

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: P477629

Luminaire Tested: **IFLD-S-SA6E-722-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477629
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-722-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

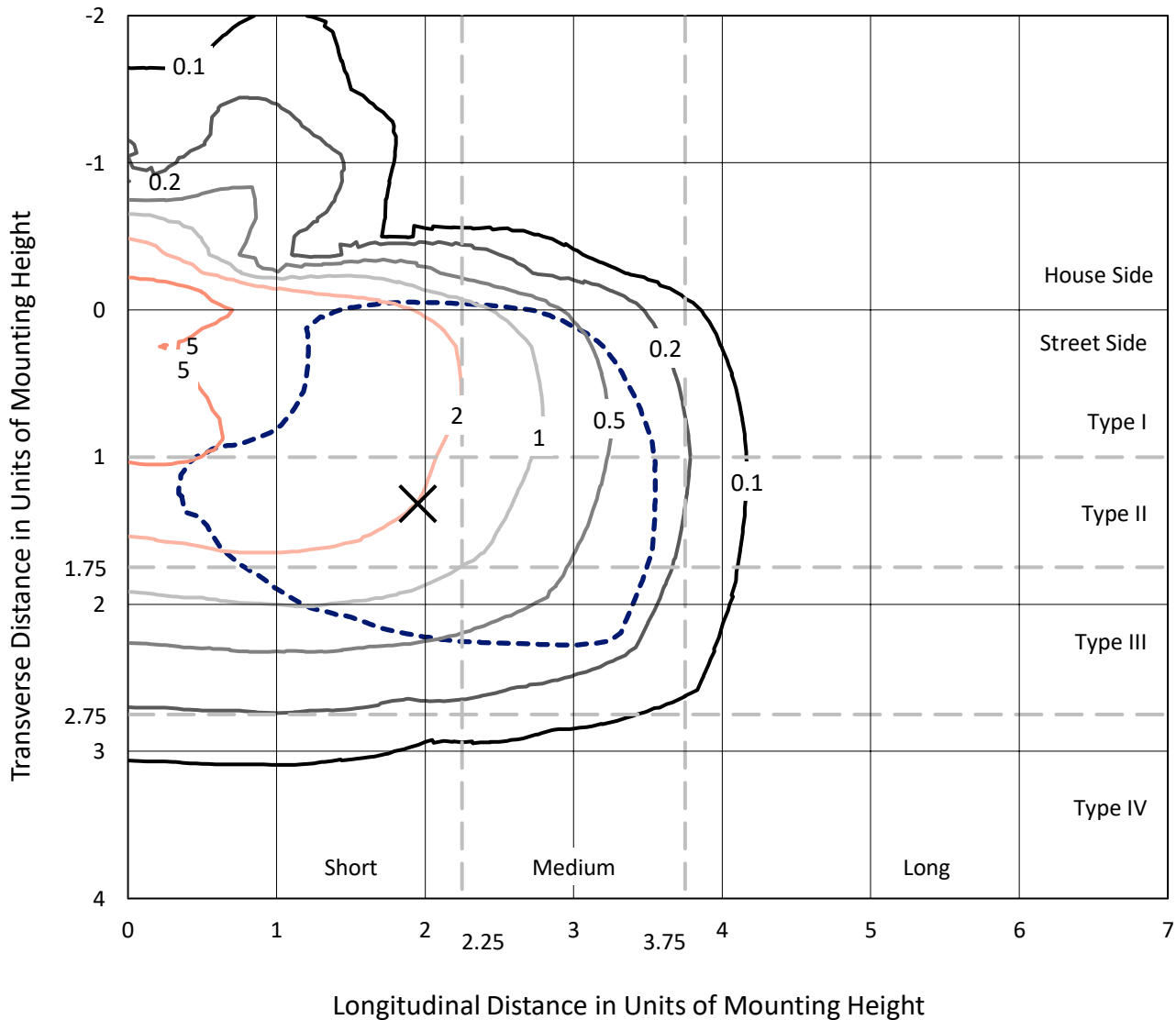
Lumens per Lamp: N/A
Luminaire Lumens: 38285.7 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 464.2
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

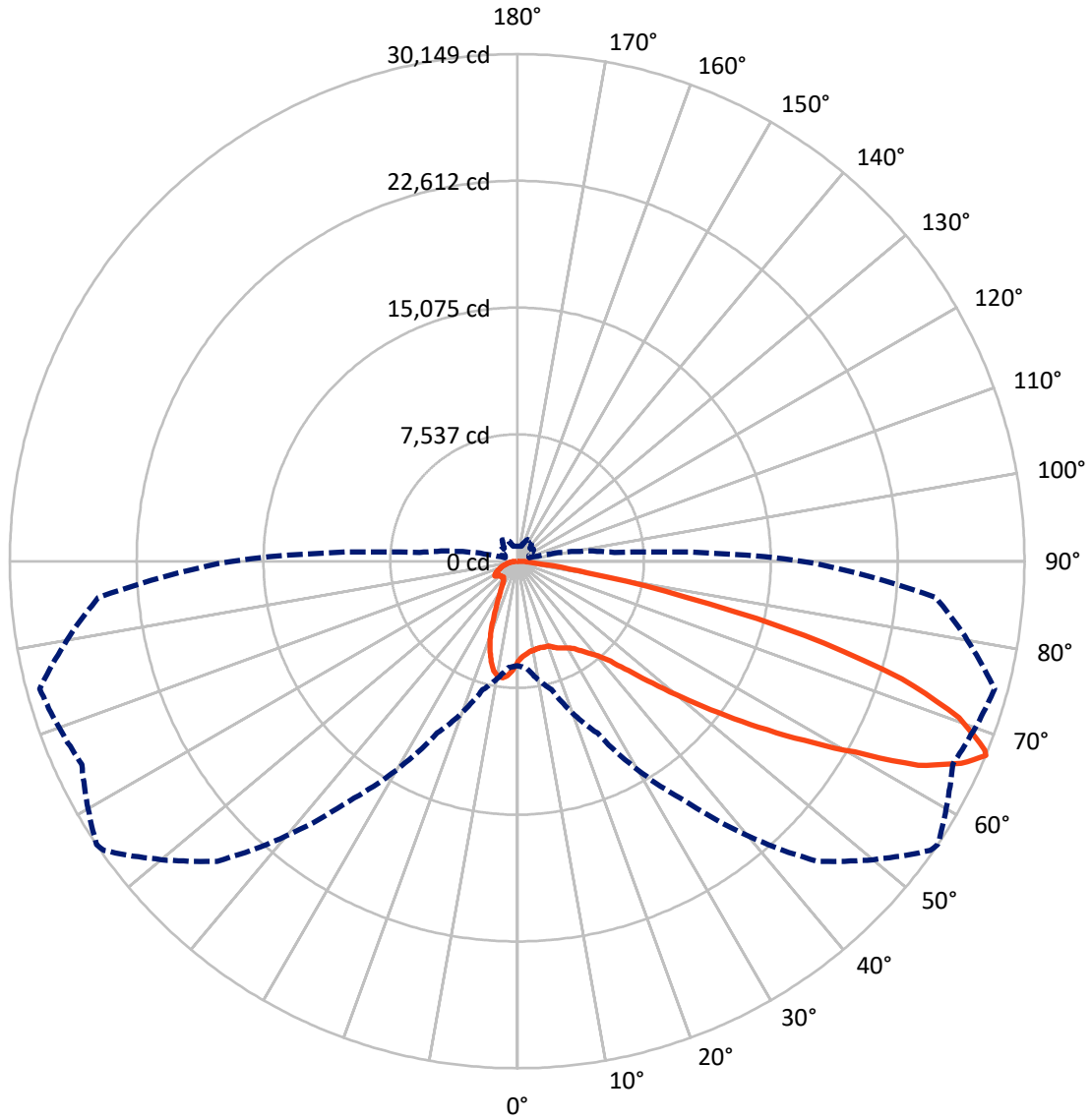
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.4 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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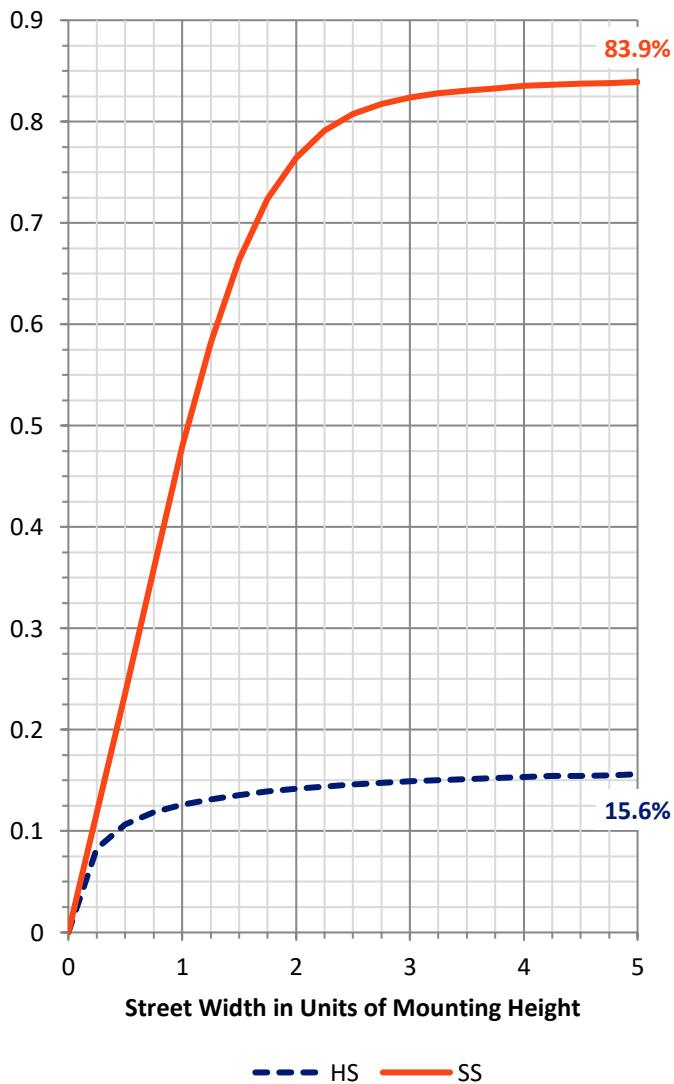
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6061.0	0.0	6061.0
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	32224.7	0.0	32224.7
	% Fixture	84.2	0.0	84.2
Total	Lumens	38285.7	0.0	38285.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	573.9	1.5
10°-20°	1565.7	4.1
20°-30°	2455.4	6.4
30°-40°	3505.2	9.2
40°-50°	5290.3	13.8
50°-60°	8421.2	22.0
60°-70°	10765.8	28.1
70°-80°	5249.1	13.7
80°-90°	459.2	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°	38285.7	100.0
0°-180°	38285.7	100.0

Coefficient of Utilization

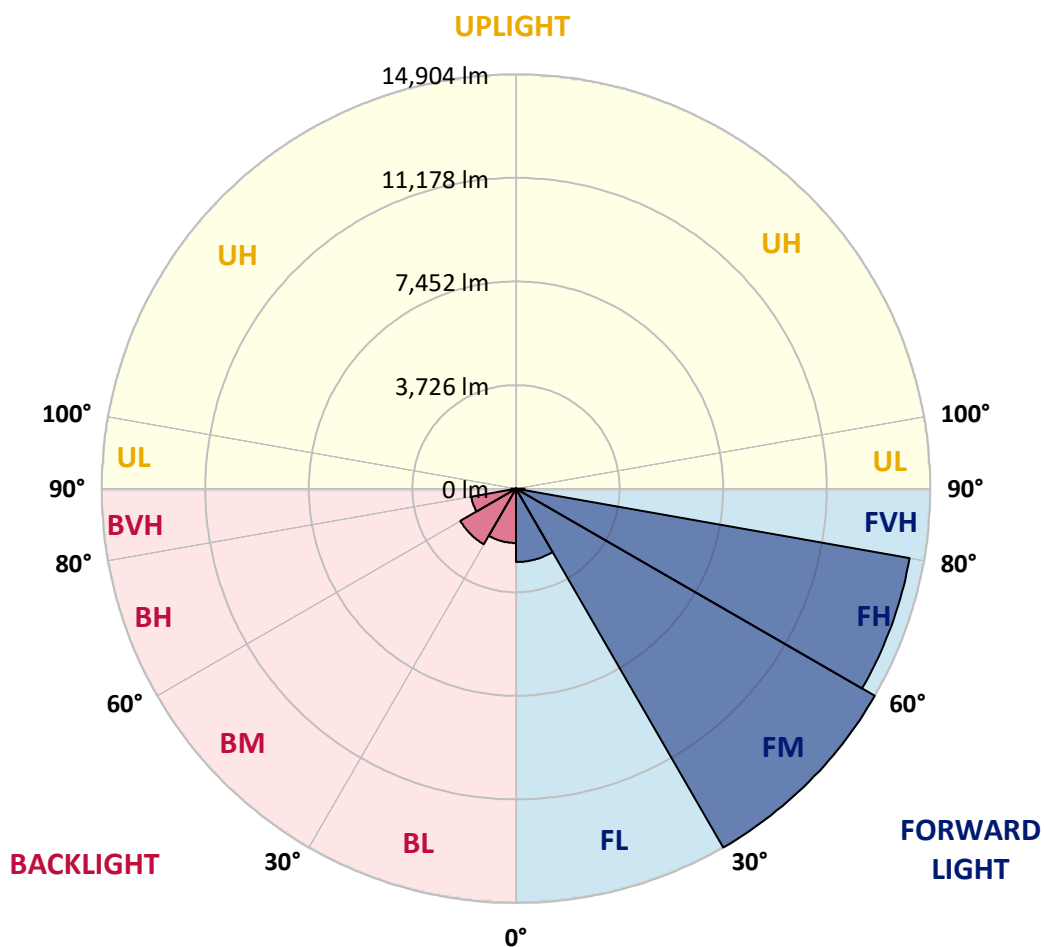


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2638.3	6.9			
FM (30°-60°)	14904.3	38.9			
FH (60°-80°)	14377.1	37.6			G5
FVH (80°-90°)	305.0	0.8			G3/500
BL (0°-30°)	1956.7	5.1	B3/2500		
BM (30°-60°)	2312.3	6.0	B2/2500		
BH (60°-80°)	1637.8	4.3	B3/2500		G3/2500
BVH (80°-90°)	154.2	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	5957.2	5957.2	5957.2	5957.2	5957.2	5957.2	5957.2	5957.2	5957.2	5957.2
2.5°	5472.3	5449.9	5476.8	5449.9	5571.1	5642.9	5665.4	5696.8	5809.0	5916.8
5°	5243.4	5144.6	5252.4	5288.3	5297.2	5418.5	5544.1	5566.6	5625.0	5800.0
7.5°	4861.8	4974.0	4933.6	5041.4	5153.6	5274.8	5481.3	5422.9	5638.4	5804.5
10°	4781.0	4790.0	4834.9	4875.3	4974.0	5131.1	5418.5	5382.5	5602.5	5957.2
12.5°	4861.8	4861.8	4848.3	4816.9	4929.1	5081.8	5310.7	5328.7	5674.3	6002.0
15°	5144.6	5198.5	5054.8	5077.3	5032.4	5081.8	5283.8	5324.2	5701.3	6038.0
17.5°	5835.9	5818.0	5647.4	5409.5	5211.9	5180.5	5319.7	5364.6	5674.3	6141.2
20°	6509.3	6473.4	6177.1	5930.2	5539.7	5355.6	5378.0	5382.5	5719.2	6208.5
22.5°	7259.0	7353.3	7030.1	6527.3	6042.4	5584.6	5494.8	5566.6	5822.5	6244.5
25°	8435.2	8233.2	7954.8	7294.9	6513.8	5939.2	5687.8	5723.7	5921.2	6334.2
27.5°	9283.6	9202.8	8767.4	8233.2	7173.7	6217.5	5791.1	5858.4	6100.8	6329.8
30°	10100.7	10100.7	9835.8	9036.7	7869.5	6684.4	6011.0	5979.6	6015.5	6320.8
32.5°	11056.9	10926.7	10545.1	10015.4	8744.9	7110.9	6186.1	6195.1	6195.1	6486.9
35°	11559.7	11770.7	11514.8	10652.8	9413.8	7820.2	6608.1	6540.7	6491.4	6670.9
37.5°	12295.9	12421.6	12152.2	11645.0	10244.3	8394.8	6980.7	6926.8	6639.5	6814.6
40°	12740.3	12717.9	12708.9	12475.5	11344.2	9072.7	7528.4	7389.2	7003.1	7321.9
42.5°	12991.7	12946.8	13499.0	13355.3	12381.2	10069.3	8215.2	8138.9	7712.4	8224.2
45°	13274.5	13606.7	14060.1	14464.2	13588.8	11469.9	9377.9	9270.2	8888.6	9539.5
47.5°	13521.4	13930.0	14509.1	14940.0	14679.6	12991.7	10814.5	10841.4	10590.0	11258.9
50°	13934.4	13974.8	14760.5	15631.4	15833.4	14396.8	12744.8	12699.9	12587.7	13525.9
52.5°	13808.7	13930.0	14922.1	16035.4	16367.6	15882.8	14818.8	14953.5	14805.3	15986.0
55°	11761.7	12125.3	14823.3	16461.9	17633.5	17561.7	17485.4	17395.6	17386.6	18751.3
57.5°	10832.4	11128.7	13059.1	16933.2	18989.3	19519.0	20012.8	20111.6	20107.1	21754.6
60°	10221.9	10527.1	12345.3	16677.3	20143.0	22082.3	23029.5	23043.0	23016.1	24964.4
62.5°	9027.8	9324.0	11110.7	15276.7	20461.7	24448.1	26558.0	26733.1	25498.6	27729.7
65°	7591.2	7833.6	9409.3	13135.4	19613.3	25952.0	29211.2	29004.7	27590.6	29309.9
67°	6208.5	6370.2	7905.5	11276.8	17395.6	25229.2	29978.8	30149.4	28555.7	29377.3
67.5°	5813.5	5961.6	7411.7	10643.9	16551.6	24681.6	30005.7	29978.8	28573.7	29390.7
70°	4035.8	4098.6	5050.3	7321.9	12192.6	20852.3	27815.0	27877.9	27375.1	27797.1
72.5°	2675.6	2769.8	3375.9	4614.9	7187.2	15173.5	23249.5	23922.9	23604.2	22791.6
75°	1723.8	1777.7	2208.7	2747.4	3537.5	8641.7	17175.6	17624.6	16892.8	14096.1
77.5°	965.2	1023.5	1333.3	1670.0	1723.8	3595.8	9647.3	10203.9	8646.2	5988.6
80°	601.6	677.9	1005.6	992.1	821.5	1319.8	3977.4	4260.2	3456.7	2060.5
82.5°	453.4	511.8	776.6	695.8	462.4	588.1	1490.4	1598.2	1266.0	794.6
85°	309.8	390.6	561.1	431.0	242.4	282.8	592.6	637.5	579.1	386.1
87.5°	112.2	166.1	291.8	215.5	107.7	85.3	193.0	215.5	206.5	175.1
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°
5957.2	0°	5957.2	5957.2	5957.2	5957.2	5957.2	5957.2	5957.2	5957.2	5957.2	5957.2
6011.0	2.5°	6096.3	6159.2	6190.6	6374.6	6451.0	6437.5	6455.5	6482.4	6509.3	6545.2
6087.3	5°	6145.7	6338.7	6442.0	6657.5	6801.1	6738.3	6819.1	6796.6	6765.2	6760.7
6226.5	7.5°	6307.3	6554.2	6864.0	6922.3	6985.2	6828.1	6693.4	6509.3	6464.4	6307.3
6343.2	10°	6594.6	6796.6	7173.7	7196.2	6917.8	6513.8	6213.0	5831.5	5827.0	5598.0
6522.8	12.5°	6868.5	7097.4	7402.7	7272.5	6608.1	6055.9	5566.6	5149.1	4974.0	4857.3
6630.5	15°	7039.0	7416.1	7577.8	7016.6	6064.9	5319.7	4686.7	4237.8	4058.2	3972.9
6765.2	17.5°	7196.2	7721.4	7649.6	6567.7	5396.0	4561.0	3806.8	3416.3	3366.9	3304.0
6980.7	20°	7411.7	7833.6	7393.7	5984.1	4637.3	3582.4	3102.0	2913.5	2958.4	2985.3
7003.1	22.5°	7613.7	7892.0	7070.5	5346.6	3663.2	2837.2	2599.2	2639.6	2707.0	2796.8
7057.0	25°	7703.4	7986.3	6635.0	4466.7	2787.8	2388.2	2334.4	2401.7	2513.9	2518.4
7133.3	27.5°	7761.8	7918.9	6109.8	3609.3	2204.2	2087.5	2168.3	2217.7	2231.1	2285.0
7294.9	30°	7865.1	7779.8	5445.4	2581.3	1849.5	1854.0	1957.3	1957.3	1957.3	1997.7
7456.5	32.5°	8044.6	7685.5	4668.8	1885.5	1593.7	1737.3	1710.4	1701.4	1683.4	1634.1
7663.0	35°	8156.9	7429.6	3685.6	1396.1	1432.1	1593.7	1584.7	1445.5	1212.1	1095.4
8188.3	37.5°	8390.3	7299.4	2711.5	1077.4	1337.8	1521.8	1472.5	1135.8	879.9	767.7
8839.2	40°	8893.1	7214.1	1876.5	942.7	1274.9	1485.9	1315.3	969.7	673.4	475.9
9844.8	42.5°	9508.1	7218.6	1274.9	888.9	1279.4	1562.2	1266.0	830.5	475.9	381.6
11187.1	45°	10334.1	7151.3	875.4	888.9	1360.2	1687.9	1297.4	754.2	462.4	484.8
12870.5	47.5°	11223.0	7209.6	650.9	808.1	1373.7	1692.4	1185.1	740.7	444.4	561.1
14702.1	50°	12260.0	7268.0	538.7	745.2	1378.2	1638.6	1090.9	722.8	462.4	592.6
16803.0	52.5°	13328.4	7452.1	457.9	704.8	1432.1	1616.1	1090.9	749.7	462.4	516.3
19478.6	55°	14922.1	7923.4	659.9	879.9	1629.6	1764.3	1342.3	1050.5	646.4	664.4
22041.9	57.5°	16681.8	8408.3	736.2	924.8	1674.5	1589.2	1445.5	1158.2	682.4	686.8
24035.1	60°	17840.0	8426.2	731.7	902.3	1566.7	1373.7	1414.1	1221.1	695.8	588.1
25269.6	62.5°	18302.4	7878.5	763.2	902.3	1459.0	1283.9	1450.0	1315.3	718.3	736.2
25619.8	65°	17777.2	6747.3	736.2	808.1	1283.9	1149.2	1459.0	1333.3	785.6	740.7
24991.3	67°	16955.7	5813.5	749.7	767.7	1194.1	1090.9	1535.3	1400.6	911.3	888.9
24663.6	67.5°	16722.2	5566.6	745.2	745.2	1162.7	1072.9	1553.3	1400.6	929.3	920.3
21768.1	70°	14738.0	4511.6	763.2	736.2	1028.0	1019.0	1652.0	1476.9	1068.4	1077.4
15990.5	72.5°	11218.5	3420.8	758.7	736.2	893.3	974.2	1665.5	1526.3	1162.7	1077.4
8955.9	75°	6374.6	2047.1	668.9	642.0	704.8	848.5	1557.7	1454.5	1131.3	965.2
3577.9	77.5°	2635.2	1055.0	615.0	579.1	583.6	691.3	1297.4	1355.7	1077.4	821.5
1194.1	80°	983.1	633.0	493.8	462.4	448.9	507.3	924.8	1081.9	920.3	673.4
525.2	82.5°	511.8	395.0	336.7	336.7	305.3	323.2	498.3	718.3	695.8	462.4
211.0	85°	260.4	224.5	193.0	188.5	170.6	152.6	251.4	426.5	399.5	255.9
94.3	87.5°	139.2	125.7	80.8	76.3	62.8	40.4	44.9	85.3	139.2	112.2
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>
5957.2
6581.2
6801.1
6361.2
5589.0
4830.4
3955.0
3335.5
2953.9
2747.4
2563.3
2334.4
2042.6
1607.1
1149.2
763.2
462.4
372.6
493.8
624.0
686.8
529.7
700.3
664.4
606.0
745.2
727.2
875.4
902.3
996.6
956.2
861.9
776.6
615.0
363.6
211.0
80.8
0.0

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