

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: P482038

Luminaire Tested: **IFLD-M-SA4B-735-U-T2R-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P482038  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-735-U-T2R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

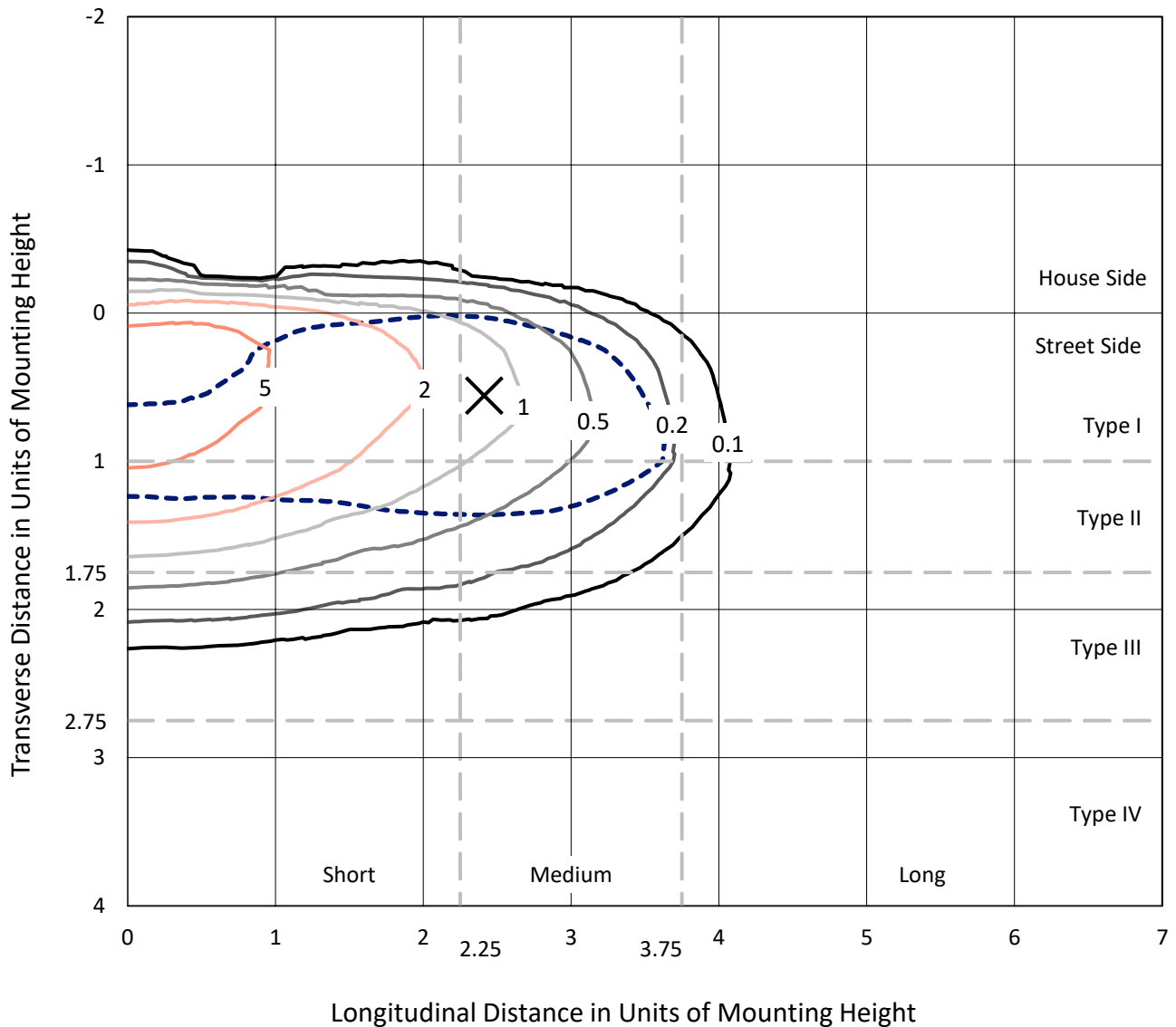
Lumens per Lamp: N/A  
Luminaire Lumens: 17710.5 lumens  
Efficiency: N/A  
Efficacy: 106.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 166.1  
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

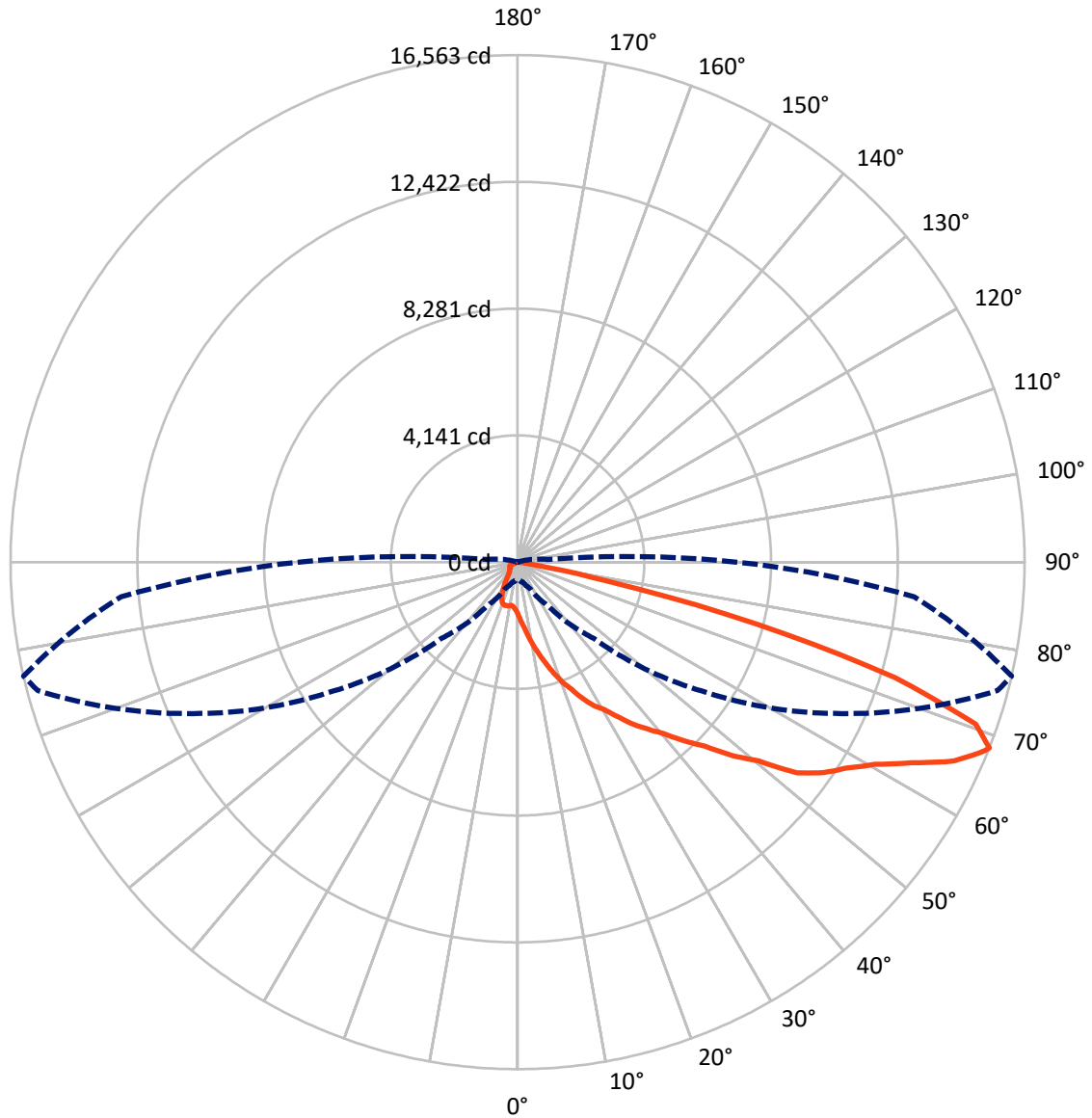
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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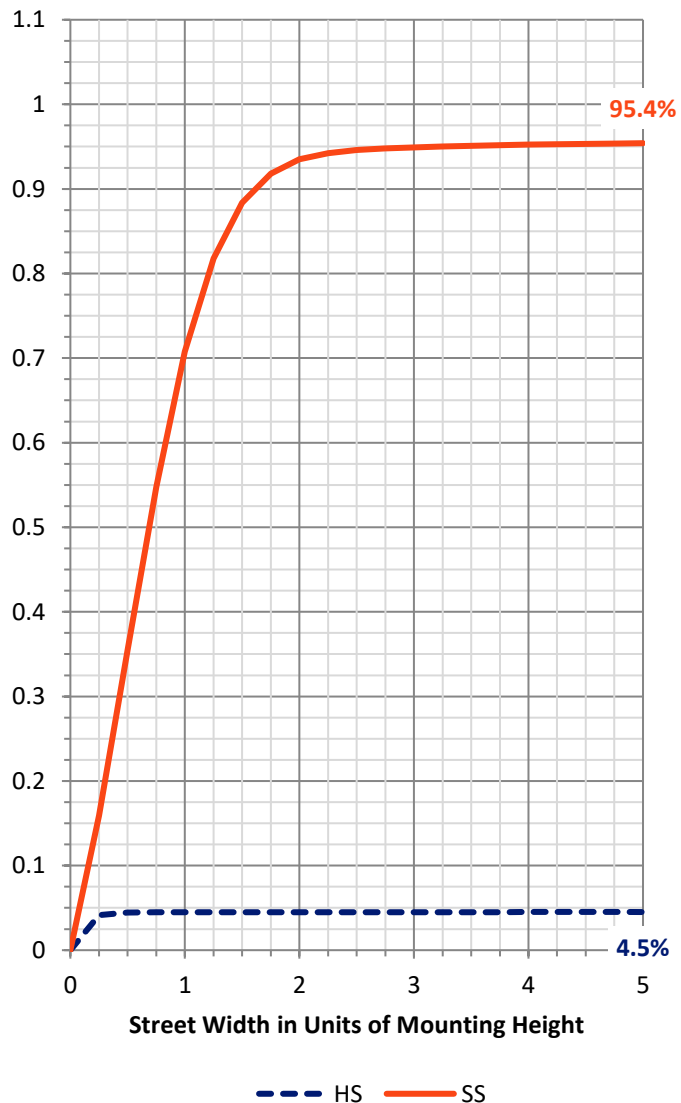
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	803.2	0.0	803.2
	% Fixture	4.5	0.0	4.5
<b>Street Side</b>	Lumens	16907.4	0.0	16907.4
	% Fixture	95.5	0.0	95.5
<b>Total</b>	Lumens	17710.5	0.0	17710.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	198.1	1.1
10°-20°	730.7	4.1
20°-30°	1416.1	8.0
30°-40°	2468.7	13.9
40°-50°	3615.6	20.4
50°-60°	4247.7	24.0
60°-70°	3586.8	20.3
70°-80°	1390.3	7.9
80°-90°	56.5	0.3
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°	17710.5	100.0
0°-180°	17710.5	100.0

**Coefficient of Utilization**

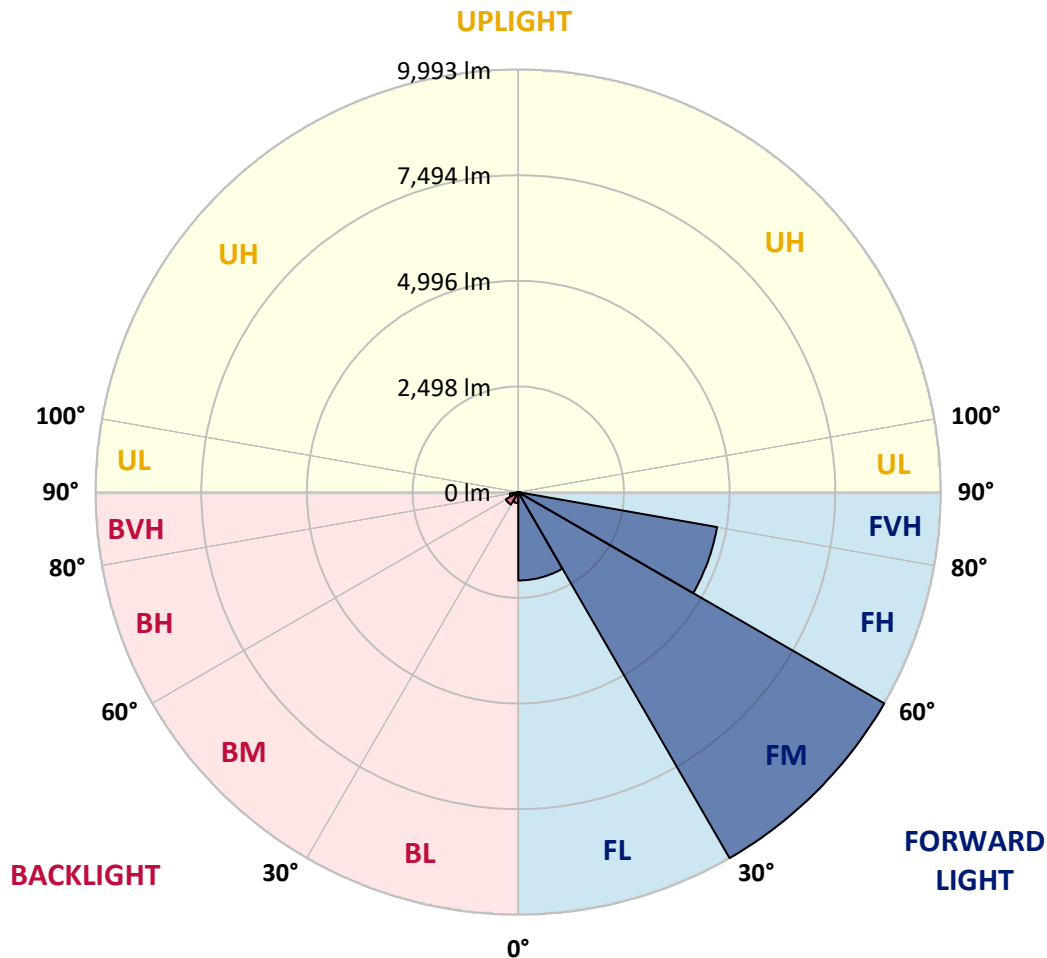


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2088.2	11.8			
FM (30°-60°)	9992.6	56.4			
FH (60°-80°)	4774.4	27.0			G2/5000
FVH (80°-90°)	52.2	0.3			G1/100
BL (0°-30°)	256.6	1.4	B1/500		
BM (30°-60°)	339.4	1.9	B1/1000		
BH (60°-80°)	202.8	1.1	B1/500		G1/500
BVH (80°-90°)	4.4	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-G2**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1695.8	1695.8	1695.8	1695.8	1695.8	1695.8	1695.8	1695.8	1695.8	1695.8	1695.8
2.5°	2576.7	2527.9	2476.6	2462.0	2366.8	2259.5	2159.4	2061.8	1898.3	1900.8	1788.5
5°	3320.9	3259.9	3218.4	3208.6	3059.8	2874.3	2723.1	2447.3	2176.5	2115.5	1910.5
7.5°	3933.3	3913.8	3852.8	3801.5	3691.7	3464.8	3286.7	2891.4	2479.1	2410.7	2059.4
10°	4304.2	4333.5	4360.3	4294.4	4209.0	4045.5	3801.5	3374.5	2823.1	2737.7	2252.1
12.5°	4699.5	4650.7	4667.7	4721.4	4609.2	4572.6	4270.0	3872.3	3225.7	3062.2	2496.1
15°	4802.0	4821.5	4863.0	5019.1	5094.8	4989.8	4728.8	4274.9	3642.9	3416.0	2723.1
17.5°	4870.3	4860.5	4911.8	5146.0	5260.7	5360.7	5197.2	4723.9	4006.5	3804.0	3006.1
20°	4955.7	4902.0	5014.2	5163.1	5429.0	5638.9	5631.6	5175.3	4387.1	4172.4	3286.7
22.5°	5272.9	5231.4	5321.7	5336.3	5521.8	5814.6	5885.3	5543.7	4777.6	4514.0	3589.3
25°	5858.5	5934.1	5826.8	5734.0	5790.2	5982.9	6034.2	5870.7	5170.4	4928.8	3891.8
27.5°	6714.9	6705.2	6492.9	6373.3	6239.1	6214.7	6251.3	6175.7	5480.3	5307.0	4140.7
30°	7634.8	7554.3	7359.1	7071.2	6775.9	6592.9	6541.7	6463.6	5843.8	5592.5	4387.1
32.5°	8366.8	8410.7	8193.6	7817.8	7327.4	7080.9	6834.5	6749.1	6244.0	6022.0	4670.2
35°	9040.3	8981.7	8808.5	8491.3	8052.1	7654.3	7268.8	7085.8	6724.7	6505.1	4982.5
37.5°	9538.0	9611.2	9281.8	8979.3	8542.5	8213.1	7834.9	7434.7	7220.0	6927.2	5363.2
40°	10008.9	9894.3	9672.2	9394.1	8989.0	8737.7	8488.8	7864.2	7747.0	7368.8	5792.6
42.5°	9926.0	9933.3	9811.3	9586.8	9294.0	9150.1	9064.7	8386.3	8225.3	7983.7	6212.3
45°	9586.8	9616.1	9657.6	9547.8	9572.2	9428.2	9657.6	8986.6	8828.0	8571.8	6695.4
47.5°	9213.5	9262.3	9252.5	9452.6	9679.5	9728.3	10301.7	9652.7	9584.4	9442.9	7364.0
50°	8593.7	8613.3	8801.1	9164.7	9474.6	9984.5	10784.9	10379.8	10484.7	10206.6	8159.4
52.5°	7534.8	7605.5	8088.7	8608.4	9233.0	10113.9	11111.8	11460.8	11726.7	11441.2	8923.1
55°	6195.2	6292.8	6768.6	7742.2	8657.2	9918.7	11409.5	12031.7	12571.0	12139.1	9386.7
57.5°	4985.0	4994.7	5421.7	6427.0	7839.8	9535.6	11560.8	12309.9	13034.6	12688.1	9952.8
60°	3799.1	3760.1	4143.1	5014.2	6463.6	8593.7	11182.6	12451.4	13612.8	13412.8	10633.6
62.5°	2444.9	2383.9	2801.1	3650.3	5048.4	7024.8	10426.2	12453.8	14515.7	14440.0	11773.1
65°	1210.2	1168.8	1527.4	2237.5	3494.1	5372.9	9347.7	12407.5	15618.5	15667.3	12883.3
67.5°	639.3	653.9	768.6	1134.6	2015.5	3796.7	7722.6	11863.4	16182.2	16455.5	13151.7
68°	588.0	592.9	683.2	944.3	1749.5	3520.9	7337.1	11704.8	16226.1	16562.8	13002.8
70°	478.2	485.6	517.3	592.9	946.7	2291.2	5660.8	10357.9	15564.9	15872.3	11770.6
72.5°	380.6	402.6	422.1	453.8	556.3	1202.9	3520.9	8071.6	12858.9	12893.0	9162.3
75°	290.4	307.4	346.5	373.3	434.3	661.2	1676.3	4921.5	8437.6	8022.8	5397.3
77.5°	224.5	239.1	256.2	292.8	363.6	446.5	512.4	2088.7	3584.4	2950.0	1525.0
80°	134.2	144.0	200.1	229.4	317.2	302.6	202.5	580.7	727.1	573.4	278.2
82.5°	78.1	85.4	114.7	175.7	222.0	163.5	119.6	180.6	178.1	156.2	92.7
85°	2.4	4.9	63.4	104.9	78.1	43.9	73.2	75.6	63.4	58.6	41.5
87.5°	0.0	2.4	17.1	14.6	17.1	9.8	14.6	19.5	24.4	22.0	17.1
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°	1695.8	1695.8	1695.8	1695.8	1695.8	1695.8	1695.8	1695.8	1695.8	1695.8	1695.8
2.5°	1712.9	1659.2	1539.6	1449.4	1351.8	1293.2	1234.6	1198.0	1178.5	1166.3	1176.1
5°	1756.8	1644.6	1451.8	1281.0	1168.8	1093.1	1017.5	978.4	941.8	922.3	934.5
7.5°	1854.4	1686.1	1366.4	1181.0	1049.2	932.1	836.9	761.3	717.4	678.3	685.6
10°	1974.0	1710.5	1368.8	1122.4	932.1	746.6	612.4	517.3	463.6	429.4	427.0
12.5°	2096.0	1805.6	1378.6	1063.8	788.1	561.2	402.6	331.8	300.1	283.0	283.0
15°	2281.4	1891.0	1354.2	956.5	597.8	366.0	275.7	251.3	239.1	224.5	226.9
17.5°	2442.5	2027.7	1342.0	795.4	409.9	263.5	229.4	202.5	190.3	175.7	175.7
20°	2659.6	2113.1	1276.1	614.9	283.0	219.6	185.4	161.0	141.5	129.3	131.8
22.5°	2857.3	2178.9	1159.0	419.7	217.2	173.2	136.6	112.2	95.2	80.5	83.0
25°	3072.0	2244.8	988.2	258.6	153.7	107.4	73.2	53.7	36.6	26.8	26.8
27.5°	3225.7	2264.3	766.2	153.7	92.7	48.8	17.1	2.4	0.0	0.0	0.0
30°	3381.9	2271.7	529.5	83.0	36.6	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	3560.0	2269.2	331.8	43.9	2.4	0.0	0.0	0.0	0.0	0.0	0.0
35°	3696.6	2227.7	158.6	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	3904.0	2166.7	48.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4140.7	2056.9	9.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4353.0	1944.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	4594.5	1805.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5019.1	1747.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	5573.0	1700.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	5914.6	1564.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6092.7	1422.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	6356.2	1354.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	6746.6	1359.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	7356.6	1427.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	7693.4	1359.1	9.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	7407.9	1088.2	46.4	12.2	2.4	0.0	0.0	0.0	0.0	0.0	0.0
68°	7161.4	1000.4	46.4	12.2	2.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	5919.5	651.5	43.9	12.2	4.9	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4311.5	361.1	36.6	9.8	4.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	2508.3	180.6	26.8	9.8	4.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	653.9	90.3	22.0	12.2	7.3	2.4	0.0	0.0	0.0	0.0	0.0
80°	129.3	58.6	19.5	14.6	9.8	4.9	0.0	0.0	0.0	0.0	0.0
82.5°	61.0	41.5	19.5	14.6	12.2	7.3	2.4	0.0	0.0	0.0	0.0
85°	31.7	19.5	19.5	14.6	14.6	9.8	4.9	0.0	0.0	0.0	0.0
87.5°	14.6	7.3	7.3	7.3	7.3	4.9	2.4	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)