

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: P482702

Luminaire Tested: **IFLD-M-SA4C-722-U-T3R-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482702  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4C-722-U-T3R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R  
distribution lens with House Side Shield  
Light Source: (64) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

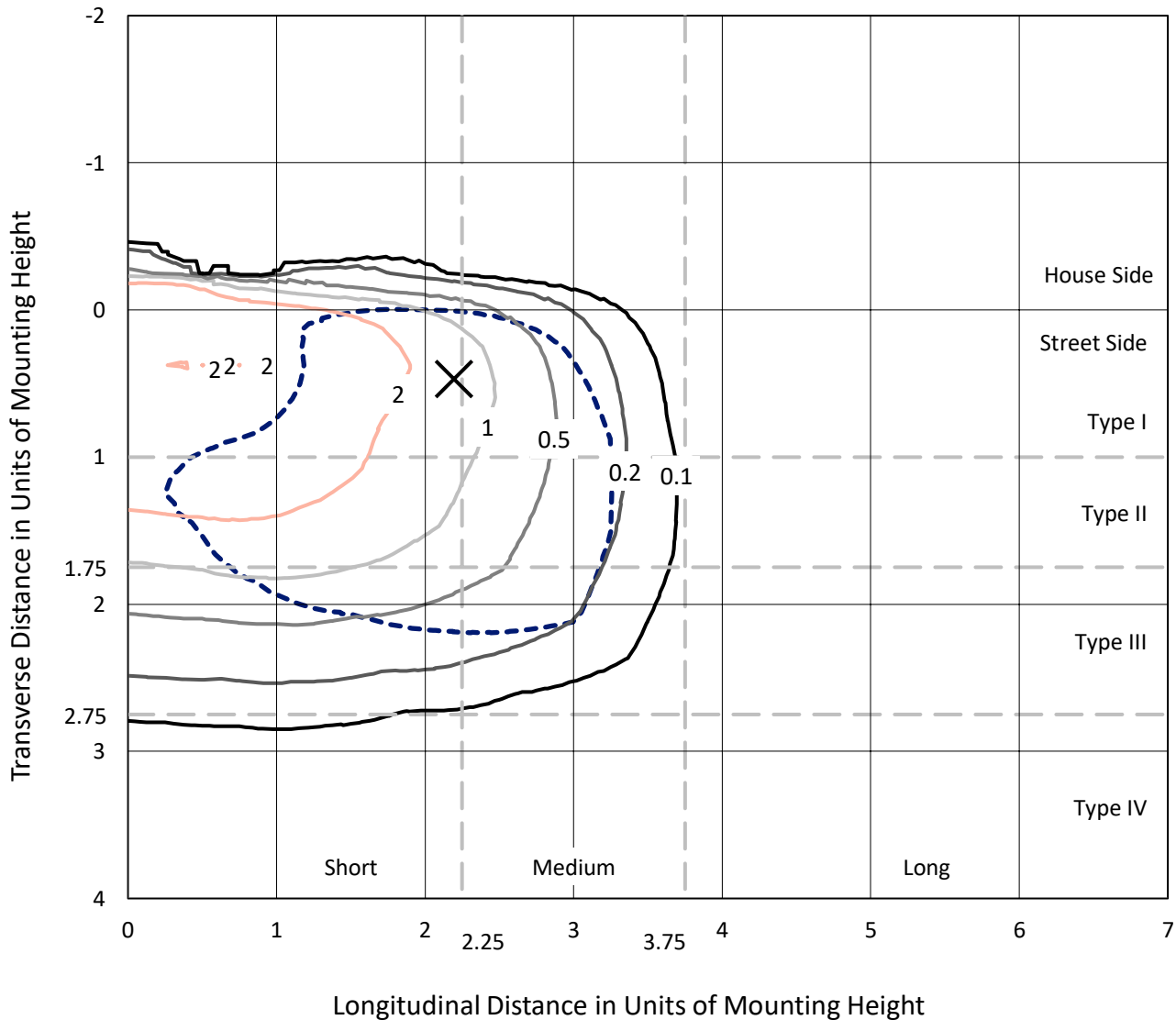
Lumens per Lamp: N/A  
Luminaire Lumens: 15012.2 lumens  
Efficiency: N/A  
Efficacy: 68.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G3

Input Watts (W): 218.1  
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

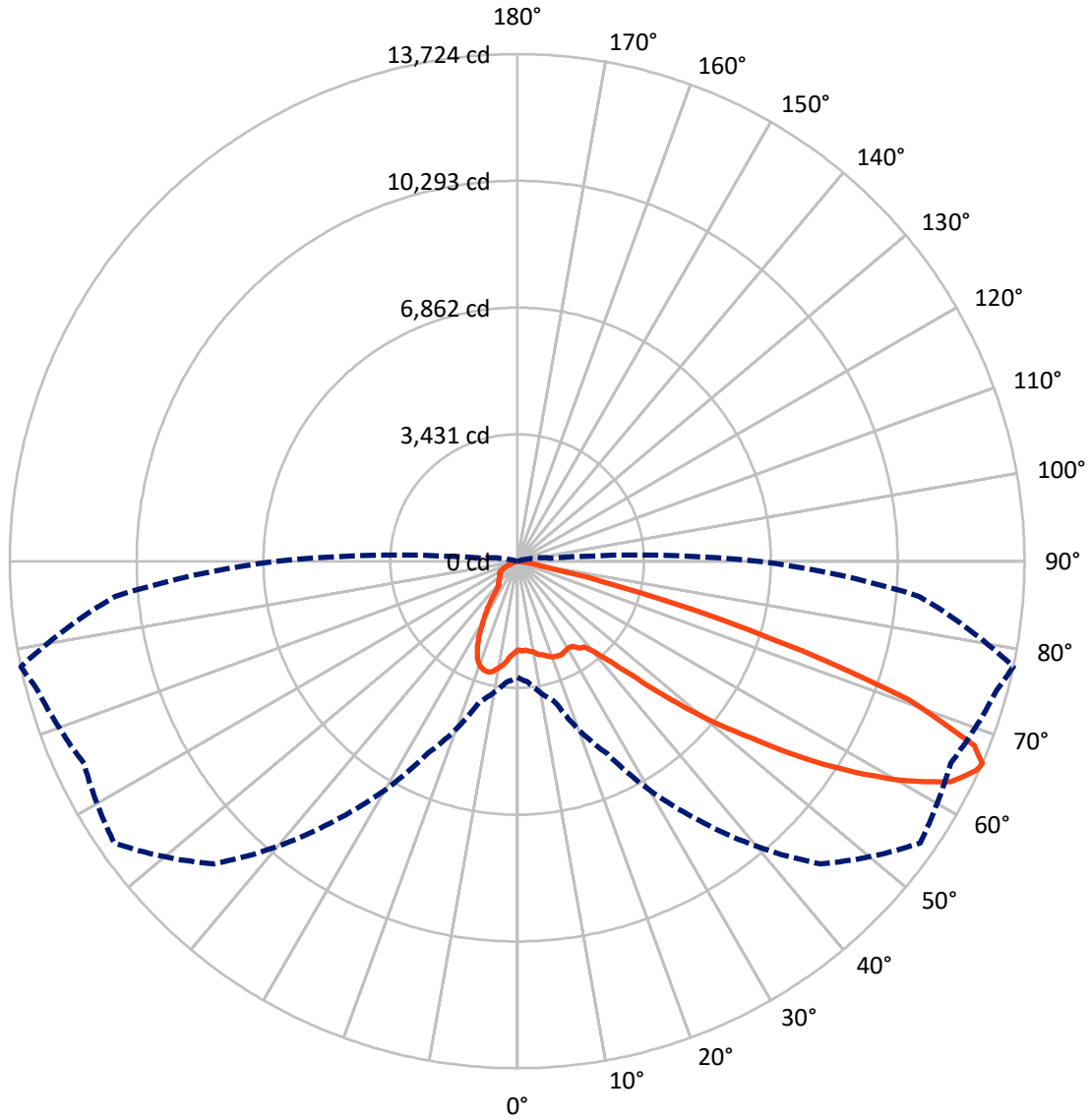
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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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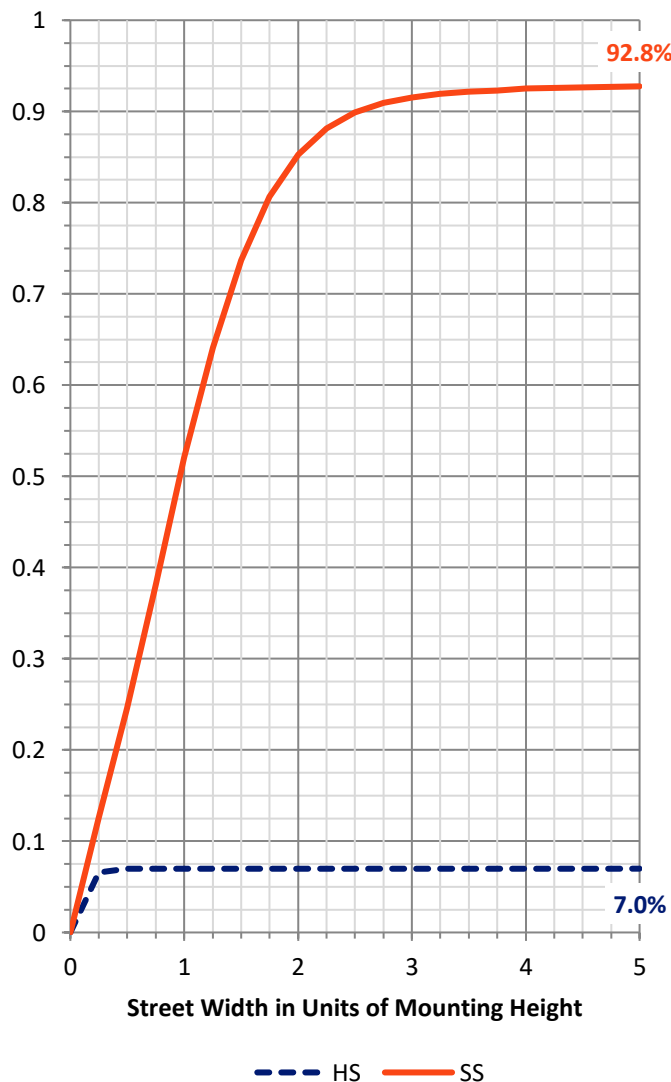
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1055.4	0.0	1055.4
	% Fixture	7.0	0.0	7.0
<b>Street Side</b>	Lumens	13956.8	0.0	13956.8
	% Fixture	93.0	0.0	93.0
<b>Total</b>	Lumens	15012.2	0.0	15012.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	220.0	1.5
10°-20°	496.6	3.3
20°-30°	709.7	4.7
30°-40°	1214.9	8.1
40°-50°	2192.7	14.6
50°-60°	3749.9	25.0
60°-70°	4615.4	30.7
70°-80°	1744.9	11.6
80°-90°	68.2	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
<b>0°-90°</b>	<b>15012.2</b>	<b>100.0</b>
<b>0°-180°</b>	<b>15012.2</b>	<b>100.0</b>

**Coefficient of Utilization**

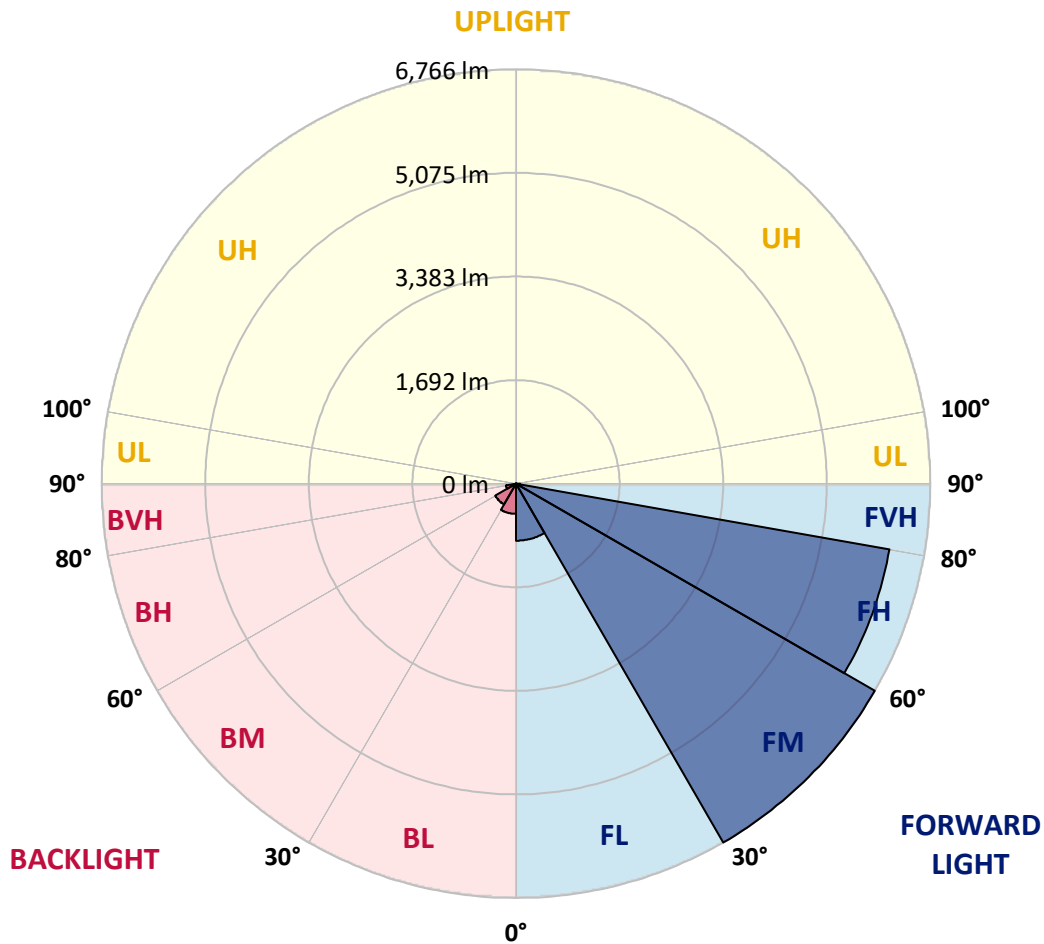


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	932.0	6.2			
FM (30°-60°)	6766.3	45.1			
FH (60°-80°)	6193.1	41.3			G3/7500
FVH (80°-90°)	65.4	0.4			G1/100
BL (0°-30°)	494.3	3.3	B1/500		
BM (30°-60°)	391.2	2.6	B1/1000		
BH (60°-80°)	167.2	1.1	B1/500		G1/500
BVH (80°-90°)	2.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	2404.5	2404.5	2404.5	2404.5	2404.5	2404.5	2404.5	2404.5	2404.5	2404.5	2404.5
2.5°	2211.7	2191.2	2211.7	2241.1	2257.0	2270.6	2318.3	2359.1	2402.2	2431.7	2422.6
5°	2050.6	2089.2	2093.7	2102.8	2127.7	2209.4	2236.6	2306.9	2413.5	2422.6	2463.4
7.5°	1923.6	1912.2	1941.7	2000.7	2064.2	2111.8	2191.2	2313.7	2424.9	2463.4	2542.8
10°	1739.8	1762.5	1794.3	1853.3	1930.4	2048.3	2189.0	2325.1	2483.9	2497.5	2644.9
12.5°	1640.0	1617.3	1667.2	1728.5	1860.1	1968.9	2141.3	2304.7	2520.2	2595.0	2765.1
15°	1558.4	1569.7	1617.3	1658.2	1767.1	1905.4	2107.3	2354.6	2581.4	2633.6	2892.2
17.5°	1524.3	1517.5	1553.8	1594.7	1728.5	1885.0	2093.7	2356.8	2635.8	2703.9	2978.4
20°	1540.2	1553.8	1542.5	1581.0	1665.0	1823.8	2114.1	2399.9	2676.7	2769.7	3071.4
22.5°	1789.7	1771.6	1680.9	1608.3	1612.8	1798.8	2098.2	2427.1	2713.0	2787.8	3134.9
25°	2440.8	2343.2	2118.7	1839.6	1655.9	1730.8	2080.1	2418.1	2706.2	2799.2	3173.4
27.5°	3096.3	3012.4	2792.4	2359.1	1830.6	1703.5	2016.6	2424.9	2672.1	2758.3	3109.9
30°	3788.2	3833.5	3506.9	2992.0	2288.8	1853.3	1975.7	2388.6	2649.4	2722.0	3123.5
32.5°	4498.2	4480.0	4282.7	3724.7	2944.3	2184.4	2041.5	2424.9	2678.9	2749.3	3202.9
35°	5053.9	4990.4	4790.8	4287.2	3486.5	2683.5	2268.4	2597.3	2808.2	2892.2	3316.3
37.5°	5328.4	5355.6	5239.9	4802.1	4080.8	3146.2	2551.9	2597.3	2849.1	2946.6	3500.1
40°	5541.6	5623.3	5580.2	5439.5	4670.6	3667.9	2864.9	2758.3	3055.5	3239.2	3844.9
42.5°	5797.9	5759.4	6013.4	5884.1	5441.8	4325.8	3413.9	3141.7	3543.2	3720.1	4362.1
45°	5934.0	6081.5	6274.3	6439.9	6156.3	5146.9	4130.7	3819.9	4289.5	4514.0	5131.0
47.5°	6283.4	6342.3	6655.4	6864.1	6737.0	6086.0	5219.5	4811.2	5228.6	5582.4	6011.2
50°	6487.5	6408.1	6845.9	7163.5	7236.1	6864.1	6194.9	5877.3	6344.6	6796.0	6834.6
52.5°	6308.3	6535.2	6972.9	7542.3	7744.2	7558.2	7340.4	7202.1	7531.0	7948.3	7762.3
55°	5680.0	5834.2	6900.4	7957.4	8608.4	8522.2	8724.1	8633.4	8964.6	9406.9	8846.6
57.5°	5174.1	5366.9	6303.8	8172.9	9413.7	9667.8	9921.8	9865.1	10264.3	10774.7	9765.3
60°	4858.8	4970.0	5872.8	8118.5	9890.1	10851.8	11425.7	11026.5	11677.5	12067.7	10484.4
62.5°	4312.2	4382.5	5244.5	7397.1	10033.0	11688.9	12662.0	12119.9	12684.7	13161.0	11001.6
65°	3457.0	3647.5	4359.8	6317.4	9089.3	11843.1	13433.2	12795.8	13342.5	13655.5	11158.1
66°	3146.2	3284.6	3937.9	5745.8	8551.7	11586.8	13303.9	12936.5	13437.8	13723.6	10917.6
67.5°	2610.9	2731.1	3250.6	4931.4	7451.6	11022.0	13394.7	12841.2	13510.4	13335.7	10595.5
70°	1728.5	1805.6	2223.0	3334.5	5190.0	9016.7	12423.8	12097.2	11877.1	11221.6	8284.1
72.5°	807.5	918.7	1388.2	2021.1	3044.1	6308.3	10130.5	9692.7	8329.4	7281.4	5226.3
75°	365.2	415.1	762.2	1159.1	1365.6	3268.7	6535.2	5902.3	4146.6	3443.4	2288.8
77.5°	197.3	224.6	372.0	551.2	496.8	1145.5	3234.7	2690.3	1306.6	957.2	664.6
80°	152.0	179.2	310.8	315.3	183.7	297.2	1202.2	832.5	326.6	247.3	158.8
82.5°	79.4	113.4	245.0	204.2	93.0	120.2	372.0	231.4	102.1	81.7	68.1
85°	31.8	49.9	138.4	136.1	54.4	40.8	104.3	70.3	40.8	34.0	31.8
87.5°	2.3	2.3	74.9	52.2	34.0	11.3	15.9	15.9	20.4	18.1	22.7
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°	2404.5	2404.5	2404.5	2404.5	2404.5	2404.5	2404.5	2404.5	2404.5	2404.5	2404.5
2.5°	2463.4	2490.7	2495.2	2570.1	2585.9	2570.1	2610.9	2604.1	2622.2	2608.6	2583.7
5°	2520.2	2558.7	2633.6	2690.3	2690.3	2644.9	2608.6	2561.0	2490.7	2472.5	2458.9
7.5°	2617.7	2740.2	2808.2	2771.9	2699.4	2529.2	2293.3	2120.9	1975.7	1921.3	1896.4
10°	2790.1	2858.1	2937.5	2790.1	2488.4	2127.7	1730.8	1469.9	1265.7	1220.4	1186.4
12.5°	2901.2	3010.1	3055.5	2690.3	2098.2	1560.6	1129.6	834.8	691.9	583.0	564.8
15°	3046.4	3171.2	3078.2	2420.3	1653.6	1023.0	585.2	365.2	297.2	279.0	279.0
17.5°	3146.2	3282.3	2985.2	2084.6	1172.7	544.4	290.4	251.8	247.3	249.5	245.0
20°	3320.9	3402.5	2844.5	1694.5	700.9	279.0	233.6	224.6	220.0	226.8	222.3
22.5°	3386.7	3461.5	2615.4	1227.2	315.3	186.0	174.7	167.9	172.4	170.1	167.9
25°	3382.1	3420.7	2238.9	703.2	93.0	72.6	65.8	65.8	61.2	63.5	61.2
27.5°	3416.2	3320.9	1817.0	208.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	3434.3	3159.8	1293.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	3443.4	3075.9	832.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	3513.7	2908.0	356.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	3561.3	2692.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3758.7	2624.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4015.0	2497.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	4371.1	2309.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	4843.0	2198.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	5194.6	2023.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	5641.4	1919.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6172.2	1923.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	6655.4	1891.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	6902.6	1617.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	6850.5	1308.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	6669.0	1027.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	6544.2	909.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6165.4	728.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	4906.5	499.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3121.3	306.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1438.1	140.6	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	451.4	86.2	18.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	118.0	54.4	18.1	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	61.2	38.6	15.9	6.8	4.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	38.6	15.9	6.8	4.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	34.0	9.1	4.5	4.5	2.3	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)