

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: P477639

Luminaire Tested: **IFLD-L-SA7E-722-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477639
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-722-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

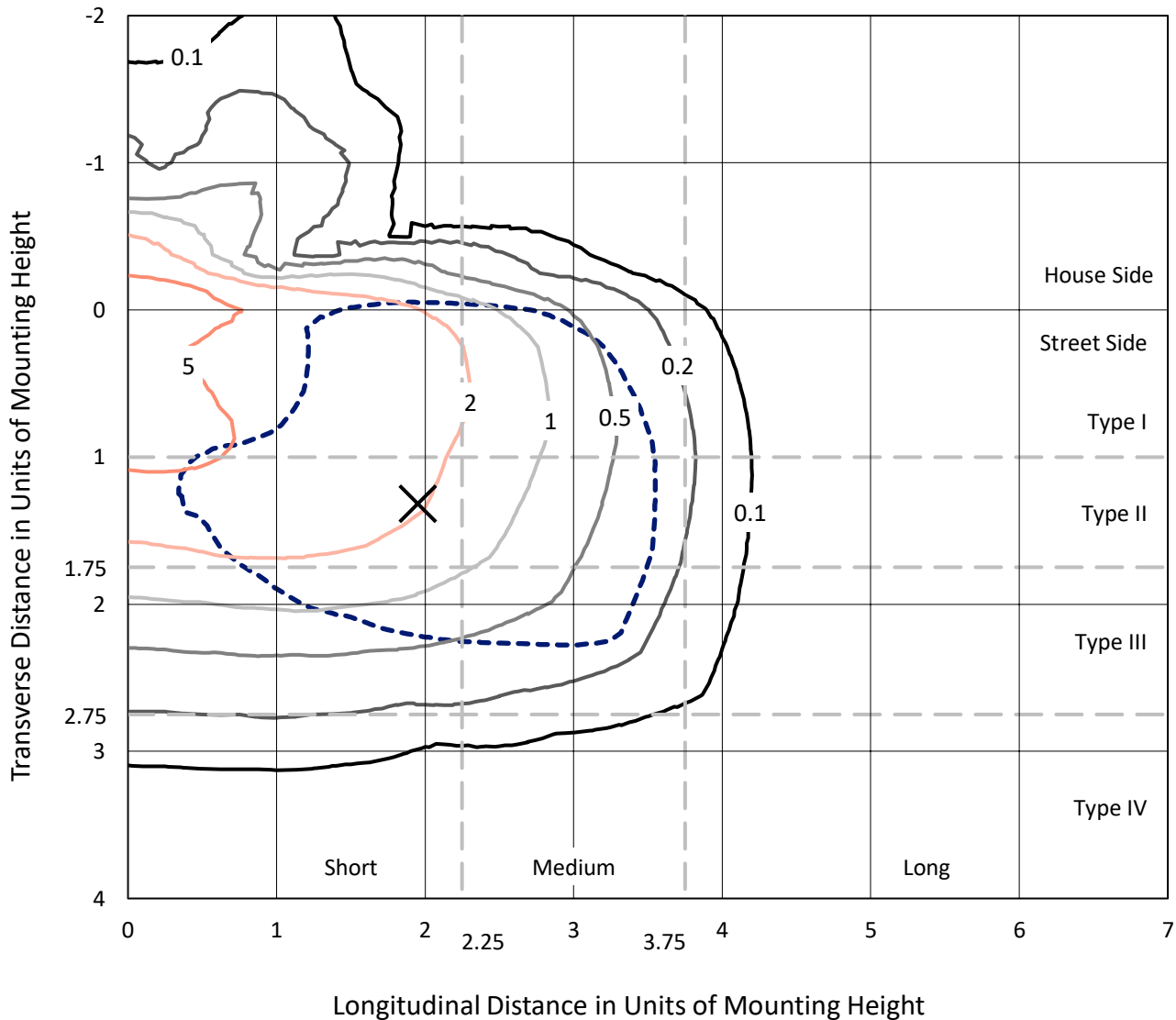
Lumens per Lamp: N/A
Luminaire Lumens: 40846 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 532.7
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

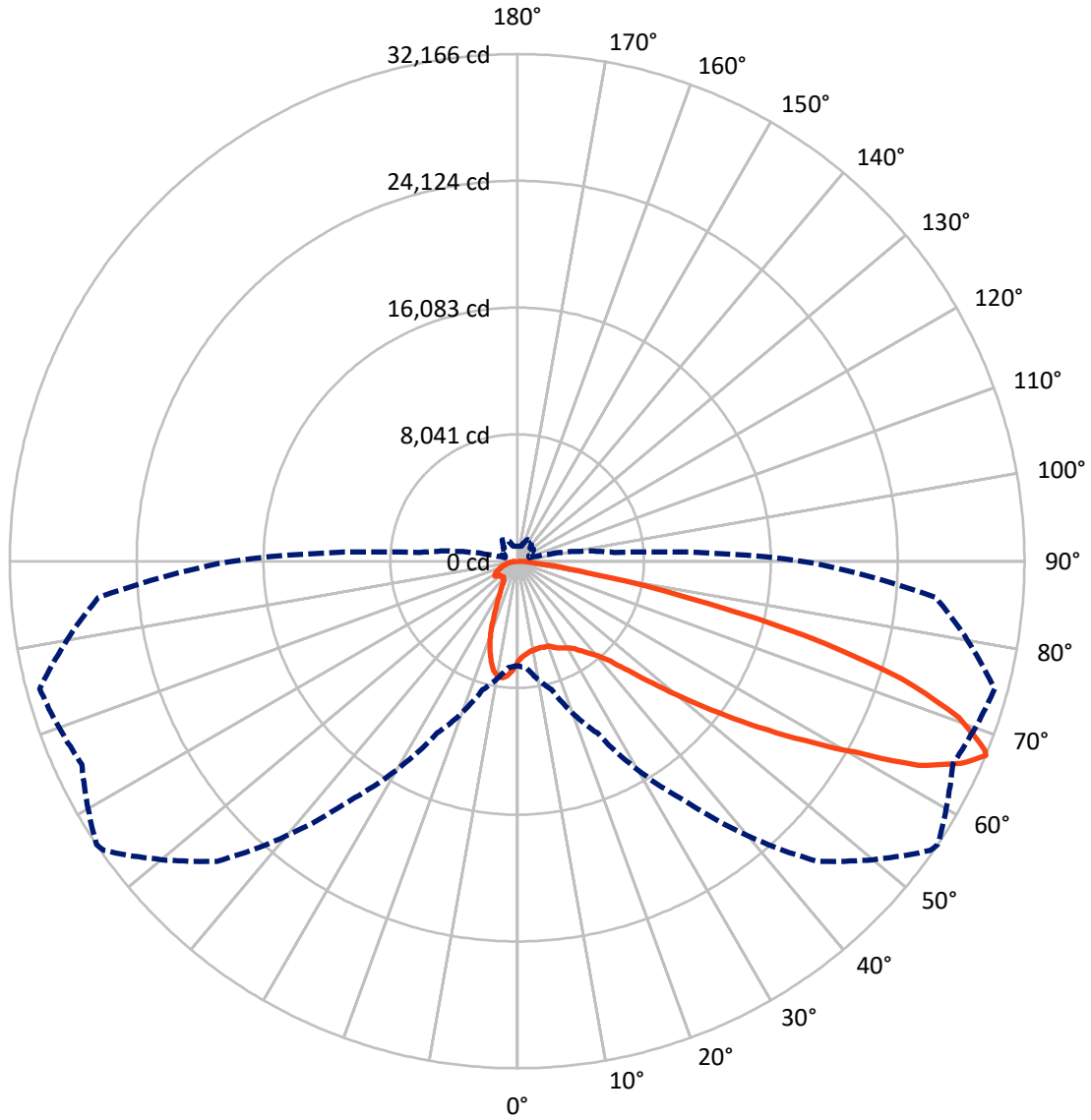
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.9 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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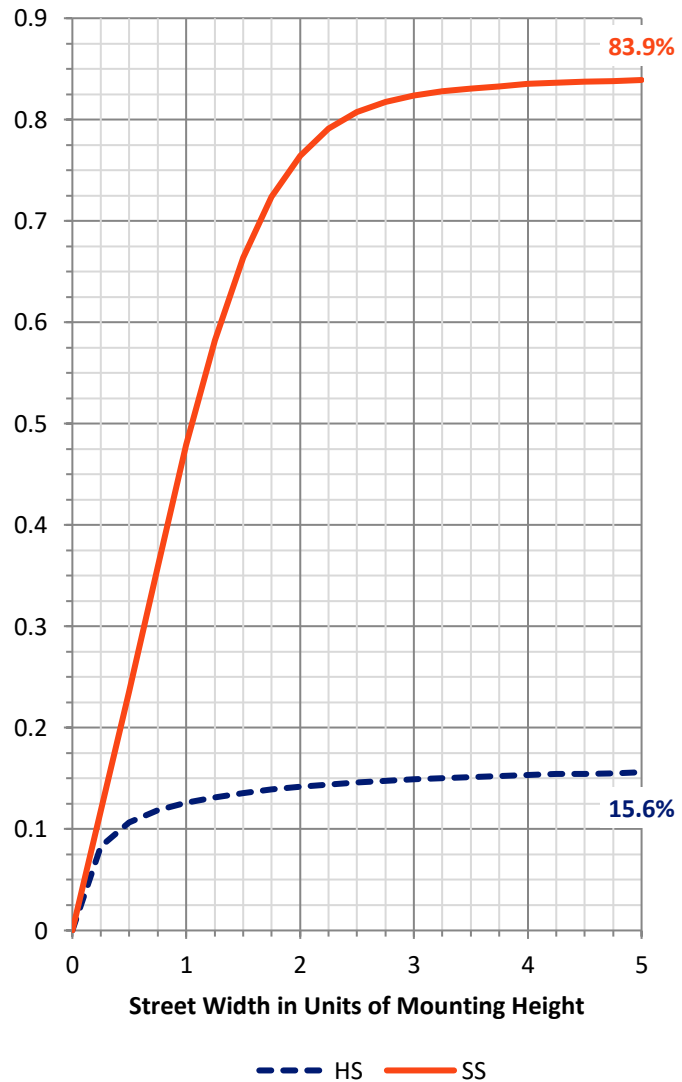
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6466.3	0.0	6466.3
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	34379.7	0.0	34379.7
	% Fixture	84.2	0.0	84.2
Total	Lumens	40846.0	0.0	40846.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	612.3	1.5
10°-20°	1670.4	4.1
20°-30°	2619.6	6.4
30°-40°	3739.6	9.2
40°-50°	5644.1	13.8
50°-60°	8984.4	22.0
60°-70°	11485.8	28.1
70°-80°	5600.1	13.7
80°-90°	489.9	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°	40846.0	100.0
0°-180°	40846.0	100.0

Coefficient of Utilization

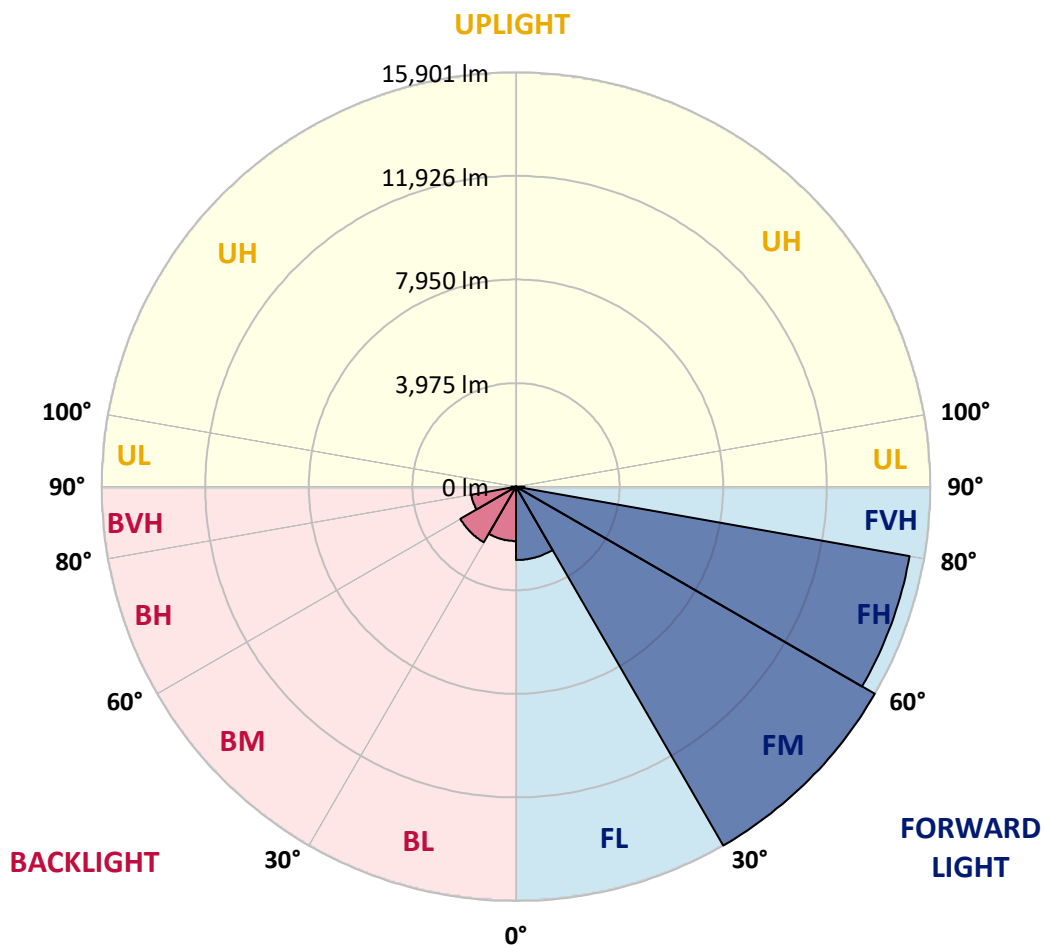


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2814.8	6.9			
FM (30°-60°)	15901.0	38.9			
FH (60°-80°)	15338.6	37.6			G5
FVH (80°-90°)	325.3	0.8			G3/500
BL (0°-30°)	2087.5	5.1	B3/2500		
BM (30°-60°)	2467.0	6.0	B2/2500		
BH (60°-80°)	1747.3	4.3	B3/2500		G3/2500
BVH (80°-90°)	164.5	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°	6355.5	6355.5	6355.5	6355.5	6355.5	6355.5	6355.5	6355.5	6355.5	6355.5
2.5°	5838.3	5814.3	5843.1	5814.3	5943.6	6020.3	6044.2	6077.7	6197.5	6312.4
5°	5594.0	5488.6	5603.6	5641.9	5651.5	5780.8	5914.9	5938.9	6001.1	6187.9
7.5°	5186.9	5306.7	5263.5	5378.5	5498.2	5627.5	5847.9	5785.6	6015.5	6192.7
10°	5100.7	5110.3	5158.2	5201.3	5306.7	5474.3	5780.8	5742.5	5977.2	6355.5
12.5°	5186.9	5186.9	5172.5	5139.0	5258.8	5421.6	5665.9	5685.0	6053.8	6403.4
15°	5488.6	5546.1	5392.9	5416.8	5368.9	5421.6	5637.1	5680.2	6082.5	6441.7
17.5°	6226.2	6207.1	6025.1	5771.2	5560.5	5527.0	5675.4	5723.3	6053.8	6551.9
20°	6944.6	6906.3	6590.2	6326.8	5910.1	5713.7	5737.7	5742.5	6101.7	6623.7
22.5°	7744.5	7845.0	7500.2	6963.8	6446.5	5958.0	5862.2	5938.9	6211.8	6662.1
25°	8999.3	8783.8	8486.8	7782.8	6949.4	6336.4	6068.2	6106.5	6317.2	6757.8
27.5°	9904.5	9818.3	9353.7	8783.8	7653.5	6633.3	6178.3	6250.2	6508.8	6753.0
30°	10776.1	10776.1	10493.6	9641.1	8395.8	7131.4	6413.0	6379.5	6417.8	6743.5
32.5°	11796.3	11657.4	11250.3	10685.1	9329.7	7586.4	6599.8	6609.4	6609.4	6920.7
35°	12332.7	12557.8	12284.8	11365.2	10043.4	8343.1	7050.0	6978.2	6925.5	7117.0
37.5°	13118.2	13252.3	12964.9	12423.7	10929.4	8956.2	7447.5	7390.0	7083.5	7270.3
40°	13592.3	13568.4	13558.8	13309.7	12102.8	9679.4	8031.8	7883.3	7471.5	7811.5
42.5°	13860.5	13812.6	14401.7	14248.5	13209.2	10742.6	8764.6	8683.2	8228.2	8774.2
45°	14162.2	14516.7	15000.4	15431.4	14497.5	12236.9	10005.0	9890.1	9483.0	10177.5
47.5°	14425.7	14861.5	15479.3	15939.1	15661.3	13860.5	11537.7	11566.4	11298.2	12011.8
50°	14866.3	14909.4	15747.5	16676.7	16892.2	15359.6	13597.1	13549.2	13429.5	14430.5
52.5°	14732.2	14861.5	15920.0	17107.7	17462.1	16944.9	15809.8	15953.5	15795.4	17055.0
55°	12548.2	12936.2	15814.6	17562.7	18812.7	18736.1	18654.7	18558.9	18549.3	20005.3
57.5°	11556.8	11872.9	13932.4	18065.6	20259.1	20824.3	21351.1	21456.5	21451.7	23209.4
60°	10905.5	11231.1	13170.8	17792.6	21490.0	23559.0	24569.6	24584.0	24555.2	26633.8
62.5°	9631.5	9947.6	11853.8	16298.3	21830.1	26083.1	28334.1	28520.9	27203.8	29584.1
65°	8098.9	8357.5	10038.6	14013.8	20924.9	27687.5	31164.6	30944.3	29435.6	31270.0
67°	6623.7	6796.2	8434.1	12031.0	18558.9	26916.4	31983.6	32165.6	30465.3	31341.8
67.5°	6202.3	6360.3	7907.3	11355.7	17658.5	26332.1	32012.3	31983.6	30484.5	31356.2
70°	4305.7	4372.7	5388.1	7811.5	13008.0	22246.7	29675.1	29742.2	29205.7	29655.9
72.5°	2854.5	2955.1	3601.6	4923.5	7667.8	16188.2	24804.3	25522.7	25182.6	24315.8
75°	1839.1	1896.6	2356.4	2931.1	3774.0	9219.6	18324.2	18803.2	18022.5	15038.7
77.5°	1029.7	1092.0	1422.5	1781.7	1839.1	3836.3	10292.4	10886.3	9224.4	6389.1
80°	641.8	723.2	1072.8	1058.5	876.5	1408.1	4243.4	4545.1	3687.8	2198.3
82.5°	483.7	546.0	828.6	742.4	493.3	627.4	1590.1	1705.0	1350.6	847.7
85°	330.5	416.7	598.7	459.8	258.6	301.7	632.2	680.1	617.8	411.9
87.5°	119.7	177.2	311.3	229.9	114.9	91.0	205.9	229.9	220.3	186.8
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°
6355.5	0°	6355.5	6355.5	6355.5	6355.5	6355.5	6355.5	6355.5	6355.5	6355.5	6355.5
6413.0	2.5°	6504.0	6571.1	6604.6	6800.9	6882.4	6868.0	6887.2	6915.9	6944.6	6982.9
6494.4	5°	6556.7	6762.6	6872.8	7102.7	7255.9	7188.9	7275.1	7251.1	7217.6	7212.8
6642.9	7.5°	6729.1	6992.5	7323.0	7385.2	7452.3	7284.7	7141.0	6944.6	6896.7	6729.1
6767.4	10°	7035.6	7251.1	7653.5	7677.4	7380.5	6949.4	6628.5	6221.4	6216.6	5972.4
6959.0	12.5°	7327.8	7572.0	7897.7	7758.8	7050.0	6460.9	5938.9	5493.4	5306.7	5182.1
7073.9	15°	7509.8	7912.1	8084.5	7485.8	6470.5	5675.4	5000.1	4521.2	4329.6	4238.6
7217.6	17.5°	7677.4	8237.8	8161.1	7006.9	5756.9	4866.0	4061.4	3644.7	3592.0	3525.0
7447.5	20°	7907.3	8357.5	7888.1	6384.3	4947.4	3821.9	3309.5	3108.3	3156.2	3184.9
7471.5	22.5°	8122.8	8419.8	7543.3	5704.2	3908.1	3026.9	2773.1	2816.2	2888.0	2983.8
7528.9	25°	8218.6	8520.3	7078.7	4765.4	2974.2	2548.0	2490.5	2562.3	2682.1	2686.9
7610.4	27.5°	8280.9	8448.5	6518.4	3850.7	2351.6	2227.1	2313.3	2366.0	2380.3	2437.8
7782.8	30°	8391.0	8300.0	5809.5	2753.9	1973.2	1978.0	2088.2	2088.2	2088.2	2131.3
7955.2	32.5°	8582.6	8199.4	4981.0	2011.5	1700.2	1853.5	1824.8	1815.2	1796.0	1743.3
8175.5	35°	8702.3	7926.5	3932.1	1489.5	1527.8	1700.2	1690.7	1542.2	1293.1	1168.6
8735.9	37.5°	8951.4	7787.6	2892.8	1149.5	1427.2	1623.6	1570.9	1211.7	938.7	819.0
9430.3	40°	9487.8	7696.6	2002.0	1005.8	1360.2	1585.3	1403.3	1034.5	718.4	507.7
10503.1	42.5°	10143.9	7701.3	1360.2	948.3	1365.0	1666.7	1350.6	886.0	507.7	407.1
11935.2	45°	11025.2	7629.5	933.9	948.3	1451.2	1800.8	1384.1	804.6	493.3	517.3
13731.2	47.5°	11973.5	7691.8	694.5	862.1	1465.6	1805.6	1264.4	790.3	474.2	598.7
15685.3	50°	13079.8	7754.0	574.7	795.0	1470.3	1748.1	1163.8	771.1	493.3	632.2
17926.7	52.5°	14219.7	7950.4	488.5	751.9	1527.8	1724.2	1163.8	799.8	493.3	550.8
20781.2	55°	15920.0	8453.3	704.0	938.7	1738.6	1882.2	1432.0	1120.7	689.7	708.8
23515.9	57.5°	17797.4	8970.5	785.5	986.6	1786.4	1695.4	1542.2	1235.7	728.0	732.8
25642.4	60°	19033.1	8989.7	780.7	962.7	1671.5	1465.6	1508.7	1302.7	742.4	627.4
26959.5	62.5°	19526.4	8405.4	814.2	962.7	1556.6	1369.8	1547.0	1403.3	766.3	785.5
27333.1	65°	18966.0	7198.5	785.5	862.1	1369.8	1226.1	1556.6	1422.5	838.1	790.3
26662.6	67°	18089.5	6202.3	799.8	819.0	1274.0	1163.8	1638.0	1494.3	972.2	948.3
26312.9	67.5°	17840.5	5938.9	795.0	795.0	1240.5	1144.7	1657.1	1494.3	991.4	981.8
23223.8	70°	15723.6	4813.3	814.2	785.5	1096.8	1087.2	1762.5	1575.7	1139.9	1149.5
17059.8	72.5°	11968.7	3649.5	809.4	785.5	953.1	1039.3	1776.9	1628.4	1240.5	1149.5
9554.8	75°	6800.9	2184.0	713.6	684.9	751.9	905.2	1661.9	1551.8	1206.9	1029.7
3817.1	77.5°	2811.4	1125.5	656.1	617.8	622.6	737.6	1384.1	1446.4	1149.5	876.5
1274.0	80°	1048.9	675.3	526.8	493.3	478.9	541.2	986.6	1154.2	981.8	718.4
560.4	82.5°	546.0	421.5	359.2	359.2	325.7	344.8	531.6	766.3	742.4	493.3
225.1	85°	277.8	239.5	205.9	201.2	182.0	162.8	268.2	455.0	426.3	273.0
100.6	87.5°	148.5	134.1	86.2	81.4	67.1	43.1	47.9	91.0	148.5	119.7
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>
6355.5
7021.3
7255.9
6786.6
5962.8
5153.4
4219.5
3558.5
3151.4
2931.1
2734.7
2490.5
2179.2
1714.6
1226.1
814.2
493.3
397.5
526.8
665.7
732.8
565.1
747.1
708.8
646.6
795.0
775.9
933.9
962.7
1063.2
1020.1
919.6
828.6
656.1
387.9
225.1
86.2
0.0

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