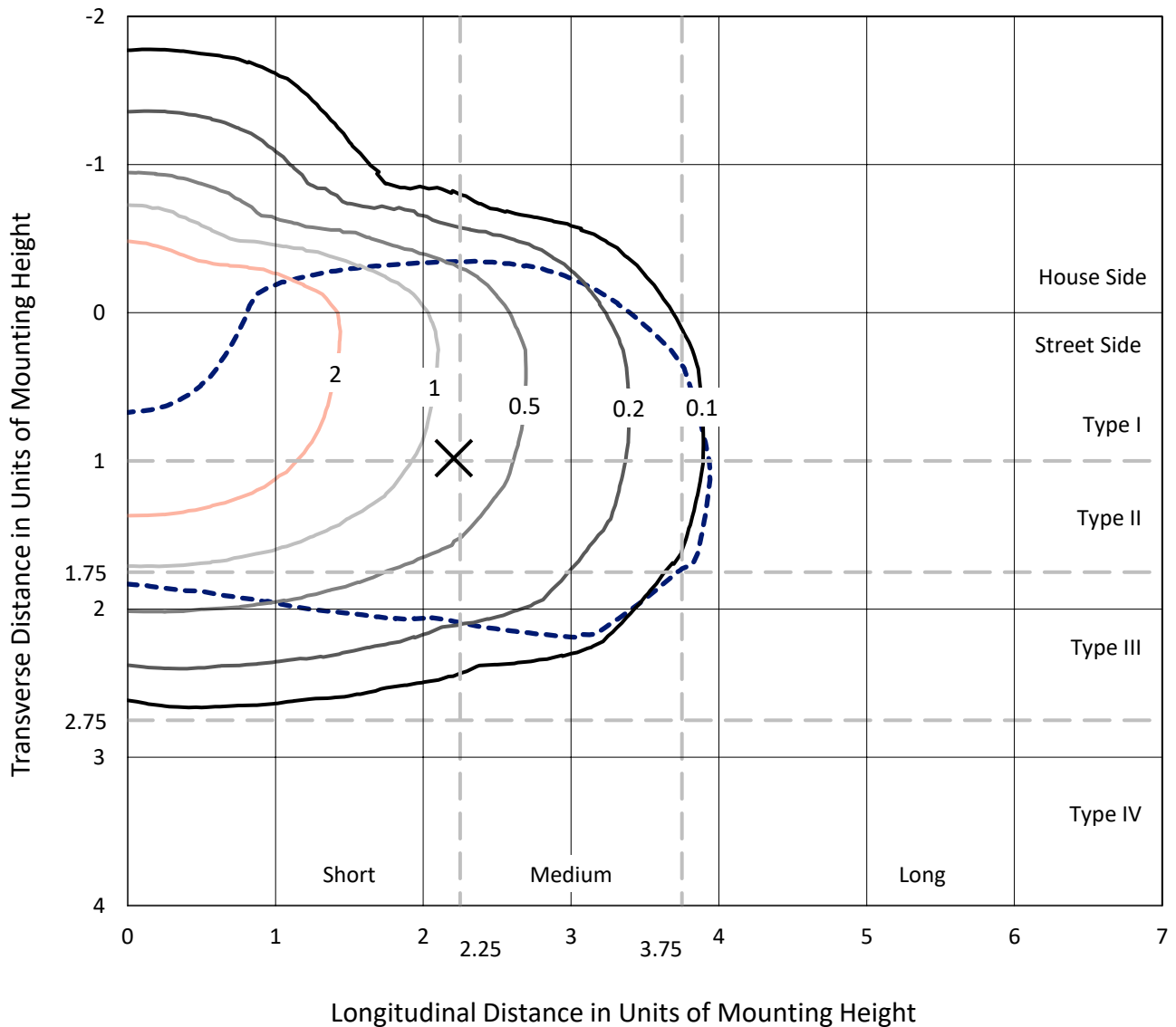
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

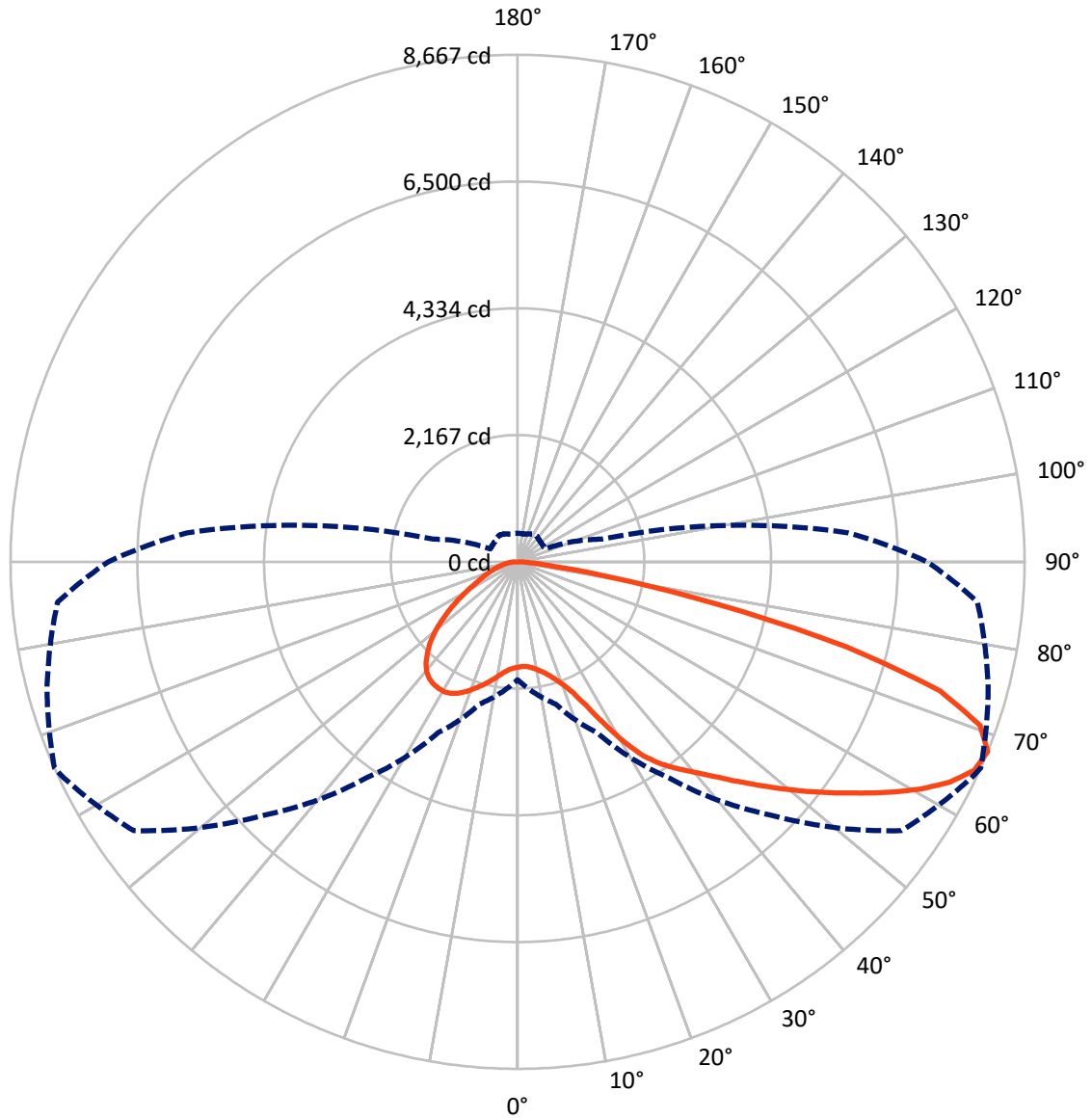
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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	4037.0	0.0	4037.0
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	12199.0	0.0	12199.0
	% Fixture	75.1	0.0	75.1
Total	Lumens	16236.0	0.0	16236.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.5	1.1
10°-20°	589.9	3.6
20°-30°	1137.0	7.0
30°-40°	1993.5	12.3
40°-50°	2963.7	18.3
50°-60°	3756.8	23.1
60°-70°	3675.9	22.6
70°-80°	1753.4	10.8
80°-90°	187.4	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°	16236.0	100.0
0°-180°	16236.0	100.0

Coefficient of Utilization

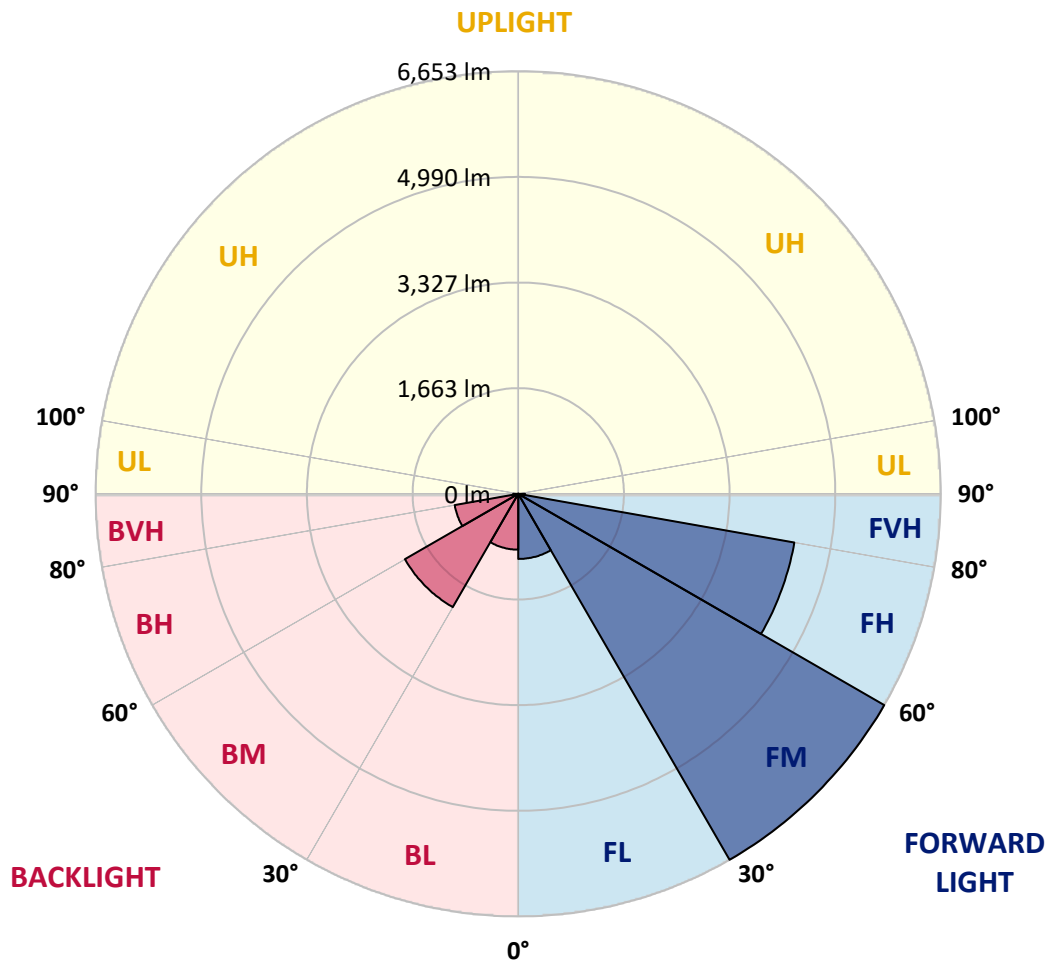


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1026.0	6.3			
FM (30°-60°)	6653.4	41.0			
FH (60°-80°)	4413.4	27.2			G2/5000
FVH (80°-90°)	106.2	0.7			G2/225
BL (0°-30°)	879.4	5.4	B2/1000		
BM (30°-60°)	2060.5	12.7	B2/2500		
BH (60°-80°)	1015.9	6.3	B3/2500		G3/2500
BVH (80°-90°)	81.1	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°	1800.8	1800.8	1800.8	1800.8	1800.8	1800.8	1800.8	1800.8	1800.8	1800.8
2.5°	1782.0	1792.3	1789.7	1785.4	1784.6	1786.3	1788.8	1791.4	1790.6	1794.8
5°	1776.9	1787.1	1786.3	1786.3	1789.7	1796.5	1800.8	1805.1	1800.8	1805.9
7.5°	1780.3	1788.0	1791.4	1794.8	1803.3	1816.1	1826.4	1835.8	1830.6	1836.6
10°	1823.8	1829.8	1833.2	1833.2	1839.2	1853.7	1863.9	1881.0	1876.7	1886.1
12.5°	1903.2	1909.1	1909.1	1905.7	1910.0	1919.4	1922.8	1941.5	1933.9	1949.2
15°	2000.4	2012.3	2003.0	1997.0	1998.7	2008.1	2007.2	2021.7	2014.0	2026.8
17.5°	2107.9	2123.2	2107.9	2107.0	2103.6	2113.9	2114.7	2127.5	2113.9	2123.2
20°	2235.0	2256.3	2243.5	2247.8	2240.1	2244.4	2248.6	2267.4	2246.1	2252.9
22.5°	2414.1	2439.7	2426.1	2442.3	2437.2	2433.7	2432.9	2466.2	2432.9	2435.5
25°	2675.2	2705.9	2682.0	2704.2	2704.2	2715.3	2728.1	2770.7	2715.3	2699.0
27.5°	3060.7	3091.5	3044.5	3058.2	3053.9	3081.2	3067.6	3173.3	3113.6	3087.2
30°	3524.8	3579.4	3490.7	3487.3	3483.0	3526.5	3546.1	3616.1	3555.5	3529.1
32.5°	4026.4	4083.5	3977.8	3947.1	3930.9	3957.3	3941.1	3997.4	3955.6	3914.6
35°	4557.0	4613.3	4512.6	4452.9	4388.1	4332.6	4274.6	4289.1	4249.9	4187.6
37.5°	5058.6	5161.8	5055.2	4991.2	4871.8	4763.4	4601.3	4534.0	4497.3	4440.1
40°	5569.6	5628.4	5547.4	5492.8	5363.1	5193.4	4934.0	4791.6	4742.1	4686.7
42.5°	5945.8	6002.1	5958.5	5921.0	5819.5	5622.4	5287.2	5108.9	5037.3	4975.0
45°	6244.3	6286.1	6258.8	6272.5	6229.0	6037.9	5653.2	5449.3	5375.1	5299.1
47.5°	6364.6	6409.0	6452.5	6533.5	6607.7	6467.0	6046.4	5817.8	5739.3	5661.7
50°	6351.0	6396.2	6522.4	6694.7	6925.1	6878.1	6461.0	6210.2	6137.7	6049.0
52.5°	6241.8	6292.9	6455.0	6741.6	7108.5	7186.1	6883.3	6615.4	6547.2	6441.4
55°	5955.1	5985.8	6229.0	6635.0	7152.0	7401.1	7297.0	7047.0	6978.8	6831.2
57.5°	5423.7	5468.0	5822.1	6347.5	7042.8	7546.9	7660.4	7500.9	7435.2	7222.8
60°	4730.2	4801.0	5206.2	5864.7	6764.7	7546.1	7990.5	7947.0	7892.4	7608.3
62.5°	3945.4	4027.2	4417.1	5182.3	6278.4	7332.0	8197.0	8320.6	8292.5	7964.1
65°	3030.0	3086.3	3474.5	4299.4	5521.8	6872.2	8220.8	8575.7	8580.8	8234.5
67.5°	2017.5	2179.5	2516.5	3226.2	4508.4	6120.6	8011.0	8617.5	8667.0	8327.5
70°	984.4	1197.7	1527.8	2096.8	3226.2	4968.2	7462.5	8274.6	8384.6	8056.2
72.5°	408.6	477.7	657.7	1034.7	1852.0	3352.5	6360.3	7344.8	7548.6	7138.3
75°	275.5	298.6	376.2	530.6	843.7	1653.2	4586.8	5476.6	5805.0	5391.3
77.5°	212.4	226.9	273.8	371.1	501.6	625.3	2455.1	3300.4	3470.2	3212.6
80°	167.2	178.3	204.7	270.4	355.7	334.4	836.8	1495.4	1593.5	1336.7
82.5°	145.0	149.3	146.7	183.4	236.3	195.3	274.7	551.9	609.1	441.9
85°	104.9	116.9	122.0	113.5	125.4	99.0	112.6	195.3	215.0	191.9
87.5°	42.7	63.1	77.6	73.4	46.1	28.2	35.0	57.2	65.7	71.7
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°
1800.8	0°	1800.8	1800.8	1800.8	1800.8	1800.8	1800.8	1800.8	1800.8	1800.8	1800.8
1801.6	2.5°	1802.5	1808.5	1812.7	1817.8	1821.3	1826.4	1836.6	1842.6	1843.4	1847.7
1815.3	5°	1818.7	1827.2	1836.6	1850.3	1865.6	1878.4	1898.0	1911.7	1916.8	1921.1
1848.6	7.5°	1853.7	1865.6	1882.7	1906.6	1928.7	1945.8	1969.7	1985.9	2002.1	2008.1
1901.4	10°	1905.7	1922.8	1947.5	1979.9	2003.8	2026.0	2050.7	2064.4	2080.6	2087.4
1964.6	12.5°	1970.5	1988.5	2020.9	2066.1	2088.3	2103.6	2112.1	2108.7	2112.1	2118.1
2040.5	15°	2044.8	2064.4	2101.1	2149.7	2165.0	2151.4	2132.6	2115.6	2113.0	2114.7
2132.6	17.5°	2132.6	2147.1	2189.8	2230.7	2219.6	2163.3	2122.4	2095.1	2081.4	2077.2
2250.3	20°	2255.5	2255.5	2290.4	2316.0	2241.8	2146.3	2082.3	2037.9	2009.8	1997.8
2410.7	22.5°	2404.7	2391.1	2413.3	2395.4	2237.5	2098.5	2009.8	1933.0	1890.4	1873.3
2635.1	25°	2594.1	2577.9	2571.9	2461.0	2206.8	2022.6	1878.4	1785.4	1747.9	1738.5
2958.4	27.5°	2879.9	2838.9	2761.3	2496.9	2150.5	1903.2	1724.9	1638.7	1617.4	1618.2
3373.8	30°	3260.4	3178.5	2988.2	2502.8	2058.4	1734.2	1567.9	1506.5	1496.2	1500.5
3722.7	32.5°	3612.7	3535.0	3220.3	2475.5	1916.8	1568.8	1427.2	1386.2	1370.9	1376.0
3988.9	35°	3889.1	3867.7	3435.2	2437.2	1742.8	1413.5	1300.9	1265.9	1236.1	1229.2
4239.7	37.5°	4150.1	4141.6	3596.5	2383.4	1570.5	1303.5	1199.4	1153.3	1109.8	1085.9
4516.9	40°	4436.7	4428.2	3702.2	2300.7	1417.8	1207.9	1108.1	1047.5	993.8	950.3
4830.8	42.5°	4759.2	4708.8	3752.6	2182.1	1288.1	1126.9	1033.9	952.0	881.2	841.1
5185.7	45°	5111.5	4998.0	3751.7	2031.1	1178.9	1052.7	954.6	838.5	772.9	735.3
5549.9	47.5°	5485.1	5274.4	3705.6	1863.9	1073.1	970.8	831.7	743.0	699.5	676.5
5945.8	50°	5870.7	5532.9	3627.2	1672.0	964.8	877.8	754.9	694.4	661.1	639.8
6338.2	52.5°	6233.2	5767.5	3532.5	1454.4	854.8	787.4	720.8	673.9	638.9	615.0
6718.6	55°	6570.2	5969.6	3398.5	1231.8	765.2	726.8	704.6	665.4	625.3	597.1
7105.0	57.5°	6869.6	6101.0	3167.4	1022.8	701.2	685.0	687.6	650.9	604.8	580.9
7485.5	60°	7118.7	6197.4	2825.3	829.2	649.2	644.1	661.1	623.6	569.8	542.5
7807.1	62.5°	7268.0	6195.7	2405.6	679.0	604.8	606.5	626.1	589.5	534.9	509.3
7975.2	65°	7255.2	6043.9	1945.0	580.9	562.2	563.9	589.5	551.9	505.9	490.5
7890.7	67.5°	6998.4	5673.6	1492.0	516.9	515.2	522.9	552.8	526.3	487.9	486.2
7387.4	70°	6303.2	4905.0	1074.8	465.8	466.6	477.7	516.9	510.1	478.6	482.0
6211.1	72.5°	5054.3	3739.8	721.7	412.0	412.9	430.8	482.8	497.3	469.2	514.4
4406.9	75°	3366.1	2332.2	464.1	354.9	355.7	378.8	453.0	472.6	443.6	512.7
2293.0	77.5°	1617.4	1048.4	336.1	298.6	298.6	319.9	391.5	423.1	377.9	398.4
737.0	80°	558.7	394.1	264.4	240.6	235.4	249.9	330.1	366.8	325.9	300.3
240.6	82.5°	220.1	204.7	212.4	186.8	169.8	179.1	256.8	302.8	239.7	216.7
135.6	85°	126.3	133.1	150.1	123.7	98.1	110.0	188.5	217.5	180.8	159.5
44.4	87.5°	34.1	46.9	69.1	64.0	44.4	46.9	89.6	120.3	104.1	80.2
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

<u>180°</u>
1800.8
1846.9
1920.2
2008.9
2090.8
2119.8
2120.7
2083.1
1995.3
1870.7
1740.2
1620.8
1515.0
1382.8
1234.4
1086.8
954.6
843.7
733.6
671.3
632.1
604.8
586.0
565.6
530.6
501.6
489.7
488.8
481.1
521.2
516.9
365.1
281.5
215.8
162.9
82.7
0.0

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