

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: P482734

Luminaire Tested: **IFLD-S-SA6A-727-U-T3R-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482734  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6A-727-U-T3R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R  
distribution lens with House Side Shield  
Light Source: (96) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

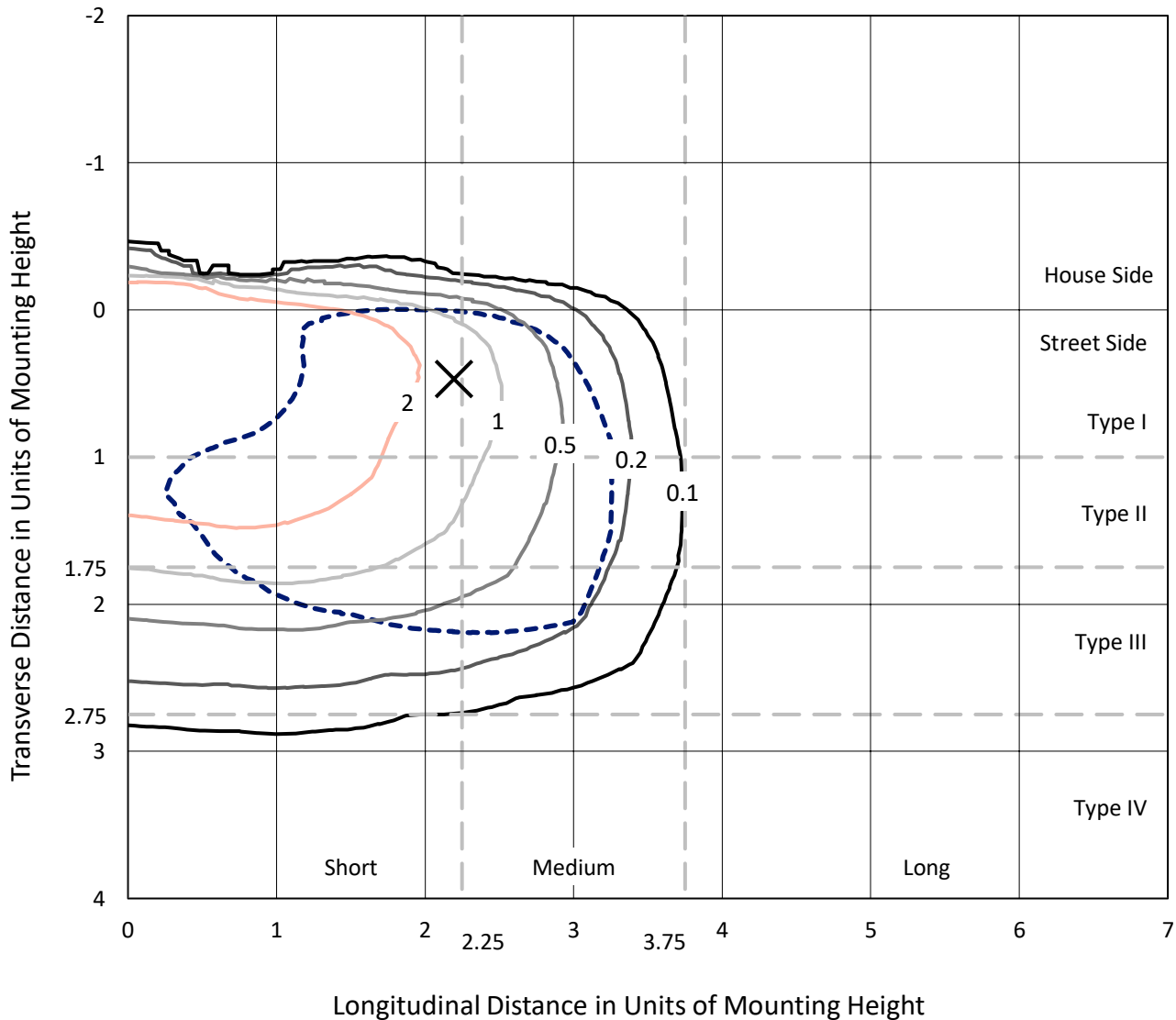
Lumens per Lamp: N/A  
Luminaire Lumens: 16179.8 lumens  
Efficiency: N/A  
Efficacy: 85.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

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

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### Iso-Footcandle Lines of Horizontal Illumination

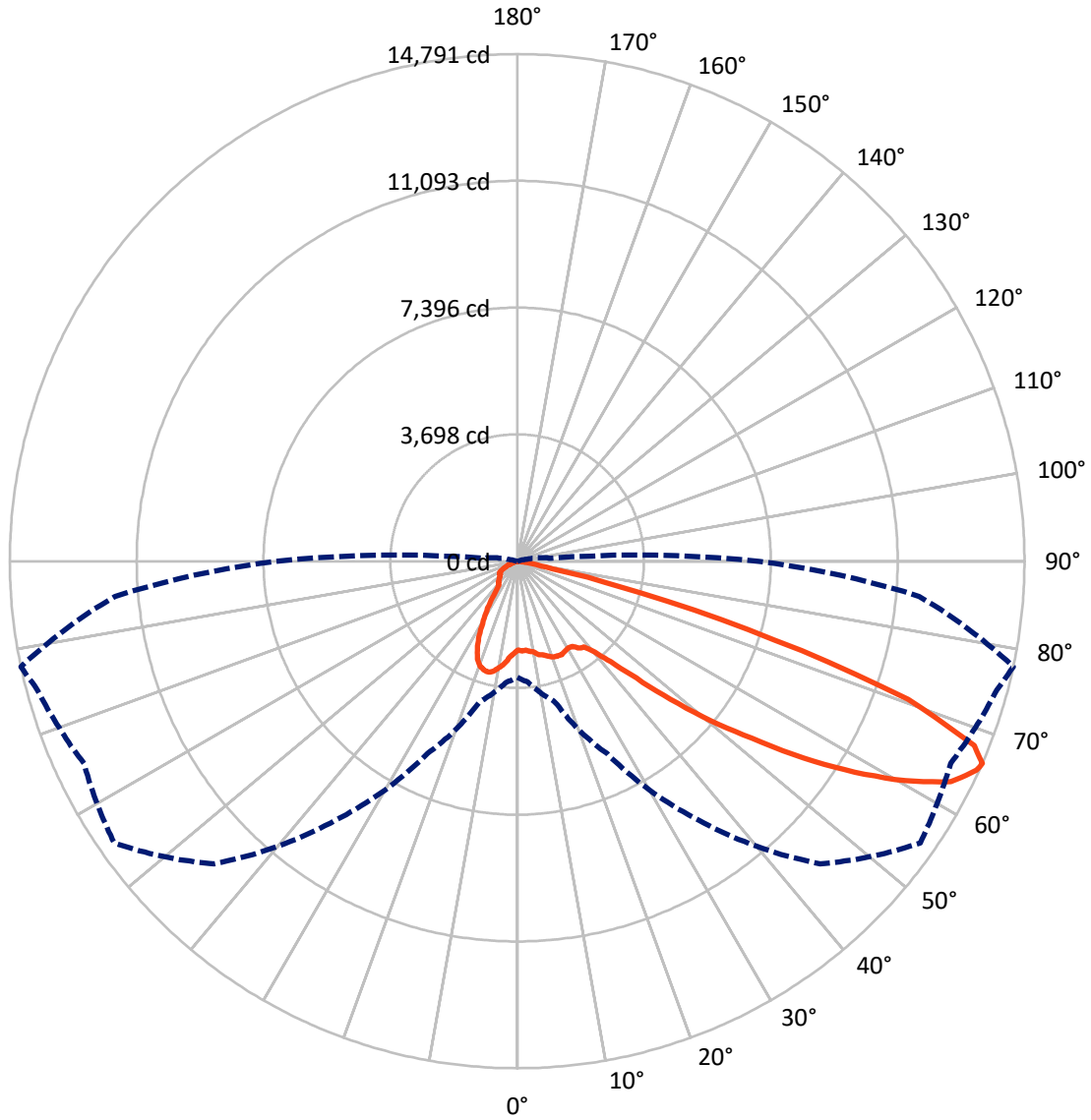
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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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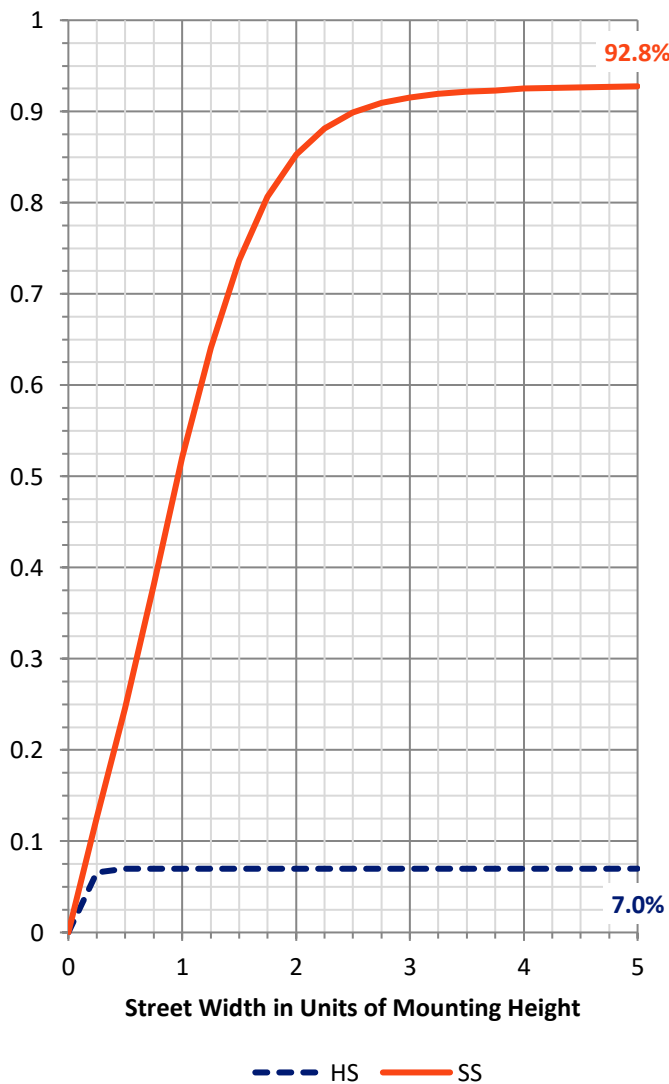
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1137.5	0.0	1137.5
	% Fixture	7.0	0.0	7.0
<b>Street Side</b>	Lumens	15042.3	0.0	15042.3
	% Fixture	93.0	0.0	93.0
<b>Total</b>	Lumens	16179.8	0.0	16179.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	237.1	1.5
10°-20°	535.2	3.3
20°-30°	764.9	4.7
30°-40°	1309.4	8.1
40°-50°	2363.3	14.6
50°-60°	4041.5	25.0
60°-70°	4974.4	30.7
70°-80°	1880.6	11.6
80°-90°	73.5	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°	16179.8	100.0
0°-180°	16179.8	100.0

**Coefficient of Utilization**

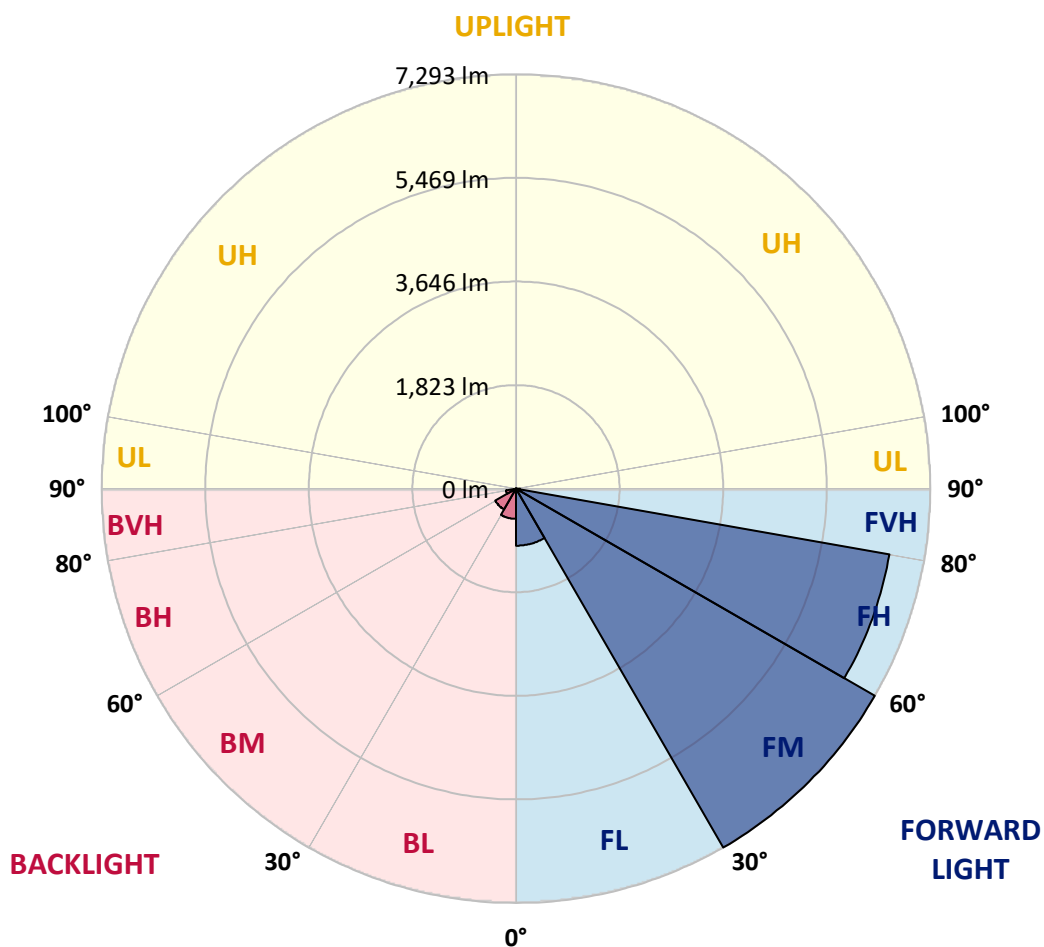


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1004.5	6.2			
FM (30°-60°)	7292.6	45.1			
FH (60°-80°)	6674.8	41.3			G3/7500
FVH (80°-90°)	70.5	0.4			G1/100
BL (0°-30°)	532.7	3.3	B2/1000		
BM (30°-60°)	421.6	2.6	B1/1000		
BH (60°-80°)	180.2	1.1	B1/500		G1/500
BVH (80°-90°)	2.9	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-G3**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	2591.5	2591.5	2591.5	2591.5	2591.5	2591.5	2591.5	2591.5	2591.5	2591.5	2591.5
2.5°	2383.7	2361.7	2383.7	2415.5	2432.6	2447.2	2498.6	2542.6	2589.0	2620.8	2611.0
5°	2210.1	2251.7	2256.5	2266.3	2293.2	2381.2	2410.6	2486.4	2601.3	2611.0	2655.0
7.5°	2073.2	2061.0	2092.7	2156.3	2224.8	2276.1	2361.7	2493.7	2613.5	2655.0	2740.6
10°	1875.2	1899.6	1933.8	1997.4	2080.5	2207.6	2359.2	2505.9	2677.0	2691.7	2850.6
12.5°	1767.6	1743.1	1796.9	1862.9	2004.7	2122.1	2307.9	2483.9	2716.2	2796.8	2980.2
15°	1679.6	1691.8	1743.1	1787.1	1904.5	2053.6	2271.2	2537.7	2782.2	2838.4	3117.1
17.5°	1642.9	1635.6	1674.7	1718.7	1862.9	2031.6	2256.5	2540.1	2840.9	2914.2	3210.0
20°	1660.0	1674.7	1662.5	1704.0	1794.5	1965.6	2278.5	2586.6	2884.9	2985.1	3310.3
22.5°	1928.9	1909.4	1811.6	1733.4	1738.2	1938.7	2261.4	2615.9	2924.0	3004.7	3378.7
25°	2630.6	2525.5	2283.4	1982.7	1784.7	1865.4	2241.9	2606.2	2916.6	3016.9	3420.3
27.5°	3337.1	3246.7	3009.5	2542.6	1972.9	1836.0	2173.4	2613.5	2880.0	2972.9	3351.8
30°	4082.8	4131.7	3779.7	3224.7	2466.8	1997.4	2129.4	2574.4	2855.5	2933.8	3366.5
32.5°	4848.0	4828.5	4615.8	4014.4	3173.3	2354.3	2200.3	2613.5	2887.3	2963.1	3452.0
35°	5447.0	5378.5	5163.4	4620.7	3757.6	2892.2	2444.8	2799.3	3026.7	3117.1	3574.3
37.5°	5742.8	5772.2	5647.5	5175.6	4398.2	3390.9	2750.4	2799.3	3070.7	3175.8	3772.3
40°	5972.6	6060.6	6014.2	5862.6	5033.8	3953.2	3087.8	2972.9	3293.1	3491.2	4143.9
42.5°	6248.9	6207.3	6481.1	6341.8	5865.1	4662.2	3679.4	3386.0	3818.8	4009.5	4701.3
45°	6395.6	6554.5	6762.3	6940.8	6635.2	5547.2	4452.0	4117.0	4623.1	4865.1	5530.1
47.5°	6772.1	6835.6	7173.0	7397.9	7261.0	6559.4	5625.5	5185.4	5635.3	6016.6	6478.7
50°	6992.1	6906.5	7378.4	7720.7	7798.9	7397.9	6676.7	6334.5	6838.1	7324.6	7366.2
52.5°	6799.0	7043.5	7515.3	8128.9	8346.5	8146.1	7911.4	7762.2	8116.7	8566.6	8366.1
55°	6121.8	6288.0	7437.1	8576.3	9278.0	9185.1	9402.7	9304.9	9661.8	10138.6	9534.7
57.5°	5576.6	5784.4	6794.1	8808.6	10145.9	10419.7	10693.5	10632.4	11062.7	11612.8	10524.8
60°	5236.7	5356.5	6329.6	8749.9	10659.3	11695.9	12314.4	11884.1	12585.8	13006.3	11299.8
62.5°	4647.6	4723.3	5652.4	7972.5	10813.3	12598.0	13646.8	13062.5	13671.3	14184.7	11857.3
65°	3725.9	3931.2	4698.9	6808.8	9796.3	12764.3	14478.1	13791.1	14380.3	14717.7	12025.9
66°	3390.9	3540.1	4244.2	6192.7	9216.9	12488.0	14338.7	13942.7	14483.0	14791.0	11766.8
67.5°	2814.0	2943.5	3503.4	5315.0	8031.1	11879.3	14436.5	13840.0	14561.2	14372.9	11419.6
70°	1862.9	1946.1	2395.9	3593.8	5593.7	9718.1	13390.1	13038.1	12800.9	12094.4	8928.4
72.5°	870.3	990.1	1496.2	2178.3	3280.9	6799.0	10918.5	10446.6	8977.3	7847.8	5632.8
75°	393.6	447.4	821.5	1249.3	1471.8	3522.9	7043.5	6361.4	4469.1	3711.2	2466.8
77.5°	212.7	242.0	400.9	594.1	535.4	1234.6	3486.3	2899.5	1408.2	1031.7	716.3
80°	163.8	193.1	334.9	339.8	198.0	320.3	1295.7	897.2	352.1	266.5	171.1
82.5°	85.6	122.2	264.0	220.0	100.2	129.6	400.9	249.4	110.0	88.0	73.3
85°	34.2	53.8	149.1	146.7	58.7	44.0	112.5	75.8	44.0	36.7	34.2
87.5°	2.4	2.4	80.7	56.2	36.7	12.2	17.1	17.1	22.0	19.6	24.4
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°	2591.5	2591.5	2591.5	2591.5	2591.5	2591.5	2591.5	2591.5	2591.5	2591.5	2591.5
2.5°	2655.0	2684.4	2689.3	2770.0	2787.1	2770.0	2814.0	2806.6	2826.2	2811.5	2784.6
5°	2716.2	2757.7	2838.4	2899.5	2899.5	2850.6	2811.5	2760.2	2684.4	2664.8	2650.2
7.5°	2821.3	2953.3	3026.7	2987.5	2909.3	2725.9	2471.7	2285.9	2129.4	2070.7	2043.8
10°	3007.1	3080.4	3166.0	3007.1	2681.9	2293.2	1865.4	1584.2	1364.2	1315.3	1278.6
12.5°	3126.9	3244.2	3293.1	2899.5	2261.4	1682.0	1217.5	899.7	745.7	628.3	608.8
15°	3283.4	3417.8	3317.6	2608.6	1782.3	1102.6	630.8	393.6	320.3	300.7	300.7
17.5°	3390.9	3537.6	3217.3	2246.8	1264.0	586.8	312.9	271.4	266.5	268.9	264.0
20°	3579.2	3667.2	3065.8	1826.3	755.4	300.7	251.8	242.0	237.1	244.5	239.6
22.5°	3650.1	3730.8	2818.8	1322.6	339.8	200.5	188.2	180.9	185.8	183.4	180.9
25°	3645.2	3686.7	2413.0	757.9	100.2	78.2	70.9	70.9	66.0	68.5	66.0
27.5°	3681.9	3579.2	1958.3	224.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	3701.4	3405.6	1393.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	3711.2	3315.1	897.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	3787.0	3134.2	383.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	3838.3	2902.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4051.0	2828.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4327.3	2691.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	4711.1	2488.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5219.6	2369.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	5598.6	2180.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	6080.2	2068.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6652.3	2073.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	7173.0	2039.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	7439.5	1743.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	7383.3	1410.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	7187.7	1107.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	7053.2	980.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6645.0	784.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	5288.1	537.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3364.0	330.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1550.0	151.6	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	486.5	92.9	19.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	127.1	58.7	19.6	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	66.0	41.6	17.1	7.3	4.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	41.6	17.1	7.3	4.9	4.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	36.7	9.8	4.9	4.9	2.4	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)