

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: P477403

Luminaire Tested: **IFLD-L-SA7C-740-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477403
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-740-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

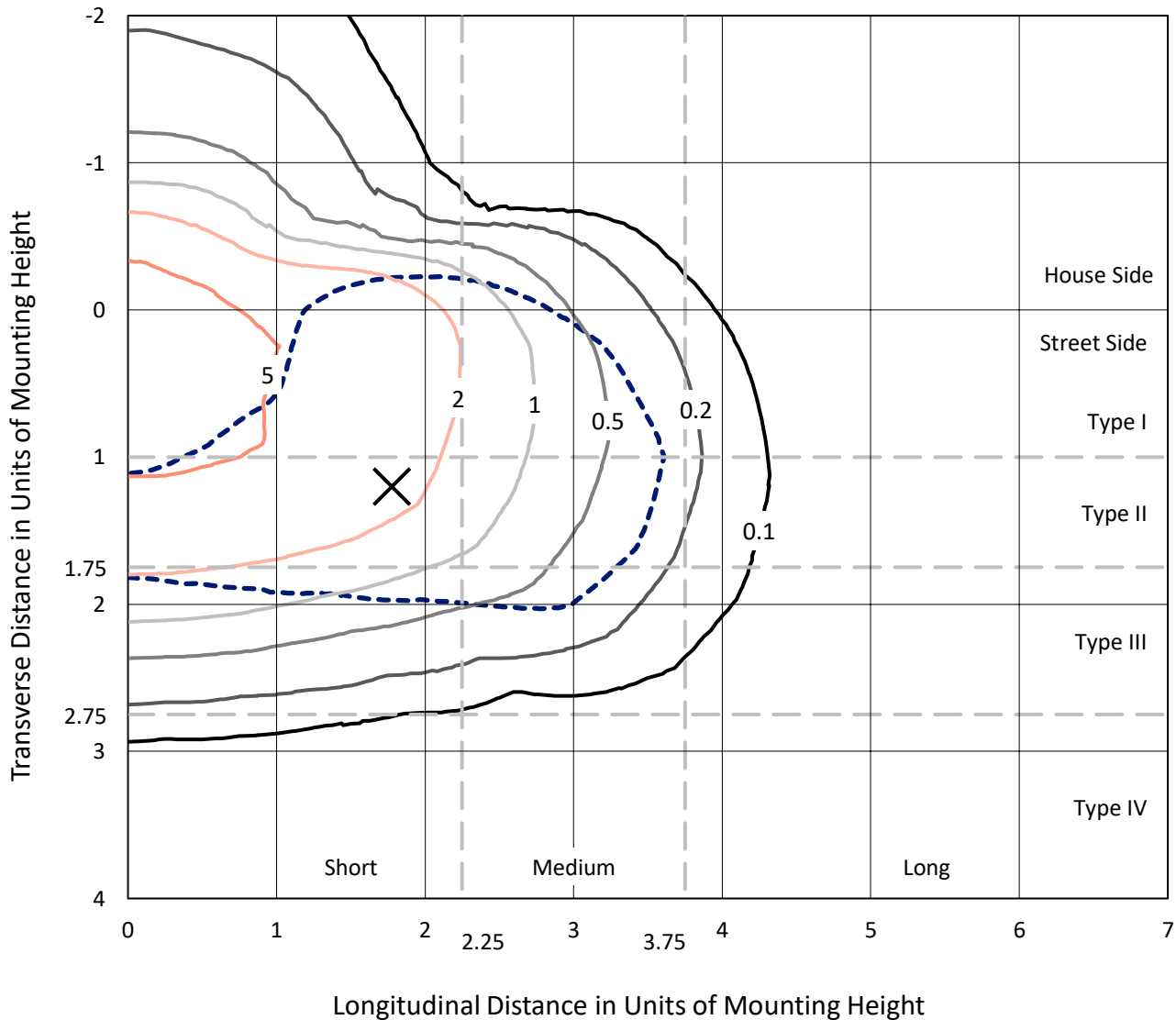
Lumens per Lamp: N/A
Luminaire Lumens: 45151.9 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 369
Input Voltage (V): 120
Input Current (Ain): 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

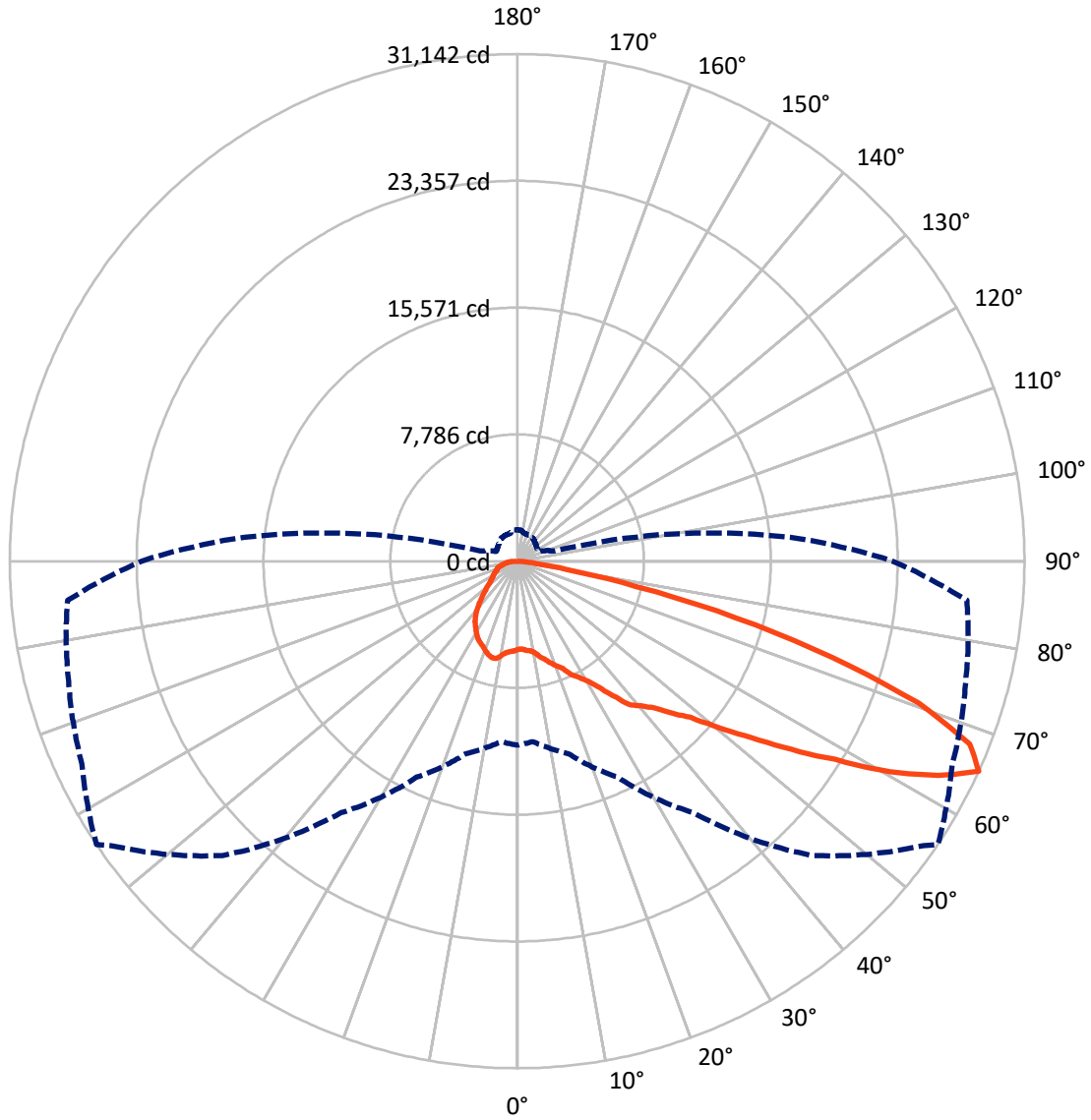
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7 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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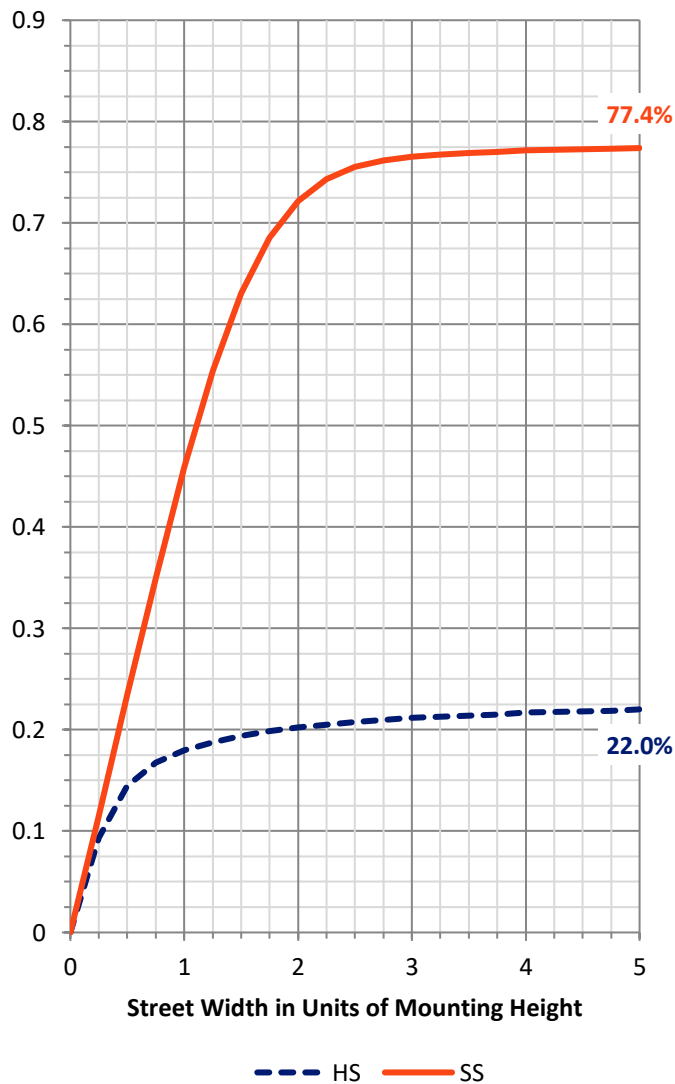
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10126.1	0.0	10126.1
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	35025.8	0.0	35025.8
	% Fixture	77.6	0.0	77.6
Total	Lumens	45151.9	0.0	45151.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	537.0	1.2
10°-20°	1743.9	3.9
20°-30°	3105.1	6.9
30°-40°	4649.8	10.3
40°-50°	6889.3	15.3
50°-60°	10615.4	23.5
60°-70°	12017.9	26.6
70°-80°	4987.6	11.0
80°-90°	605.9	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°	45151.9	100.0
0°-180°	45151.9	100.0

Coefficient of Utilization

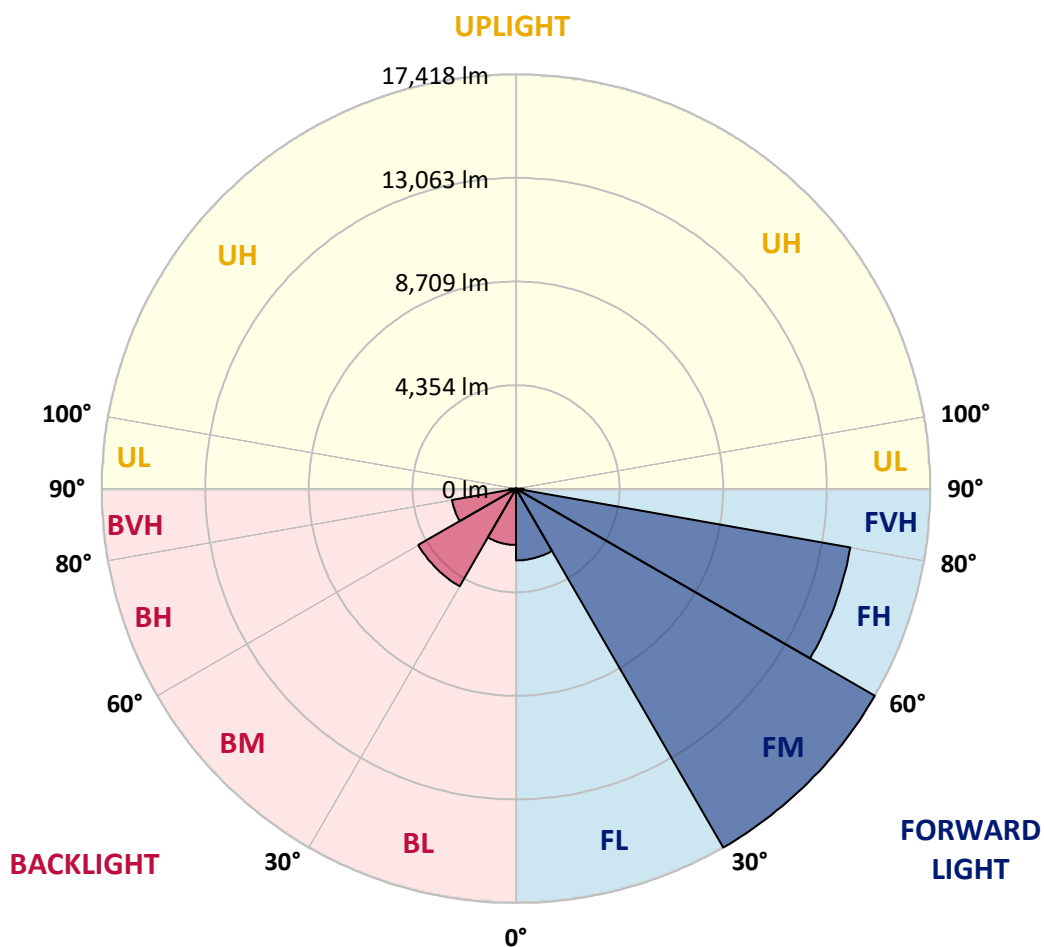


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3017.5	6.7			
FM (30°-60°)	17417.6	38.6			
FH (60°-80°)	14271.1	31.6			G5
FVH (80°-90°)	319.6	0.7			G3/500
BL (0°-30°)	2368.6	5.2	B3/2500		
BM (30°-60°)	4736.8	10.5	B3/5000		
BH (60°-80°)	2734.4	6.1	B4/5000		G4/5000
BVH (80°-90°)	286.3	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	5419.5	5419.5	5419.5	5419.5	5419.5	5419.5	5419.5	5419.5	5419.5	5419.5
2.5°	5277.8	5306.1	5287.2	5343.9	5391.2	5391.2	5429.0	5400.6	5438.4	5490.4
5°	5452.6	5339.2	5400.6	5429.0	5414.8	5438.4	5400.6	5495.1	5433.7	5532.9
7.5°	5495.1	5537.6	5589.6	5542.4	5584.9	5561.3	5566.0	5551.8	5518.7	5599.1
10°	5807.0	5745.5	5863.7	5792.8	5783.3	5773.9	5755.0	5684.1	5764.4	5769.2
12.5°	6166.1	6109.4	6104.6	6047.9	6123.5	5986.5	6014.9	5977.1	5991.2	6010.1
15°	6425.9	6402.3	6511.0	6444.8	6345.6	6284.2	6350.3	6246.4	6298.4	6288.9
17.5°	6940.9	6936.2	6855.9	6747.2	6690.5	6600.8	6586.6	6544.1	6581.9	6563.0
20°	7300.0	7352.0	7366.2	7238.6	7021.3	6922.0	6898.4	6865.3	6907.9	6893.7
22.5°	7848.1	7767.8	7829.2	7607.2	7526.8	7290.6	7205.5	7158.3	7361.5	7309.5
25°	8197.8	8282.8	8221.4	8145.8	7966.3	7673.3	7611.9	7715.8	7796.2	7739.5
27.5°	8986.8	8901.8	8845.1	8618.3	8500.2	8193.1	8122.2	8084.4	8103.3	8136.4
30°	9586.9	9634.2	9506.6	9345.9	9048.3	8736.4	8571.1	8538.0	8471.8	8415.1
32.5°	10442.1	10371.3	10295.7	10191.7	9936.6	9525.5	9364.8	9242.0	9043.5	8779.0
35°	10853.2	11056.4	10999.7	10720.9	10527.2	10371.3	10324.0	10135.0	9969.6	9553.8
37.5°	11538.3	11623.4	11543.0	11453.3	11363.5	11198.1	11141.4	11193.4	10867.4	10182.3
40°	11982.5	12162.0	12327.4	12077.0	12058.1	12091.1	11741.5	11680.1	11009.1	10650.0
42.5°	12889.7	12965.3	12998.3	12988.9	13097.6	13097.6	12431.3	12299.0	11821.8	11528.9
45°	14089.8	14151.2	14269.3	14354.4	14231.5	14293.0	13343.3	13291.3	12866.0	12809.3
47.5°	15129.3	15275.8	15540.4	15790.8	15951.4	15743.5	14704.0	14335.5	14226.8	14567.0
50°	16036.5	15861.6	16480.6	16735.8	17439.8	17784.7	16206.6	16060.1	15885.3	16537.3
52.5°	16126.2	16362.5	17236.6	17746.9	19197.5	19835.3	18049.3	17987.9	17775.3	18526.5
55°	16768.8	16740.5	17619.3	18725.0	20449.6	21522.1	20449.6	20411.8	19948.7	20662.2
57.5°	16660.2	16948.4	17643.0	19188.0	21578.8	23331.8	23232.6	22972.7	22325.4	22906.5
60°	16291.6	16367.2	17213.0	19173.8	22235.6	25188.7	26237.6	26289.6	24966.6	25429.7
62.5°	14203.2	14378.0	15450.6	17666.6	21767.8	26469.2	29171.8	28987.5	27929.2	27400.0
65°	11297.3	11122.5	12237.6	14633.2	18857.3	25562.0	30457.0	31142.1	29478.9	28510.3
67.5°	6926.8	6884.2	7956.8	10068.9	14108.7	21753.7	29431.7	29965.6	29049.0	28274.1
70°	3567.3	3458.7	4129.6	5618.0	8868.7	15960.9	25613.9	26138.4	27012.5	25358.8
72.5°	1663.2	1639.6	1998.7	2764.1	4517.0	9383.7	19835.3	20213.3	22056.1	21380.4
75°	978.1	992.2	1195.4	1445.8	2201.8	4422.6	13163.7	13896.1	15894.7	15408.1
77.5°	732.4	732.4	850.5	1006.4	1285.2	1710.4	6496.8	7465.4	9294.0	8358.4
80°	538.6	548.1	652.0	756.0	893.0	883.6	2579.8	3024.0	4261.9	3642.9
82.5°	420.5	434.7	505.6	562.3	628.4	533.9	1058.4	1138.7	1753.0	1393.9
85°	292.9	302.4	396.9	382.7	382.7	297.7	439.4	463.0	694.6	661.5
87.5°	70.9	80.3	193.7	212.6	160.6	89.8	137.0	155.9	250.4	288.2
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°
5419.5	0°	5419.5	5419.5	5419.5	5419.5	5419.5	5419.5	5419.5	5419.5	5419.5	5419.5
5514.0	2.5°	5443.1	5462.0	5542.4	5499.8	5523.5	5424.2	5504.6	5438.4	5495.1	5466.8
5556.5	5°	5594.3	5551.8	5599.1	5566.0	5566.0	5603.8	5660.5	5618.0	5703.0	5665.2
5589.6	7.5°	5655.8	5660.5	5688.8	5693.6	5669.9	5788.1	5792.8	5778.6	5858.9	5840.0
5816.4	10°	5807.0	5811.7	5863.7	5892.0	5868.4	5910.9	5863.7	5825.9	5821.1	5802.2
5996.0	12.5°	6047.9	6095.2	6085.7	6109.4	6114.1	5934.5	5825.9	5641.6	5618.0	5641.6
6260.6	15°	6270.0	6251.1	6260.6	6307.8	6109.4	5821.1	5627.4	5471.5	5480.9	5485.7
6605.5	17.5°	6534.6	6548.8	6563.0	6345.6	5981.8	5641.6	5471.5	5471.5	5424.2	5443.1
6846.4	20°	6837.0	6780.3	6657.5	6350.3	5759.7	5433.7	5381.7	5381.7	5325.0	5287.2
7106.3	22.5°	7073.2	6959.8	6775.6	6203.9	5561.3	5353.4	5225.8	5136.0	5069.9	4994.3
7394.5	25°	7224.4	7163.0	6803.9	6052.7	5414.8	5140.7	4951.7	4814.7	4729.7	4630.4
7621.3	27.5°	7456.0	7337.8	6884.2	5877.8	5254.1	4928.1	4635.2	4422.6	4261.9	4158.0
7966.3	30°	7767.8	7597.7	6827.5	5627.4	5008.4	4559.6	4214.7	3940.6	3756.3	3671.3
8292.3	32.5°	8023.0	7800.9	6780.3	5400.6	4734.4	4186.3	3728.0	3449.2	3345.3	3236.6
8840.4	35°	8509.6	8070.2	6747.2	5273.0	4488.7	3813.0	3331.1	3090.1	2957.8	2797.2
9166.4	37.5°	8882.9	8538.0	6666.9	5008.4	4172.1	3449.2	3028.7	2811.3	2612.9	2442.8
9922.4	40°	9468.8	9190.0	6671.6	4635.2	3798.9	3137.4	2792.4	2565.6	2315.2	2168.8
11042.2	42.5°	10569.7	9832.6	6700.0	4337.5	3378.3	2882.2	2579.8	2310.5	2060.1	1937.2
12317.9	45°	11921.0	10716.2	6525.2	4068.2	2948.4	2641.2	2324.7	2055.4	1894.7	1804.9
14052.0	47.5°	13475.5	11580.8	6288.9	3562.6	2589.3	2386.1	2088.4	1932.5	1814.4	1762.4
16286.9	50°	15214.3	12818.8	6222.8	3099.6	2310.5	2168.8	1975.0	1856.9	1776.6	1715.2
18805.3	52.5°	17454.0	14259.9	6090.5	2622.3	2069.5	1993.9	1932.5	1852.2	1781.3	1729.3
21153.6	55°	19594.4	15856.9	5948.7	2230.2	1899.4	1908.9	1942.0	1871.1	1809.7	1729.3
23785.4	57.5°	22004.1	17487.0	5424.2	1942.0	1771.9	1866.4	1932.5	1852.2	1790.8	1729.3
26478.6	60°	23492.4	18403.7	4398.9	1691.5	1658.5	1786.0	1875.8	1790.8	1724.6	1748.2
27716.5	62.5°	24097.2	17921.7	3316.9	1535.6	1578.1	1677.4	1786.0	1753.0	1705.7	1795.5
27702.4	65°	23067.2	16811.4	2371.9	1403.3	1469.5	1568.7	1705.7	1743.5	1757.7	1932.5
25443.8	67.5°	20525.2	14637.9	1743.5	1294.6	1356.1	1502.5	1762.4	1823.8	1814.4	2031.7
21352.0	70°	16423.9	11448.5	1360.8	1204.9	1313.5	1554.5	1842.7	1842.7	1776.6	2031.7
16286.9	72.5°	11949.4	8070.2	1171.8	1100.9	1204.9	1426.9	1833.3	1828.6	1743.5	1856.9
10371.3	75°	7233.9	4696.6	1034.8	997.0	1034.8	1223.8	1753.0	1724.6	1606.5	1597.0
4989.5	77.5°	3605.1	2362.5	845.8	883.6	902.5	1025.3	1540.3	1582.9	1422.2	1384.4
1970.3	80°	1521.4	1030.0	704.0	760.7	760.7	864.7	1280.5	1308.8	1181.2	1110.4
779.6	82.5°	694.6	590.6	600.1	661.5	619.0	670.9	1015.9	1048.9	959.2	841.0
330.7	85°	292.9	335.5	458.3	519.7	458.3	434.7	699.3	737.1	623.7	519.7
141.7	87.5°	132.3	184.3	288.2	378.0	231.5	203.2	373.3	387.4	311.8	231.5
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>
5419.5
5414.8
5613.2
5811.7
5802.2
5651.0
5551.8
5447.9
5230.5
4951.7
4649.3
4205.2
3718.5
3231.9
2783.0
2447.5
2182.9
1946.7
1823.8
1753.0
1724.6
1724.6
1724.6
1724.6
1729.3
1771.9
1932.5
2045.9
1989.2
1790.8
1578.1
1360.8
1086.7
822.1
524.5
217.3
0.0

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