

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: P477903

Luminaire Tested: **IFLD-M-SA4A-827-U-T3R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477903
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-827-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (64) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

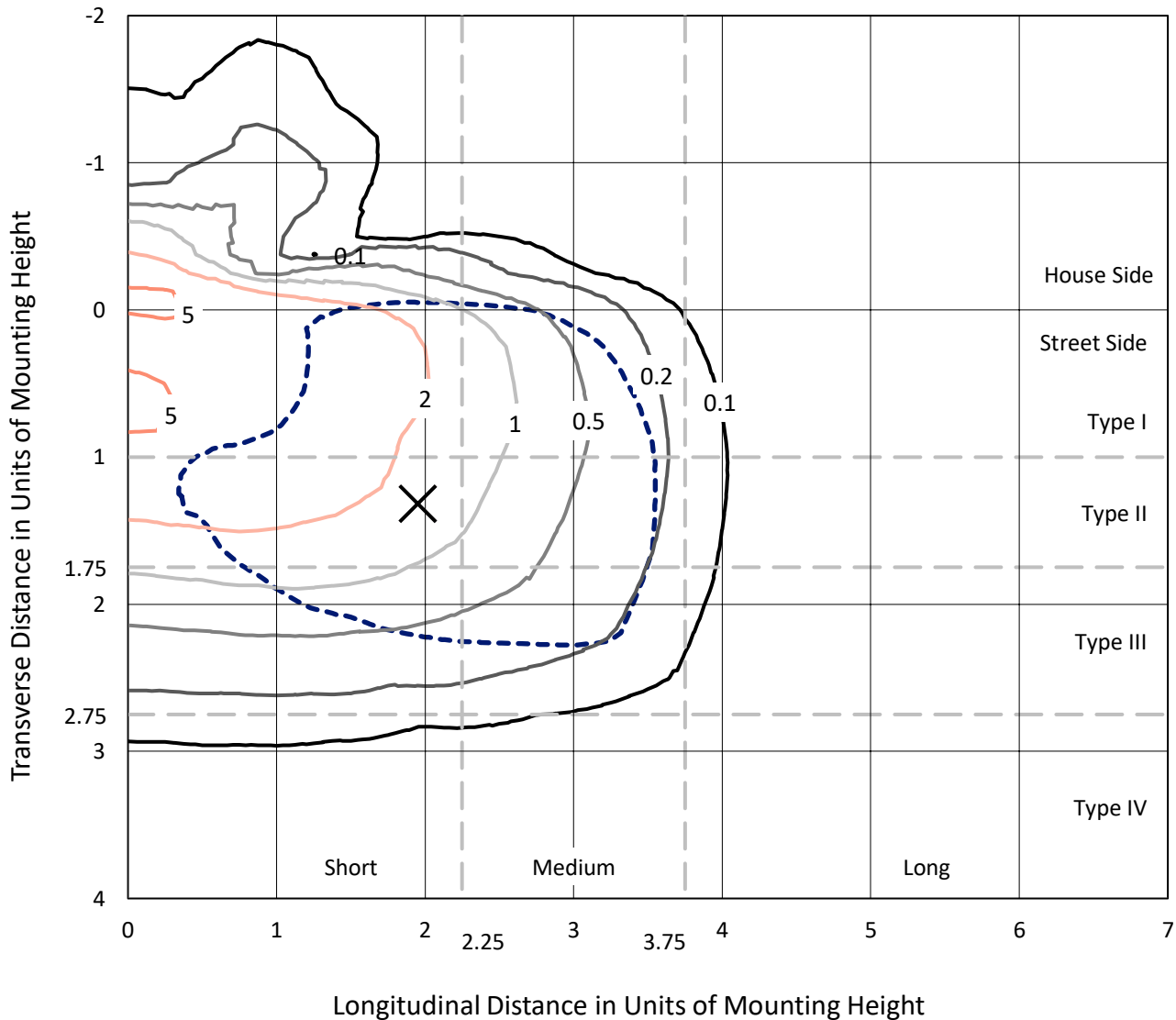
Lumens per Lamp: N/A
Luminaire Lumens: 13335 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 128.6
Input Voltage (V): 120
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

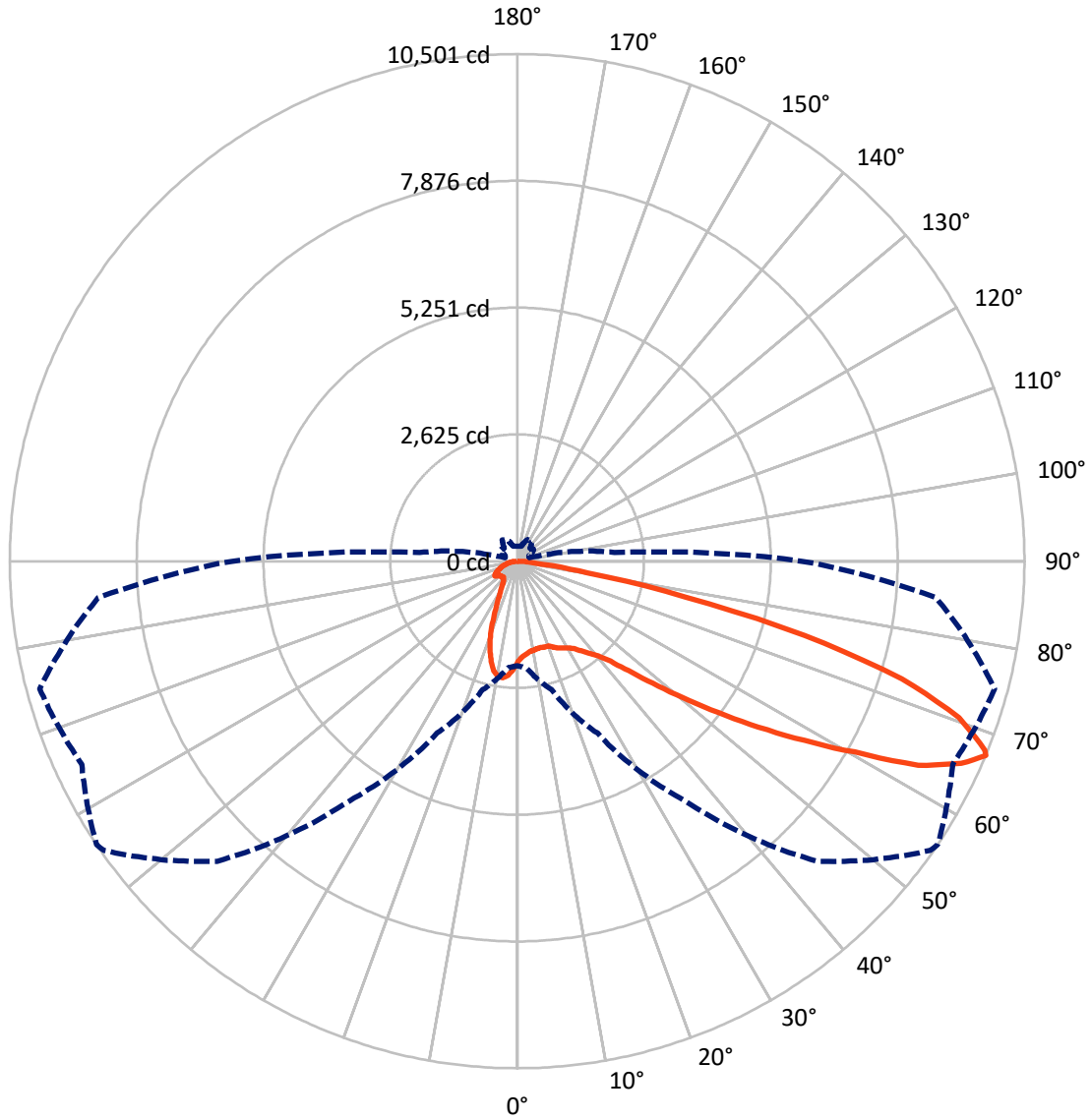
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.8 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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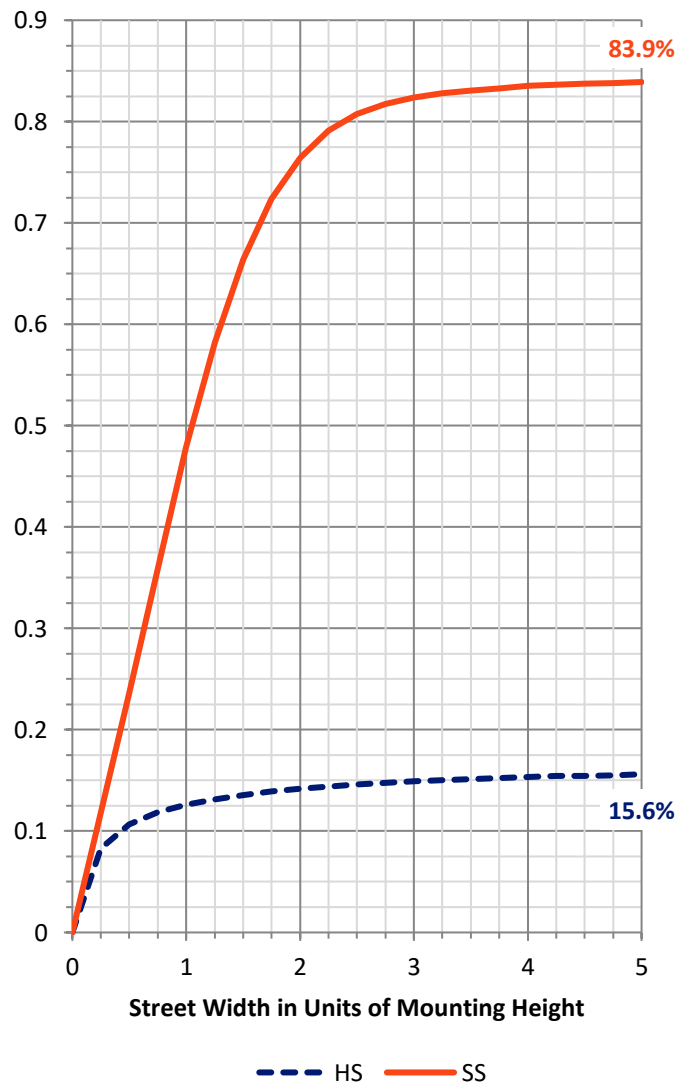
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2111.1	0.0	2111.1
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	11224.0	0.0	11224.0
	% Fixture	84.2	0.0	84.2
Total	Lumens	13335.0	0.0	13335.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.9	1.5
10°-20°	545.3	4.1
20°-30°	855.2	6.4
30°-40°	1220.9	9.2
40°-50°	1842.6	13.8
50°-60°	2933.1	22.0
60°-70°	3749.8	28.1
70°-80°	1828.3	13.7
80°-90°	159.9	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°	13335.0	100.0
0°-180°	13335.0	100.0

Coefficient of Utilization

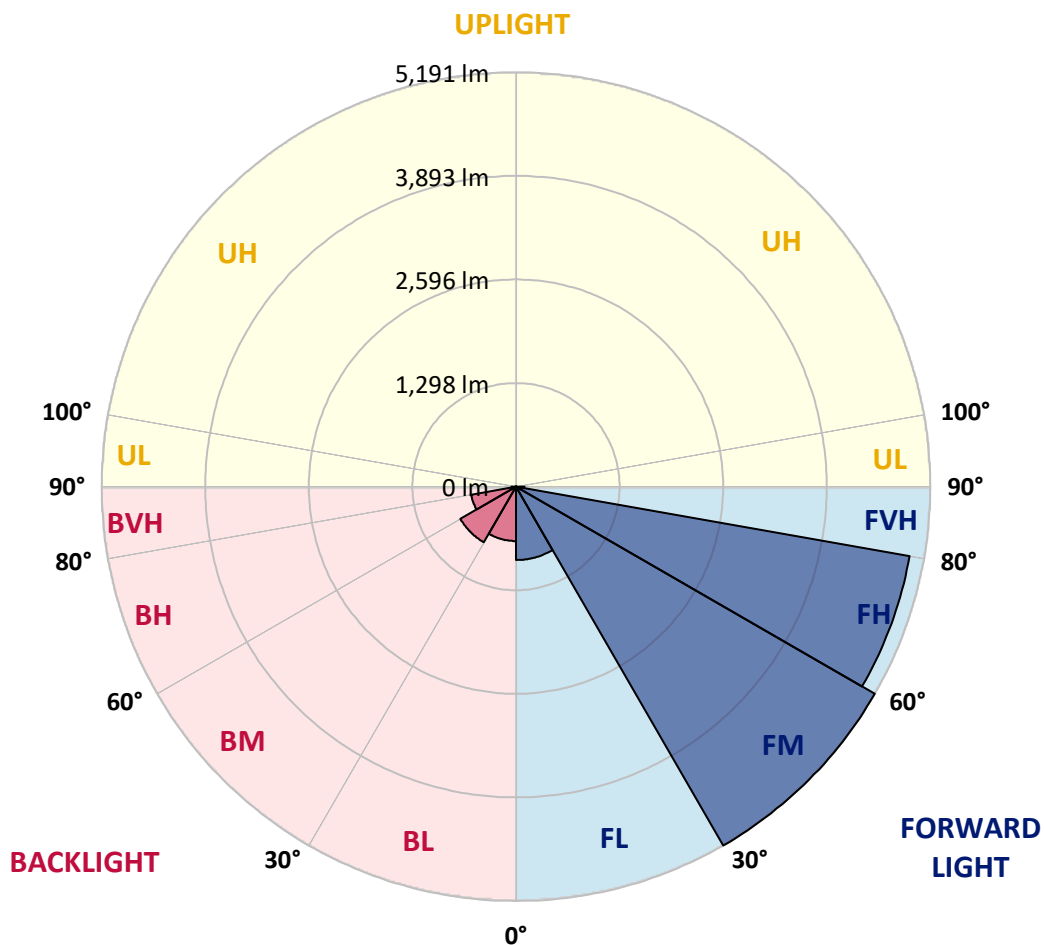


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	918.9	6.9			
FM (30°-60°)	5191.2	38.9			
FH (60°-80°)	5007.6	37.6			G3/7500
FVH (80°-90°)	106.2	0.8			G2/225
BL (0°-30°)	681.5	5.1	B2/1000		
BM (30°-60°)	805.4	6.0	B1/1000		
BH (60°-80°)	570.4	4.3	B2/1000		G2/1000
BVH (80°-90°)	53.7	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-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	2074.9	2074.9	2074.9	2074.9	2074.9	2074.9	2074.9	2074.9	2074.9	2074.9
2.5°	1906.0	1898.2	1907.6	1898.2	1940.4	1965.4	1973.3	1984.2	2023.3	2060.8
5°	1826.3	1791.9	1829.4	1841.9	1845.0	1887.3	1931.0	1938.9	1959.2	2020.2
7.5°	1693.4	1732.5	1718.4	1755.9	1795.0	1837.2	1909.2	1888.8	1963.9	2021.7
10°	1665.2	1668.4	1684.0	1698.1	1732.5	1787.2	1887.3	1874.8	1951.4	2074.9
12.5°	1693.4	1693.4	1688.7	1677.7	1716.8	1770.0	1849.7	1856.0	1976.4	2090.5
15°	1791.9	1810.6	1760.6	1768.4	1752.8	1770.0	1840.4	1854.4	1985.8	2103.0
17.5°	2032.7	2026.4	1967.0	1884.1	1815.3	1804.4	1852.9	1868.5	1976.4	2139.0
20°	2267.2	2254.7	2151.5	2065.5	1929.5	1865.4	1873.2	1874.8	1992.0	2162.5
22.5°	2528.3	2561.2	2448.6	2273.5	2104.6	1945.1	1913.8	1938.9	2028.0	2175.0
25°	2938.0	2867.6	2770.7	2540.8	2268.8	2068.6	1981.1	1993.6	2062.4	2206.2
27.5°	3233.5	3205.4	3053.7	2867.6	2498.6	2165.6	2017.0	2040.5	2124.9	2204.7
30°	3518.1	3518.1	3425.8	3147.5	2741.0	2328.2	2093.7	2082.7	2095.2	2201.5
32.5°	3851.1	3805.8	3672.9	3488.4	3045.9	2476.7	2154.6	2157.8	2157.8	2259.4
35°	4026.3	4099.8	4010.6	3710.4	3278.9	2723.8	2301.6	2278.2	2261.0	2323.5
37.5°	4282.7	4326.5	4232.7	4056.0	3568.1	2923.9	2431.4	2412.6	2312.6	2373.5
40°	4437.5	4429.7	4426.5	4345.2	3951.2	3160.0	2622.2	2573.7	2439.2	2550.2
42.5°	4525.1	4509.4	4701.7	4651.7	4312.4	3507.2	2861.4	2834.8	2686.3	2864.5
45°	4623.6	4739.3	4897.2	5037.9	4733.0	3995.0	3266.4	3228.8	3095.9	3322.6
47.5°	4709.6	4851.8	5053.6	5203.7	5113.0	4525.1	3766.7	3776.1	3688.5	3921.5
50°	4853.4	4867.5	5141.1	5444.5	5514.8	5014.5	4439.1	4423.4	4384.3	4711.1
52.5°	4809.6	4851.8	5197.4	5585.2	5700.9	5532.0	5161.4	5208.3	5156.8	5568.0
55°	4096.6	4223.3	5163.0	5733.7	6141.8	6116.8	6090.2	6058.9	6055.8	6531.2
57.5°	3773.0	3876.2	4548.5	5897.9	6614.0	6798.5	6970.5	7004.9	7003.4	7577.2
60°	3560.3	3666.6	4299.9	5808.8	7015.9	7691.3	8021.3	8026.0	8016.6	8695.2
62.5°	3144.4	3247.6	3869.9	5320.9	7126.9	8515.4	9250.3	9311.2	8881.2	9658.4
65°	2644.0	2728.5	3277.3	4575.1	6831.4	9039.2	10174.3	10102.4	9609.9	10208.7
67°	2162.5	2218.7	2753.5	3927.8	6058.9	8787.4	10441.7	10501.1	9946.1	10232.2
67.5°	2024.9	2076.5	2581.5	3707.3	5765.0	8596.7	10451.1	10441.7	9952.3	10236.9
70°	1405.7	1427.6	1759.0	2550.2	4246.7	7262.9	9688.1	9710.0	9534.8	9681.8
72.5°	931.9	964.7	1175.8	1607.4	2503.3	5285.0	8097.9	8332.4	8221.4	7938.4
75°	600.4	619.2	769.3	956.9	1232.1	3009.9	5982.3	6138.7	5883.8	4909.7
77.5°	336.2	356.5	464.4	581.7	600.4	1252.4	3360.2	3554.1	3011.5	2085.8
80°	209.5	236.1	350.2	345.6	286.1	459.7	1385.3	1483.9	1204.0	717.7
82.5°	157.9	178.3	270.5	242.4	161.1	204.8	519.1	556.6	440.9	276.8
85°	107.9	136.0	195.4	150.1	84.4	98.5	206.4	222.0	201.7	134.5
87.5°	39.1	57.9	101.6	75.1	37.5	29.7	67.2	75.1	71.9	61.0
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°
2074.9	0°	2074.9	2074.9	2074.9	2074.9	2074.9	2074.9	2074.9	2074.9	2074.9	2074.9
2093.7	2.5°	2123.4	2145.3	2156.2	2220.3	2246.9	2242.2	2248.5	2257.8	2267.2	2279.7
2120.2	5°	2140.6	2207.8	2243.8	2318.8	2368.9	2347.0	2375.1	2367.3	2356.3	2354.8
2168.7	7.5°	2196.9	2282.9	2390.7	2411.1	2433.0	2378.2	2331.3	2267.2	2251.6	2196.9
2209.4	10°	2296.9	2367.3	2498.6	2506.4	2409.5	2268.8	2164.0	2031.1	2029.6	1949.8
2271.9	12.5°	2392.3	2472.1	2578.4	2533.0	2301.6	2109.3	1938.9	1793.4	1732.5	1691.8
2309.4	15°	2451.7	2583.1	2639.4	2443.9	2112.4	1852.9	1632.4	1476.0	1413.5	1383.8
2356.3	17.5°	2506.4	2689.4	2664.4	2287.5	1879.4	1588.6	1325.9	1189.9	1172.7	1150.8
2431.4	20°	2581.5	2728.5	2575.2	2084.3	1615.2	1247.8	1080.4	1014.8	1030.4	1039.8
2439.2	22.5°	2651.9	2748.8	2462.7	1862.2	1275.9	988.2	905.3	919.4	942.9	974.1
2458.0	25°	2683.1	2781.6	2311.0	1555.8	971.0	831.8	813.1	836.5	875.6	877.2
2484.6	27.5°	2703.5	2758.2	2128.1	1257.1	767.7	727.1	755.2	772.4	777.1	795.9
2540.8	30°	2739.4	2709.7	1896.6	899.1	644.2	645.8	681.7	681.7	681.7	695.8
2597.1	32.5°	2802.0	2676.9	1626.1	656.7	555.1	605.1	595.7	592.6	586.3	569.2
2669.1	35°	2841.1	2587.8	1283.7	486.3	498.8	555.1	552.0	503.5	422.2	381.5
2852.0	37.5°	2922.4	2542.4	944.4	375.3	466.0	530.1	512.9	395.6	306.5	267.4
3078.7	40°	3097.5	2512.7	653.6	328.4	444.1	517.6	458.1	337.7	234.5	165.7
3429.0	42.5°	3311.7	2514.3	444.1	309.6	445.6	544.1	440.9	289.3	165.7	132.9
3896.5	45°	3599.4	2490.8	304.9	309.6	473.8	587.9	451.9	262.7	161.1	168.9
4482.8	47.5°	3909.0	2511.1	226.7	281.4	478.5	589.5	412.8	258.0	154.8	195.4
5120.8	50°	4270.2	2531.5	187.6	259.6	480.0	570.7	380.0	251.7	161.1	206.4
5852.6	52.5°	4642.3	2595.6	159.5	245.5	498.8	562.9	380.0	261.1	161.1	179.8
6784.5	55°	5197.4	2759.8	229.8	306.5	567.6	614.5	467.5	365.9	225.2	231.4
7677.3	57.5°	5810.3	2928.6	256.4	322.1	583.2	553.5	503.5	403.4	237.7	239.2
8371.5	60°	6213.7	2934.9	254.9	314.3	545.7	478.5	492.5	425.3	242.4	204.8
8801.5	62.5°	6374.8	2744.1	265.8	314.3	508.2	447.2	505.0	458.1	250.2	256.4
8923.5	65°	6191.9	2350.1	256.4	281.4	447.2	400.3	508.2	464.4	273.6	258.0
8704.6	67°	5905.7	2024.9	261.1	267.4	415.9	380.0	534.8	487.8	317.4	309.6
8590.4	67.5°	5824.4	1938.9	259.6	259.6	405.0	373.7	541.0	487.8	323.7	320.5
7581.9	70°	5133.3	1571.4	265.8	256.4	358.1	354.9	575.4	514.4	372.1	375.3
5569.5	72.5°	3907.4	1191.5	264.2	256.4	311.2	339.3	580.1	531.6	405.0	375.3
3119.4	75°	2220.3	713.0	233.0	223.6	245.5	295.5	542.6	506.6	394.0	336.2
1246.2	77.5°	917.8	367.4	214.2	201.7	203.3	240.8	451.9	472.2	375.3	286.1
415.9	80°	342.4	220.5	172.0	161.1	156.4	176.7	322.1	376.8	320.5	234.5
182.9	82.5°	178.3	137.6	117.3	117.3	106.3	112.6	173.6	250.2	242.4	161.1
73.5	85°	90.7	78.2	67.2	65.7	59.4	53.2	87.6	148.5	139.2	89.1
32.8	87.5°	48.5	43.8	28.1	26.6	21.9	14.1	15.6	29.7	48.5	39.1
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>
2074.9
2292.2
2368.9
2215.6
1946.7
1682.4
1377.5
1161.8
1028.8
956.9
892.8
813.1
711.4
559.8
400.3
265.8
161.1
129.8
172.0
217.3
239.2
184.5
243.9
231.4
211.1
259.6
253.3
304.9
314.3
347.1
333.0
300.2
270.5
214.2
126.7
73.5
28.1
0.0

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