

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: P477744

Luminaire Tested: **IFLD-S-SA6C-735-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477744
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-735-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

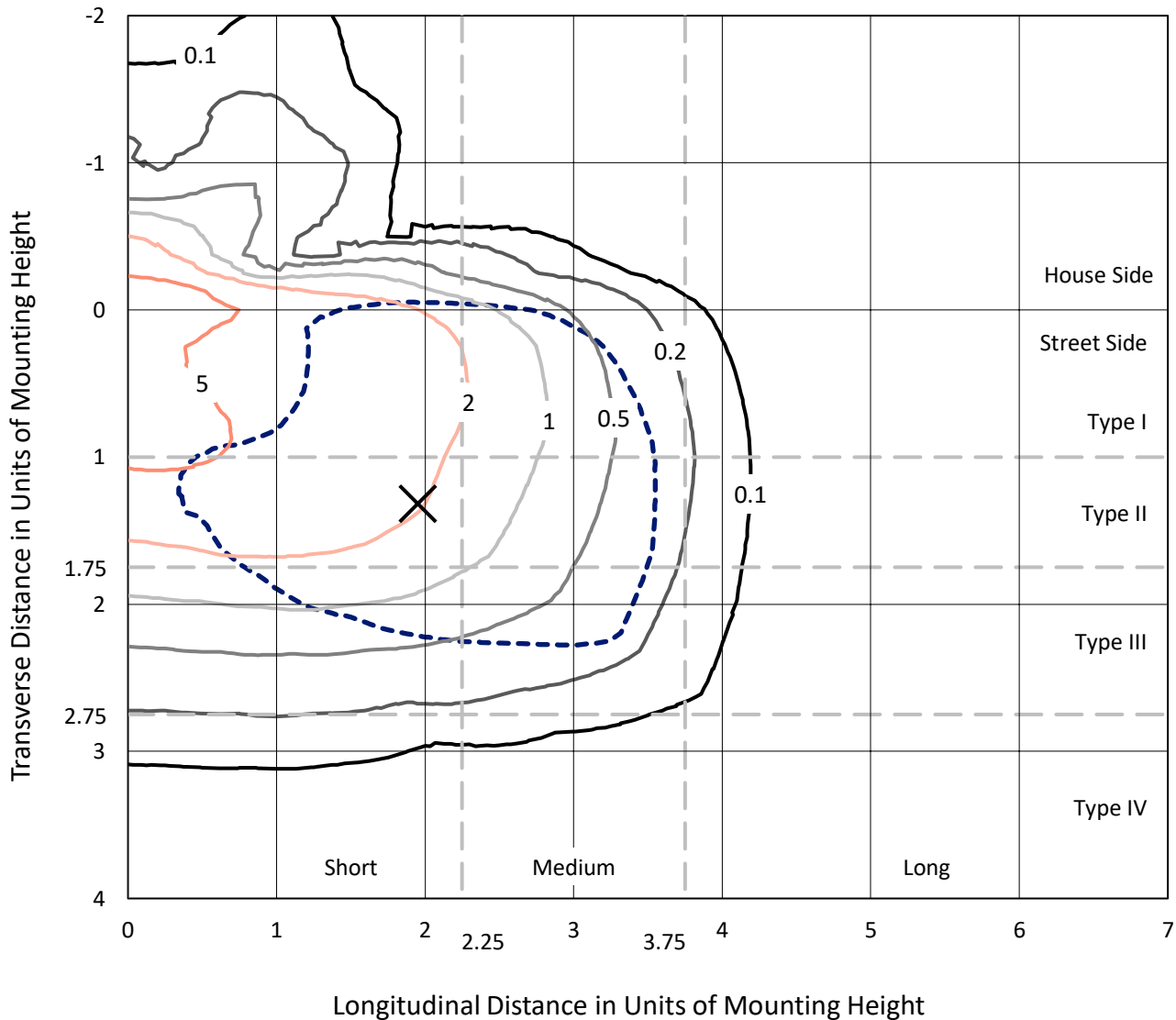
Lumens per Lamp: N/A
Luminaire Lumens: 40257.1 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 321.5
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

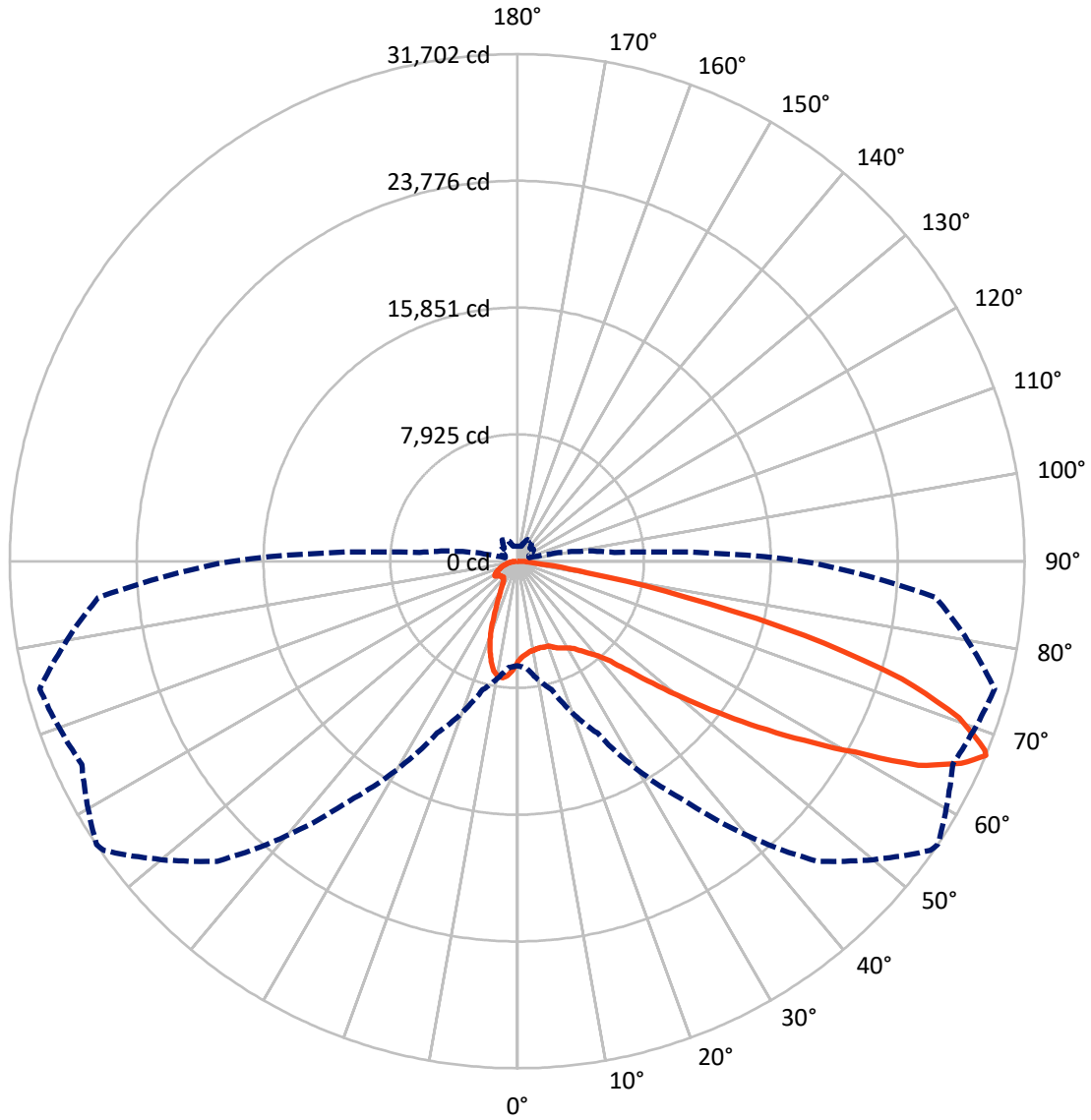
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.7 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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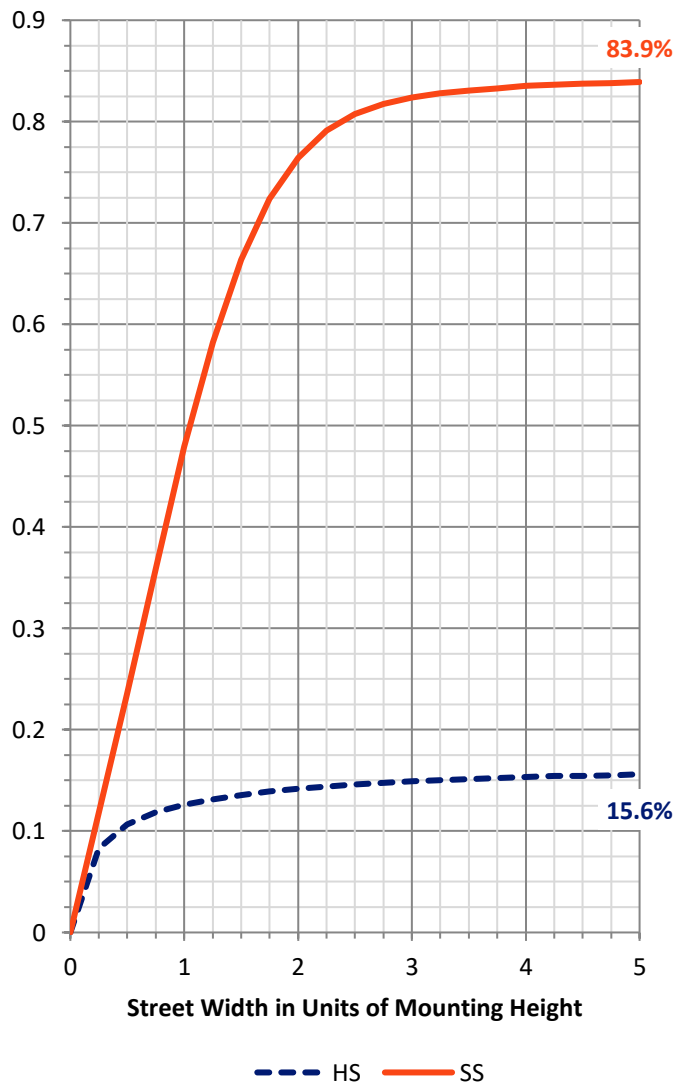
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6373.1	0.0	6373.1
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	33883.9	0.0	33883.9
	% Fixture	84.2	0.0	84.2
Total	Lumens	40257.1	0.0	40257.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	603.4	1.5
10°-20°	1646.3	4.1
20°-30°	2581.9	6.4
30°-40°	3685.6	9.2
40°-50°	5562.7	13.8
50°-60°	8854.8	22.0
60°-70°	11320.2	28.1
70°-80°	5519.3	13.7
80°-90°	482.8	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°	40257.1	100.0
0°-180°	40257.1	100.0

Coefficient of Utilization

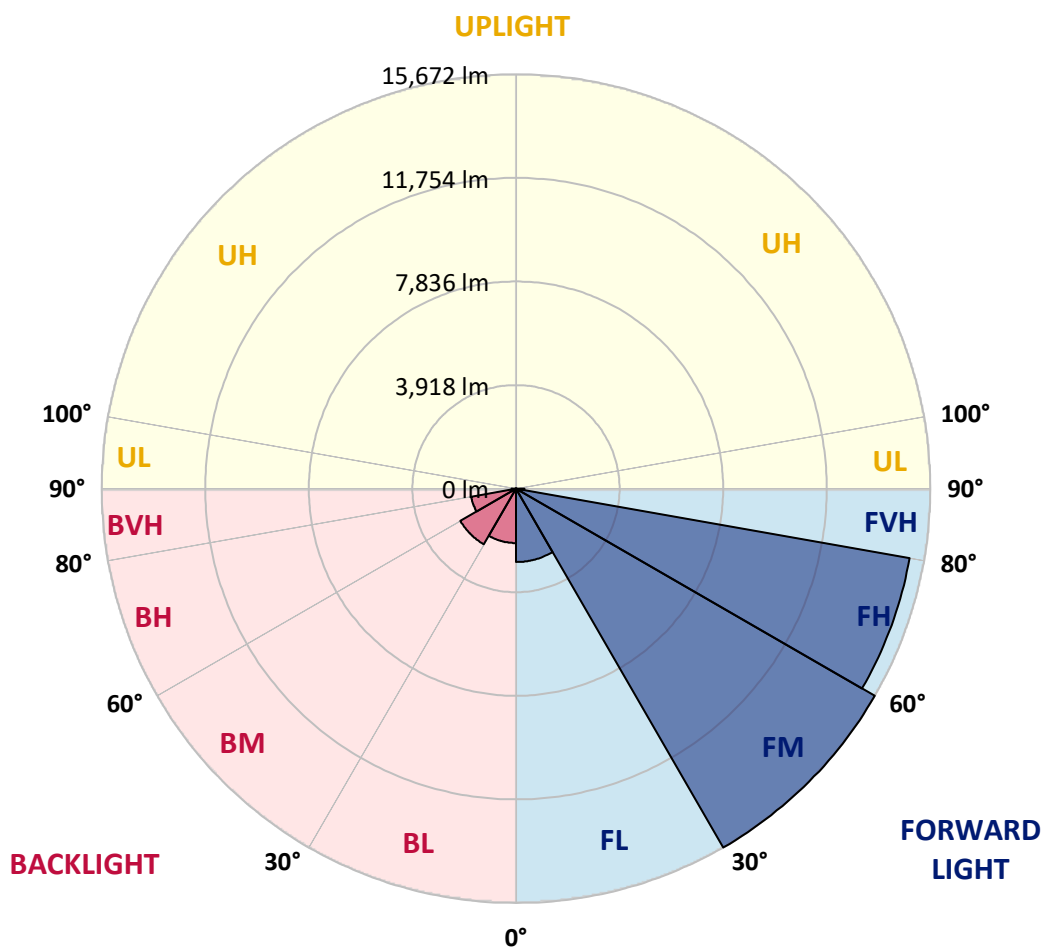


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2774.2	6.9			
FM (30°-60°)	15671.7	38.9			
FH (60°-80°)	15117.4	37.6			G5
FVH (80°-90°)	320.7	0.8			G3/500
BL (0°-30°)	2057.4	5.1	B3/2500		
BM (30°-60°)	2431.4	6.0	B2/2500		
BH (60°-80°)	1722.1	4.3	B3/2500		G3/2500
BVH (80°-90°)	162.2	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°	6263.9	6263.9	6263.9	6263.9	6263.9	6263.9	6263.9	6263.9	6263.9	6263.9
2.5°	5754.1	5730.5	5758.8	5730.5	5857.9	5933.5	5957.1	5990.1	6108.1	6221.4
5°	5513.4	5409.5	5522.8	5560.6	5570.0	5697.4	5829.6	5853.2	5914.6	6098.7
7.5°	5112.1	5230.1	5187.7	5300.9	5418.9	5546.4	5763.5	5702.2	5928.7	6103.4
10°	5027.2	5036.6	5083.8	5126.3	5230.1	5395.3	5697.4	5659.7	5891.0	6263.9
12.5°	5112.1	5112.1	5098.0	5064.9	5182.9	5343.4	5584.2	5603.0	5966.5	6311.1
15°	5409.5	5466.2	5315.1	5338.7	5291.5	5343.4	5555.8	5598.3	5994.8	6348.9
17.5°	6136.4	6117.6	5938.2	5688.0	5480.3	5447.3	5593.6	5640.8	5966.5	6457.4
20°	6844.5	6806.7	6495.2	6235.6	5824.9	5631.4	5655.0	5659.7	6013.7	6528.2
22.5°	7632.8	7731.9	7392.0	6863.4	6353.6	5872.1	5777.7	5853.2	6122.3	6566.0
25°	8869.5	8657.1	8364.4	7670.5	6849.2	6245.0	5980.7	6018.4	6226.1	6660.4
27.5°	9761.7	9676.7	9218.8	8657.1	7543.1	6537.7	6089.2	6160.0	6414.9	6655.7
30°	10620.8	10620.8	10342.3	9502.0	8274.8	7028.6	6320.5	6287.5	6325.3	6646.2
32.5°	11626.2	11489.3	11088.1	10531.1	9195.2	7477.0	6504.6	6514.1	6514.1	6820.9
35°	12154.9	12376.7	12107.7	11201.4	9898.5	8222.8	6948.3	6877.5	6825.6	7014.4
37.5°	12929.0	13061.2	12778.0	12244.6	10771.8	8827.0	7340.1	7283.5	6981.4	7165.5
40°	13396.3	13372.7	13363.3	13117.8	11928.3	9539.8	7916.0	7769.7	7363.7	7698.9
42.5°	13660.7	13613.5	14194.1	14043.0	13018.7	10587.7	8638.2	8558.0	8109.5	8647.7
45°	13958.0	14307.3	14784.1	15208.9	14288.5	12060.5	9860.8	9747.5	9346.3	10030.7
47.5°	14217.7	14647.2	15256.1	15709.3	15435.5	13660.7	11371.3	11399.6	11135.3	11838.6
50°	14651.9	14694.4	15520.5	16436.2	16648.6	15138.1	13401.0	13353.8	13235.8	14222.4
52.5°	14519.8	14647.2	15690.4	16861.0	17210.4	16700.6	15581.8	15723.4	15567.7	16809.1
55°	12367.3	12749.6	15586.6	17309.5	18541.5	18466.0	18385.7	18291.3	18281.9	19716.9
57.5°	11390.2	11701.7	13731.5	17805.1	19967.0	20524.0	21043.3	21147.1	21142.4	22874.8
60°	10748.2	11069.2	12980.9	17536.1	21180.2	23219.3	24215.3	24229.5	24201.2	26249.8
62.5°	9492.6	9804.1	11682.8	16063.3	21515.3	25707.0	27925.5	28109.6	26811.5	29157.5
65°	7982.1	8237.0	9893.8	13811.7	20623.2	27288.3	30715.2	30498.1	29011.2	30819.1
67°	6528.2	6698.2	8312.5	11857.5	18291.3	26528.3	31522.4	31701.8	30026.1	30889.9
67.5°	6112.8	6268.6	7793.3	11191.9	17403.9	25952.4	31550.7	31522.4	30045.0	30904.1
70°	4243.6	4309.7	5310.4	7698.9	12820.4	21926.0	29247.2	29313.3	28784.6	29228.3
72.5°	2813.3	2912.4	3549.7	4852.5	7557.3	15954.7	24446.6	25154.7	24819.5	23965.2
75°	1812.6	1869.3	2322.4	2888.8	3719.6	9086.7	18060.0	18532.0	17762.6	14821.9
77.5°	1014.9	1076.2	1401.9	1756.0	1812.6	3781.0	10144.0	10729.3	9091.4	6296.9
80°	632.5	712.8	1057.4	1043.2	863.8	1387.8	4182.2	4479.6	3634.7	2166.6
82.5°	476.8	538.1	816.6	731.7	486.2	618.4	1567.2	1680.4	1331.1	835.5
85°	325.7	410.7	590.0	453.2	254.9	297.4	623.1	670.3	608.9	405.9
87.5°	118.0	174.7	306.8	226.6	113.3	89.7	203.0	226.6	217.1	184.1
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°
6263.9	0°	6263.9	6263.9	6263.9	6263.9	6263.9	6263.9	6263.9	6263.9	6263.9	6263.9
6320.5	2.5°	6410.2	6476.3	6509.3	6702.9	6783.1	6769.0	6787.8	6816.2	6844.5	6882.3
6400.8	5°	6462.1	6665.1	6773.7	7000.3	7151.3	7085.2	7170.2	7146.6	7113.5	7108.8
6547.1	7.5°	6632.1	6891.7	7217.4	7278.8	7344.8	7179.6	7038.0	6844.5	6797.3	6632.1
6669.8	10°	6934.2	7146.6	7543.1	7566.7	7274.0	6849.2	6532.9	6131.7	6127.0	5886.3
6858.7	12.5°	7222.1	7462.9	7783.8	7646.9	6948.3	6367.7	5853.2	5414.2	5230.1	5107.4
6971.9	15°	7401.5	7798.0	7967.9	7377.9	6377.2	5593.6	4928.0	4456.0	4267.2	4177.5
7113.5	17.5°	7566.7	8119.0	8043.5	6905.9	5673.8	4795.9	4002.8	3592.2	3540.3	3474.2
7340.1	20°	7793.3	8237.0	7774.4	6292.2	4876.1	3766.8	3261.8	3063.5	3110.7	3139.0
7363.7	22.5°	8005.7	8298.4	7434.5	5621.9	3851.8	2983.3	2733.1	2775.6	2846.4	2940.8
7420.4	25°	8100.1	8397.5	6976.7	4696.7	2931.3	2511.2	2454.6	2525.4	2643.4	2648.1
7500.6	27.5°	8161.5	8326.7	6424.4	3795.2	2317.7	2195.0	2279.9	2331.8	2346.0	2402.7
7670.5	30°	8270.0	8180.3	5725.8	2714.2	1944.8	1949.5	2058.1	2058.1	2058.1	2100.6
7840.5	32.5°	8458.8	8081.2	4909.2	1982.5	1675.7	1826.8	1798.4	1789.0	1770.1	1718.2
8057.6	35°	8576.9	7812.2	3875.4	1468.0	1505.8	1675.7	1666.3	1519.9	1274.5	1151.8
8609.9	37.5°	8822.3	7675.3	2851.1	1132.9	1406.7	1600.2	1548.3	1194.2	925.2	807.2
9294.3	40°	9351.0	7585.6	1973.1	991.3	1340.6	1562.4	1383.1	1019.6	708.1	500.4
10351.7	42.5°	9997.7	7590.3	1340.6	934.6	1345.3	1642.7	1331.1	873.3	500.4	401.2
11763.1	45°	10866.2	7519.5	920.5	934.6	1430.3	1774.8	1364.2	793.0	486.2	509.8
13533.2	47.5°	11800.8	7580.9	684.4	849.7	1444.4	1779.6	1246.2	778.9	467.3	590.0
15459.1	50°	12891.2	7642.2	566.4	783.6	1449.1	1722.9	1147.0	760.0	486.2	623.1
17668.2	52.5°	14014.7	7835.8	481.5	741.1	1505.8	1699.3	1147.0	788.3	486.2	542.8
20481.5	55°	15690.4	8331.4	693.9	925.2	1713.5	1855.1	1411.4	1104.6	679.7	698.6
23176.9	57.5°	17540.8	8841.2	774.1	972.4	1760.7	1671.0	1519.9	1217.8	717.5	722.2
25272.7	60°	18758.6	8860.1	769.4	948.8	1647.4	1444.4	1486.9	1283.9	731.7	618.4
26570.8	62.5°	19244.8	8284.2	802.5	948.8	1534.1	1350.0	1524.7	1383.1	755.3	774.1
26939.0	65°	18692.5	7094.7	774.1	849.7	1350.0	1208.4	1534.1	1401.9	826.1	778.9
26278.1	67°	17828.7	6112.8	788.3	807.2	1255.6	1147.0	1614.4	1472.7	958.2	934.6
25933.5	67.5°	17583.3	5853.2	783.6	783.6	1222.6	1128.2	1633.2	1472.7	977.1	967.7
22888.9	70°	15496.9	4743.9	802.5	774.1	1081.0	1071.5	1737.1	1553.0	1123.4	1132.9
16813.8	72.5°	11796.1	3596.9	797.7	774.1	939.3	1024.3	1751.2	1604.9	1222.6	1132.9
9417.1	75°	6702.9	2152.5	703.3	675.0	741.1	892.1	1638.0	1529.4	1189.5	1014.9
3762.1	77.5°	2770.8	1109.3	646.7	608.9	613.6	726.9	1364.2	1425.5	1132.9	863.8
1255.6	80°	1033.8	665.6	519.2	486.2	472.0	533.4	972.4	1137.6	967.7	708.1
552.3	82.5°	538.1	415.4	354.0	354.0	321.0	339.9	524.0	755.3	731.7	486.2
221.9	85°	273.8	236.0	203.0	198.3	179.4	160.5	264.3	448.4	420.1	269.1
99.1	87.5°	146.3	132.2	85.0	80.2	66.1	42.5	47.2	89.7	146.3	118.0
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>
6263.9
6920.0
7151.3
6688.7
5876.8
5079.1
4158.6
3507.2
3106.0
2888.8
2695.3
2454.6
2147.8
1689.9
1208.4
802.5
486.2
391.8
519.2
656.1
722.2
557.0
736.4
698.6
637.2
783.6
764.7
920.5
948.8
1047.9
1005.4
906.3
816.6
646.7
382.3
221.9
85.0
0.0

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