

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: P482819

Luminaire Tested: **IFLD-M-SA4C-735-U-T3R-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P482819  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4C-735-U-T3R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens with House Side Shield  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

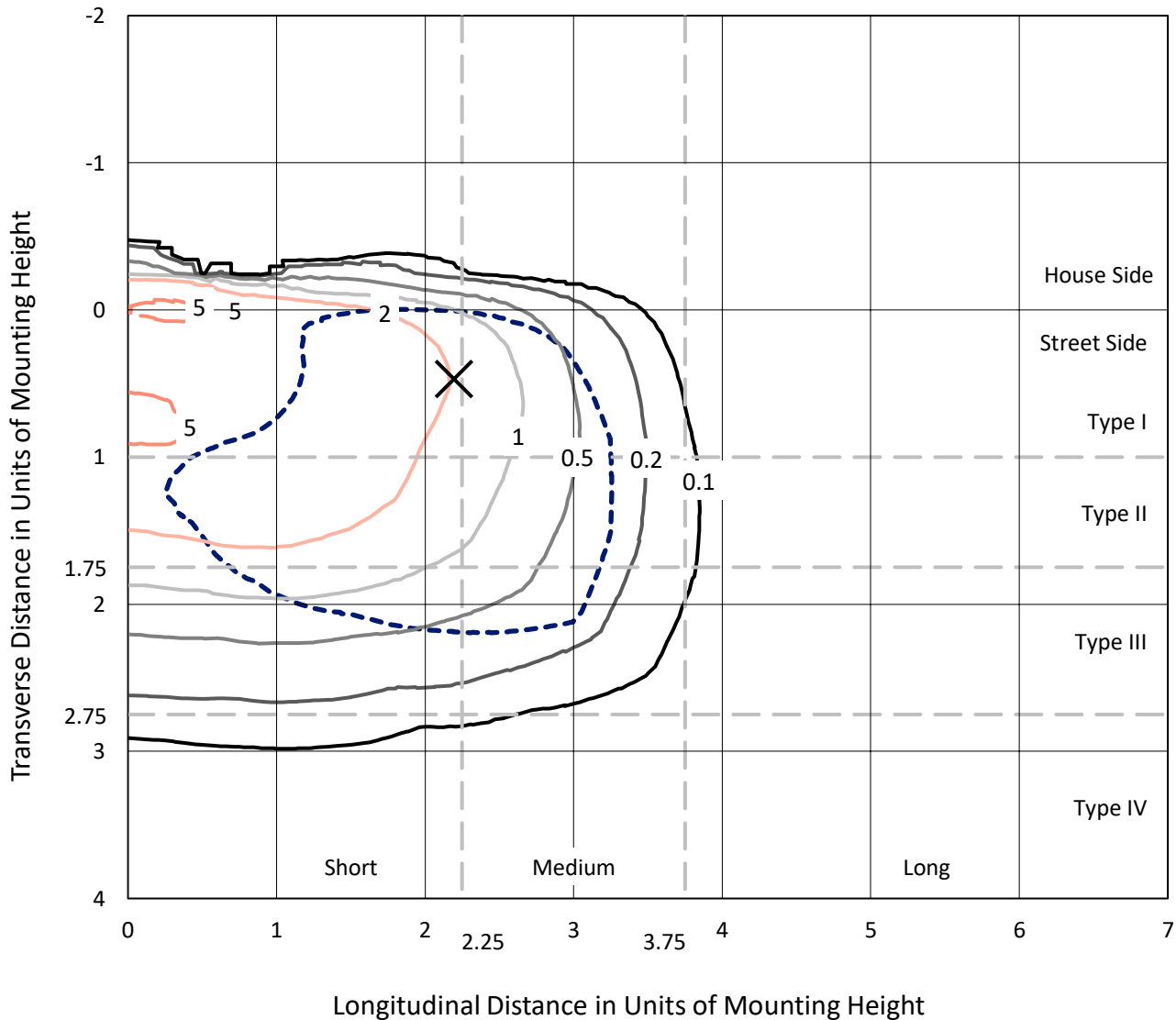
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20101.2 lumens  
Efficiency: N/A  
Efficacy: 92.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - 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

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### Iso-Footcandle Lines of Horizontal Illumination

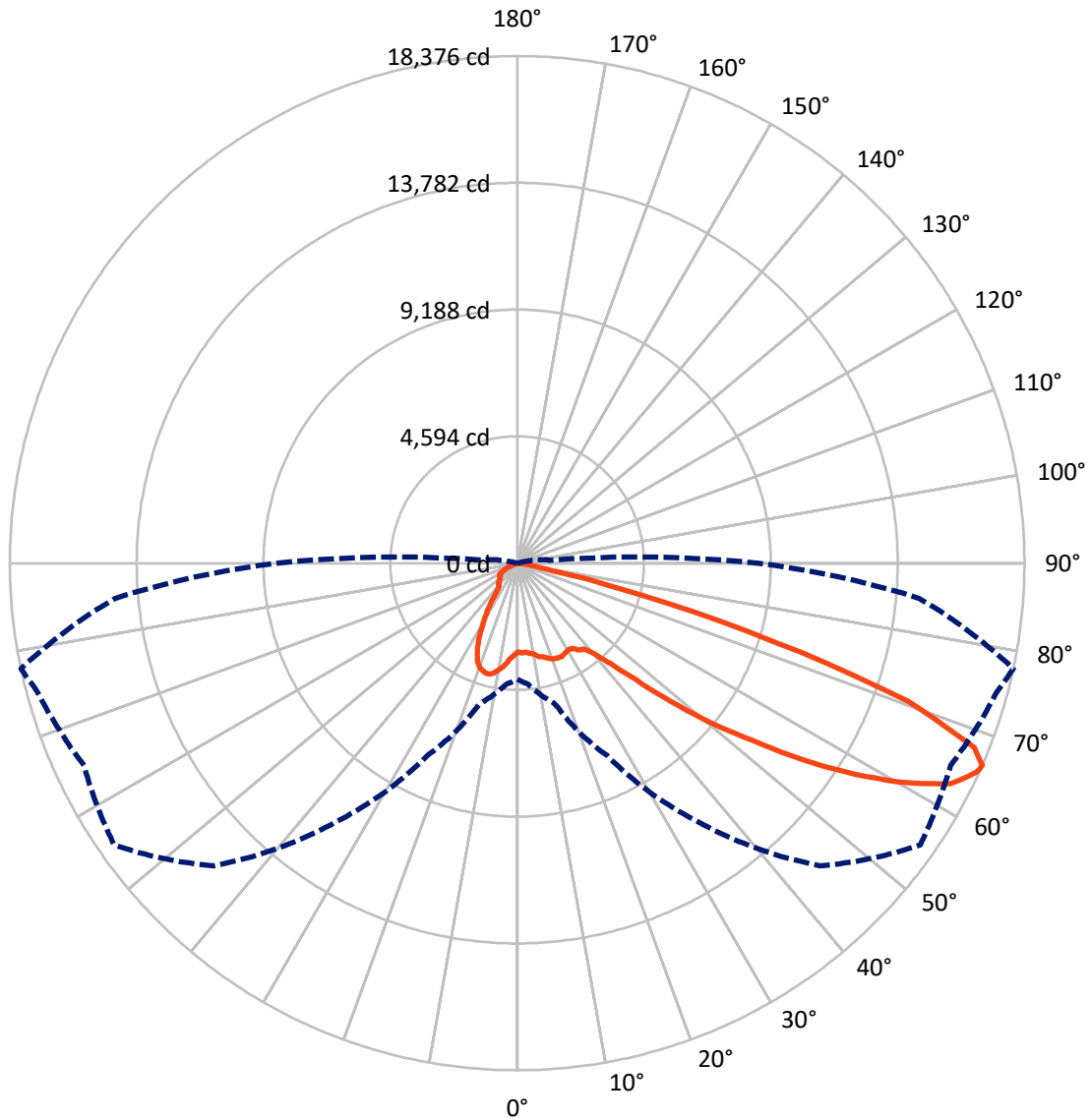
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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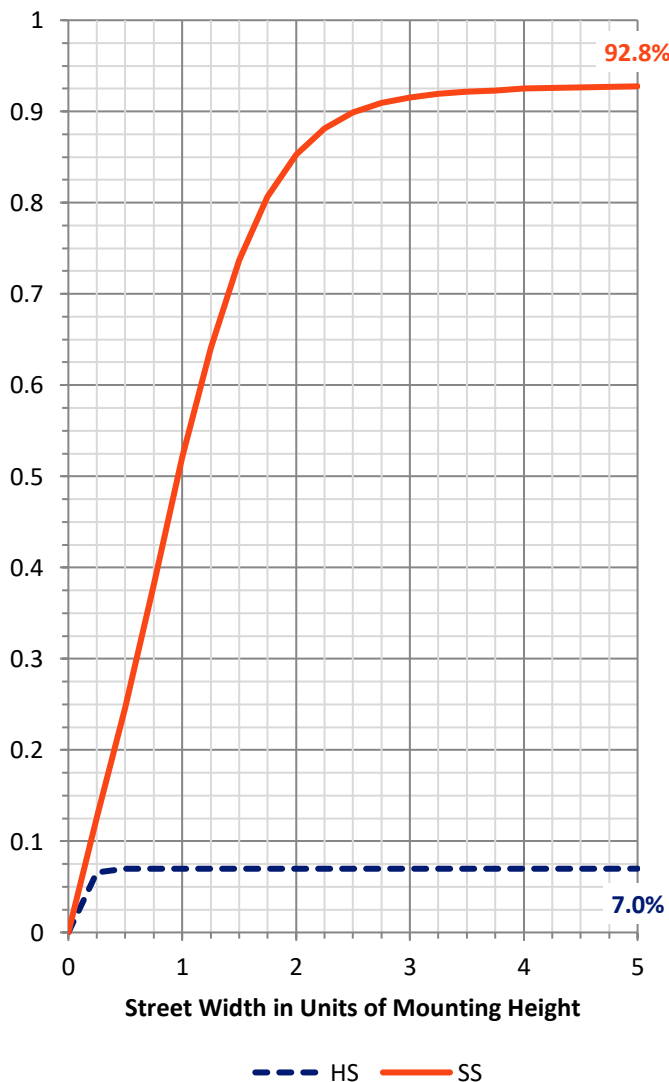
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1413.2	0.0	1413.2
	% Fixture	7.0	0.0	7.0
<b>Street Side</b>	Lumens	18688.0	0.0	18688.0
	% Fixture	93.0	0.0	93.0
<b>Total</b>	Lumens	20101.2	0.0	20101.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	294.5	1.5
10°-20°	664.9	3.3
20°-30°	950.3	4.7
30°-40°	1626.7	8.1
40°-50°	2936.0	14.6
50°-60°	5021.0	25.0
60°-70°	6180.0	30.7
70°-80°	2336.4	11.6
80°-90°	91.3	0.5
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°	20101.2	100.0
0°-180°	20101.2	100.0

**Coefficient of Utilization**

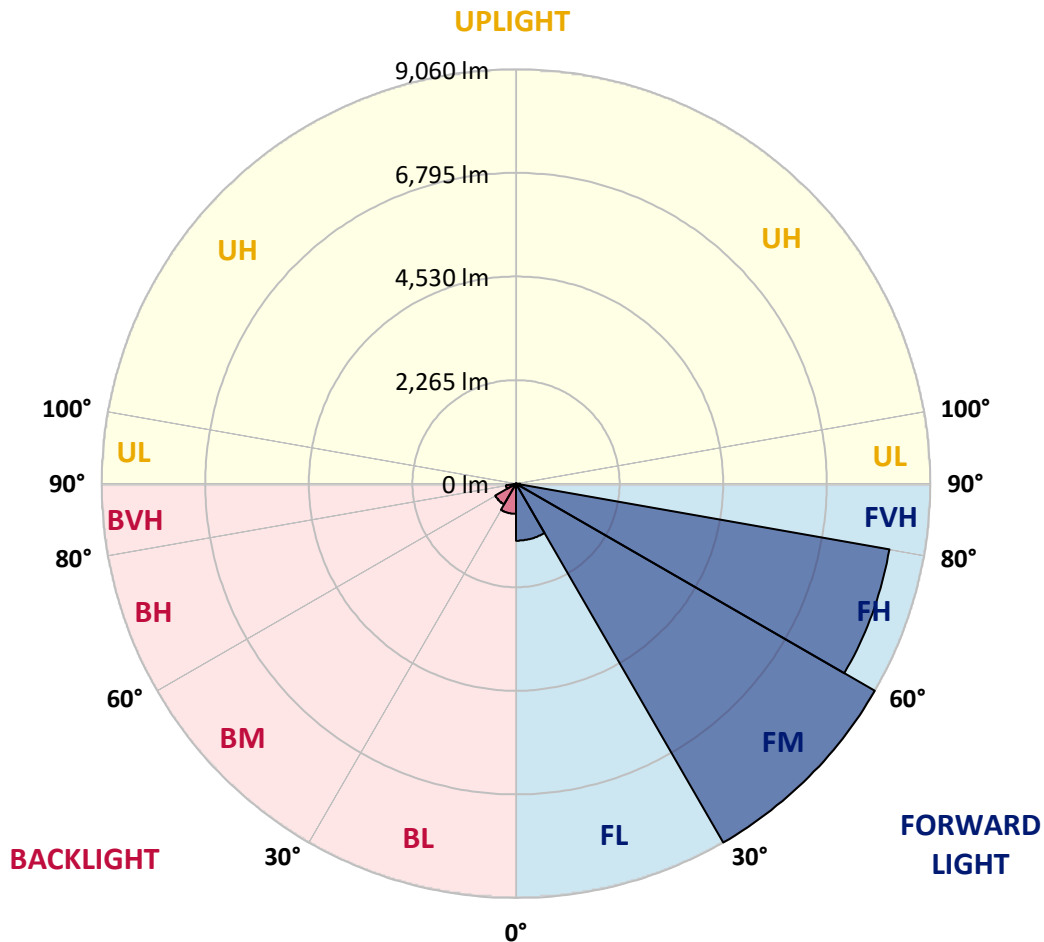


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1247.9	6.2			
FM (30°-60°)	9060.0	45.1			
FH (60°-80°)	8292.5	41.3			G4/12000
FVH (80°-90°)	87.6	0.4			G1/100
BL (0°-30°)	661.9	3.3	B2/1000		
BM (30°-60°)	523.8	2.6	B1/1000		
BH (60°-80°)	223.9	1.1	B1/500		G1/500
BVH (80°-90°)	3.7	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	3219.6	3219.6	3219.6	3219.6	3219.6	3219.6	3219.6	3219.6	3219.6	3219.6	3219.6
2.5°	2961.4	2934.0	2961.4	3000.9	3022.1	3040.4	3104.1	3158.8	3216.5	3256.0	3243.9
5°	2745.7	2797.4	2803.4	2815.6	2849.0	2958.3	2994.8	3088.9	3231.7	3243.9	3298.5
7.5°	2575.6	2560.5	2599.9	2678.9	2764.0	2827.7	2934.0	3098.1	3246.9	3298.5	3404.8
10°	2329.6	2360.0	2402.5	2481.5	2584.8	2742.7	2931.0	3113.2	3325.9	3344.1	3541.5
12.5°	2196.0	2165.6	2232.4	2314.4	2490.6	2636.4	2867.2	3085.9	3374.5	3474.7	3702.5
15°	2086.6	2101.8	2165.6	2220.3	2366.1	2551.3	2821.7	3152.7	3456.5	3526.3	3872.6
17.5°	2041.1	2032.0	2080.6	2135.2	2314.4	2524.0	2803.4	3155.8	3529.4	3620.5	3988.0
20°	2062.3	2080.6	2065.4	2117.0	2229.4	2442.0	2830.8	3213.5	3584.0	3708.6	4112.5
22.5°	2396.4	2372.1	2250.7	2153.5	2159.5	2408.6	2809.5	3249.9	3632.6	3732.9	4197.6
25°	3268.2	3137.5	2836.9	2463.3	2217.2	2317.5	2785.2	3237.8	3623.5	3748.0	4249.2
27.5°	4145.9	4033.6	3738.9	3158.8	2451.1	2281.0	2700.2	3246.9	3578.0	3693.4	4164.2
30°	5072.3	5133.1	4695.7	4006.2	3064.7	2481.5	2645.5	3198.3	3547.6	3644.8	4182.4
32.5°	6023.0	5998.7	5734.5	4987.3	3942.4	2924.9	2733.6	3246.9	3587.1	3681.2	4288.7
35°	6767.1	6682.1	6414.8	5740.5	4668.4	3593.1	3037.3	3477.7	3760.2	3872.6	4440.6
37.5°	7134.7	7171.1	7016.2	6430.0	5464.1	4212.8	3417.0	3477.7	3814.9	3945.5	4686.6
40°	7420.2	7529.5	7471.8	7283.5	6253.8	4911.3	3836.1	3693.4	4091.3	4337.3	5148.2
42.5°	7763.4	7711.7	8051.9	7878.8	7286.5	5792.2	4571.2	4206.7	4744.3	4981.2	5840.8
45°	7945.6	8143.0	8401.2	8622.9	8243.3	6891.7	5531.0	5114.8	5743.6	6044.3	6870.4
47.5°	8413.4	8492.3	8911.5	9190.9	9020.8	8149.1	6988.9	6442.1	7001.0	7474.8	8048.9
50°	8686.7	8580.4	9166.6	9591.8	9689.0	9190.9	8294.9	7869.7	8495.4	9099.8	9151.4
52.5°	8446.8	8750.5	9336.7	10099.1	10369.4	10120.3	9828.8	9643.5	10083.9	10642.8	10393.7
55°	7605.4	7812.0	9239.5	10654.9	11526.6	11411.2	11681.5	11560.0	12003.5	12595.7	11845.5
57.5°	6928.1	7186.3	8440.7	10943.4	12604.9	12945.0	13285.2	13209.3	13743.9	14427.2	13075.6
60°	6505.9	6654.8	7863.6	10870.6	13242.7	14530.5	15299.0	14764.4	15636.1	16158.5	14038.5
62.5°	5773.9	5868.1	7022.3	9904.7	13434.0	15651.3	16954.3	16228.4	16984.7	17622.5	14731.0
65°	4628.9	4884.0	5837.7	8458.9	12170.5	15857.8	17987.0	17133.5	17865.5	18284.6	14940.6
66°	4212.8	4398.0	5272.8	7693.5	11450.7	15514.6	17813.9	17321.8	17993.1	18375.8	14618.6
67.5°	3496.0	3656.9	4352.5	6603.1	9977.6	14758.3	17935.3	17194.2	18090.3	17856.4	14187.3
70°	2314.4	2417.7	2976.6	4464.9	6949.4	12073.3	16635.4	16198.0	15903.4	15025.6	11092.3
72.5°	1081.3	1230.1	1858.8	2706.2	4076.1	8446.8	13564.7	12978.4	11153.0	9749.8	6998.0
75°	489.0	555.8	1020.5	1552.1	1828.5	4376.8	8750.5	7903.1	5552.2	4610.6	3064.7
77.5°	264.2	300.7	498.1	738.1	665.2	1533.8	4331.2	3602.3	1749.5	1281.7	889.9
80°	203.5	239.9	416.1	422.2	246.0	397.9	1609.8	1114.7	437.4	331.1	212.6
82.5°	106.3	151.9	328.0	273.4	124.5	161.0	498.1	309.8	136.7	109.3	91.1
85°	42.5	66.8	185.3	182.2	72.9	54.7	139.7	94.2	54.7	45.6	42.5
87.5°	3.0	3.0	100.2	69.9	45.6	15.2	21.3	21.3	27.3	24.3	30.4
90°	0.0	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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3219.6	3219.6	3219.6	3219.6	3219.6	3219.6	3219.6	3219.6	3219.6	3219.6	3219.6
2.5°	3298.5	3335.0	3341.0	3441.3	3462.5	3441.3	3496.0	3486.8	3511.1	3492.9	3459.5
5°	3374.5	3426.1	3526.3	3602.3	3602.3	3541.5	3492.9	3429.1	3335.0	3310.7	3292.4
7.5°	3505.1	3669.1	3760.2	3711.6	3614.4	3386.6	3070.7	2839.9	2645.5	2572.6	2539.2
10°	3735.9	3827.0	3933.3	3735.9	3331.9	2849.0	2317.5	1968.2	1694.8	1634.1	1588.5
12.5°	3884.7	4030.5	4091.3	3602.3	2809.5	2089.7	1512.6	1117.7	926.4	780.6	756.3
15°	4079.1	4246.2	4121.6	3240.8	2214.2	1369.8	783.6	489.0	397.9	373.6	373.6
17.5°	4212.8	4395.0	3997.1	2791.3	1570.3	729.0	388.8	337.1	331.1	334.1	328.0
20°	4446.6	4556.0	3808.8	2268.9	938.5	373.6	312.8	300.7	294.6	303.7	297.7
22.5°	4534.7	4634.9	3502.0	1643.2	422.2	249.1	233.9	224.8	230.8	227.8	224.8
25°	4528.6	4580.3	2997.8	941.6	124.5	97.2	88.1	88.1	82.0	85.0	82.0
27.5°	4574.2	4446.6	2432.9	279.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	4598.5	4231.0	1731.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	4610.6	4118.6	1114.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	4704.8	3893.8	476.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	4768.6	3605.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5032.8	3514.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5376.0	3344.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	5852.9	3092.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	6484.7	2943.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	6955.5	2709.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	7553.8	2569.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	8264.5	2575.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	8911.5	2533.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	9242.6	2165.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	9172.7	1752.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	8929.7	1375.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	8762.7	1218.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	8255.4	975.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	6569.7	668.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4179.3	410.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1925.7	188.3	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	604.4	115.4	24.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	157.9	72.9	24.3	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	82.0	51.6	21.3	9.1	6.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	51.6	21.3	9.1	6.1	6.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	45.6	12.1	6.1	6.1	3.0	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)