

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: P477678

Luminaire Tested: **IFLD-L-SA7E-727-U-T3R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477678
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-727-U-T3R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

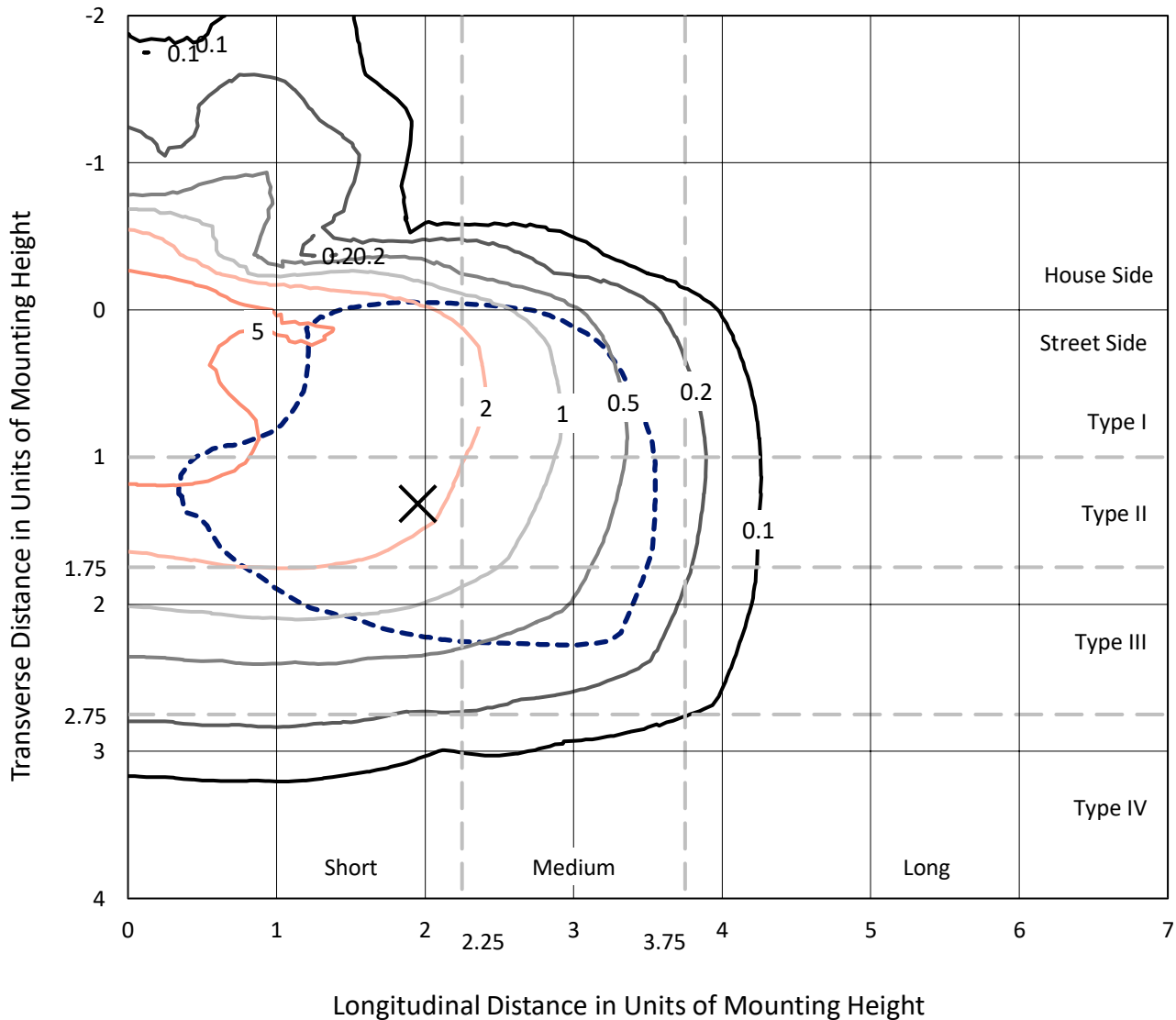
Lumens per Lamp: N/A
Luminaire Lumens: 46374.6 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

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

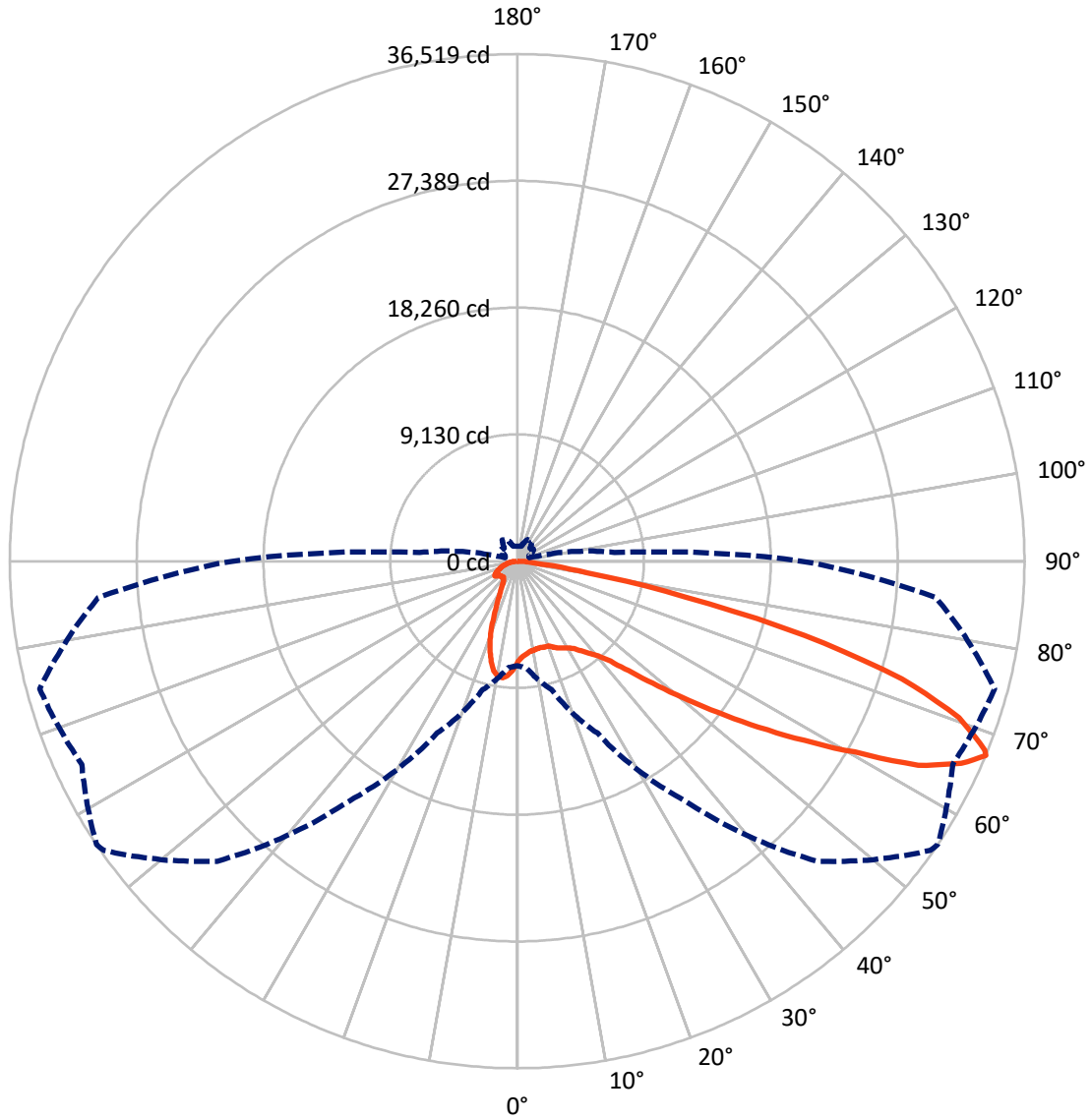
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.9 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	7341.6	0.0	7341.6
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	39033.0	0.0	39033.0
	% Fixture	84.2	0.0	84.2
Total	Lumens	46374.6	0.0	46374.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	695.2	1.5
10°-20°	1896.4	4.1
20°-30°	2974.2	6.4
30°-40°	4245.7	9.2
40°-50°	6408.0	13.8
50°-60°	10200.4	22.0
60°-70°	13040.4	28.1
70°-80°	6358.1	13.7
80°-90°	556.2	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°	46374.6	100.0
0°-180°	46374.6	100.0

Coefficient of Utilization

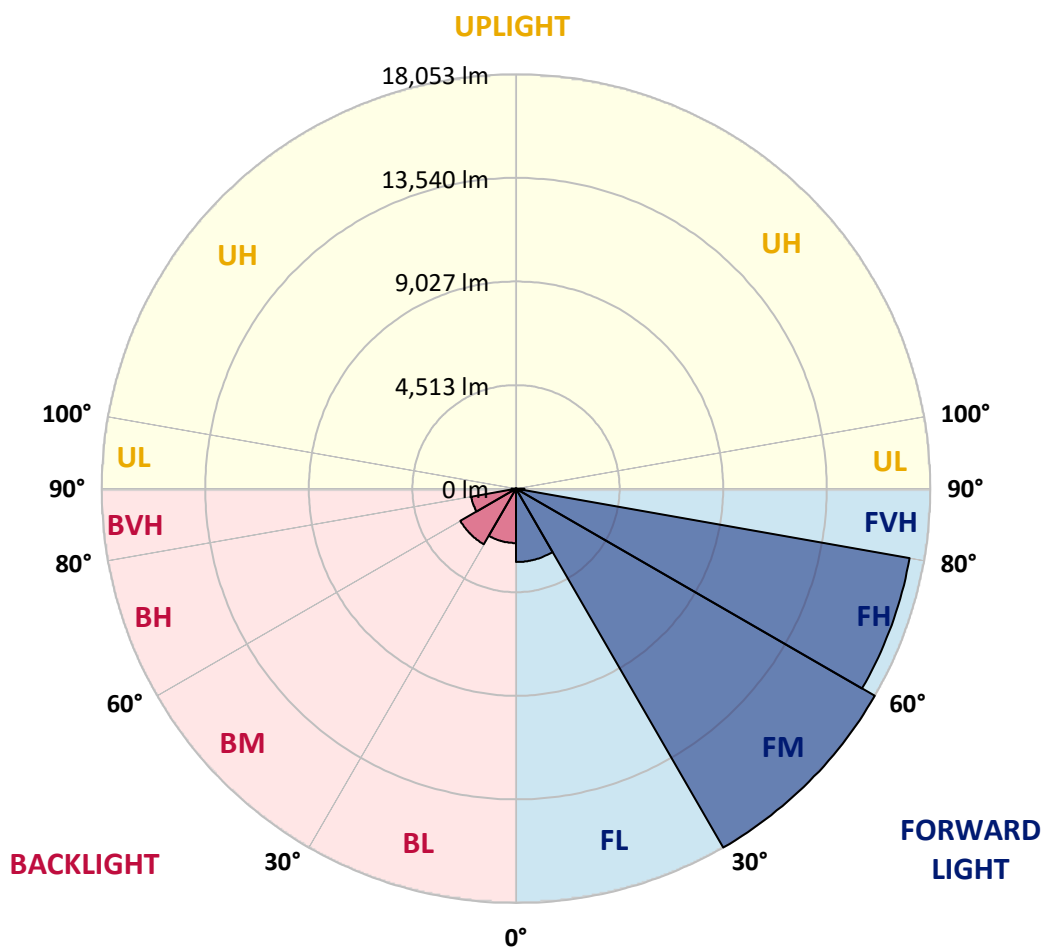


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3195.7	6.9			
FM (30°-60°)	18053.2	38.9			
FH (60°-80°)	17414.7	37.6			G5
FVH (80°-90°)	369.4	0.8			G3/500
BL (0°-30°)	2370.1	5.1	B3/2500		
BM (30°-60°)	2800.9	6.0	B3/5000		
BH (60°-80°)	1983.8	4.3	B3/2500		G3/2500
BVH (80°-90°)	186.8	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°	7215.8	7215.8	7215.8	7215.8	7215.8	7215.8	7215.8	7215.8	7215.8	7215.8
2.5°	6628.5	6601.3	6633.9	6601.3	6748.1	6835.1	6862.3	6900.4	7036.3	7166.8
5°	6351.2	6231.5	6362.0	6405.6	6416.4	6563.2	6715.5	6742.7	6813.4	7025.4
7.5°	5889.0	6024.9	5976.0	6106.5	6242.4	6389.2	6639.4	6568.7	6829.7	7030.9
10°	5791.1	5802.0	5856.3	5905.3	6024.9	6215.2	6563.2	6519.7	6786.2	7215.8
12.5°	5889.0	5889.0	5872.7	5834.6	5970.5	6155.4	6432.7	6454.5	6873.2	7270.1
15°	6231.5	6296.8	6122.8	6150.0	6095.6	6155.4	6400.1	6449.1	6905.8	7313.6
17.5°	7068.9	7047.2	6840.6	6552.4	6313.1	6275.0	6443.6	6498.0	6873.2	7438.7
20°	7884.6	7841.1	7482.2	7183.1	6710.1	6487.1	6514.3	6519.7	6927.6	7520.3
22.5°	8792.7	8906.9	8515.4	7906.3	7319.1	6764.4	6655.7	6742.7	7052.6	7563.8
25°	10217.3	9972.6	9635.5	8836.2	7890.0	7194.0	6889.5	6933.0	7172.3	7672.5
27.5°	11245.1	11147.2	10619.7	9972.6	8689.4	7531.1	7014.6	7096.1	7389.8	7667.1
30°	12234.7	12234.7	11913.9	10946.0	9532.2	8096.7	7281.0	7242.9	7286.4	7656.2
32.5°	13392.9	13235.2	12773.0	12131.4	10592.5	8613.2	7493.1	7504.0	7504.0	7857.4
35°	14001.9	14257.5	13947.6	12903.5	11402.7	9472.4	8004.2	7922.7	7862.8	8080.3
37.5°	14893.7	15046.0	14719.7	14105.3	12408.7	10168.4	8455.5	8390.3	8042.3	8254.4
40°	15432.0	15404.9	15394.0	15111.2	13740.9	10989.5	9118.9	8950.4	8482.7	8868.8
42.5°	15736.6	15682.2	16351.0	16177.0	14997.0	12196.6	9950.9	9858.5	9341.9	9961.8
45°	16079.1	16481.5	17030.7	17520.1	16459.8	13893.2	11359.2	11228.7	10766.5	11555.0
47.5°	16378.2	16873.0	17574.5	18096.5	17781.1	15736.6	13099.3	13131.9	12827.4	13637.6
50°	16878.5	16927.4	17879.0	18933.9	19178.6	17438.5	15437.5	15383.1	15247.2	16383.6
52.5°	16726.2	16873.0	18074.7	19423.3	19825.7	19238.4	17949.7	18112.8	17933.4	19363.5
55°	14246.6	14687.1	17955.1	19939.9	21359.1	21272.1	21179.6	21070.9	21060.0	22713.1
57.5°	13121.0	13479.9	15818.1	20510.8	23001.3	23642.9	24241.0	24360.7	24355.2	26350.8
60°	12381.5	12751.3	14953.5	20200.9	24398.7	26747.8	27895.1	27911.5	27878.8	30238.8
62.5°	10935.1	11294.0	13458.2	18504.3	24784.8	29613.4	32169.1	32381.2	30885.8	33588.4
65°	9195.1	9488.7	11397.3	15910.6	23757.1	31435.0	35382.8	35132.6	33419.8	35502.4
67°	7520.3	7716.0	9575.7	13659.4	21070.9	30559.6	36312.6	36519.2	34588.9	35584.0
67.5°	7041.8	7221.2	8977.6	12892.7	20048.6	29896.2	36345.2	36312.6	34610.6	35600.3
70°	4888.4	4964.6	6117.4	8868.8	14768.7	25257.9	33691.7	33767.8	33158.8	33669.9
72.5°	3240.8	3355.0	4089.1	5589.9	8705.7	18379.3	28161.6	28977.2	28591.2	27606.9
75°	2088.1	2153.3	2675.3	3327.8	4284.9	10467.5	20804.4	21348.2	20461.9	17074.2
77.5°	1169.1	1239.8	1615.0	2022.8	2088.1	4355.6	11685.5	12359.8	10472.9	7253.8
80°	728.6	821.1	1218.0	1201.7	995.1	1598.7	4817.8	5160.3	4187.0	2495.9
82.5°	549.2	619.9	940.7	842.8	560.1	712.3	1805.3	1935.8	1533.4	962.5
85°	375.2	473.1	679.7	522.0	293.6	342.6	717.8	772.1	701.5	467.6
87.5°	135.9	201.2	353.4	261.0	130.5	103.3	233.8	261.0	250.1	212.1
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°
7215.8	0°	7215.8	7215.8	7215.8	7215.8	7215.8	7215.8	7215.8	7215.8	7215.8	7215.8
7281.0	2.5°	7384.3	7460.5	7498.5	7721.5	7813.9	7797.6	7819.3	7852.0	7884.6	7928.1
7373.5	5°	7444.1	7678.0	7803.0	8064.0	8238.0	8161.9	8259.8	8232.6	8194.5	8189.1
7542.0	7.5°	7639.9	7939.0	8314.2	8384.9	8461.0	8270.7	8107.5	7884.6	7830.2	7639.9
7683.4	10°	7987.9	8232.6	8689.4	8716.6	8379.4	7890.0	7525.7	7063.5	7058.1	6780.7
7900.9	12.5°	8319.6	8596.9	8966.7	8809.0	8004.2	7335.4	6742.7	6237.0	6024.9	5883.5
8031.4	15°	8526.2	8983.0	9178.8	8499.0	7346.3	6443.6	5676.9	5133.1	4915.6	4812.3
8194.5	17.5°	8716.6	9352.8	9265.8	7955.3	6536.1	5524.7	4611.1	4138.1	4078.2	4002.1
8455.5	20°	8977.6	9488.7	8955.8	7248.4	5617.1	4339.2	3757.4	3529.0	3583.4	3616.0
8482.7	22.5°	9222.3	9559.4	8564.3	6476.2	4437.1	3436.6	3148.4	3197.3	3278.9	3387.7
8548.0	25°	9331.0	9673.6	8036.8	5410.5	3376.8	2892.8	2827.6	2909.1	3045.1	3050.5
8640.4	27.5°	9401.7	9592.0	7400.6	4371.9	2669.9	2528.5	2626.4	2686.2	2702.5	2767.8
8836.2	30°	9526.8	9423.4	6595.9	3126.6	2240.3	2245.7	2370.8	2370.8	2370.8	2419.8
9031.9	32.5°	9744.3	9309.3	5655.2	2283.8	1930.4	2104.4	2071.7	2060.9	2039.1	1979.3
9282.1	35°	9880.2	8999.3	4464.3	1691.1	1734.6	1930.4	1919.5	1750.9	1468.2	1326.8
9918.3	37.5°	10163.0	8841.6	3284.3	1305.0	1620.4	1843.4	1783.5	1375.7	1065.8	929.8
10706.7	40°	10772.0	8738.3	2272.9	1141.9	1544.3	1799.9	1593.2	1174.5	815.6	576.4
11924.8	42.5°	11516.9	8743.7	1544.3	1076.7	1549.7	1892.3	1533.4	1006.0	576.4	462.2
13550.6	45°	12517.5	8662.2	1060.3	1076.7	1647.6	2044.6	1571.5	913.5	560.1	587.3
15589.7	47.5°	13594.1	8732.9	788.5	978.8	1663.9	2050.0	1435.5	897.2	538.3	679.7
17808.3	50°	14850.2	8803.6	652.5	902.6	1669.4	1984.7	1321.3	875.5	560.1	717.8
20353.1	52.5°	16144.4	9026.5	554.6	853.7	1734.6	1957.6	1321.3	908.1	560.1	625.3
23594.0	55°	18074.7	9597.4	799.3	1065.8	1973.9	2137.0	1625.9	1272.4	783.0	804.8
26698.9	57.5°	20206.3	10184.7	891.8	1120.2	2028.2	1924.9	1750.9	1402.9	826.5	832.0
29113.2	60°	21609.2	10206.5	886.3	1093.0	1897.7	1663.9	1712.9	1479.0	842.8	712.3
30608.5	62.5°	22169.3	9543.1	924.4	1093.0	1767.2	1555.2	1756.4	1593.2	870.0	891.8
31032.7	65°	21533.1	8172.8	891.8	978.8	1555.2	1392.0	1767.2	1615.0	951.6	897.2
30271.4	67°	20538.0	7041.8	908.1	929.8	1446.4	1321.3	1859.7	1696.5	1103.8	1076.7
29874.4	67.5°	20255.2	6742.7	902.6	902.6	1408.4	1299.6	1881.4	1696.5	1125.6	1114.7
26367.2	70°	17851.8	5464.8	924.4	891.8	1245.2	1234.3	2001.1	1789.0	1294.2	1305.0
19368.9	72.5°	13588.7	4143.5	919.0	891.8	1082.1	1180.0	2017.4	1848.8	1408.4	1305.0
10848.1	75°	7721.5	2479.6	810.2	777.6	853.7	1027.7	1886.9	1761.8	1370.3	1169.1
4333.8	77.5°	3191.9	1277.8	745.0	701.5	706.9	837.4	1571.5	1642.2	1305.0	995.1
1446.4	80°	1190.8	766.7	598.1	560.1	543.8	614.5	1120.2	1310.5	1114.7	815.6
636.2	82.5°	619.9	478.5	407.8	407.8	369.8	391.5	603.6	870.0	842.8	560.1
255.6	85°	315.4	271.9	233.8	228.4	206.6	184.9	304.5	516.6	484.0	309.9
114.2	87.5°	168.6	152.3	97.9	92.4	76.1	48.9	54.4	103.3	168.6	135.9
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>
7215.8
7971.6
8238.0
7705.1
6769.9
5850.9
4790.6
4040.2
3578.0
3327.8
3104.9
2827.6
2474.1
1946.7
1392.0
924.4
560.1
451.3
598.1
755.8
832.0
641.6
848.3
804.8
734.1
902.6
880.9
1060.3
1093.0
1207.2
1158.2
1044.0
940.7
745.0
440.4
255.6
97.9
0.0

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