

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: P477355

Luminaire Tested: **IFLD-S-SA6D-735-U-T3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477355
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-735-U-T3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

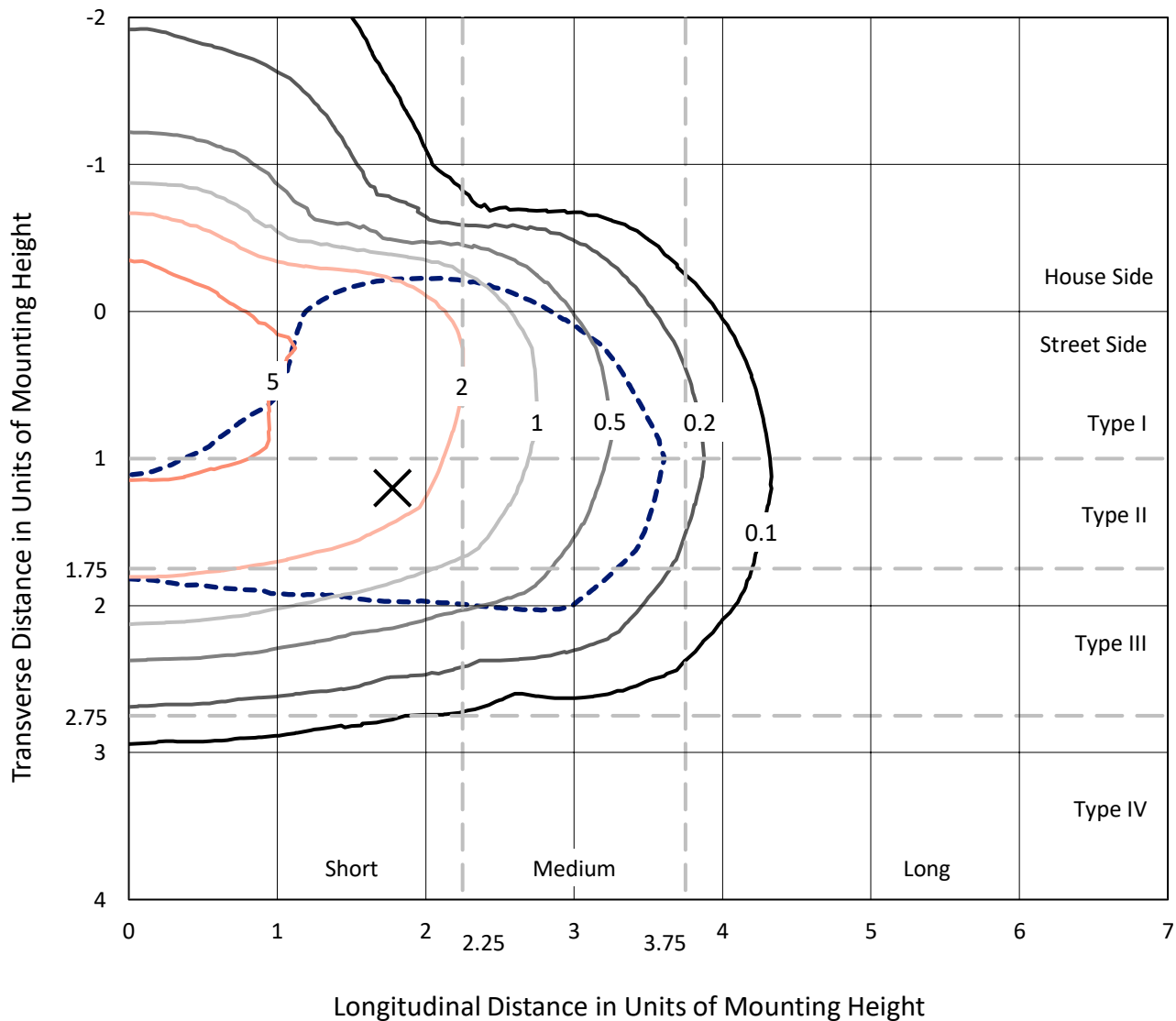
Lumens per Lamp: N/A
Luminaire Lumens: 45930.6 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 368.2
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

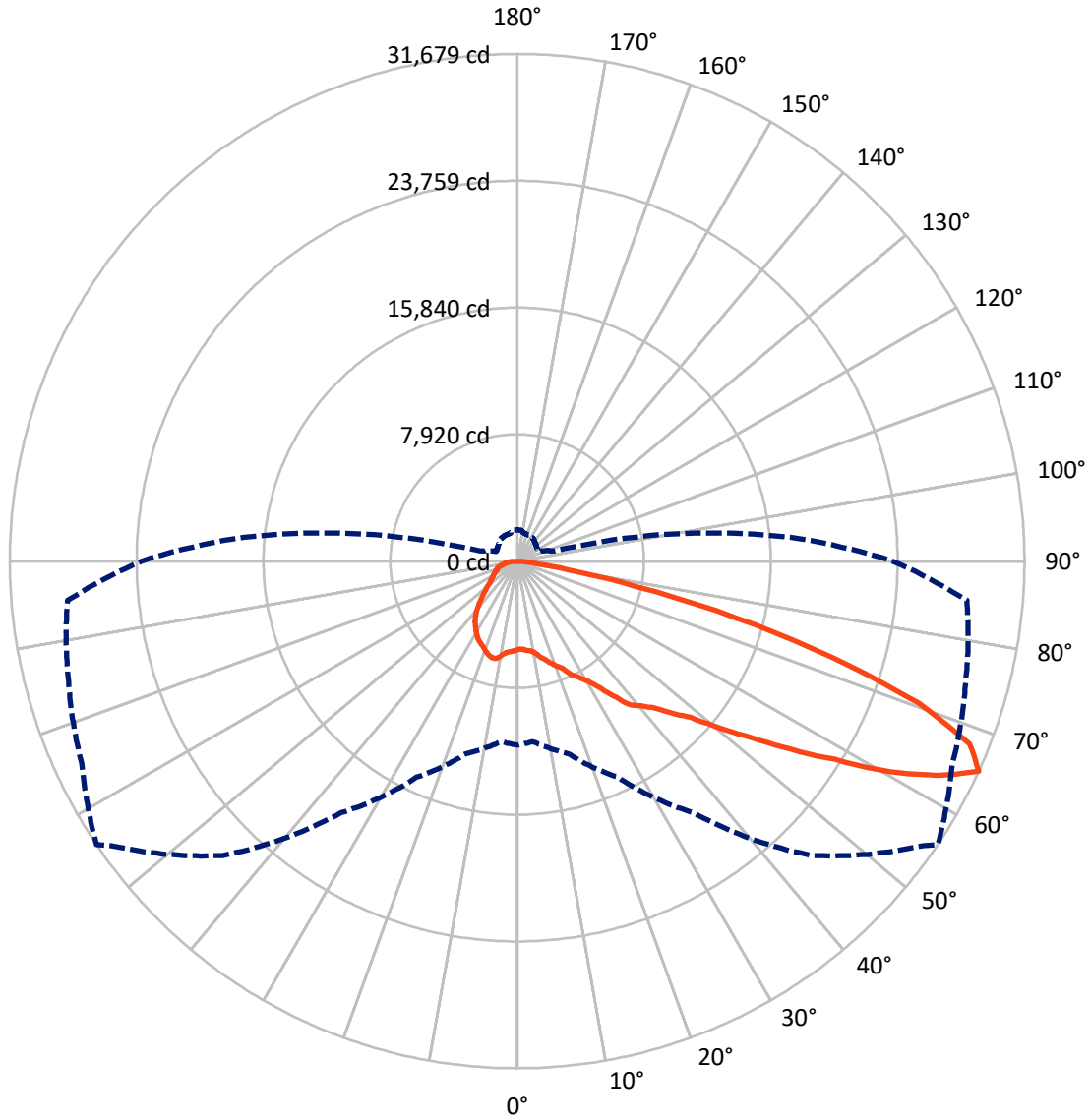
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.1 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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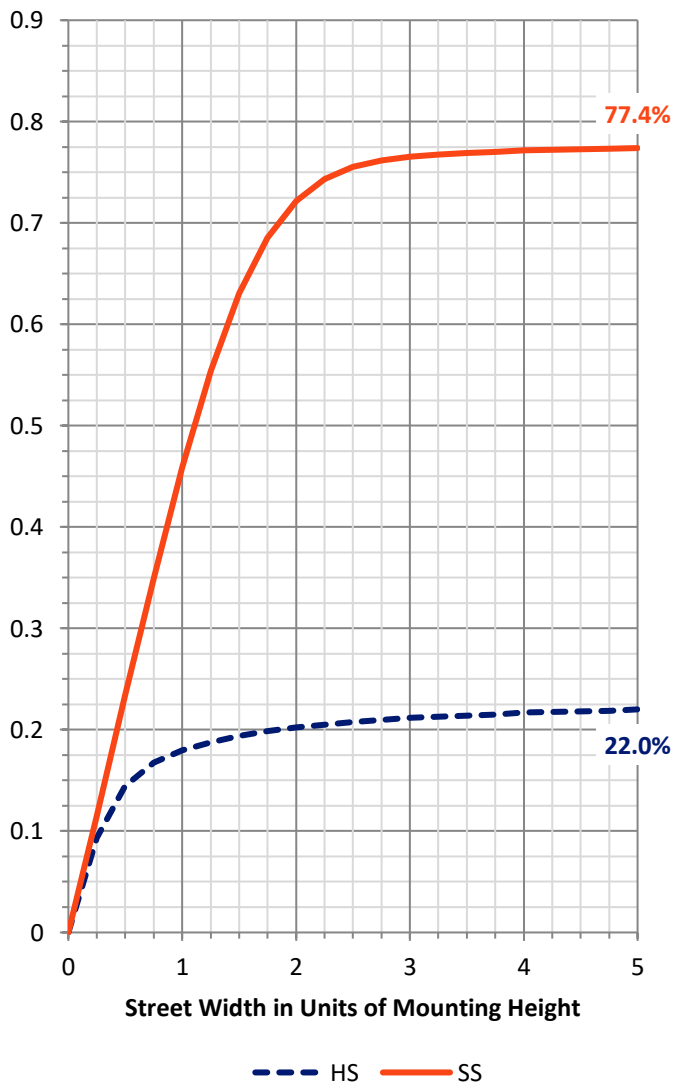
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10300.8	0.0	10300.8
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	35629.9	0.0	35629.9
	% Fixture	77.6	0.0	77.6
Total	Lumens	45930.6	0.0	45930.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	546.3	1.2
10°-20°	1774.0	3.9
20°-30°	3158.7	6.9
30°-40°	4730.0	10.3
40°-50°	7008.1	15.3
50°-60°	10798.5	23.5
60°-70°	12225.2	26.6
70°-80°	5073.6	11.0
80°-90°	616.4	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°	45930.6	100.0
0°-180°	45930.6	100.0

Coefficient of Utilization

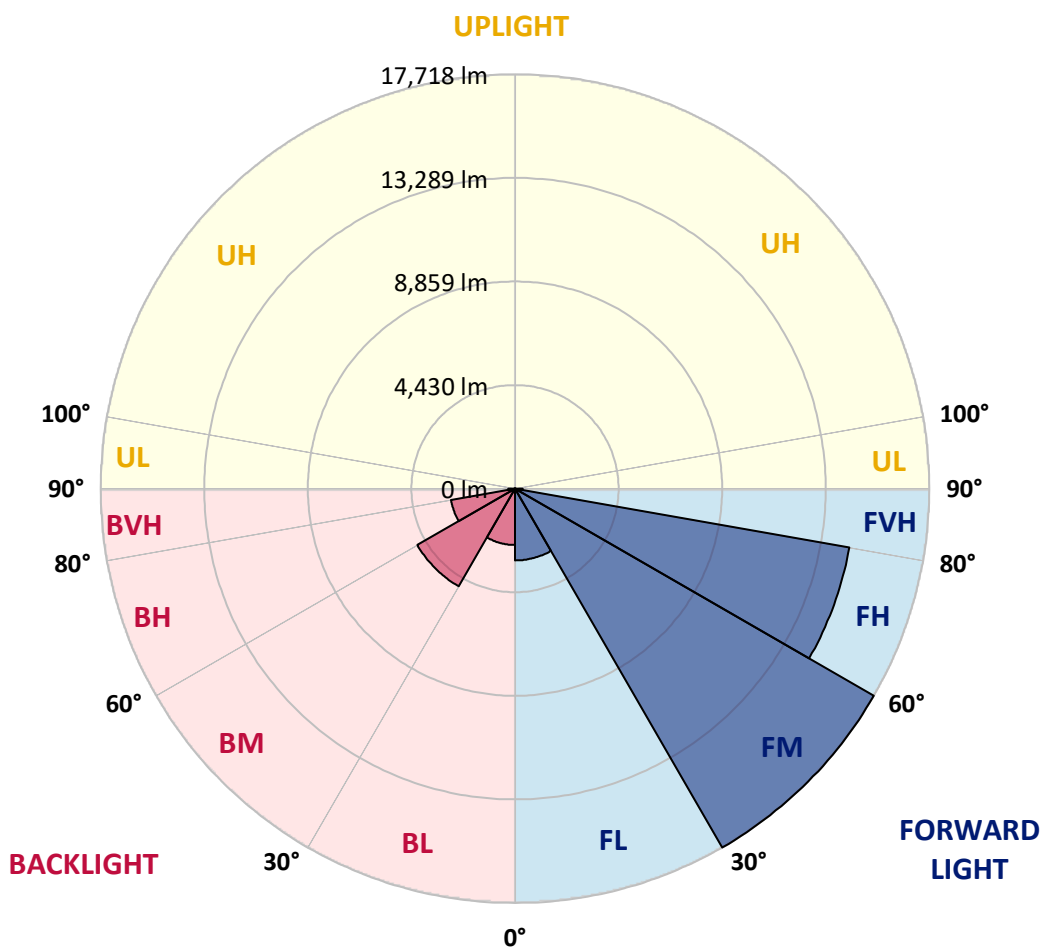


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3069.5	6.7			
FM (30°-60°)	17718.0	38.6			
FH (60°-80°)	14517.2	31.6			G5
FVH (80°-90°)	325.1	0.7			G3/500
BL (0°-30°)	2409.4	5.2	B3/2500		
BM (30°-60°)	4818.5	10.5	B3/5000		
BH (60°-80°)	2781.6	6.1	B4/5000		G4/5000
BVH (80°-90°)	291.3	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°	5513.0	5513.0	5513.0	5513.0	5513.0	5513.0	5513.0	5513.0	5513.0	5513.0
2.5°	5368.8	5397.6	5378.4	5436.1	5484.1	5484.1	5522.6	5493.8	5532.2	5585.1
5°	5546.6	5431.3	5493.8	5522.6	5508.2	5532.2	5493.8	5589.9	5527.4	5628.3
7.5°	5589.9	5633.1	5686.0	5638.0	5681.2	5657.2	5662.0	5647.6	5613.9	5695.6
10°	5907.1	5844.6	5964.8	5892.7	5883.1	5873.5	5854.2	5782.1	5863.9	5868.7
12.5°	6272.4	6214.7	6209.9	6152.2	6229.1	6089.8	6118.6	6080.1	6094.6	6113.8
15°	6536.8	6512.7	6623.3	6556.0	6455.0	6392.6	6459.9	6354.1	6407.0	6397.4
17.5°	7060.7	7055.9	6974.1	6863.6	6805.9	6714.6	6700.2	6656.9	6695.4	6676.1
20°	7426.0	7478.8	7493.2	7363.5	7142.4	7041.4	7017.4	6983.8	7027.0	7012.6
22.5°	7983.5	7901.8	7964.3	7738.4	7656.7	7416.3	7329.8	7281.8	7488.4	7435.6
25°	8339.2	8425.7	8363.2	8286.3	8103.7	7805.7	7743.2	7848.9	7930.6	7872.9
27.5°	9141.8	9055.3	8997.7	8766.9	8646.8	8334.4	8262.3	8223.8	8243.0	8276.7
30°	9752.3	9800.3	9670.6	9507.1	9204.3	8887.1	8718.9	8685.2	8617.9	8560.3
32.5°	10622.2	10550.1	10473.2	10367.5	10107.9	9689.8	9526.4	9401.4	9199.5	8930.4
35°	11040.4	11247.1	11189.4	10905.8	10708.7	10550.1	10502.1	10309.8	10141.6	9718.6
37.5°	11737.3	11823.8	11742.1	11650.8	11559.5	11391.3	11333.6	11386.5	11054.8	10357.9
40°	12189.1	12371.8	12540.0	12285.3	12266.0	12299.7	11944.0	11881.5	11199.0	10833.7
42.5°	13112.0	13188.9	13222.5	13212.9	13323.5	13323.5	12645.7	12511.2	12025.7	11727.7
45°	14332.8	14395.3	14515.4	14602.0	14477.0	14539.5	13573.4	13520.5	13087.9	13030.3
47.5°	15390.2	15539.2	15808.4	16063.1	16226.5	16015.1	14957.6	14582.7	14472.2	14818.3
50°	16313.1	16135.2	16764.9	17024.4	17740.6	18091.4	16486.1	16337.1	16159.3	16822.5
52.5°	16404.4	16644.7	17533.9	18053.0	19528.6	20177.4	18360.6	18298.1	18081.8	18846.1
55°	17058.1	17029.2	17923.2	19047.9	20802.3	21893.3	20802.3	20763.8	20292.8	21018.6
57.5°	16947.5	17240.7	17947.2	19519.0	21951.0	23734.2	23633.3	23368.9	22710.4	23301.6
60°	16572.6	16649.5	17509.9	19504.5	22619.1	25623.1	26690.2	26743.0	25397.2	25868.3
62.5°	14448.2	14626.0	15717.1	17971.3	22143.3	26925.7	29675.0	29487.5	28410.9	27872.5
65°	11492.2	11314.4	12448.7	14885.5	19182.5	26002.8	30982.3	31679.2	29987.4	29002.1
67.5°	7046.2	7003.0	8094.0	10242.5	14352.0	22128.9	29939.3	30482.4	29550.0	28761.7
70°	3628.9	3518.3	4200.8	5714.9	9021.7	16236.2	26055.7	26589.2	27478.4	25796.2
72.5°	1691.9	1667.8	2033.1	2811.8	4595.0	9545.6	20177.4	20562.0	22436.5	21749.1
75°	994.9	1009.4	1216.0	1470.8	2239.8	4498.8	13390.7	14135.7	16168.9	15673.8
77.5°	745.0	745.0	865.2	1023.8	1307.4	1739.9	6608.9	7594.2	9454.3	8502.6
80°	547.9	557.5	663.3	769.0	908.4	898.8	2624.3	3076.1	4335.4	3705.8
82.5°	427.8	442.2	514.3	572.0	639.3	543.1	1076.6	1158.4	1783.2	1417.9
85°	298.0	307.6	403.7	389.3	389.3	302.8	447.0	471.0	706.5	672.9
87.5°	72.1	81.7	197.1	216.3	163.4	91.3	139.4	158.6	254.7	293.2
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°
5513.0	0°	5513.0	5513.0	5513.0	5513.0	5513.0	5513.0	5513.0	5513.0	5513.0	5513.0
5609.1	2.5°	5537.0	5556.2	5638.0	5594.7	5618.7	5517.8	5599.5	5532.2	5589.9	5561.1
5652.4	5°	5690.8	5647.6	5695.6	5662.0	5662.0	5700.4	5758.1	5714.9	5801.4	5762.9
5686.0	7.5°	5753.3	5758.1	5787.0	5791.8	5767.7	5887.9	5892.7	5878.3	5960.0	5940.8
5916.7	10°	5907.1	5911.9	5964.8	5993.6	5969.6	6012.9	5964.8	5926.3	5921.5	5902.3
6099.4	12.5°	6152.2	6200.3	6190.7	6214.7	6219.5	6036.9	5926.3	5738.9	5714.9	5738.9
6368.5	15°	6378.1	6358.9	6368.5	6416.6	6214.7	5921.5	5724.5	5565.9	5575.5	5580.3
6719.4	17.5°	6647.3	6661.7	6676.1	6455.0	6085.0	5738.9	5565.9	5565.9	5517.8	5537.0
6964.5	20°	6954.9	6897.2	6772.3	6459.9	5859.1	5527.4	5474.5	5474.5	5416.9	5378.4
7228.9	22.5°	7195.2	7079.9	6892.4	6310.9	5657.2	5445.7	5315.9	5224.6	5157.3	5080.4
7522.1	25°	7349.0	7286.6	6921.3	6157.0	5508.2	5229.4	5037.1	4897.8	4811.2	4710.3
7752.8	27.5°	7584.6	7464.4	7003.0	5979.2	5344.8	5013.1	4715.1	4498.8	4335.4	4229.7
8103.7	30°	7901.8	7728.8	6945.3	5724.5	5094.8	4638.2	4287.3	4008.6	3821.1	3734.6
8435.3	32.5°	8161.3	7935.4	6897.2	5493.8	4816.1	4258.5	3792.3	3508.7	3403.0	3292.4
8992.8	35°	8656.4	8209.4	6863.6	5364.0	4566.1	3878.8	3388.5	3143.4	3008.8	2845.4
9324.5	37.5°	9036.1	8685.2	6781.9	5094.8	4244.1	3508.7	3080.9	2859.8	2658.0	2484.9
10093.5	40°	9632.1	9348.5	6786.7	4715.1	3864.4	3191.5	2840.6	2609.9	2355.2	2206.2
11232.7	42.5°	10752.0	10002.2	6815.5	4412.3	3436.6	2931.9	2624.3	2350.3	2095.6	1970.6
12530.4	45°	12126.6	10901.0	6637.7	4138.3	2999.2	2686.8	2364.8	2090.8	1927.4	1836.1
14294.4	47.5°	13708.0	11780.6	6397.4	3624.1	2633.9	2427.3	2124.4	1965.8	1845.7	1792.8
16567.8	50°	15476.7	13039.9	6330.1	3153.0	2350.3	2206.2	2009.1	1888.9	1807.2	1744.7
19129.6	52.5°	17755.0	14505.8	6195.5	2667.6	2105.2	2028.3	1965.8	1884.1	1812.0	1759.2
21518.4	55°	19932.3	16130.4	6051.3	2268.6	1932.2	1941.8	1975.4	1903.4	1840.9	1759.2
24195.6	57.5°	22383.6	17788.6	5517.8	1975.4	1802.4	1898.5	1965.8	1884.1	1821.6	1759.2
26935.3	60°	23897.6	18721.1	4474.8	1720.7	1687.1	1816.8	1908.2	1821.6	1754.4	1778.4
28194.6	62.5°	24512.8	18230.8	3374.1	1562.1	1605.4	1706.3	1816.8	1783.2	1735.1	1826.4
28180.2	65°	23465.0	17101.3	2412.8	1427.5	1494.8	1595.7	1735.1	1773.6	1788.0	1965.8
25882.7	67.5°	20879.2	14890.4	1773.6	1317.0	1379.4	1528.4	1792.8	1855.3	1845.7	2066.8
21720.3	70°	16707.2	11646.0	1384.3	1225.6	1336.2	1581.3	1874.5	1874.5	1807.2	2066.8
16567.8	72.5°	12155.5	8209.4	1192.0	1119.9	1225.6	1451.5	1864.9	1860.1	1773.6	1888.9
10550.1	75°	7358.7	4777.6	1052.6	1014.2	1052.6	1244.9	1783.2	1754.4	1634.2	1624.6
5075.6	77.5°	3667.3	2403.2	860.4	898.8	918.0	1043.0	1566.9	1610.2	1446.7	1408.3
2004.3	80°	1547.7	1047.8	716.2	773.8	773.8	879.6	1302.5	1331.4	1201.6	1129.5
793.1	82.5°	706.5	600.8	610.4	672.9	629.6	682.5	1033.4	1067.0	975.7	855.5
336.5	85°	298.0	341.3	466.2	528.7	466.2	442.2	711.4	749.8	634.5	528.7
144.2	87.5°	134.6	187.5	293.2	384.5	235.5	206.7	379.7	394.1	317.2	235.5
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>
5513.0
5508.2
5710.1
5911.9
5902.3
5748.5
5647.6
5541.8
5320.7
5037.1
4729.5
4277.7
3782.7
3287.6
2831.0
2489.7
2220.6
1980.3
1855.3
1783.2
1754.4
1754.4
1754.4
1754.4
1759.2
1802.4
1965.8
2081.2
2023.5
1821.6
1605.4
1384.3
1105.5
836.3
533.5
221.1
0.0

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