

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: P477609

Luminaire Tested: **IFLD-S-SA2E-722-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477609
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-722-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

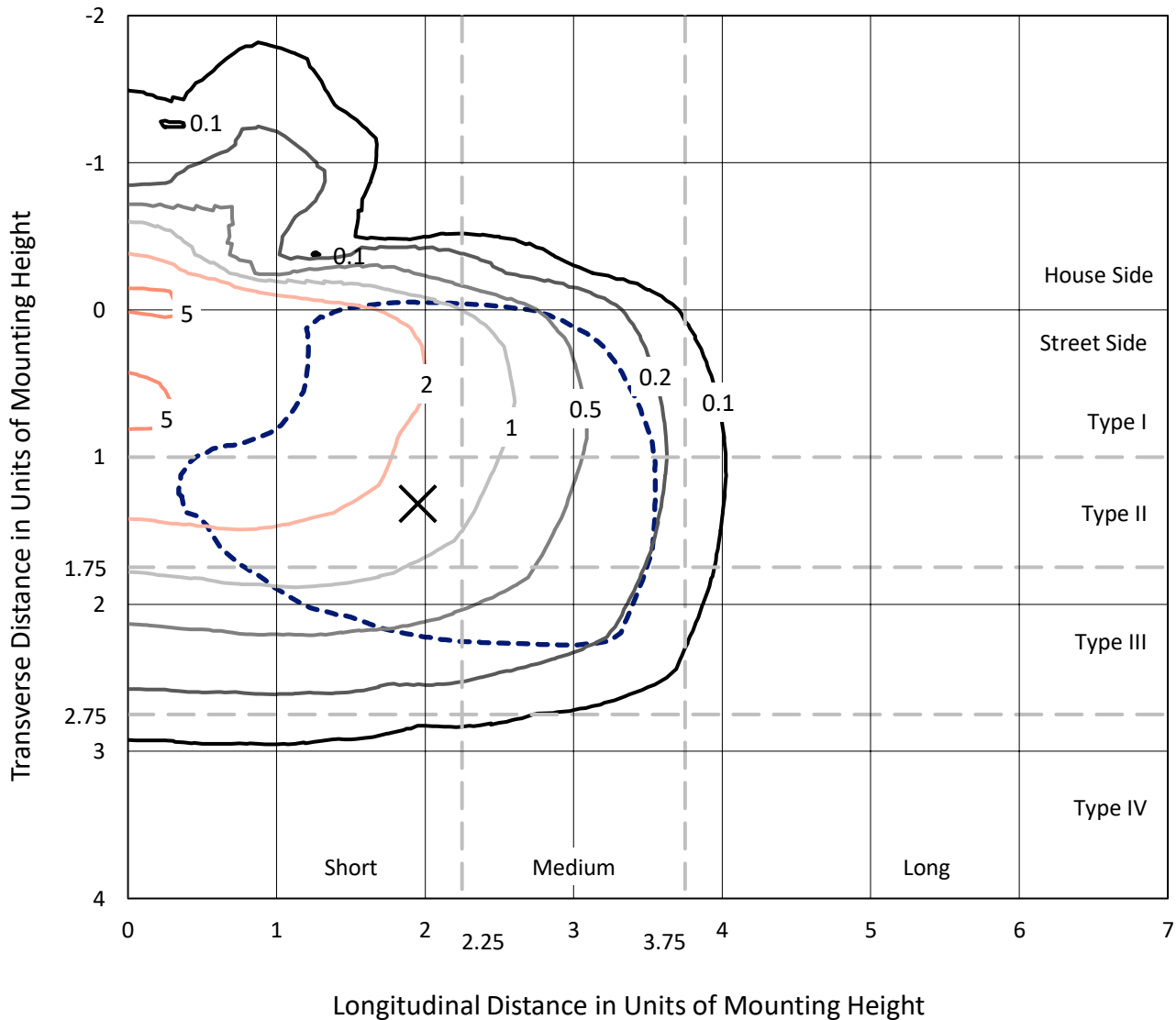
Lumens per Lamp: N/A
Luminaire Lumens: 13096 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 156.2
Input Voltage (V): 120
Input Current (A_{in}): 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

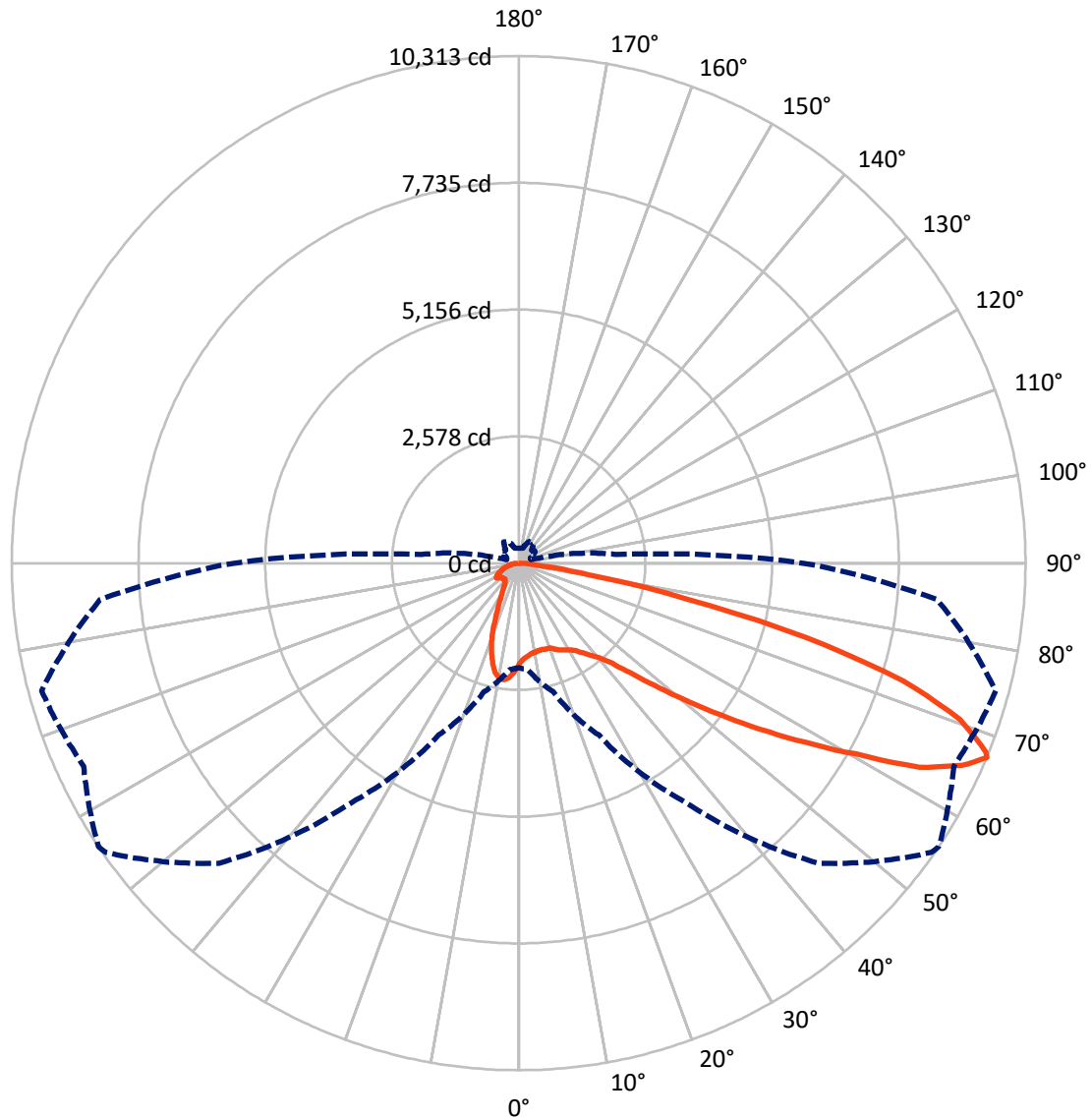
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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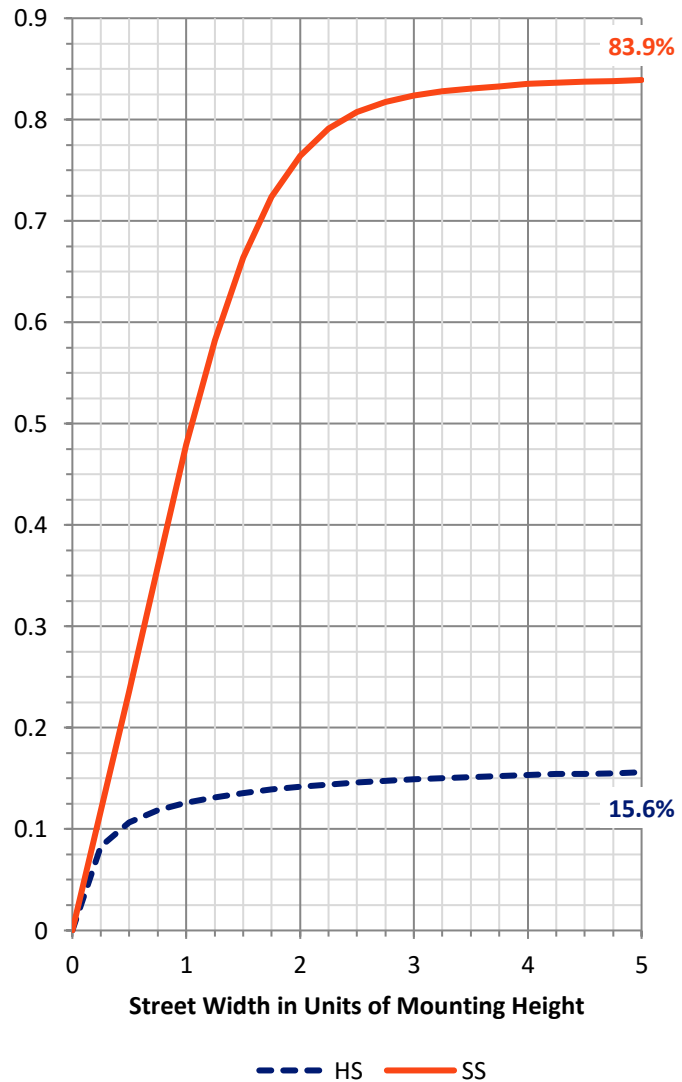
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2073.2	0.0	2073.2
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	11022.8	0.0	11022.8
	% Fixture	84.2	0.0	84.2
Total	Lumens	13096.0	0.0	13096.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.3	1.5
10°-20°	535.5	4.1
20°-30°	839.9	6.4
30°-40°	1199.0	9.2
40°-50°	1809.6	13.8
50°-60°	2880.5	22.0
60°-70°	3682.6	28.1
70°-80°	1795.5	13.7
80°-90°	157.1	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°	13096.0	100.0
0°-180°	13096.0	100.0

Coefficient of Utilization

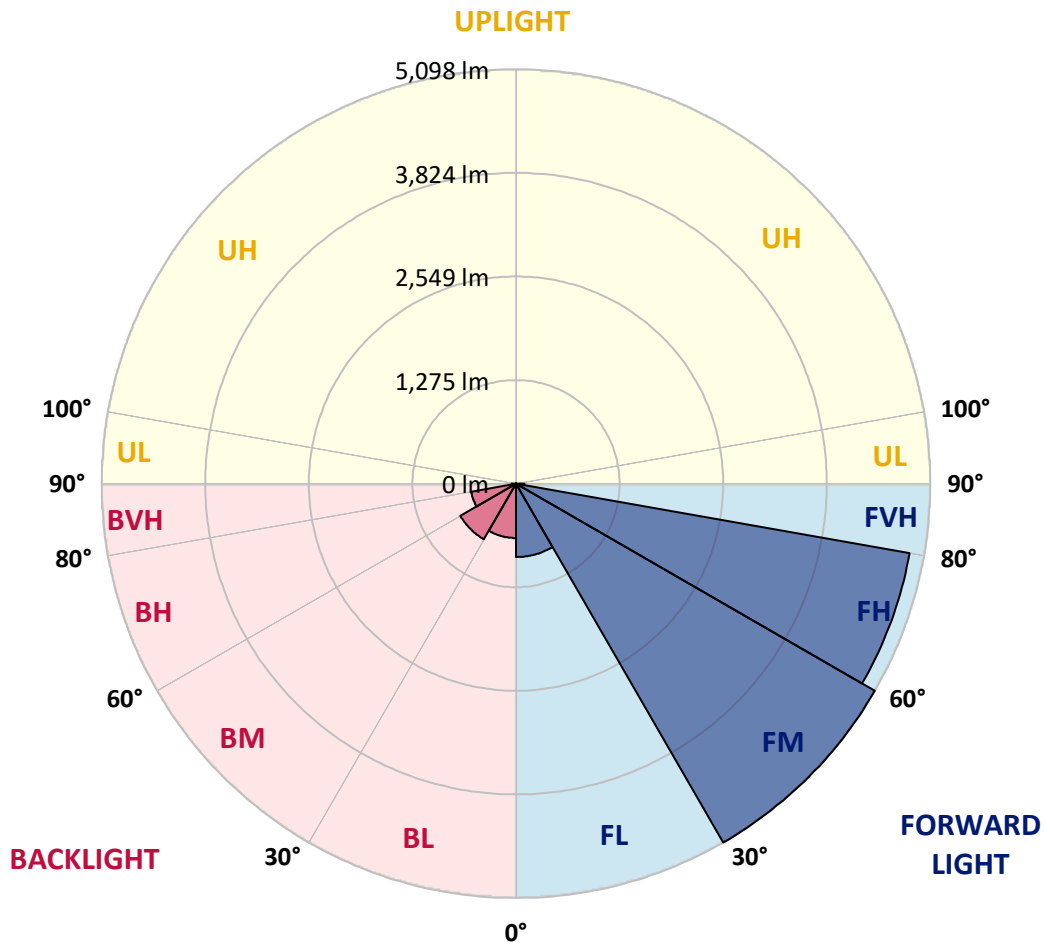


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	902.5	6.9			
FM (30°-60°)	5098.2	38.9			
FH (60°-80°)	4917.8	37.6			G2/5000
FVH (80°-90°)	104.3	0.8			G2/225
BL (0°-30°)	669.3	5.1	B2/1000		
BM (30°-60°)	791.0	6.0	B1/1000		
BH (60°-80°)	560.2	4.3	B2/1000		G2/1000
BVH (80°-90°)	52.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	2037.7	2037.7	2037.7	2037.7	2037.7	2037.7	2037.7	2037.7	2037.7	2037.7
2.5°	1871.9	1864.2	1873.4	1864.2	1905.6	1930.2	1937.9	1948.6	1987.0	2023.9
5°	1793.5	1759.8	1796.6	1808.9	1812.0	1853.4	1896.4	1904.1	1924.1	1984.0
7.5°	1663.0	1701.4	1687.6	1724.4	1762.8	1804.3	1874.9	1855.0	1928.7	1985.5
10°	1635.4	1638.5	1653.8	1667.6	1701.4	1755.2	1853.4	1841.1	1916.4	2037.7
12.5°	1663.0	1663.0	1658.4	1647.7	1686.1	1738.3	1816.6	1822.7	1941.0	2053.1
15°	1759.8	1778.2	1729.0	1736.7	1721.4	1738.3	1807.4	1821.2	1950.2	2065.3
17.5°	1996.2	1990.1	1931.7	1850.4	1782.8	1772.0	1819.6	1835.0	1941.0	2100.7
20°	2226.6	2214.3	2112.9	2028.5	1894.9	1831.9	1839.6	1841.1	1956.3	2123.7
22.5°	2483.0	2515.3	2404.7	2232.7	2066.9	1910.2	1879.5	1904.1	1991.6	2136.0
25°	2885.3	2816.2	2721.0	2495.3	2228.1	2031.6	1945.6	1957.8	2025.4	2166.7
27.5°	3175.6	3147.9	2999.0	2816.2	2453.8	2126.8	1980.9	2003.9	2086.8	2165.2
30°	3455.0	3455.0	3364.4	3091.1	2691.9	2286.5	2056.1	2045.4	2057.7	2162.1
32.5°	3782.1	3737.6	3607.0	3425.9	2991.3	2432.3	2116.0	2119.1	2119.1	2218.9
35°	3954.1	4026.3	3938.7	3643.9	3220.1	2675.0	2260.4	2237.3	2220.4	2281.9
37.5°	4205.9	4248.9	4156.8	3983.3	3504.2	2871.5	2387.8	2369.4	2271.1	2331.0
40°	4357.9	4350.3	4347.2	4267.3	3880.4	3103.4	2575.1	2527.5	2395.5	2504.5
42.5°	4443.9	4428.6	4617.5	4568.3	4235.1	3444.3	2810.1	2784.0	2638.1	2813.2
45°	4540.7	4654.3	4809.4	4947.6	4648.2	3923.4	3207.8	3170.9	3040.4	3263.1
47.5°	4625.1	4764.9	4963.0	5110.4	5021.3	4443.9	3699.2	3708.4	3622.4	3851.2
50°	4766.4	4780.2	5048.9	5346.8	5415.9	4924.6	4359.5	4344.1	4305.7	4626.7
52.5°	4723.4	4764.9	5104.2	5485.0	5598.7	5432.8	5068.9	5115.0	5064.3	5468.2
55°	4023.2	4147.6	5070.4	5630.9	6031.7	6007.1	5981.0	5950.3	5947.3	6414.1
57.5°	3705.3	3806.7	4467.0	5792.2	6495.5	6676.7	6845.6	6879.3	6877.8	7441.4
60°	3496.5	3600.9	4222.8	5704.6	6890.1	7553.5	7877.5	7882.1	7872.9	8539.3
62.5°	3088.0	3189.4	3800.5	5225.5	6999.1	8362.7	9084.4	9144.3	8722.0	9485.2
65°	2596.6	2679.6	3218.6	4493.1	6708.9	8877.1	9991.9	9921.3	9437.6	10025.7
67°	2123.7	2179.0	2704.1	3857.3	5950.3	8629.9	10254.5	10312.9	9767.7	10048.8
67.5°	1988.6	2039.2	2535.2	3640.8	5661.6	8442.6	10263.7	10254.5	9773.9	10053.4
70°	1380.5	1402.0	1727.5	2504.5	4170.6	7132.7	9514.4	9535.9	9363.9	9508.2
72.5°	915.2	947.4	1154.7	1578.6	2458.4	5190.2	7952.7	8183.0	8074.0	7796.1
75°	589.7	608.1	755.5	939.8	1210.0	2956.0	5875.1	6028.6	5778.3	4821.7
77.5°	330.1	350.1	456.1	571.2	589.7	1230.0	3299.9	3490.3	2957.5	2048.4
80°	205.8	231.9	344.0	339.4	281.0	451.5	1360.5	1457.3	1182.4	704.8
82.5°	155.1	175.1	265.7	238.0	158.2	201.2	509.8	546.7	433.0	271.8
85°	106.0	133.6	191.9	147.4	82.9	96.7	202.7	218.1	198.1	132.1
87.5°	38.4	56.8	99.8	73.7	36.9	29.2	66.0	73.7	70.6	59.9
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°
2037.7	0°	2037.7	2037.7	2037.7	2037.7	2037.7	2037.7	2037.7	2037.7	2037.7	2037.7
2056.1	2.5°	2085.3	2106.8	2117.5	2180.5	2206.6	2202.0	2208.1	2217.4	2226.6	2238.9
2082.2	5°	2102.2	2168.2	2203.5	2277.2	2326.4	2304.9	2332.5	2324.9	2314.1	2312.6
2129.8	7.5°	2157.5	2241.9	2347.9	2367.8	2389.3	2335.6	2289.5	2226.6	2211.2	2157.5
2169.8	10°	2255.7	2324.9	2453.8	2461.5	2366.3	2228.1	2125.2	1994.7	1993.2	1914.9
2231.2	12.5°	2349.4	2427.7	2532.2	2487.6	2260.4	2071.5	1904.1	1761.3	1701.4	1661.5
2268.0	15°	2407.8	2536.8	2592.0	2400.1	2074.6	1819.6	1603.1	1449.6	1388.2	1359.0
2314.1	17.5°	2461.5	2641.2	2616.6	2246.5	1845.8	1560.1	1302.2	1168.6	1151.7	1130.2
2387.8	20°	2535.2	2679.6	2529.1	2046.9	1586.2	1225.4	1061.1	996.6	1011.9	1021.2
2395.5	22.5°	2604.3	2699.5	2418.5	1828.9	1253.0	970.5	889.1	902.9	925.9	956.7
2413.9	25°	2635.0	2731.8	2269.6	1527.9	953.6	816.9	798.5	821.5	859.9	861.5
2440.0	27.5°	2655.0	2708.7	2089.9	1234.6	754.0	714.0	741.7	758.6	763.2	781.6
2495.3	30°	2690.3	2661.1	1862.6	883.0	632.7	634.2	669.5	669.5	669.5	683.3
2550.6	32.5°	2751.7	2628.9	1597.0	644.9	545.1	594.3	585.1	582.0	575.8	558.9
2621.2	35°	2790.1	2541.4	1260.7	477.6	489.8	545.1	542.1	494.5	414.6	374.7
2800.9	37.5°	2870.0	2496.8	927.5	368.5	457.6	520.6	503.7	388.5	301.0	262.6
3023.5	40°	3042.0	2467.7	641.9	322.5	436.1	508.3	449.9	331.7	230.3	162.8
3367.5	42.5°	3252.3	2469.2	436.1	304.0	437.6	534.4	433.0	284.1	162.8	130.5
3826.6	45°	3534.9	2446.2	299.4	304.0	465.3	577.4	443.8	258.0	158.2	165.8
4402.5	47.5°	3838.9	2466.1	222.7	276.4	469.9	578.9	405.4	253.4	152.0	191.9
5029.0	50°	4193.6	2486.1	184.3	254.9	471.4	560.5	373.1	247.2	158.2	202.7
5747.6	52.5°	4559.1	2549.0	156.6	241.1	489.8	552.8	373.1	256.4	158.2	176.6
6662.8	55°	5104.2	2710.3	225.7	301.0	557.4	603.5	459.1	359.3	221.1	227.3
7539.6	57.5°	5706.2	2876.1	251.8	316.3	572.8	543.6	494.5	396.2	233.4	234.9
8221.4	60°	6102.3	2882.3	250.3	308.6	535.9	469.9	483.7	417.7	238.0	201.2
8643.7	62.5°	6260.5	2694.9	261.0	308.6	499.1	439.2	496.0	449.9	245.7	251.8
8763.5	65°	6080.9	2308.0	251.8	276.4	439.2	393.1	499.1	456.1	268.7	253.4
8548.5	67°	5799.8	1988.6	256.4	262.6	408.5	373.1	525.2	479.1	311.7	304.0
8436.4	67.5°	5720.0	1904.1	254.9	254.9	397.7	367.0	531.3	479.1	317.9	314.8
7446.0	70°	5041.3	1543.2	261.0	251.8	351.6	348.6	565.1	505.2	365.5	368.5
5469.7	72.5°	3837.4	1170.1	259.5	251.8	305.6	333.2	569.7	522.1	397.7	368.5
3063.5	75°	2180.5	700.2	228.8	219.6	241.1	290.2	532.8	497.5	387.0	330.1
1223.8	77.5°	901.4	360.9	210.4	198.1	199.6	236.5	443.8	463.7	368.5	281.0
408.5	80°	336.3	216.5	168.9	158.2	153.6	173.5	316.3	370.1	314.8	230.3
179.7	82.5°	175.1	135.1	115.2	115.2	104.4	110.6	170.4	245.7	238.0	158.2
72.2	85°	89.1	76.8	66.0	64.5	58.4	52.2	86.0	145.9	136.7	87.5
32.2	87.5°	47.6	43.0	27.6	26.1	21.5	13.8	15.4	29.2	47.6	38.4
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°
2037.7
2251.1
2326.4
2175.9
1911.8
1652.3
1352.8
1140.9
1010.4
939.8
876.8
798.5
698.7
549.7
393.1
261.0
158.2
127.5
168.9
213.4
234.9
181.2
239.5
227.3
207.3
254.9
248.8
299.4
308.6
340.9
327.1
294.8
265.7
210.4
124.4
72.2
27.6
0.0

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