

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: P852301

Luminaire Tested: **GLAN-SB2D-827-U-T4FT**

Issue Date: 7/11/2024

Test Information

Test Method: LM-79-08
Report Number: P852301
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB2D-827-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16037 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

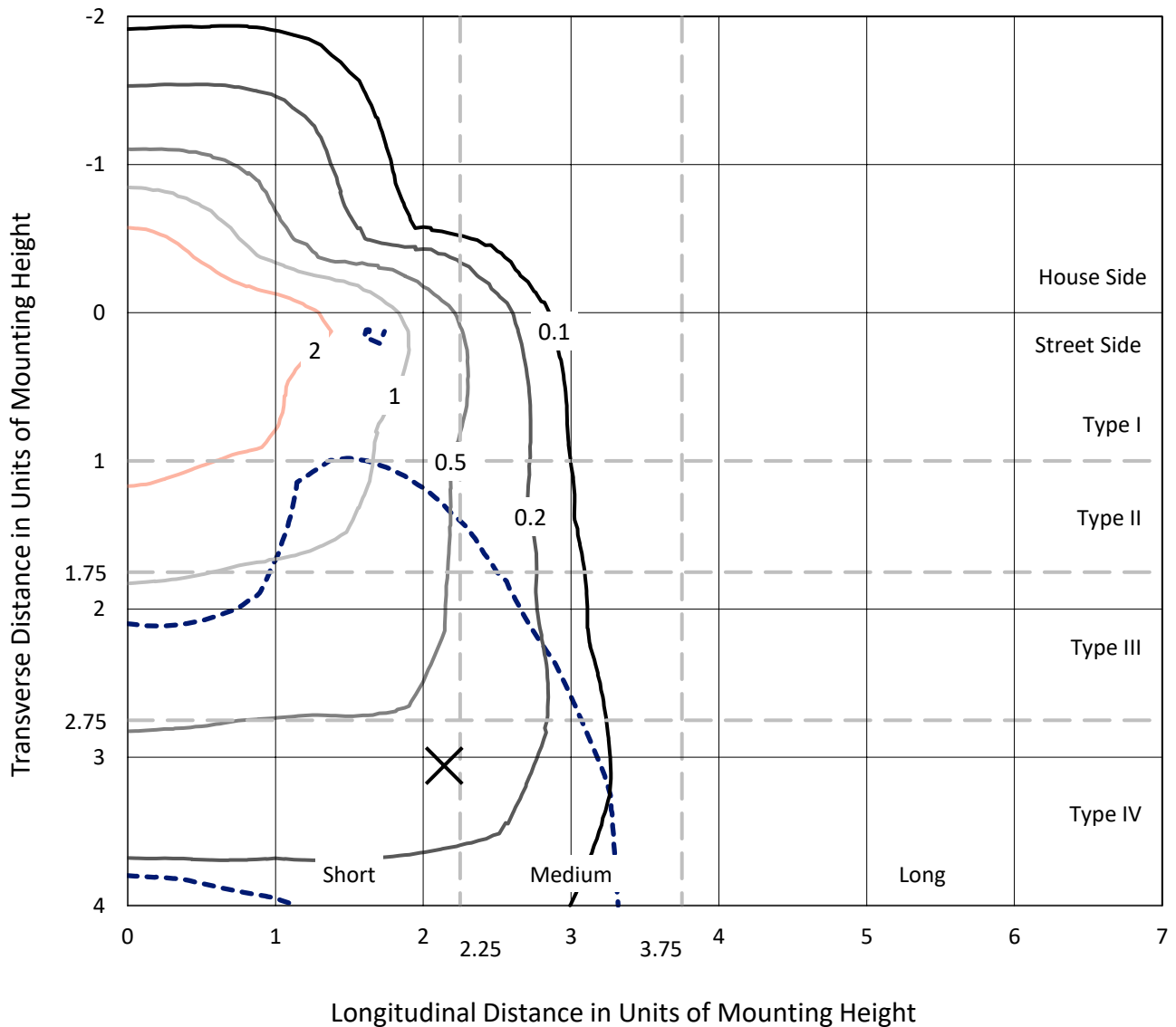
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

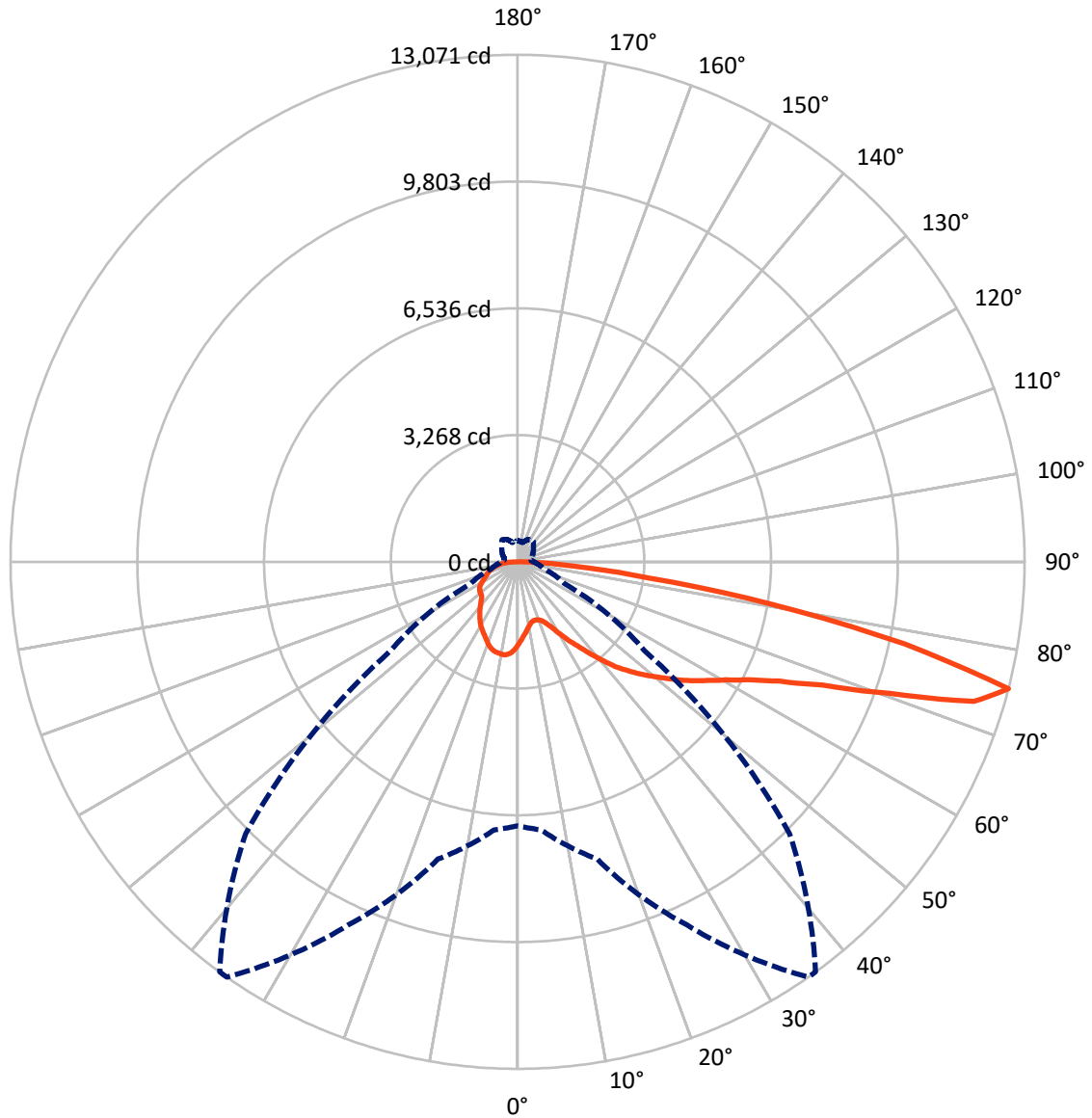
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3816.4	0.0	3816.4
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	12220.6	0.0	12220.6
	% Fixture	76.2	0.0	76.2
Total	Lumens	16037.0	0.0	16037.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.3	1.3
10°-20°	583.6	3.6
20°-30°	980.1	6.1
30°-40°	1523.1	9.5
40°-50°	2260.7	14.1
50°-60°	3121.1	19.5
60°-70°	3786.6	23.6
70°-80°	3129.3	19.5
80°-90°	450.1	2.8
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°	16037.0	100.0
0°-180°	16037.0	100.0

Coefficient of Utilization

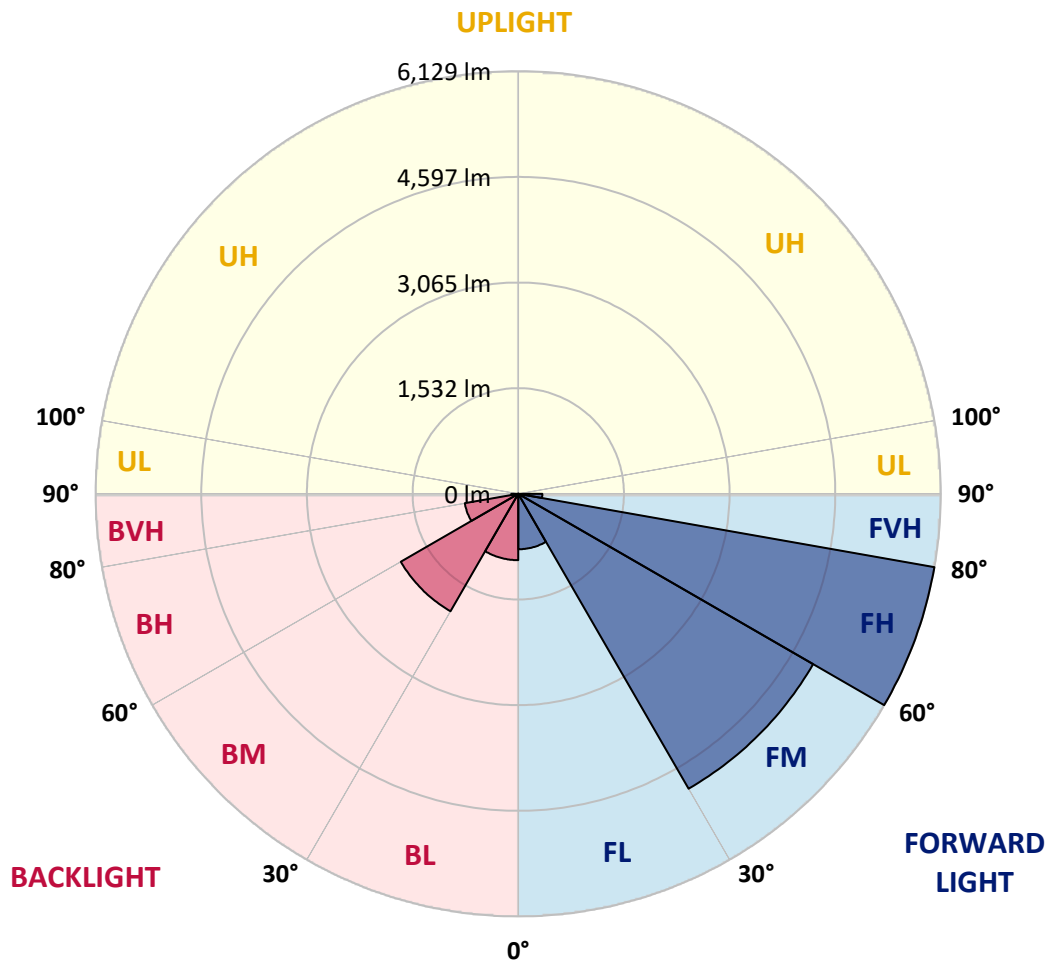


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	804.2	5.0			
FM (30°-60°)	4938.5	30.8			
FH (60°-80°)	6129.1	38.2			G3/7500
FVH (80°-90°)	348.7	2.2			G3/500
BL (0°-30°)	961.8	6.0	B2/1000		
BM (30°-60°)	1966.4	12.3	B2/2500		
BH (60°-80°)	786.8	4.9	B2/1000		G2/1000
BVH (80°-90°)	101.3	0.6			G2/225
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°	35°	36°	45°	55°	65°	75°
0°	2137.0	2137.0	2137.0	2137.0	2137.0	2137.0	2137.0	2137.0	2137.0	2137.0
2.5°	1970.6	1982.7	1987.9	1985.3	1998.3	1996.6	2014.8	2037.3	2068.5	2098.9
5°	1818.9	1831.9	1843.1	1853.5	1878.7	1886.5	1915.1	1958.4	2015.7	2073.8
7.5°	1677.6	1688.8	1706.2	1725.2	1767.7	1775.5	1823.2	1890.8	1970.6	2055.5
10°	1562.2	1573.5	1591.7	1613.4	1666.3	1675.8	1736.5	1826.7	1930.7	2038.2
12.5°	1512.8	1516.3	1526.7	1548.4	1594.3	1600.4	1667.2	1770.3	1891.7	2025.2
15°	1510.2	1517.2	1518.0	1529.3	1567.5	1570.1	1631.6	1733.9	1867.4	2022.6
17.5°	1536.2	1541.4	1533.6	1540.6	1572.7	1577.0	1625.5	1716.6	1859.6	2033.9
20°	1605.6	1609.9	1586.5	1577.0	1600.4	1603.9	1651.5	1727.8	1867.4	2057.3
22.5°	1753.0	1755.6	1698.4	1659.3	1661.1	1662.8	1704.4	1773.8	1897.8	2099.8
25°	1982.7	1981.0	1890.0	1814.5	1771.2	1761.6	1789.4	1848.3	1948.9	2156.1
27.5°	2251.5	2238.5	2147.4	2034.7	1940.2	1926.4	1920.3	1945.4	2021.7	2230.7
30°	2554.9	2542.8	2444.8	2297.4	2166.5	2144.0	2086.8	2073.8	2130.1	2332.1
32.5°	2887.8	2880.0	2763.0	2584.4	2409.3	2383.3	2287.0	2252.3	2296.6	2485.6
35°	3167.0	3160.0	3062.9	2879.2	2665.0	2632.9	2535.0	2496.0	2518.5	2682.4
37.5°	3419.3	3415.8	3332.6	3187.8	2966.7	2927.7	2817.6	2804.6	2800.3	2941.6
40°	3653.3	3644.7	3558.0	3481.7	3317.8	3282.3	3185.2	3173.9	3141.0	3260.6
42.5°	3912.6	3890.0	3764.3	3728.8	3684.5	3655.1	3597.0	3598.7	3525.9	3620.4
45°	4124.1	4111.1	3981.9	3961.1	4008.8	3996.7	4046.9	4059.9	3918.6	3997.5
47.5°	4351.2	4339.1	4229.9	4215.1	4344.3	4347.8	4525.5	4529.8	4301.8	4389.4
50°	4631.3	4613.9	4505.6	4523.8	4668.5	4681.5	5006.7	4977.2	4654.7	4787.3
52.5°	4815.9	4826.3	4802.9	4832.4	5030.1	5042.2	5480.0	5404.6	5004.1	5180.0
55°	4952.0	4972.8	5045.7	5113.3	5411.5	5423.7	5926.5	5811.2	5293.6	5544.2
57.5°	5127.2	5097.7	5233.8	5365.6	5773.9	5806.0	6360.8	6203.0	5550.2	5858.0
60°	5378.6	5357.8	5463.5	5658.6	6179.6	6230.8	6820.3	6555.9	5738.4	6106.8
62.5°	5888.3	5836.3	5852.8	6025.3	6691.1	6758.8	7338.8	6863.7	5832.0	6203.9
65°	6650.4	6561.1	6477.9	6597.5	7411.6	7478.3	7923.9	7105.5	5797.3	6015.8
67.5°	7610.1	7521.7	7419.4	7532.1	8472.7	8525.6	8646.1	7241.7	5524.2	5291.0
70°	8401.6	8368.7	8490.9	8954.8	10167.6	10169.4	9572.0	7129.0	4776.0	3751.3
72.5°	8296.7	8276.8	8920.9	10354.9	12303.8	12257.8	10448.5	6275.9	3217.3	1692.3
75°	6806.4	6935.6	7933.5	10329.7	13071.0	13065.0	9911.9	3989.7	1330.8	701.4
77.5°	3649.9	3854.5	5150.6	7626.6	10204.0	10357.5	6968.6	1395.8	571.3	449.1
80°	1190.3	1368.9	2052.9	3883.1	6630.5	6601.8	2986.7	547.9	391.0	318.2
82.5°	505.4	526.2	917.2	1833.6	3402.8	3349.9	951.0	314.7	274.8	217.6
85°	197.7	221.1	404.9	847.9	1473.8	1441.7	343.3	156.1	176.0	142.2
87.5°	65.0	78.9	144.8	290.4	458.6	442.1	84.1	53.8	76.3	65.0
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°
2137.0	0°	2137.0	2137.0	2137.0	2137.0	2137.0	2137.0	2137.0	2137.0	2137.0	2137.0
2143.1	2.5°	2155.2	2169.1	2185.6	2209.9	2230.7	2248.0	2266.2	2277.5	2281.8	2294.8
2146.6	5°	2170.8	2201.2	2241.9	2281.8	2320.8	2344.2	2365.0	2375.5	2385.0	2391.9
2156.1	7.5°	2196.9	2235.9	2300.0	2352.0	2385.0	2404.1	2417.9	2414.5	2417.9	2419.7
2166.5	10°	2219.4	2274.0	2350.3	2399.7	2424.9	2425.7	2422.3	2410.1	2404.1	2404.9
2182.1	12.5°	2246.3	2307.0	2389.3	2430.9	2437.9	2418.8	2404.1	2383.3	2375.5	2372.0
2205.5	15°	2282.7	2352.0	2431.8	2447.4	2430.1	2405.8	2380.7	2346.8	2329.5	2315.6
2245.4	17.5°	2326.9	2403.2	2464.7	2453.5	2416.2	2376.3	2335.6	2284.4	2248.9	2234.1
2300.0	20°	2388.5	2456.9	2489.9	2440.5	2384.1	2323.4	2254.1	2191.7	2158.7	2144.0
2369.4	22.5°	2463.0	2528.9	2514.2	2417.9	2338.2	2241.1	2154.4	2108.4	2092.0	2081.6
2458.7	25°	2552.3	2608.7	2531.5	2385.0	2262.7	2131.8	2065.1	2050.3	2042.5	2034.7
2567.9	27.5°	2668.5	2698.8	2544.5	2336.4	2144.8	2015.7	1991.4	1994.0	1991.4	1978.4
2719.6	30°	2821.9	2815.9	2556.6	2257.5	2009.6	1910.8	1912.5	1923.8	1925.5	1916.8
2931.2	32.5°	3023.9	2962.4	2562.7	2155.2	1880.4	1818.9	1820.6	1832.7	1841.4	1826.7
3207.7	35°	3268.4	3133.2	2553.2	2026.9	1780.7	1731.3	1718.3	1721.8	1724.4	1710.5
3543.2	37.5°	3553.6	3324.8	2510.7	1884.8	1698.4	1645.5	1617.7	1594.3	1580.5	1567.5
3923.0	40°	3866.6	3533.7	2432.7	1746.0	1606.5	1554.4	1512.8	1468.6	1421.8	1404.5
4325.2	42.5°	4194.3	3748.7	2338.2	1613.4	1500.7	1458.2	1414.0	1349.8	1279.6	1244.1
4743.1	45°	4534.2	3968.9	2245.4	1482.5	1392.3	1374.1	1323.0	1245.8	1169.5	1124.4
5161.8	47.5°	4867.1	4177.0	2109.3	1350.7	1290.9	1310.8	1271.0	1199.9	1114.9	1043.8
5577.1	50°	5185.2	4372.0	1886.5	1217.2	1208.5	1291.8	1253.6	1151.3	1054.2	963.2
5984.6	52.5°	5500.8	4529.8	1601.3	1095.8	1164.3	1286.6	1231.1	1118.4	999.6	904.2
6367.8	55°	5768.7	4611.3	1326.4	991.8	1100.2	1242.3	1204.2	1079.4	922.4	821.0
6630.5	57.5°	5921.3	4545.4	1097.6	889.5	1011.7	1169.5	1158.2	996.1	830.5	752.5
6681.6	60°	5855.4	4278.4	910.3	800.2	927.6	1090.6	1078.5	913.8	760.3	686.6
6407.6	62.5°	5492.1	3769.5	762.1	722.2	851.3	1010.0	998.7	850.5	706.6	635.5
5680.3	65°	4760.4	3066.4	646.7	657.2	774.2	912.9	929.4	797.6	664.1	594.7
4394.6	67.5°	3630.8	2221.1	556.6	600.8	698.8	817.5	865.2	759.5	628.5	562.7
2542.8	70°	2069.4	1261.4	480.3	546.2	632.0	729.1	815.8	729.1	590.4	535.8
952.8	72.5°	784.6	579.1	415.3	491.6	567.9	654.5	761.2	681.4	546.2	505.4
492.4	75°	418.7	352.8	349.4	427.4	494.2	581.7	692.7	634.6	513.2	534.0
340.7	77.5°	285.2	249.7	292.2	365.9	413.5	501.1	619.9	563.5	444.7	443.0
235.8	80°	197.7	176.9	237.5	294.8	319.9	421.3	541.0	483.8	362.4	338.1
145.6	82.5°	118.8	115.3	177.7	220.2	226.3	325.1	448.2	405.7	296.5	258.4
86.7	85°	65.0	68.5	113.6	129.2	131.8	227.1	351.1	313.8	228.0	191.6
31.2	87.5°	18.2	23.4	41.6	51.2	63.3	117.9	208.9	186.4	114.4	79.8
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°
2137.0
2294.0
2393.7
2422.3
2406.7
2370.2
2320.0
2235.0
2142.2
2083.3
2034.7
1981.0
1921.2
1833.6
1720.0
1576.1
1412.3
1248.4
1121.0
1036.0
955.4
893.8
812.3
742.1
676.2
624.2
583.5
552.2
528.8
498.5
551.4
408.3
323.4
260.1
193.3
79.8
0.0

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