

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: P483677

Luminaire Tested: **IFLD-M-SA4C-750-U-T4W-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483677  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4C-750-U-T4W-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

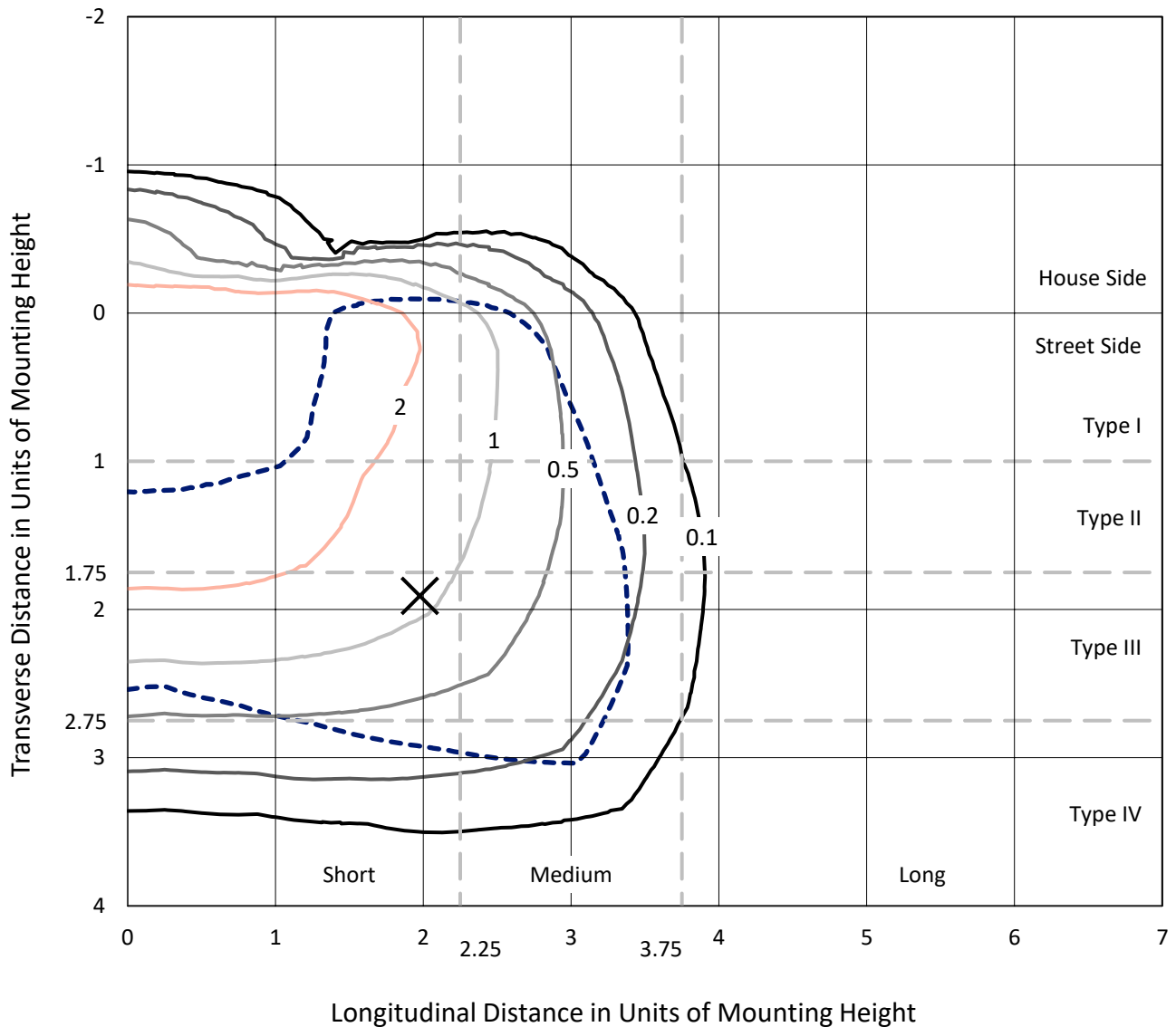
Lumens per Lamp: N/A  
Luminaire Lumens: 21458.3 lumens  
Efficiency: N/A  
Efficacy: 98.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 218.1  
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

REPORT NUMBER: P483677  
 CATALOG NUMBER: IFLD-M-SA4C-750-U-T4W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

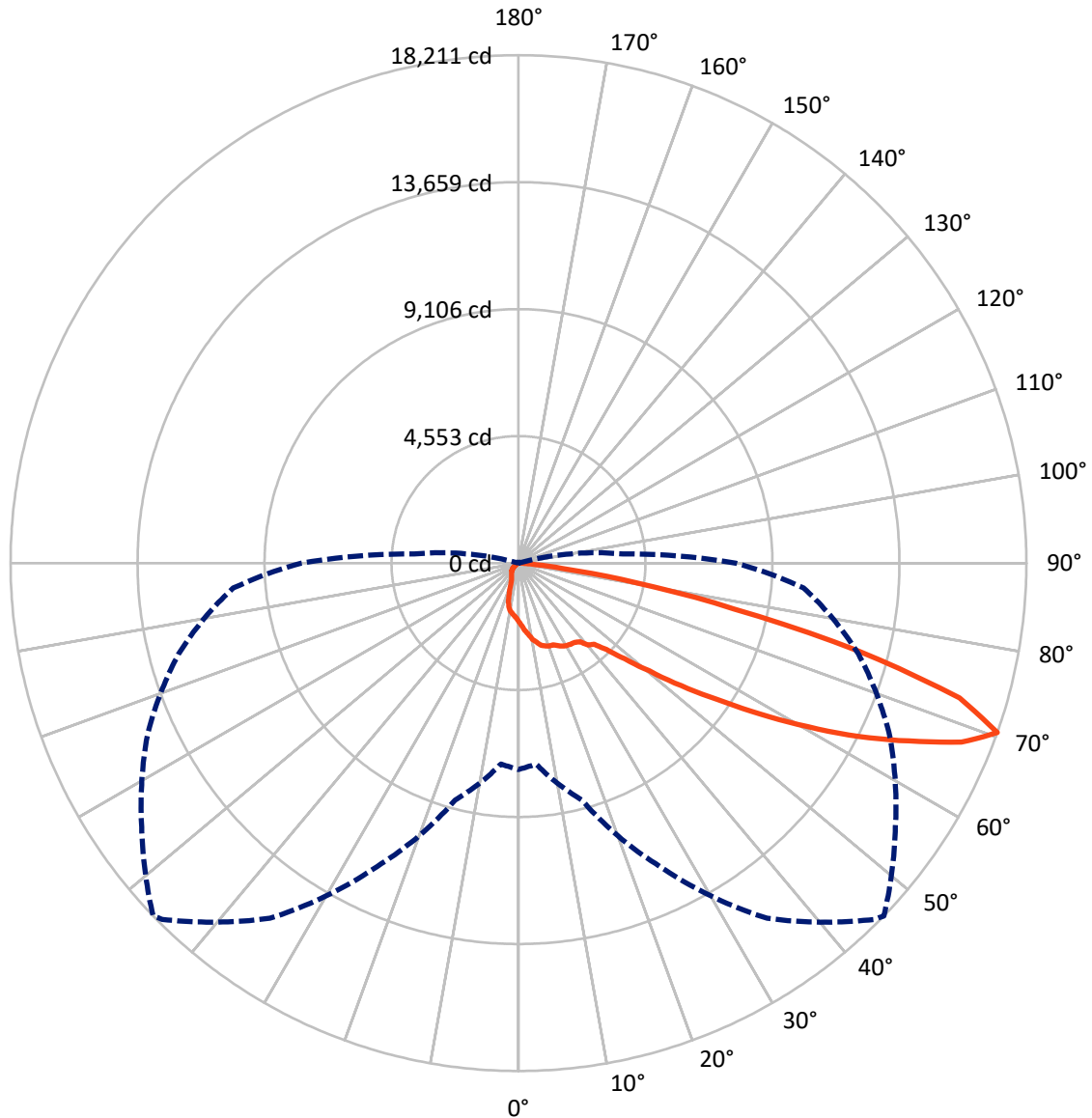
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
 Type IV - Short - N/A

REPORT NUMBER: P483677  
CATALOG NUMBER: IFLD-M-SA4C-750-U-T4W-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P483677  
 CATALOG NUMBER: IFLD-M-SA4C-750-U-T4W-HSS

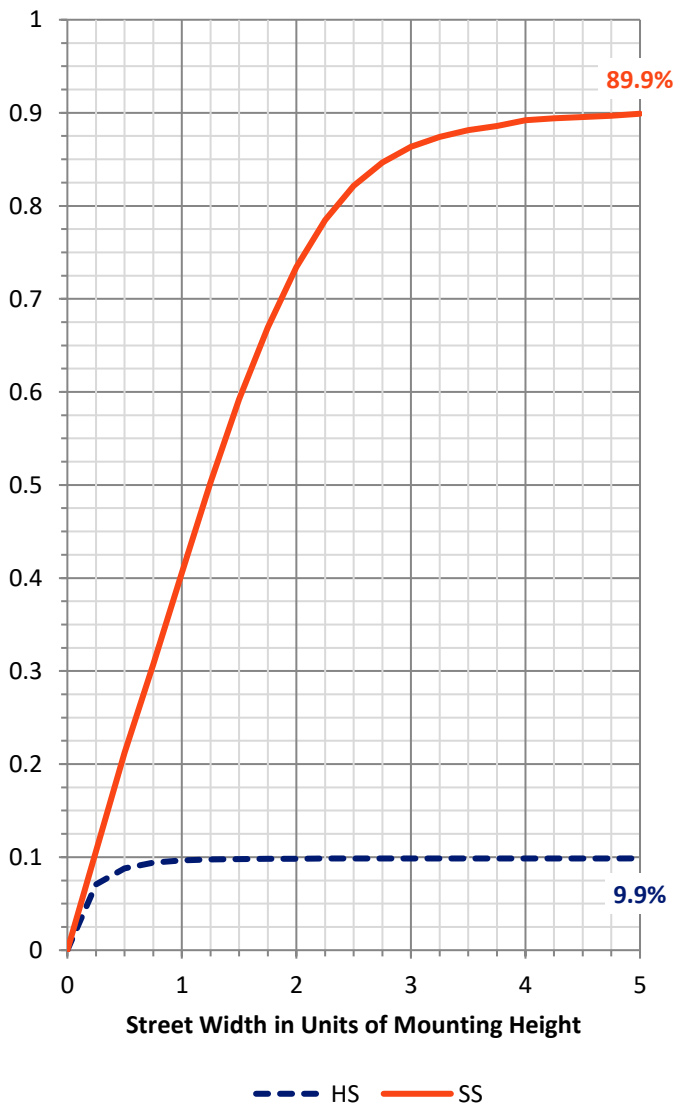
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2135.2	0.0	2135.2
	% Fixture	10.0	0.0	10.0
<b>Street Side</b>	Lumens	19323.2	0.0	19323.2
	% Fixture	90.0	0.0	90.0
<b>Total</b>	Lumens	21458.3	0.0	21458.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	210.0	1.0
10°-20°	634.3	3.0
20°-30°	1016.0	4.7
30°-40°	1450.3	6.8
40°-50°	2504.2	11.7
50°-60°	4794.5	22.3
60°-70°	7100.0	33.1
70°-80°	3516.5	16.4
80°-90°	232.4	1.1
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°	21458.3	100.0
0°-180°	21458.3	100.0



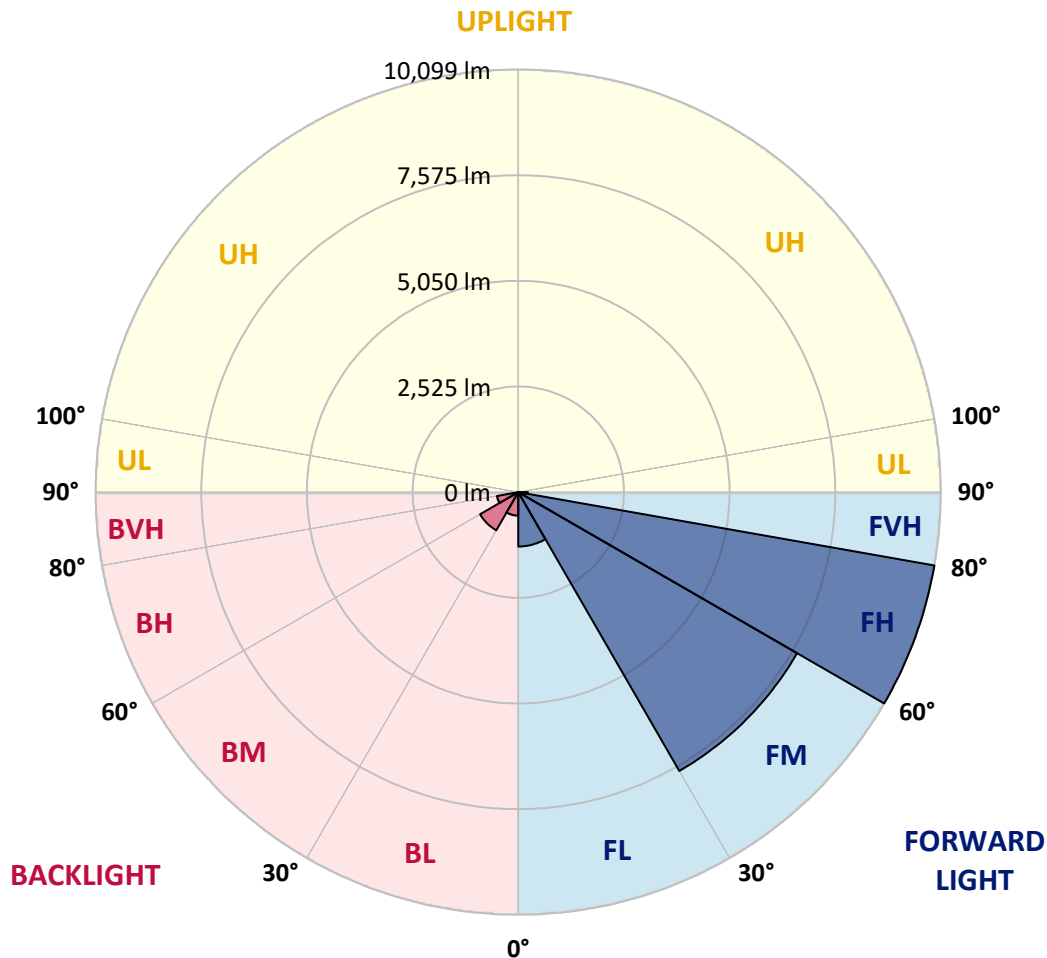
REPORT NUMBER: P483677  
 CATALOG NUMBER: IFLD-M-SA4C-750-U-T4W-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1299.5	6.1			
FM	(30°-60°)	7694.9	35.9			
FH	(60°-80°)	10099.4	47.1			G4/12000
FVH	(80°-90°)	229.4	1.1			G3/500
BL	(0°-30°)	560.9	2.6	B2/1000		
BM	(30°-60°)	1054.1	4.9	B2/2500		
BH	(60°-80°)	517.1	2.4	B2/1000		G2/1000
BVH	(80°-90°)	3.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type IV Short





REPORT NUMBER: P483677

CATALOG NUMBER: IFLD-M-SA4C-750-U-T4W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2106.5	2106.5	2106.5	2106.5	2106.5	2106.5	2106.5	2106.5	2106.5	2106.5	2106.5
2.5°	2350.5	2335.1	2310.4	2301.1	2276.4	2264.1	2245.5	2236.3	2202.3	2168.3	2146.7
5°	2637.8	2600.7	2613.1	2576.0	2495.7	2430.9	2427.8	2356.7	2279.5	2217.7	2134.3
7.5°	2928.1	2897.3	2850.9	2798.4	2708.8	2613.1	2585.3	2517.3	2409.2	2301.1	2189.9
10°	3147.5	3125.8	3085.7	3011.5	2888.0	2779.9	2783.0	2668.7	2554.4	2430.9	2279.5
12.5°	3283.4	3292.6	3233.9	3159.8	3051.7	2915.8	2912.7	2835.5	2705.8	2576.0	2396.9
15°	3419.3	3453.2	3363.7	3277.2	3138.2	3039.3	3057.9	2965.2	2838.6	2690.3	2492.6
17.5°	3440.9	3450.1	3431.6	3305.0	3203.0	3119.7	3122.7	3061.0	2965.2	2804.6	2634.7
20°	3403.8	3397.6	3376.0	3283.4	3215.4	3166.0	3169.1	3153.6	3101.1	2971.4	2739.7
22.5°	3295.7	3295.7	3267.9	3206.1	3175.2	3221.6	3184.5	3243.2	3187.6	3110.4	2918.9
25°	3209.2	3243.2	3227.8	3187.6	3200.0	3261.7	3280.3	3335.9	3326.6	3230.8	3042.4
27.5°	3301.9	3261.7	3271.0	3224.7	3271.0	3363.7	3372.9	3413.1	3410.0	3332.8	3153.6
30°	3363.7	3400.7	3329.7	3227.8	3277.2	3434.7	3428.5	3481.0	3505.7	3413.1	3258.6
32.5°	3561.3	3530.5	3471.8	3335.9	3342.0	3431.6	3459.4	3527.4	3542.8	3487.2	3360.6
35°	3966.0	3919.6	3663.3	3459.4	3428.5	3471.8	3490.3	3623.1	3650.9	3589.1	3468.7
37.5°	4589.9	4484.9	4176.0	3725.0	3586.1	3576.8	3576.8	3752.8	3857.9	3715.8	3629.3
40°	5482.6	5334.3	5000.7	4216.2	3793.0	3830.1	3867.1	3962.9	3950.5	3857.9	3839.3
42.5°	6619.2	6504.9	6143.6	5040.9	4188.4	4003.0	3972.2	4101.9	4296.5	4259.4	4247.1
45°	7567.5	7573.6	7342.0	6171.4	4871.0	4401.5	4423.1	4522.0	4849.4	4821.6	4818.5
47.5°	8259.4	8172.9	8138.9	7261.7	5865.6	5158.2	5127.3	5195.3	5621.6	5797.6	5877.9
50°	8889.5	8830.8	8750.5	8321.1	7060.9	6106.5	6075.6	6081.8	6733.5	6980.6	7178.3
52.5°	9670.9	9745.1	9479.4	9216.9	8608.4	7338.9	7304.9	7184.5	7993.7	8333.5	8568.2
55°	10634.6	10495.6	10196.0	10331.9	10087.9	8670.2	8608.4	8466.3	9430.0	9572.1	9819.2
57.5°	10847.7	10742.7	11051.6	11533.4	11768.2	10233.1	10208.4	9952.0	10637.7	10508.0	11206.0
60°	11379.0	11406.8	11836.1	12793.7	13201.4	12036.9	11916.5	11465.5	11808.3	11833.1	12577.4
62.5°	11925.7	11860.9	12821.5	13741.9	14368.9	13745.0	13704.8	12809.1	13198.3	12883.2	13868.6
65°	11524.2	11623.0	12997.5	14538.8	15882.4	15416.0	15382.0	14103.3	14316.4	13924.1	14393.6
67.5°	10097.2	9896.4	11820.7	14174.3	16660.8	17167.4	17130.3	15514.9	14946.5	13918.0	13303.3
70°	7400.7	7227.7	8796.8	12002.9	15545.8	18063.1	18211.4	16497.1	14690.2	12620.7	10264.0
72.5°	3626.2	3629.3	4929.7	8138.9	12299.5	16463.1	16537.2	15125.7	12620.7	9303.4	5813.1
75°	1071.8	1084.2	1825.5	3990.7	7950.5	12503.3	12586.7	11480.9	8747.4	4806.1	1983.0
77.5°	392.3	392.3	605.4	1498.1	3966.0	7891.8	7885.6	7048.6	4429.3	1627.8	463.3
80°	203.9	213.1	315.1	611.6	1717.4	4111.1	4265.6	3450.1	1683.4	685.7	135.9
82.5°	83.4	92.7	173.0	315.1	824.7	1442.5	1578.4	1352.9	732.0	478.8	61.8
85°	24.7	27.8	83.4	176.1	324.3	361.4	401.5	454.0	460.2	370.7	27.8
87.5°	3.1	3.1	34.0	58.7	71.0	77.2	89.6	89.6	234.7	259.5	15.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P483677

CATALOG NUMBER: IFLD-M-SA4C-750-U-T4W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2106.5	2106.5	2106.5	2106.5	2106.5	2106.5	2106.5	2106.5	2106.5	2106.5	2106.5
2.5°	2122.0	2106.5	2081.8	2026.2	2013.9	1973.7	1970.6	1933.6	1945.9	1921.2	1911.9
5°	2106.5	2072.6	2004.6	1961.4	1918.1	1890.3	1871.8	1856.3	1853.3	1840.9	1834.7
7.5°	2134.3	2088.0	1983.0	1915.0	1840.9	1816.2	1776.0	1773.0	1751.3	1729.7	1729.7
10°	2227.0	2143.6	2029.3	1915.0	1819.3	1739.0	1646.3	1578.4	1553.6	1498.1	1504.2
12.5°	2301.1	2227.0	2060.2	1942.8	1797.7	1615.4	1411.6	1254.0	1179.9	1108.9	1136.7
15°	2406.1	2298.0	2118.9	1949.0	1714.3	1399.2	1065.6	889.6	821.6	806.2	803.1
17.5°	2520.4	2406.1	2193.0	1933.6	1544.4	1081.1	784.5	682.6	695.0	713.5	710.4
20°	2647.1	2508.1	2248.6	1881.1	1275.7	784.5	642.5	639.4	657.9	685.7	691.9
22.5°	2779.9	2659.4	2316.6	1723.5	951.3	630.1	617.8	617.8	630.1	664.1	657.9
25°	2928.1	2767.5	2350.5	1479.5	682.6	580.7	586.9	599.2	605.4	633.2	636.3
27.5°	3042.4	2888.0	2359.8	1186.1	556.0	537.4	552.9	568.3	577.6	599.2	608.5
30°	3147.5	3039.3	2310.4	883.4	509.6	500.4	506.6	528.2	546.7	565.2	565.2
32.5°	3280.3	3125.8	2196.1	627.0	481.8	466.4	463.3	472.6	494.2	515.8	515.8
35°	3416.2	3271.0	2013.9	503.5	457.1	435.5	423.2	413.9	423.2	438.6	451.0
37.5°	3613.9	3490.3	1785.3	463.3	438.6	407.7	383.0	361.4	345.9	342.9	352.1
40°	3894.9	3737.4	1491.9	435.5	417.0	379.9	342.9	305.8	271.8	250.2	253.3
42.5°	4321.2	4101.9	1173.7	420.1	401.5	349.0	296.5	244.0	200.8	179.1	179.1
45°	4929.7	4583.7	861.8	404.6	383.0	312.0	244.0	182.2	139.0	126.6	129.7
47.5°	5847.0	5164.4	617.8	379.9	358.3	271.8	191.5	129.7	101.9	95.8	98.8
50°	7045.5	5853.2	481.8	352.1	327.4	228.6	142.1	95.8	80.3	77.2	80.3
52.5°	8302.6	6548.2	423.2	327.4	281.1	182.2	105.0	77.2	68.0	64.9	68.0
55°	9377.5	6996.1	367.6	290.3	225.5	135.9	83.4	68.0	58.7	49.4	49.4
57.5°	10464.7	7221.5	290.3	240.9	166.8	101.9	71.0	58.7	49.4	40.2	37.1
60°	11348.1	7382.1	206.9	179.1	117.4	80.3	61.8	52.5	40.2	30.9	27.8
62.5°	11928.8	6921.9	151.3	135.9	86.5	68.0	52.5	43.2	30.9	21.6	21.6
65°	11641.6	6285.6	117.4	95.8	64.9	52.5	43.2	30.9	21.6	12.4	9.3
67.5°	10446.2	5121.2	95.8	71.0	49.4	40.2	34.0	24.7	12.4	3.1	3.1
70°	7793.0	3752.8	77.2	52.5	40.2	30.9	24.7	15.4	6.2	3.1	0.0
72.5°	4262.5	2054.0	61.8	43.2	30.9	24.7	18.5	12.4	6.2	0.0	0.0
75°	1408.5	546.7	46.3	30.9	18.5	15.4	12.4	9.3	3.1	0.0	0.0
77.5°	339.8	142.1	37.1	27.8	15.4	9.3	6.2	3.1	3.1	0.0	0.0
80°	105.0	58.7	27.8	18.5	12.4	9.3	3.1	0.0	0.0	0.0	0.0
82.5°	43.2	27.8	12.4	12.4	9.3	3.1	0.0	0.0	0.0	0.0	0.0
85°	21.6	15.4	9.3	6.2	6.2	3.1	0.0	0.0	0.0	0.0	0.0
87.5°	15.4	6.2	3.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)