

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: P477521

Luminaire Tested: **IFLD-L-SA7D-827-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477521
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-827-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

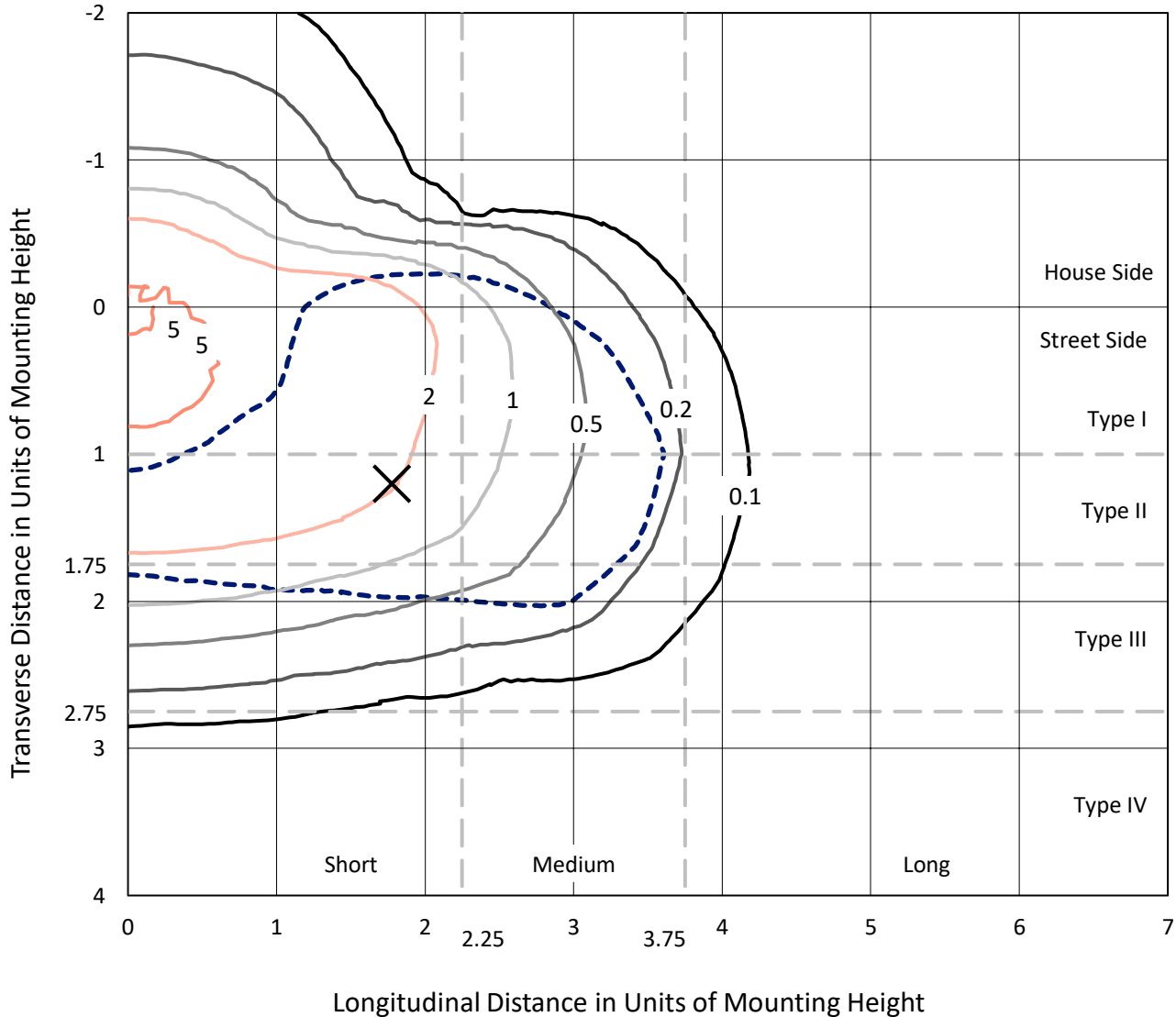
Lumens per Lamp: N/A
Luminaire Lumens: 36521.6 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 422.6
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

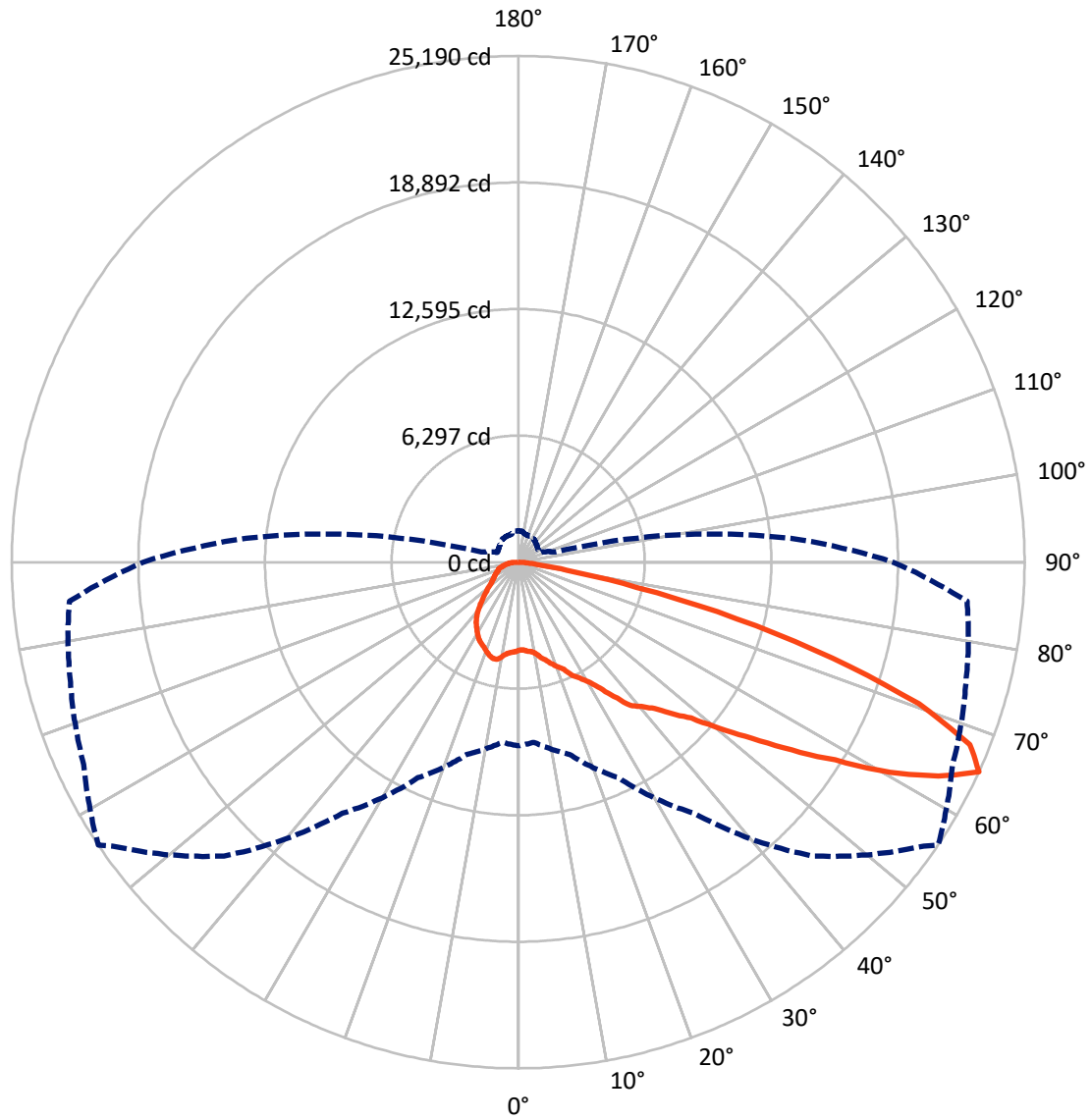
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.6 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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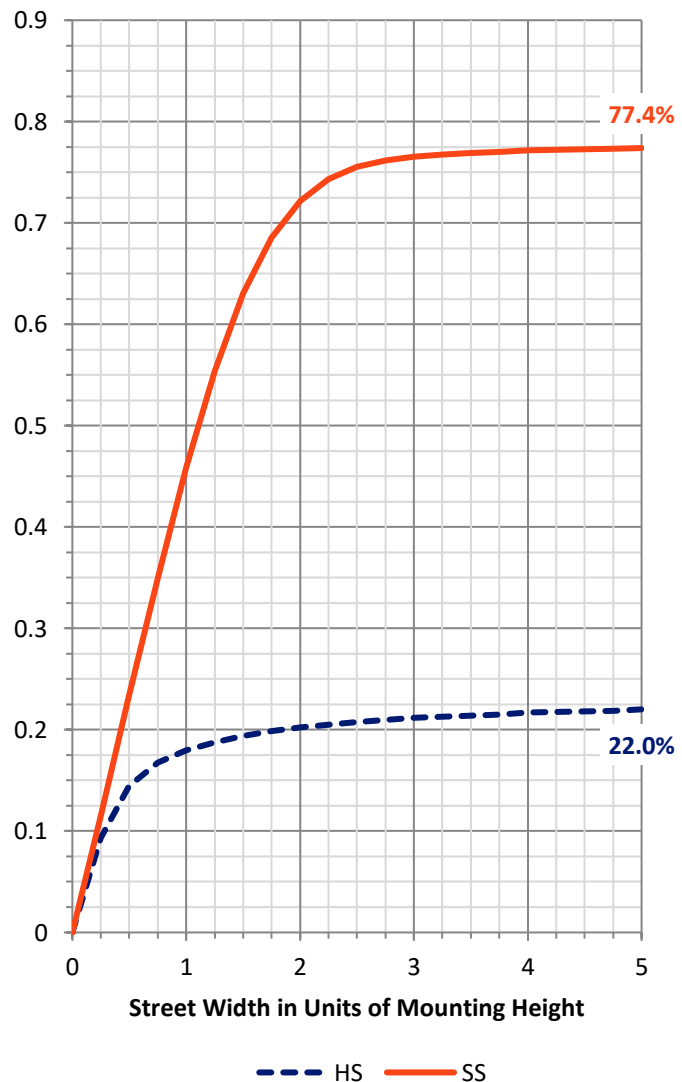
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8190.6	0.0	8190.6
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	28331.0	0.0	28331.0
	% Fixture	77.6	0.0	77.6
Total	Lumens	36521.6	0.0	36521.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	434.4	1.2
10°-20°	1410.6	3.9
20°-30°	2511.6	6.9
30°-40°	3761.0	10.3
40°-50°	5572.4	15.3
50°-60°	8586.4	23.5
60°-70°	9720.8	26.6
70°-80°	4034.2	11.0
80°-90°	490.1	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°	36521.6	100.0
0°-180°	36521.6	100.0

Coefficient of Utilization

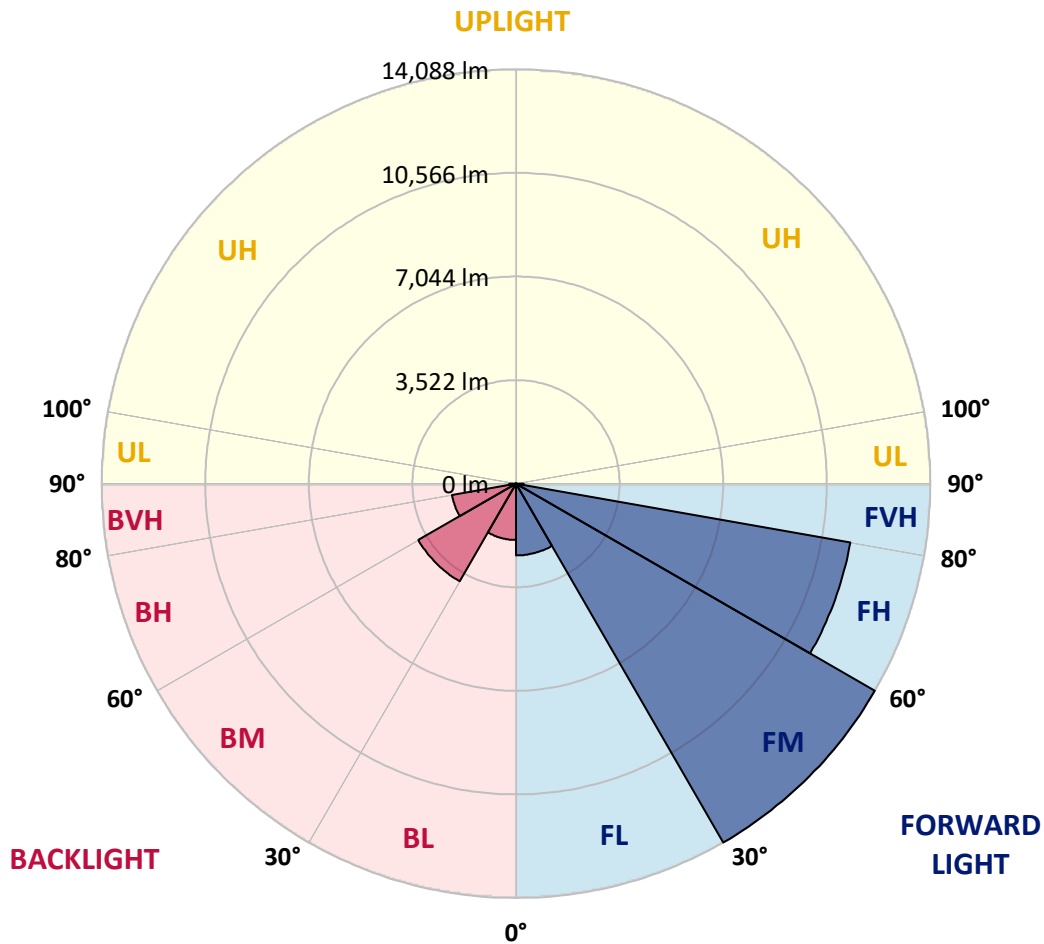


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2440.7	6.7			
FM (30°-60°)	14088.4	38.6			
FH (60°-80°)	11543.3	31.6			G4/12000
FVH (80°-90°)	258.5	0.7			G3/500
BL (0°-30°)	1915.9	5.2	B3/2500		
BM (30°-60°)	3831.4	10.5	B3/5000		
BH (60°-80°)	2211.8	6.1	B3/2500		G3/2500
BVH (80°-90°)	231.6	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	4383.6	4383.6	4383.6	4383.6	4383.6	4383.6	4383.6	4383.6	4383.6	4383.6
2.5°	4269.0	4291.9	4276.6	4322.5	4360.7	4360.7	4391.3	4368.3	4398.9	4441.0
5°	4410.4	4318.7	4368.3	4391.3	4379.8	4398.9	4368.3	4444.8	4395.1	4475.4
7.5°	4444.8	4479.2	4521.2	4483.0	4517.4	4498.3	4502.1	4490.6	4463.9	4528.9
10°	4697.0	4647.3	4742.9	4685.6	4677.9	4670.3	4655.0	4597.7	4662.6	4666.4
12.5°	4987.5	4941.6	4937.8	4891.9	4953.1	4842.3	4865.2	4834.6	4846.1	4861.4
15°	5197.7	5178.6	5266.5	5213.0	5132.7	5083.0	5136.5	5052.5	5094.5	5086.8
17.5°	5614.3	5610.4	5545.5	5457.6	5411.7	5339.1	5327.6	5293.2	5323.8	5308.5
20°	5904.7	5946.8	5958.2	5855.0	5679.2	5599.0	5579.9	5553.1	5587.5	5576.0
22.5°	6348.1	6283.1	6332.8	6153.1	6088.2	5897.1	5828.3	5790.1	5954.4	5912.4
25°	6630.9	6699.7	6650.0	6588.8	6443.6	6206.6	6157.0	6241.0	6306.0	6260.1
27.5°	7269.1	7200.3	7154.5	6971.0	6875.5	6627.0	6569.7	6539.1	6554.4	6581.2
30°	7754.5	7792.7	7689.5	7559.6	7318.8	7066.6	6932.8	6906.0	6852.5	6806.7
32.5°	8446.2	8388.9	8327.8	8243.7	8037.3	7704.8	7574.9	7475.5	7315.0	7101.0
35°	8778.7	8943.1	8897.2	8671.7	8515.0	8388.9	8350.7	8197.8	8064.1	7727.7
37.5°	9332.9	9401.7	9336.7	9264.1	9191.5	9057.7	9011.9	9053.9	8790.2	8236.0
40°	9692.1	9837.4	9971.1	9768.6	9753.3	9780.0	9497.2	9447.6	8904.9	8614.4
42.5°	10425.9	10487.1	10513.8	10506.2	10594.1	10594.1	10055.2	9948.2	9562.2	9325.3
45°	11396.7	11446.4	11541.9	11610.7	11511.3	11561.0	10792.8	10750.8	10406.8	10361.0
47.5°	12237.5	12356.0	12570.0	12772.5	12902.5	12734.3	11893.5	11595.4	11507.5	11782.7
50°	12971.3	12829.9	13330.5	13536.9	14106.4	14385.3	13108.9	12990.4	12849.0	13376.4
52.5°	13043.9	13235.0	13942.0	14354.8	15528.1	16044.0	14599.4	14549.7	14377.7	14985.4
55°	13563.7	13540.7	14251.6	15145.9	16540.9	17408.4	16540.9	16510.3	16135.7	16712.8
57.5°	13475.8	13708.9	14270.7	15520.4	17454.3	18872.2	18791.9	18581.7	18058.1	18528.2
60°	13177.7	13238.8	13922.9	15509.0	17985.5	20374.1	21222.6	21264.6	20194.5	20569.1
62.5°	11488.4	11629.8	12497.4	14289.8	17607.1	21409.9	23595.9	23446.9	22590.8	22162.8
65°	9138.0	8996.6	9898.5	11836.2	15252.9	20676.1	24635.5	25189.6	23844.4	23060.9
67.5°	5602.8	5568.4	6436.0	8144.3	11412.0	17595.7	23806.1	24238.0	23496.6	22869.8
70°	2885.5	2797.6	3340.3	4544.1	7173.6	12910.1	20718.1	21142.3	21849.4	20511.7
72.5°	1345.3	1326.2	1616.6	2235.8	3653.7	7590.1	16044.0	16349.8	17840.3	17293.8
75°	791.1	802.6	966.9	1169.5	1781.0	3577.2	10647.6	11240.0	12856.6	12463.0
77.5°	592.4	592.4	687.9	814.0	1039.5	1383.5	5255.0	6038.5	7517.5	6760.8
80°	435.7	443.3	527.4	611.5	722.3	714.7	2086.7	2446.0	3447.3	2946.6
82.5°	340.1	351.6	408.9	454.8	508.3	431.9	856.1	921.1	1417.9	1127.4
85°	237.0	244.6	321.0	309.6	309.6	240.8	355.4	374.5	561.8	535.1
87.5°	57.3	65.0	156.7	172.0	129.9	72.6	110.8	126.1	202.6	233.1
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°
4383.6	0°	4383.6	4383.6	4383.6	4383.6	4383.6	4383.6	4383.6	4383.6	4383.6	4383.6
4460.1	2.5°	4402.7	4418.0	4483.0	4448.6	4467.7	4387.5	4452.4	4398.9	4444.8	4421.9
4494.5	5°	4525.0	4490.6	4528.9	4502.1	4502.1	4532.7	4578.5	4544.1	4612.9	4582.4
4521.2	7.5°	4574.7	4578.5	4601.5	4605.3	4586.2	4681.7	4685.6	4674.1	4739.1	4723.8
4704.7	10°	4697.0	4700.8	4742.9	4765.8	4746.7	4781.1	4742.9	4712.3	4708.5	4693.2
4849.9	12.5°	4891.9	4930.2	4922.5	4941.6	4945.4	4800.2	4712.3	4563.3	4544.1	4563.3
5063.9	15°	5071.6	5056.3	5063.9	5102.1	4941.6	4708.5	4551.8	4425.7	4433.3	4437.1
5342.9	17.5°	5285.6	5297.0	5308.5	5132.7	4838.4	4563.3	4425.7	4425.7	4387.5	4402.7
5537.8	20°	5530.2	5484.3	5385.0	5136.5	4658.8	4395.1	4353.1	4353.1	4307.2	4276.6
5748.0	22.5°	5721.3	5629.5	5480.5	5018.1	4498.3	4330.1	4226.9	4154.3	4100.8	4039.7
5981.2	25°	5843.6	5793.9	5503.4	4895.8	4379.8	4158.1	4005.3	3894.4	3825.6	3745.4
6164.6	27.5°	6030.8	5935.3	5568.4	4754.4	4249.9	3986.2	3749.2	3577.2	3447.3	3363.2
6443.6	30°	6283.1	6145.5	5522.5	4551.8	4051.1	3688.1	3409.1	3187.4	3038.4	2969.6
6707.3	32.5°	6489.5	6309.8	5484.3	4368.3	3829.5	3386.1	3015.4	2789.9	2705.9	2617.9
7150.6	35°	6883.1	6527.7	5457.6	4265.2	3630.7	3084.2	2694.4	2499.5	2392.5	2262.5
7414.3	37.5°	7185.0	6906.0	5392.6	4051.1	3374.7	2789.9	2449.8	2274.0	2113.5	1975.9
8025.8	40°	7658.9	7433.4	5396.4	3749.2	3072.7	2537.7	2258.7	2075.3	1872.7	1754.2
8931.6	42.5°	8549.4	7953.2	5419.3	3508.4	2732.6	2331.3	2086.7	1868.9	1666.3	1566.9
9963.5	45°	9642.5	8667.9	5277.9	3290.6	2384.8	2136.4	1880.3	1662.5	1532.6	1459.9
11366.1	47.5°	10899.8	9367.3	5086.8	2881.7	2094.4	1930.0	1689.2	1563.1	1467.6	1425.5
13173.8	50°	12306.3	10368.6	5033.3	2507.1	1868.9	1754.2	1597.5	1502.0	1437.0	1387.3
15210.9	52.5°	14117.8	11534.3	4926.3	2121.1	1674.0	1612.8	1563.1	1498.2	1440.8	1398.8
17110.3	55°	15849.1	12826.0	4811.7	1803.9	1536.4	1544.0	1570.8	1513.4	1463.8	1398.8
19239.1	57.5°	17798.2	14144.6	4387.5	1570.8	1433.2	1509.6	1563.1	1498.2	1448.5	1398.8
21417.5	60°	19002.1	14886.0	3558.1	1368.2	1341.5	1444.6	1517.3	1448.5	1395.0	1414.1
22418.8	62.5°	19491.3	14496.2	2682.9	1242.1	1276.5	1356.7	1444.6	1417.9	1379.7	1452.3
22407.4	65°	18658.1	13598.1	1918.6	1135.1	1188.6	1268.8	1379.7	1410.3	1421.7	1563.1
20580.5	67.5°	16602.0	11840.0	1410.3	1047.2	1096.9	1215.3	1425.5	1475.2	1467.6	1643.4
17270.8	70°	13284.7	9260.3	1100.7	974.6	1062.5	1257.4	1490.5	1490.5	1437.0	1643.4
13173.8	72.5°	9665.4	6527.7	947.8	890.5	974.6	1154.2	1482.9	1479.0	1410.3	1502.0
8388.9	75°	5851.2	3798.9	837.0	806.4	837.0	989.9	1417.9	1395.0	1299.4	1291.8
4035.8	77.5°	2916.1	1910.9	684.1	714.7	730.0	829.3	1245.9	1280.3	1150.4	1119.8
1593.7	80°	1230.6	833.2	569.5	615.3	615.3	699.4	1035.7	1058.6	955.5	898.1
630.6	82.5°	561.8	477.7	485.4	535.1	500.7	542.7	821.7	848.4	775.8	680.3
267.5	85°	237.0	271.3	370.7	420.4	370.7	351.6	565.6	596.2	504.5	420.4
114.7	87.5°	107.0	149.1	233.1	305.7	187.3	164.3	301.9	313.4	252.2	187.3
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>
4383.6
4379.8
4540.3
4700.8
4693.2
4570.9
4490.6
4406.6
4230.8
4005.3
3760.7
3401.4
3007.8
2614.1
2251.1
1979.7
1765.7
1574.6
1475.2
1417.9
1395.0
1395.0
1395.0
1395.0
1398.8
1433.2
1563.1
1654.9
1609.0
1448.5
1276.5
1100.7
879.0
665.0
424.2
175.8
0.0

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