

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: P477408

Luminaire Tested: **IFLD-L-SA8C-740-U-T3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477408
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-740-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3 distribution lens
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

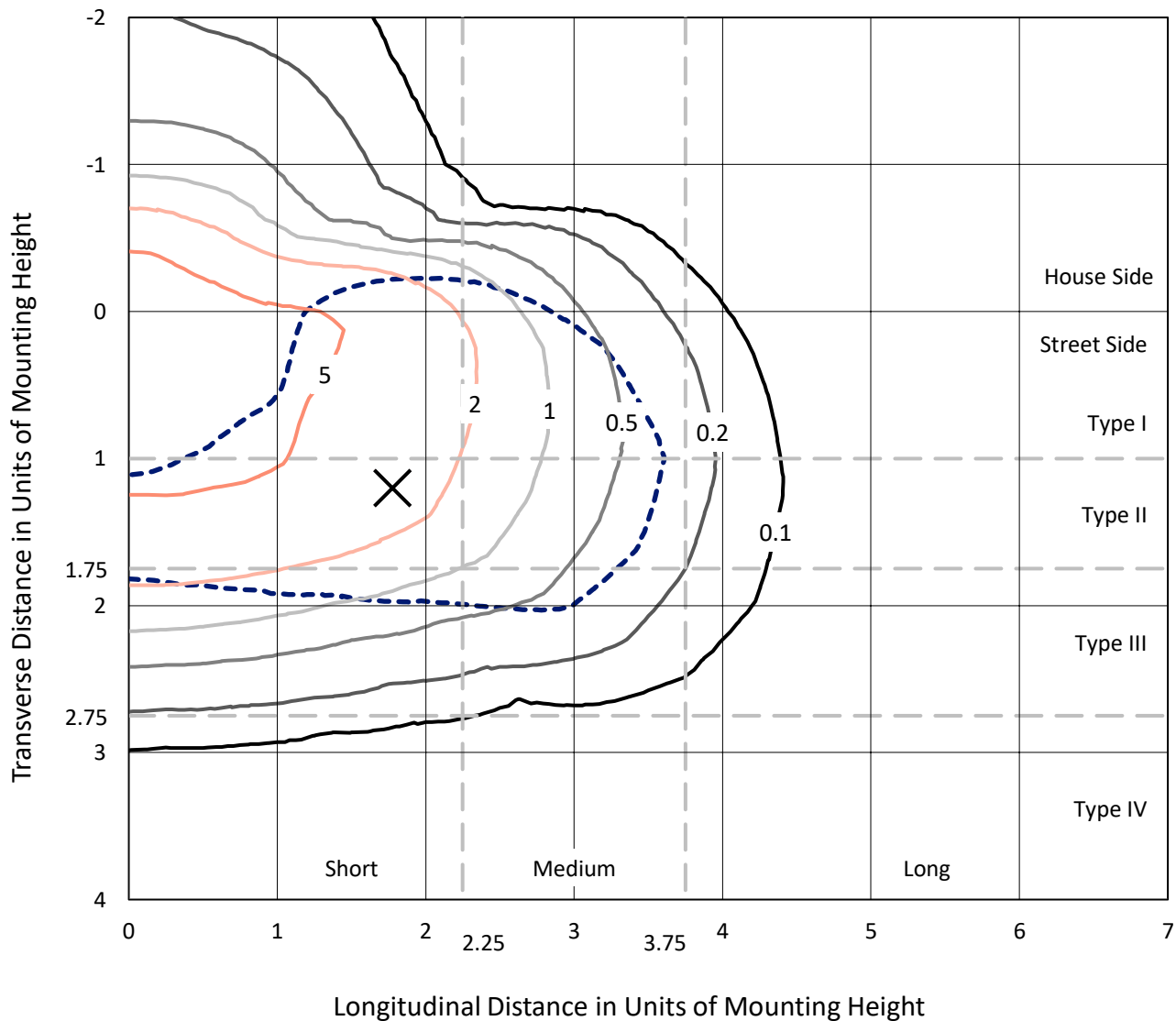
Lumens per Lamp: N/A
Luminaire Lumens: 51602.3 lumens
Efficiency: N/A
Efficacy: 122.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 420.3
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

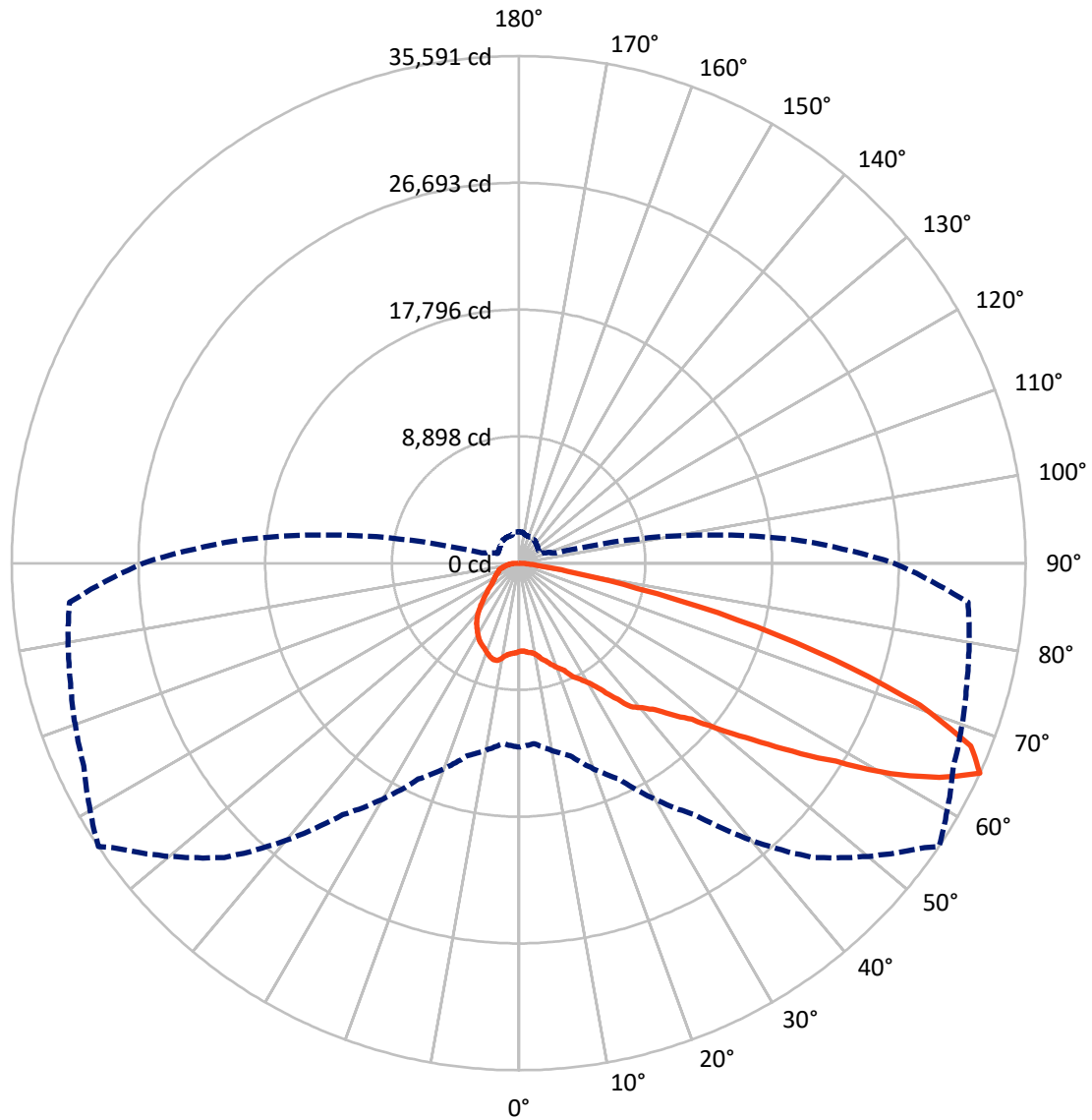
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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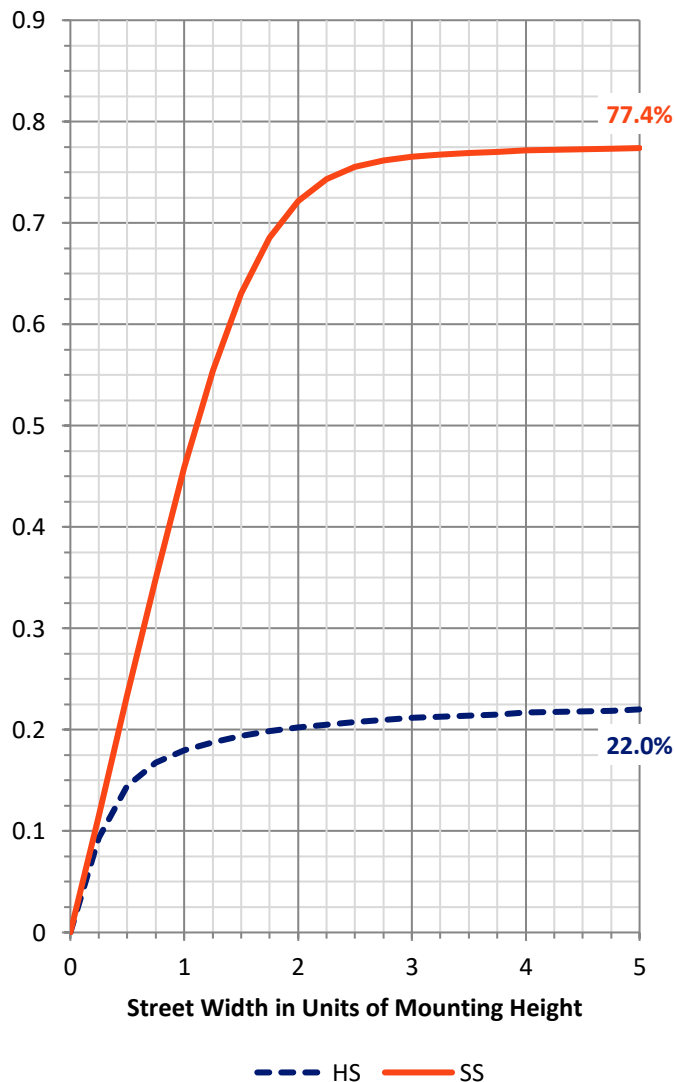
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11572.8	0.0	11572.8
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	40029.6	0.0	40029.6
	% Fixture	77.6	0.0	77.6
Total	Lumens	51602.3	0.0	51602.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	613.8	1.2
10°-20°	1993.0	3.9
20°-30°	3548.7	6.9
30°-40°	5314.1	10.3
40°-50°	7873.5	15.3
50°-60°	12131.9	23.5
60°-70°	13734.8	26.6
70°-80°	5700.1	11.0
80°-90°	692.5	1.3
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°	51602.3	100.0
0°-180°	51602.3	100.0

Coefficient of Utilization



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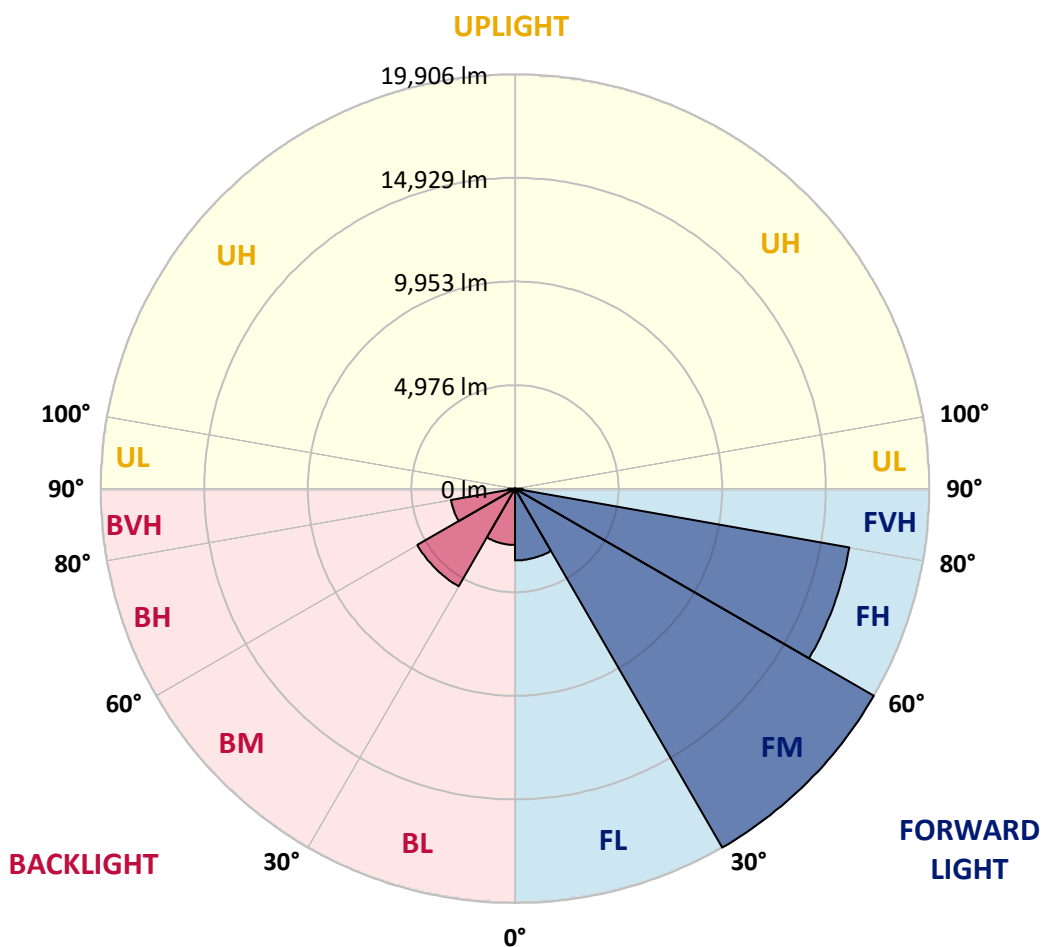
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3448.5	6.7			
FM (30°-60°)	19905.9	38.6			
FH (60°-80°)	16309.9	31.6			G5
FVH (80°-90°)	365.3	0.7			G3/500
BL (0°-30°)	2707.0	5.2	B4/5000		
BM (30°-60°)	5413.5	10.5	B4/8500		
BH (60°-80°)	3125.0	6.1	B4/5000		G4/5000
BVH (80°-90°)	327.2	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	6193.7	6193.7	6193.7	6193.7	6193.7	6193.7	6193.7	6193.7	6193.7	6193.7
2.5°	6031.7	6064.1	6042.5	6107.3	6161.3	6161.3	6204.5	6172.1	6215.3	6274.7
5°	6231.5	6101.9	6172.1	6204.5	6188.3	6215.3	6172.1	6280.1	6209.9	6323.3
7.5°	6280.1	6328.7	6388.1	6334.1	6382.7	6355.7	6361.1	6344.9	6307.1	6398.9
10°	6636.5	6566.3	6701.3	6620.3	6609.5	6598.7	6577.1	6496.1	6587.9	6593.3
12.5°	7046.9	6982.1	6976.7	6911.9	6998.3	6841.7	6874.1	6830.9	6847.1	6868.7
15°	7343.9	7316.9	7441.1	7365.5	7252.1	7181.9	7257.5	7138.7	7198.1	7187.3
17.5°	7932.5	7927.1	7835.3	7711.1	7646.3	7543.7	7527.5	7478.9	7522.1	7500.5
20°	8342.9	8402.3	8418.5	8272.7	8024.3	7910.9	7883.9	7846.1	7894.7	7878.5
22.5°	8969.3	8877.5	8947.7	8693.9	8602.1	8332.1	8234.9	8180.9	8413.1	8353.7
25°	9368.9	9466.1	9395.9	9309.5	9104.3	8769.5	8699.3	8818.1	8909.9	8845.1
27.5°	10270.7	10173.5	10108.7	9849.5	9714.5	9363.5	9282.5	9239.3	9260.9	9298.7
30°	10956.5	11010.5	10864.7	10681.1	10340.9	9984.5	9795.5	9757.7	9682.1	9617.3
32.5°	11933.9	11852.9	11766.5	11647.7	11356.1	10886.3	10702.7	10562.3	10335.5	10033.1
35°	12403.7	12635.9	12571.1	12252.5	12031.1	11852.9	11798.9	11582.9	11393.9	10918.7
37.5°	13186.7	13283.9	13192.1	13089.5	12986.9	12797.9	12733.1	12792.5	12419.9	11636.9
40°	13694.3	13899.5	14088.5	13802.3	13780.7	13818.5	13418.9	13348.7	12581.9	12171.5
42.5°	14731.1	14817.5	14855.3	14844.5	14968.7	14968.7	14207.3	14056.1	13510.7	13175.9
45°	16102.7	16172.9	16307.9	16405.1	16264.7	16334.9	15249.5	15190.1	14704.1	14639.3
47.5°	17290.7	17458.1	17760.4	18046.6	18230.2	17992.6	16804.7	16383.5	16259.3	16648.1
50°	18327.4	18127.6	18835.0	19126.6	19931.2	20325.4	18521.8	18354.4	18154.6	18899.8
52.5°	18430.0	18700.0	19699.0	20282.2	21940.0	22669.0	20627.8	20557.6	20314.6	21173.2
55°	19164.4	19132.0	20136.4	21400.0	23371.0	24596.8	23371.0	23327.8	22798.6	23614.0
57.5°	19040.2	19369.6	20163.4	21929.2	24661.6	26665.0	26551.6	26254.6	25514.8	26179.0
60°	18619.0	18705.4	19672.0	21913.0	25412.2	28787.2	29985.9	30045.3	28533.4	29062.6
62.5°	16232.3	16432.1	17657.9	20190.4	24877.6	30250.5	33339.3	33128.7	31919.1	31314.3
65°	12911.3	12711.5	13985.9	16723.7	21551.2	29213.8	34808.1	35591.1	33690.3	32583.3
67.5°	7916.3	7867.7	9093.5	11507.3	16124.3	24861.4	33636.3	34246.5	33198.9	32313.3
70°	4077.0	3952.8	4719.6	6420.5	10135.7	18241.0	29273.2	29872.5	30871.5	28981.6
72.5°	1900.8	1873.8	2284.2	3159.0	5162.4	10724.3	22669.0	23101.0	25207.0	24434.8
75°	1117.8	1134.0	1366.2	1652.4	2516.4	5054.4	15044.3	15881.3	18165.4	17609.3
77.5°	837.0	837.0	972.0	1150.2	1468.8	1954.8	7424.9	8531.9	10621.7	9552.5
80°	615.6	626.4	745.2	864.0	1020.6	1009.8	2948.4	3456.0	4870.8	4163.4
82.5°	480.6	496.8	577.8	642.6	718.2	610.2	1209.6	1301.4	2003.4	1593.0
85°	334.8	345.6	453.6	437.4	437.4	340.2	502.2	529.2	793.8	756.0
87.5°	81.0	91.8	221.4	243.0	183.6	102.6	156.6	178.2	286.2	329.4
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°
6193.7	0°	6193.7	6193.7	6193.7	6193.7	6193.7	6193.7	6193.7	6193.7	6193.7	6193.7
6301.7	2.5°	6220.7	6242.3	6334.1	6285.5	6312.5	6199.1	6290.9	6215.3	6280.1	6247.7
6350.3	5°	6393.5	6344.9	6398.9	6361.1	6361.1	6404.3	6469.1	6420.5	6517.7	6474.5
6388.1	7.5°	6463.7	6469.1	6501.5	6506.9	6479.9	6614.9	6620.3	6604.1	6695.9	6674.3
6647.3	10°	6636.5	6641.9	6701.3	6733.7	6706.7	6755.3	6701.3	6658.1	6652.7	6631.1
6852.5	12.5°	6911.9	6965.9	6955.1	6982.1	6987.5	6782.3	6658.1	6447.5	6420.5	6447.5
7154.9	15°	7165.7	7144.1	7154.9	7208.9	6982.1	6652.7	6431.3	6253.1	6263.9	6269.3
7549.1	17.5°	7468.1	7484.3	7500.5	7252.1	6836.3	6447.5	6253.1	6253.1	6199.1	6220.7
7824.5	20°	7813.7	7748.9	7608.5	7257.5	6582.5	6209.9	6150.5	6150.5	6085.7	6042.5
8121.5	22.5°	8083.7	7954.1	7743.5	7090.1	6355.7	6118.1	5972.3	5869.8	5794.2	5707.8
8450.9	25°	8256.5	8186.3	7775.9	6917.3	6188.3	5875.2	5659.2	5502.6	5405.4	5292.0
8710.1	27.5°	8521.1	8386.1	7867.7	6717.5	6004.7	5632.2	5297.4	5054.4	4870.8	4752.0
9104.3	30°	8877.5	8683.1	7802.9	6431.3	5724.0	5211.0	4816.8	4503.6	4293.0	4195.8
9476.9	32.5°	9169.1	8915.3	7748.9	6172.1	5410.8	4784.4	4260.6	3942.0	3823.2	3699.0
10103.3	35°	9725.3	9223.1	7711.1	6026.3	5130.0	4357.8	3807.0	3531.6	3380.4	3196.8
10475.9	37.5°	10151.9	9757.7	7619.3	5724.0	4768.2	3942.0	3461.4	3213.0	2986.2	2791.8
11339.9	40°	10821.5	10502.9	7624.7	5297.4	4341.6	3585.6	3191.4	2932.2	2646.0	2478.6
12619.7	42.5°	12079.7	11237.3	7657.1	4957.2	3861.0	3294.0	2948.4	2640.6	2354.4	2214.0
14077.7	45°	13624.1	12247.1	7457.3	4649.4	3369.6	3018.6	2656.8	2349.0	2165.4	2062.8
16059.5	47.5°	15400.7	13235.3	7187.3	4071.6	2959.2	2727.0	2386.8	2208.6	2073.6	2014.2
18613.6	50°	17387.9	14650.1	7111.7	3542.4	2640.6	2478.6	2257.2	2122.2	2030.4	1960.2
21491.8	52.5°	19947.4	16297.1	6960.5	2997.0	2365.2	2278.8	2208.6	2116.8	2035.8	1976.4
24175.6	55°	22393.6	18122.2	6798.5	2548.8	2170.8	2181.6	2219.4	2138.4	2068.2	1976.4
27183.4	57.5°	25147.6	19985.2	6199.1	2219.4	2025.0	2133.0	2208.6	2116.8	2046.6	1976.4
30261.3	60°	26848.6	21032.8	5027.4	1933.2	1895.4	2041.2	2143.8	2046.6	1971.0	1998.0
31676.1	62.5°	27539.8	20482.0	3790.8	1755.0	1803.6	1917.0	2041.2	2003.4	1949.4	2052.0
31659.9	65°	26362.6	19213.0	2710.8	1603.8	1679.4	1792.8	1949.4	1992.6	2008.8	2208.6
29078.8	67.5°	23457.4	16729.1	1992.6	1479.6	1549.8	1717.2	2014.2	2084.4	2073.6	2322.0
24402.4	70°	18770.2	13084.1	1555.2	1377.0	1501.2	1776.6	2106.0	2106.0	2030.4	2322.0
18613.6	72.5°	13656.5	9223.1	1339.2	1258.2	1377.0	1630.8	2095.2	2089.8	1992.6	2122.2
11852.9	75°	8267.3	5367.6	1182.6	1139.4	1182.6	1398.6	2003.4	1971.0	1836.0	1825.2
5702.4	77.5°	4120.2	2700.0	966.6	1009.8	1031.4	1171.8	1760.4	1809.0	1625.4	1582.2
2251.8	80°	1738.8	1177.2	804.6	869.4	869.4	988.2	1463.4	1495.8	1350.0	1269.0
891.0	82.5°	793.8	675.0	685.8	756.0	707.4	766.8	1161.0	1198.8	1096.2	961.2
378.0	85°	334.8	383.4	523.8	594.0	523.8	496.8	799.2	842.4	712.8	594.0
162.0	87.5°	151.2	210.6	329.4	432.0	264.6	232.2	426.6	442.8	356.4	264.6
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>
6193.7
6188.3
6415.1
6641.9
6631.1
6458.3
6344.9
6226.1
5977.7
5659.2
5313.6
4806.0
4249.8
3693.6
3180.6
2797.2
2494.8
2224.8
2084.4
2003.4
1971.0
1971.0
1971.0
1971.0
1976.4
2025.0
2208.6
2338.2
2273.4
2046.6
1803.6
1555.2
1242.0
939.6
599.4
248.4
0.0

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