

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: P477352

Luminaire Tested: **IFLD-S-SA6A-735-U-T3**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P477352  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6A-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**

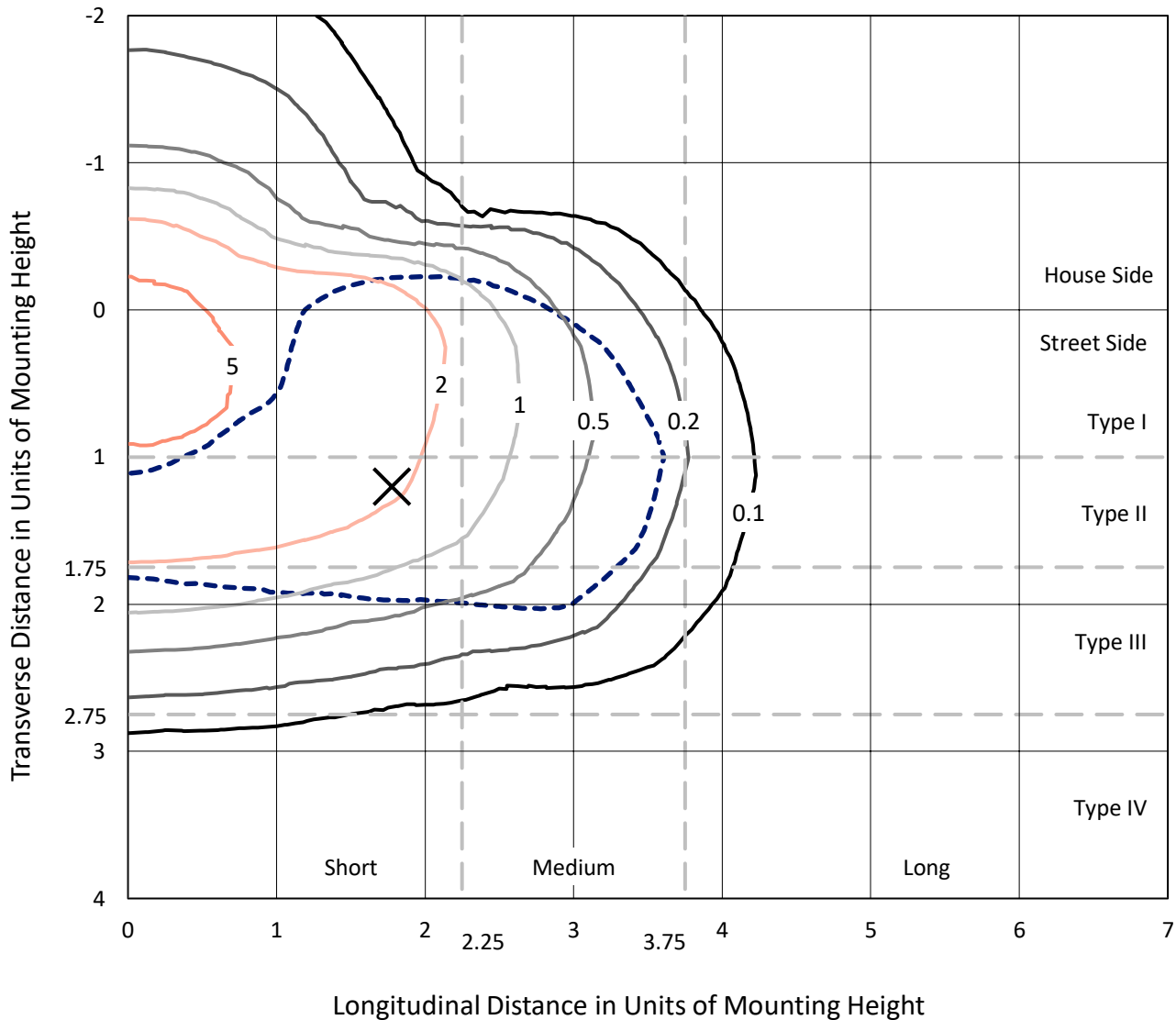
Lumens per Lamp: N/A  
Luminaire Lumens: 27113.2 lumens  
Efficiency: N/A  
Efficacy: 143.0 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 189.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

REPORT NUMBER: P477352  
 CATALOG NUMBER: IFLD-S-SA6A-735-U-T3

### Iso-Footcandle Lines of Horizontal Illumination

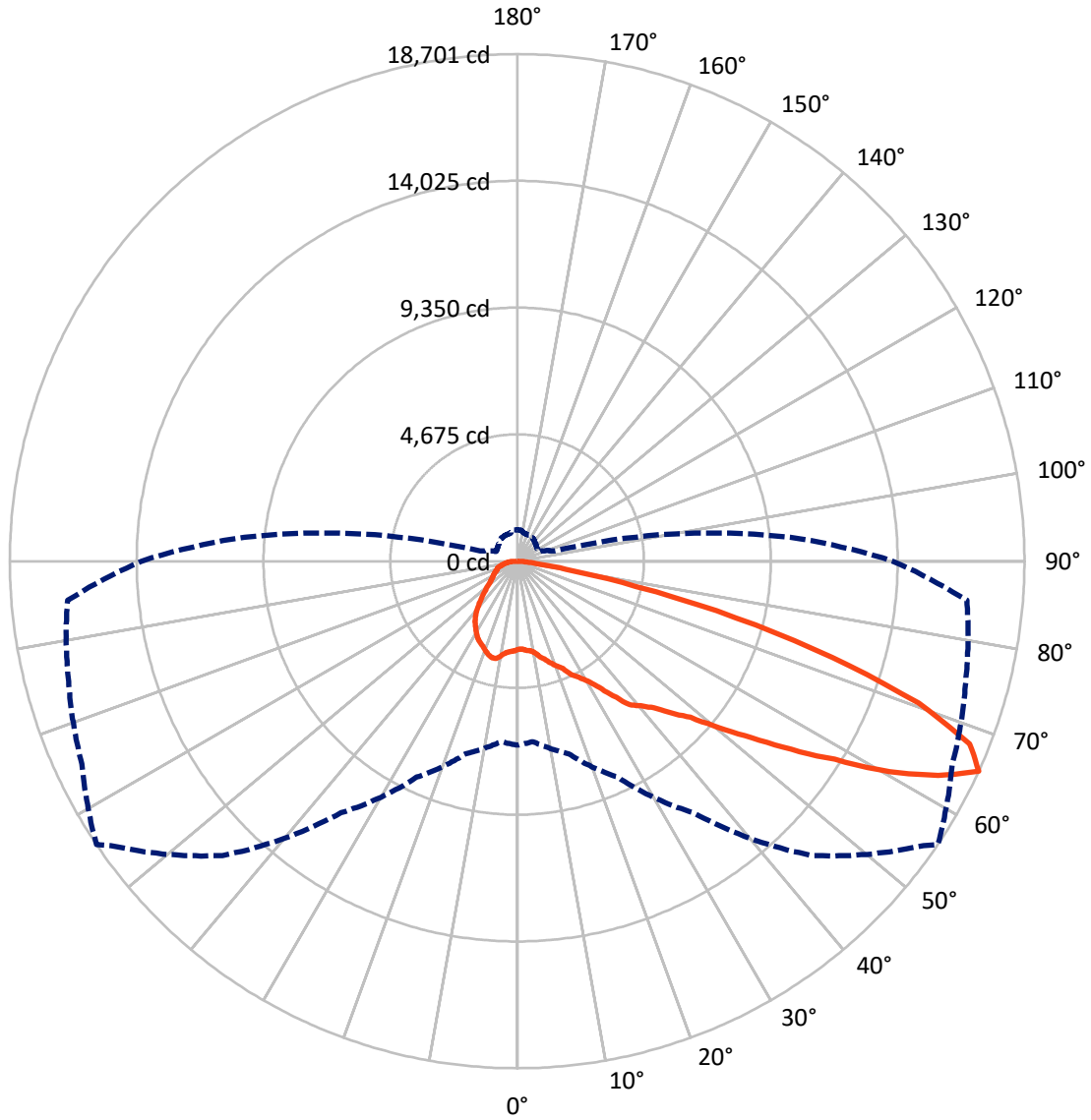
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc  
 Type III - Short - N/A

REPORT NUMBER: P477352  
CATALOG NUMBER: IFLD-S-SA6A-735-U-T3

### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P477352  
 CATALOG NUMBER: IFLD-S-SA6A-735-U-T3

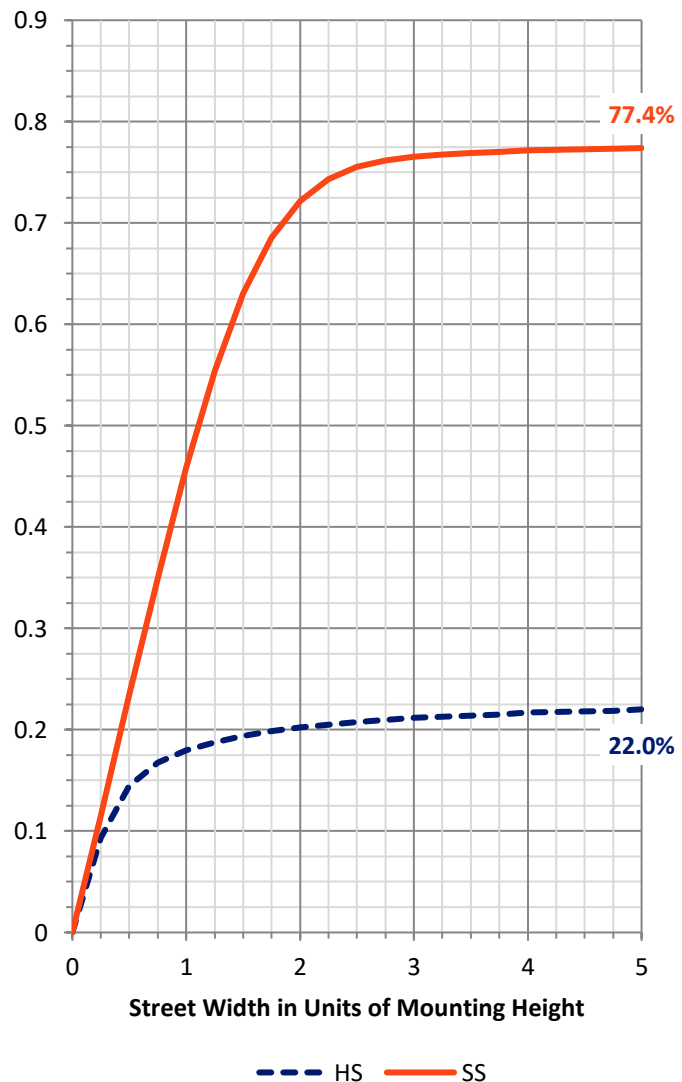
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6080.6	0.0	6080.6
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	21032.6	0.0	21032.6
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	27113.2	0.0	27113.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	322.5	1.2
10°-20°	1047.2	3.9
20°-30°	1864.6	6.9
30°-40°	2792.2	10.3
40°-50°	4136.9	15.3
50°-60°	6374.4	23.5
60°-70°	7216.6	26.6
70°-80°	2995.0	11.0
80°-90°	363.9	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°	27113.2	100.0
0°-180°	27113.2	100.0

**Coefficient of Utilization**



REPORT NUMBER: P477352

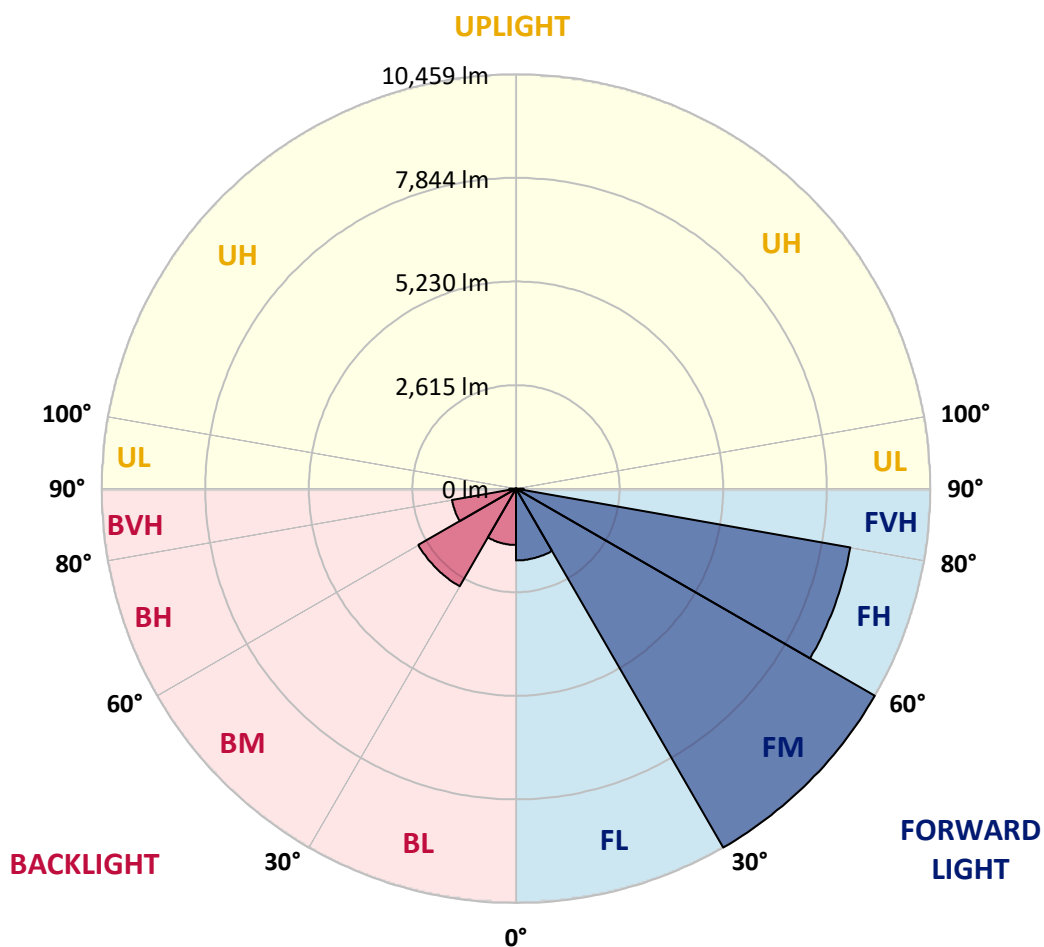
CATALOG NUMBER: IFLD-S-SA6A-735-U-T3

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1812.0	6.7			
FM (30°-60°)	10459.1	38.6			
FH (60°-80°)	8569.6	31.6			G4/12000
FVH (80°-90°)	191.9	0.7			G2/225
BL (0°-30°)	1422.3	5.2	B3/2500		
BM (30°-60°)	2844.4	10.5	B3/5000		
BH (60°-80°)	1642.0	6.1	B3/2500		G3/2500
BVH (80°-90°)	171.9	0.6			G2/225
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





REPORT NUMBER: P477352  
 CATALOG NUMBER: IFLD-S-SA6A-735-U-T3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°
0°	3254.4	3254.4	3254.4	3254.4	3254.4	3254.4	3254.4	3254.4	3254.4	3254.4
2.5°	3169.2	3186.3	3174.9	3209.0	3237.3	3237.3	3260.0	3243.0	3265.7	3296.9
5°	3274.2	3206.1	3243.0	3260.0	3251.5	3265.7	3243.0	3299.8	3262.9	3322.5
7.5°	3299.8	3325.3	3356.5	3328.1	3353.7	3339.5	3342.3	3333.8	3313.9	3362.2
10°	3487.0	3450.1	3521.1	3478.5	3472.8	3467.2	3455.8	3413.2	3461.5	3464.3
12.5°	3702.6	3668.6	3665.8	3631.7	3677.1	3594.8	3611.9	3589.2	3597.7	3609.0
15°	3858.7	3844.5	3909.8	3870.0	3810.5	3773.6	3813.3	3750.9	3782.1	3776.4
17.5°	4168.0	4165.1	4116.9	4051.6	4017.6	3963.7	3955.2	3929.6	3952.3	3941.0
20°	4383.6	4414.8	4423.3	4346.7	4216.2	4156.6	4142.4	4122.6	4148.1	4139.6
22.5°	4712.7	4664.5	4701.4	4568.0	4519.8	4377.9	4326.8	4298.5	4420.5	4389.3
25°	4922.7	4973.7	4936.9	4891.5	4783.6	4607.7	4570.9	4633.3	4681.5	4647.5
27.5°	5396.5	5345.4	5311.4	5175.2	5104.3	4919.8	4877.3	4854.6	4865.9	4885.8
30°	5756.8	5785.2	5708.6	5612.1	5433.4	5246.1	5146.8	5127.0	5087.2	5053.2
32.5°	6270.4	6227.8	6182.4	6120.0	5966.8	5720.0	5623.5	5549.7	5430.5	5271.7
35°	6517.2	6639.2	6605.2	6437.8	6321.5	6227.8	6199.5	6086.0	5986.7	5737.0
37.5°	6928.6	6979.7	6931.5	6877.6	6823.7	6724.3	6690.3	6721.5	6525.7	6114.3
40°	7195.3	7303.2	7402.5	7252.1	7240.7	7260.6	7050.6	7013.7	6610.9	6395.2
42.5°	7740.1	7785.5	7805.3	7799.7	7864.9	7864.9	7464.9	7385.4	7098.9	6923.0
45°	8460.8	8497.6	8568.6	8619.6	8545.9	8582.8	8012.5	7981.3	7725.9	7691.9
47.5°	9085.0	9172.9	9331.8	9482.2	9578.6	9453.8	8829.6	8608.3	8543.0	8747.3
50°	9629.7	9524.7	9896.4	10049.6	10472.4	10679.5	9731.9	9643.9	9538.9	9930.5
52.5°	9683.6	9825.5	10350.4	10656.8	11527.9	11910.9	10838.4	10801.5	10673.8	11125.0
55°	10069.5	10052.5	10580.2	11244.1	12279.7	12923.8	12279.7	12257.0	11979.0	12407.4
57.5°	10004.2	10177.3	10594.4	11522.2	12957.8	14010.5	13950.9	13794.8	13406.1	13755.1
60°	9782.9	9828.3	10336.2	11513.7	13352.2	15125.5	15755.4	15786.6	14992.2	15270.2
62.5°	8528.9	8633.8	9277.9	10608.6	13071.3	15894.4	17517.4	17406.7	16771.1	16453.4
65°	6783.9	6679.0	7348.5	8787.0	11323.6	15349.7	18289.1	18700.5	17701.8	17120.1
67.5°	4159.4	4133.9	4778.0	6046.2	8472.1	13062.8	17673.4	17994.0	17443.6	16978.3
70°	2142.1	2076.9	2479.8	3373.5	5325.6	9584.3	15380.9	15695.8	16220.7	15227.7
72.5°	998.7	984.5	1200.2	1659.8	2712.4	5634.8	11910.9	12137.9	13244.4	12838.7
75°	587.3	595.8	717.8	868.2	1322.2	2655.7	7904.7	8344.4	9544.6	9252.4
77.5°	439.8	439.8	510.7	604.3	771.7	1027.1	3901.3	4482.9	5580.9	5019.1
80°	323.4	329.1	391.5	454.0	536.2	530.6	1549.2	1815.9	2559.2	2187.5
82.5°	252.5	261.0	303.6	337.6	377.4	320.6	635.6	683.8	1052.6	837.0
85°	175.9	181.6	238.3	229.8	229.8	178.7	263.9	278.1	417.1	397.2
87.5°	42.6	48.2	116.3	127.7	96.5	53.9	82.3	93.6	150.4	173.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477352  
 CATALOG NUMBER: IFLD-S-SA6A-735-U-T3

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3254.4	0°	3254.4	3254.4	3254.4	3254.4	3254.4	3254.4	3254.4	3254.4	3254.4	3254.4
3311.1	2.5°	3268.5	3279.9	3328.1	3302.6	3316.8	3257.2	3305.4	3265.7	3299.8	3282.7
3336.6	5°	3359.3	3333.8	3362.2	3342.3	3342.3	3365.0	3399.1	3373.5	3424.6	3401.9
3356.5	7.5°	3396.2	3399.1	3416.1	3418.9	3404.7	3475.7	3478.5	3470.0	3518.2	3506.9
3492.7	10°	3487.0	3489.9	3521.1	3538.1	3523.9	3549.4	3521.1	3498.4	3495.5	3484.2
3600.5	12.5°	3631.7	3660.1	3654.4	3668.6	3671.4	3563.6	3498.4	3387.7	3373.5	3387.7
3759.4	15°	3765.1	3753.7	3759.4	3787.8	3668.6	3495.5	3379.2	3285.6	3291.2	3294.1
3966.5	17.5°	3924.0	3932.5	3941.0	3810.5	3592.0	3387.7	3285.6	3285.6	3257.2	3268.5
4111.2	20°	4105.5	4071.5	3997.7	3813.3	3458.6	3262.9	3231.7	3231.7	3197.6	3174.9
4267.3	22.5°	4247.4	4179.3	4068.7	3725.3	3339.5	3214.6	3138.0	3084.1	3044.4	2999.0
4440.3	25°	4338.2	4301.3	4085.7	3634.6	3251.5	3087.0	2973.5	2891.2	2840.1	2780.5
4576.5	27.5°	4477.2	4406.3	4133.9	3529.6	3155.1	2959.3	2783.4	2655.7	2559.2	2496.8
4783.6	30°	4664.5	4562.3	4099.9	3379.2	3007.5	2738.0	2530.9	2366.3	2255.6	2204.6
4979.4	32.5°	4817.7	4684.3	4071.5	3243.0	2843.0	2513.8	2238.6	2071.2	2008.8	1943.5
5308.5	35°	5109.9	4846.1	4051.6	3166.4	2695.4	2289.7	2000.3	1855.6	1776.1	1679.7
5504.3	37.5°	5334.1	5127.0	4003.4	3007.5	2505.3	2071.2	1818.7	1688.2	1569.0	1466.9
5958.3	40°	5685.9	5518.5	4006.2	2783.4	2281.2	1884.0	1676.8	1540.6	1390.3	1302.3
6630.7	42.5°	6347.0	5904.4	4023.3	2604.6	2028.7	1730.7	1549.2	1387.4	1237.1	1163.3
7396.8	45°	7158.5	6434.9	3918.3	2442.9	1770.5	1586.0	1395.9	1234.2	1137.7	1083.8
8438.1	47.5°	8091.9	6954.2	3776.4	2139.3	1554.8	1432.8	1254.1	1160.4	1089.5	1058.3
9780.1	50°	9136.0	7697.5	3736.7	1861.3	1387.4	1302.3	1186.0	1115.0	1066.8	1029.9
11292.4	52.5°	10480.9	8562.9	3657.3	1574.7	1242.7	1197.3	1160.4	1112.2	1069.7	1038.4
12702.5	55°	11766.2	9521.9	3572.1	1339.2	1140.6	1146.3	1166.1	1123.6	1086.7	1038.4
14282.9	57.5°	13213.2	10500.8	3257.2	1166.1	1064.0	1120.7	1160.4	1112.2	1075.3	1038.4
15900.1	60°	14106.9	11051.2	2641.5	1015.7	995.9	1072.5	1126.4	1075.3	1035.6	1049.8
16643.5	62.5°	14470.1	10761.8	1991.8	922.1	947.7	1007.2	1072.5	1052.6	1024.3	1078.2
16635.0	65°	13851.6	10095.0	1424.3	842.7	882.4	942.0	1024.3	1047.0	1055.5	1160.4
15278.7	67.5°	12325.1	8789.9	1047.0	777.4	814.3	902.3	1058.3	1095.2	1089.5	1220.0
12821.7	70°	9862.4	6874.7	817.1	723.5	788.8	933.5	1106.5	1106.5	1066.8	1220.0
9780.1	72.5°	7175.5	4846.1	703.6	661.1	723.5	856.9	1100.9	1098.0	1047.0	1115.0
6227.8	75°	4343.9	2820.3	621.4	598.7	621.4	734.9	1052.6	1035.6	964.7	959.0
2996.2	77.5°	2164.8	1418.6	507.9	530.6	541.9	615.7	925.0	950.5	854.0	831.3
1183.1	80°	913.6	618.5	422.8	456.8	456.8	519.2	768.9	785.9	709.3	666.8
468.2	82.5°	417.1	354.7	360.3	397.2	371.7	402.9	610.0	629.9	576.0	505.0
198.6	85°	175.9	201.4	275.2	312.1	275.2	261.0	419.9	442.6	374.5	312.1
85.1	87.5°	79.4	110.7	173.1	227.0	139.0	122.0	224.1	232.7	187.3	139.0
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>
3254.4
3251.5
3370.7
3489.9
3484.2
3393.4
3333.8
3271.4
3140.9
2973.5
2791.9
2525.2
2232.9
1940.7
1671.2
1469.7
1310.8
1169.0
1095.2
1052.6
1035.6
1035.6
1035.6
1035.6
1038.4
1064.0
1160.4
1228.5
1194.5
1075.3
947.7
817.1
652.6
493.7
314.9
130.5
0.0

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