

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: P481965

Luminaire Tested: **IFLD-L-SA7B-727-U-T2R-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481965  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7B-727-U-T2R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield  
Light Source: (112) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

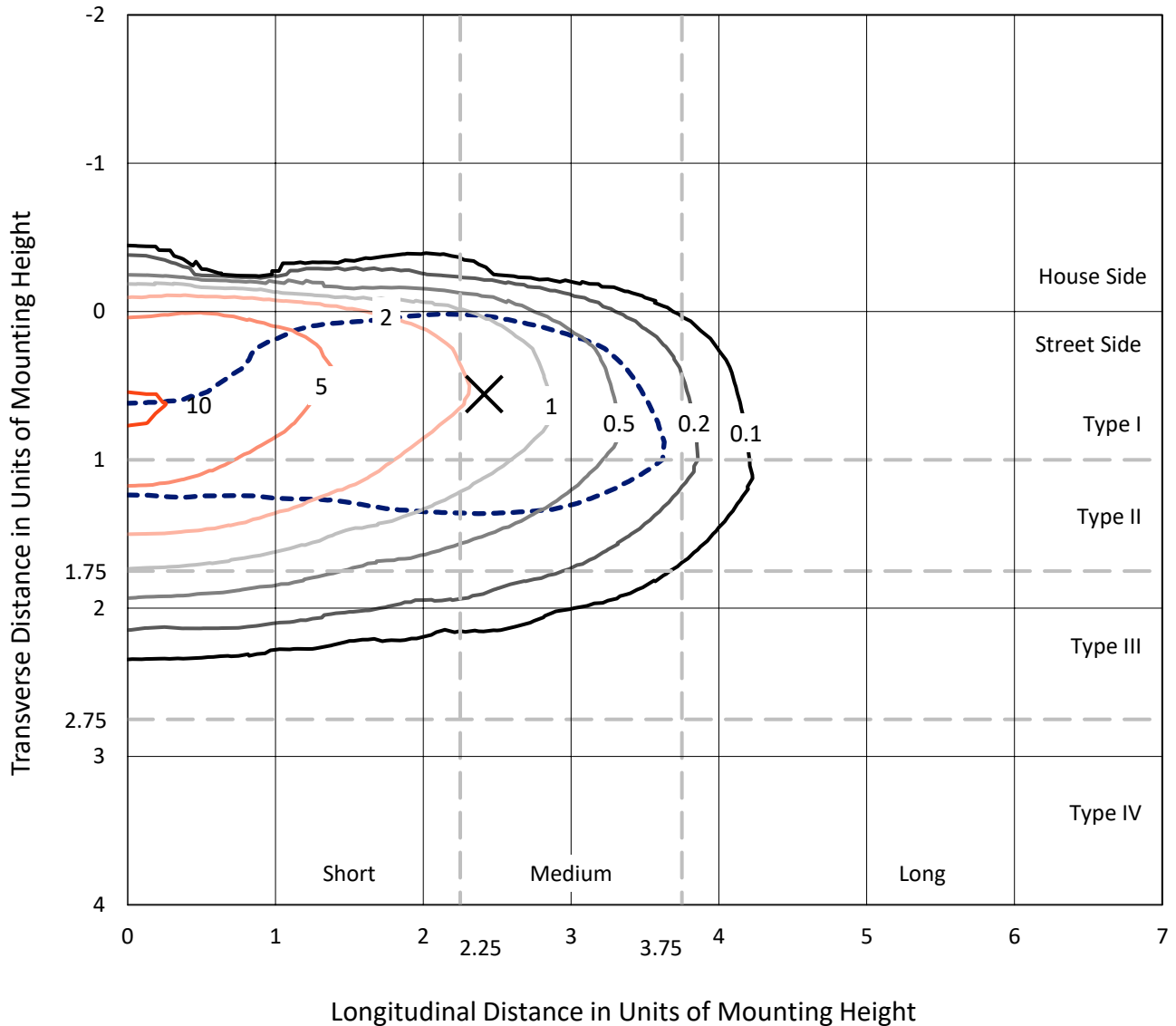
Lumens per Lamp: N/A  
Luminaire Lumens: 23415.1 lumens  
Efficiency: N/A  
Efficacy: 83.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G3

Input Watts (W): 281  
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

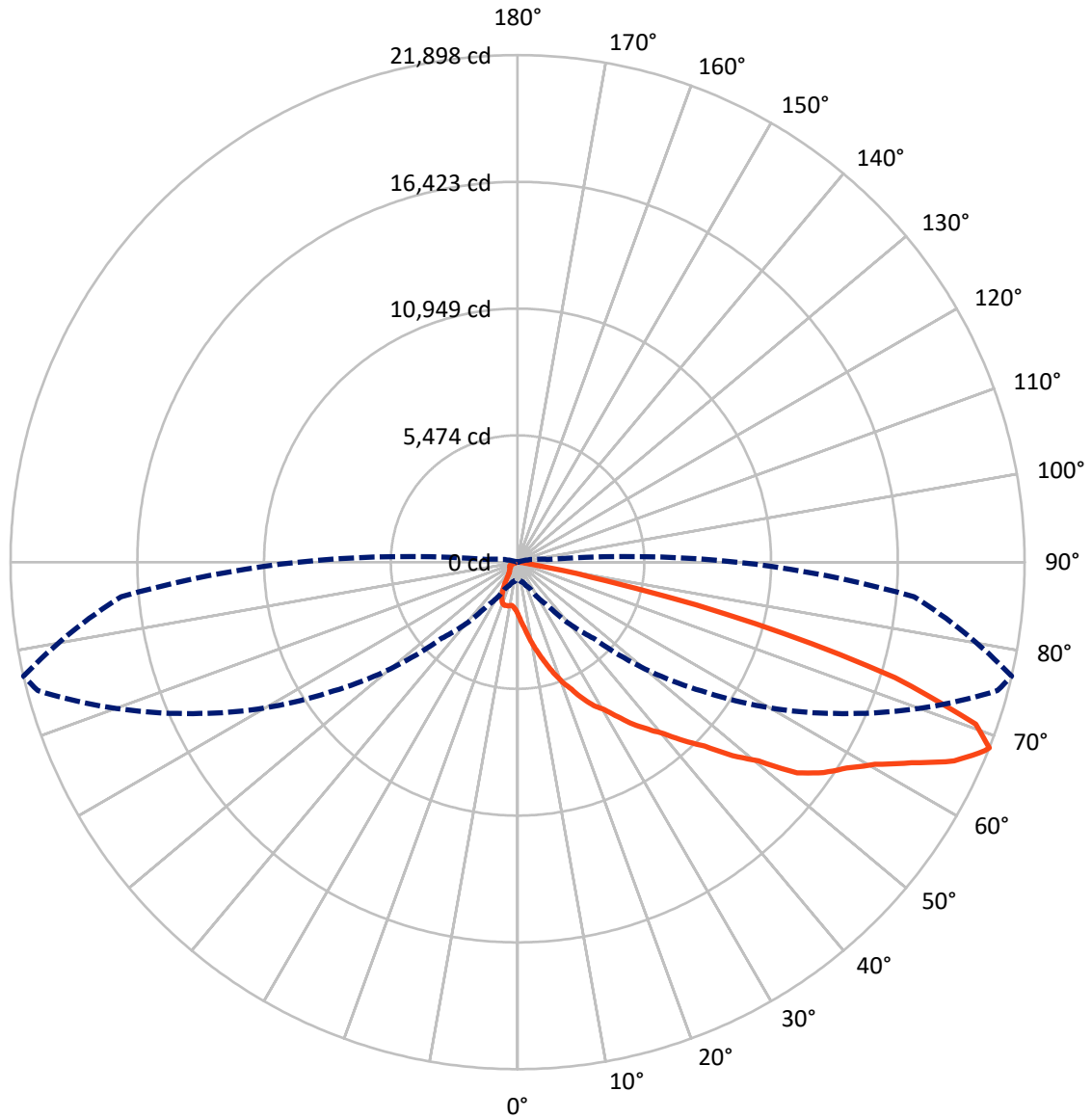
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 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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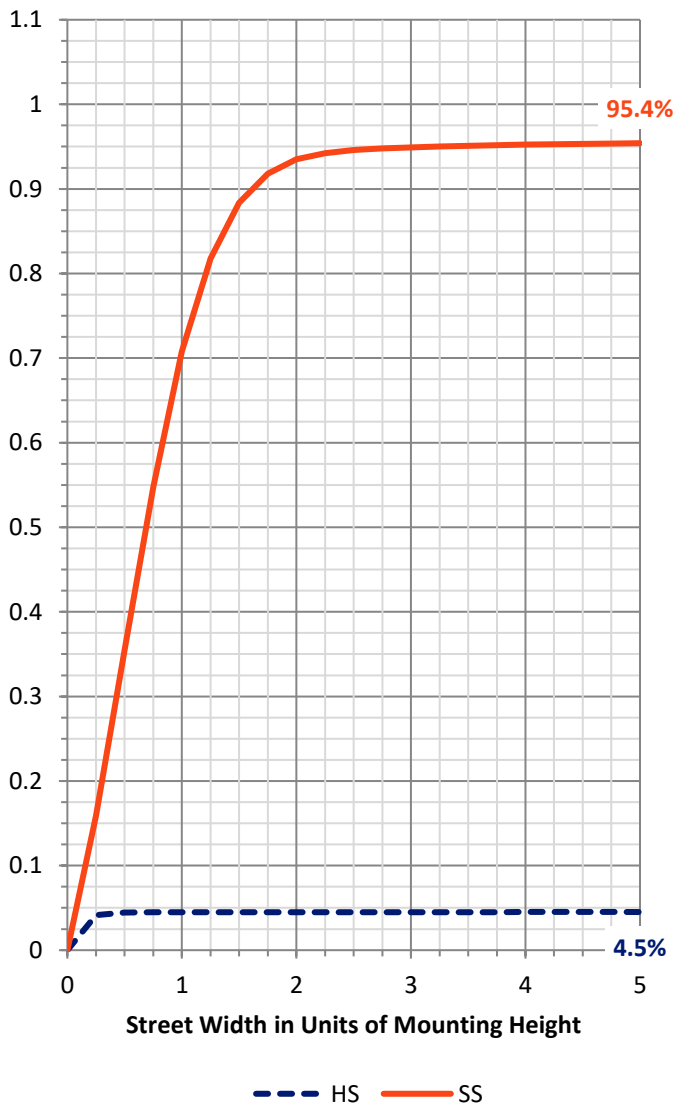
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1061.9	0.0	1061.9
	% Fixture	4.5	0.0	4.5
<b>Street Side</b>	Lumens	22353.3	0.0	22353.3
	% Fixture	95.5	0.0	95.5
<b>Total</b>	Lumens	23415.1	0.0	23415.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	261.9	1.1
10°-20°	966.0	4.1
20°-30°	1872.2	8.0
30°-40°	3263.8	13.9
40°-50°	4780.2	20.4
50°-60°	5615.9	24.0
60°-70°	4742.2	20.3
70°-80°	1838.2	7.9
80°-90°	74.8	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°	23415.1	100.0
0°-180°	23415.1	100.0



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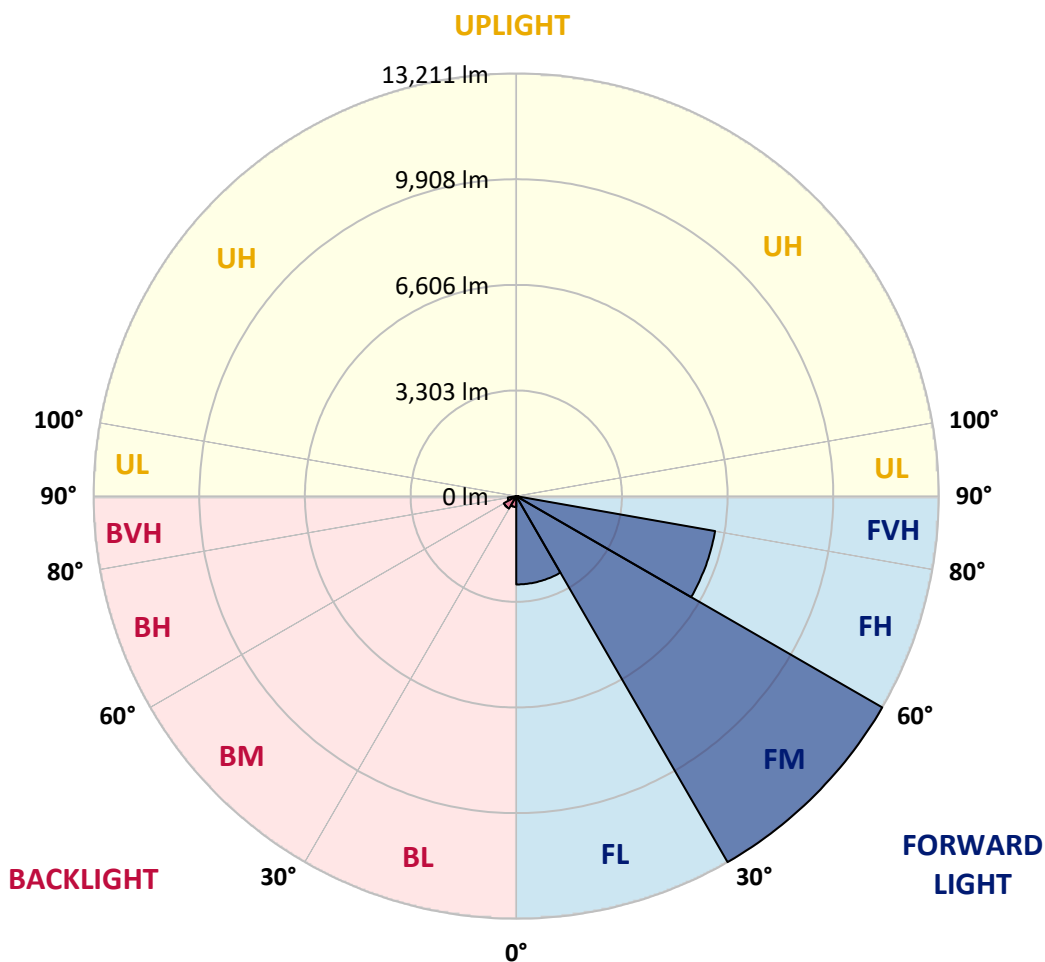
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2760.9	11.8			
FM (30°-60°)	13211.2	56.4			
FH (60°-80°)	6312.2	27.0			G3/7500
FVH (80°-90°)	69.0	0.3			G1/100
BL (0°-30°)	339.3	1.4	B1/500		
BM (30°-60°)	448.7	1.9	B1/1000		
BH (60°-80°)	268.1	1.1	B1/500		G1/500
BVH (80°-90°)	5.8	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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2242.0	2242.0	2242.0	2242.0	2242.0	2242.0	2242.0	2242.0	2242.0	2242.0	2242.0
2.5°	3406.6	3342.1	3274.3	3255.0	3129.2	2987.2	2855.0	2725.9	2509.8	2513.0	2364.6
5°	4390.5	4309.9	4255.0	4242.1	4045.3	3800.2	3600.2	3235.6	2877.5	2796.9	2525.9
7.5°	5200.2	5174.4	5093.8	5026.0	4880.9	4580.8	4345.4	3822.7	3277.6	3187.2	2722.7
10°	5690.6	5729.3	5764.8	5677.7	5564.8	5348.6	5026.0	4461.5	3732.4	3619.5	2977.6
12.5°	6213.2	6148.7	6171.2	6242.2	6093.8	6045.4	5645.4	5119.6	4264.7	4048.6	3300.1
15°	6348.7	6374.5	6429.3	6635.8	6735.8	6597.1	6251.9	5651.9	4816.3	4516.3	3600.2
17.5°	6439.0	6426.1	6493.8	6803.5	6955.1	7087.4	6871.3	6245.4	5297.0	5029.3	3974.4
20°	6551.9	6480.9	6629.3	6826.1	7177.7	7455.2	7445.5	6842.2	5800.3	5516.4	4345.4
22.5°	6971.3	6916.4	7035.8	7055.2	7300.3	7687.4	7781.0	7329.4	6316.4	5968.0	4745.4
25°	7745.5	7845.5	7703.6	7581.0	7655.2	7910.0	7977.8	7761.6	6835.8	6516.4	5145.4
27.5°	8877.8	8864.9	8584.2	8426.2	8248.8	8216.5	8264.9	8164.9	7245.5	7016.4	5474.4
30°	10094.0	9987.5	9729.5	9348.8	8958.5	8716.5	8648.8	8545.5	7726.1	7393.9	5800.3
32.5°	11061.8	11119.8	10832.7	10335.9	9687.5	9361.7	9035.9	8923.0	8255.2	7961.6	6174.5
35°	11952.1	11874.7	11645.7	11226.3	10645.6	10119.8	9610.1	9368.2	8890.7	8600.4	6587.4
37.5°	12610.2	12707.0	12271.5	11871.5	11294.0	10858.5	10358.5	9829.5	9545.6	9158.5	7090.6
40°	13232.8	13081.2	12787.7	12419.9	11884.4	11552.1	11223.1	10397.2	10242.4	9742.4	7658.4
42.5°	13123.2	13132.8	12971.5	12674.8	12287.6	12097.3	11984.4	11087.6	10874.7	10555.3	8213.3
45°	12674.8	12713.5	12768.3	12623.1	12655.4	12465.1	12768.3	11881.2	11671.5	11332.8	8852.0
47.5°	12181.2	12245.7	12232.8	12497.3	12797.3	12861.9	13620.0	12761.9	12671.5	12484.4	9735.9
50°	11361.8	11387.6	11636.0	12116.7	12526.4	13200.6	14258.7	13723.2	13861.9	13494.1	10787.6
52.5°	9961.7	10055.3	10694.0	11381.1	12207.0	13371.6	14691.0	15152.3	15503.9	15126.5	11797.3
55°	8190.7	8319.7	8948.8	10235.9	11445.7	13113.5	15084.5	15907.2	16620.1	16049.1	12410.2
57.5°	6590.6	6603.5	7168.1	8497.1	10365.0	12607.0	15284.5	16274.9	17233.0	16774.9	13158.6
60°	5022.8	4971.2	5477.7	6629.3	8545.5	11361.8	14784.5	16462.0	17997.6	17733.0	14058.7
62.5°	3232.4	3151.8	3703.4	4826.0	6674.5	9287.5	13784.5	16465.2	19191.2	19091.2	15565.2
65°	1600.1	1545.2	2019.4	2958.2	4619.6	7103.5	12358.6	16403.9	20649.3	20713.8	17033.0
67.5°	845.2	864.6	1016.2	1500.1	2664.6	5019.6	10210.1	15684.6	21394.5	21755.8	17387.9
68°	777.5	783.9	903.3	1248.4	2313.0	4655.0	9700.4	15474.9	21452.6	21897.7	17191.1
70°	632.3	642.0	683.9	783.9	1251.7	3029.2	7484.2	13694.2	20578.3	20984.8	15562.0
72.5°	503.2	532.3	558.1	600.0	735.5	1590.4	4655.0	10671.4	17000.8	17045.9	12113.4
75°	383.9	406.5	458.1	493.6	574.2	874.2	2216.2	6506.7	11155.3	10606.9	7135.8
77.5°	296.8	316.1	338.7	387.1	480.7	590.3	677.4	2761.4	4738.9	3900.2	2016.2
80°	177.4	190.3	264.5	303.2	419.4	400.0	267.8	767.8	961.3	758.1	367.8
82.5°	103.2	112.9	151.6	232.3	293.6	216.1	158.1	238.7	235.5	206.5	122.6
85°	3.2	6.5	83.9	138.7	103.2	58.1	96.8	100.0	83.9	77.4	54.8
87.5°	0.0	3.2	22.6	19.4	22.6	12.9	19.4	25.8	32.3	29.0	22.6
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°	2242.0	2242.0	2242.0	2242.0	2242.0	2242.0	2242.0	2242.0	2242.0	2242.0	2242.0
2.5°	2264.6	2193.6	2035.6	1916.2	1787.2	1709.8	1632.3	1583.9	1558.1	1542.0	1554.9
5°	2322.7	2174.3	1919.4	1693.6	1545.2	1445.2	1345.2	1293.6	1245.2	1219.4	1235.5
7.5°	2451.7	2229.1	1806.5	1561.4	1387.2	1232.3	1106.5	1006.5	948.4	896.8	906.5
10°	2609.8	2261.4	1809.8	1483.9	1232.3	987.1	809.7	683.9	612.9	567.8	564.5
12.5°	2771.1	2387.2	1822.7	1406.5	1042.0	742.0	532.3	438.7	396.8	374.2	374.2
15°	3016.3	2500.1	1790.4	1264.6	790.4	483.9	364.5	332.3	316.1	296.8	300.0
17.5°	3229.2	2680.8	1774.3	1051.7	542.0	348.4	303.2	267.8	251.6	232.3	232.3
20°	3516.3	2793.7	1687.2	812.9	374.2	290.3	245.2	212.9	187.1	171.0	174.2
22.5°	3777.6	2880.8	1532.3	554.9	287.1	229.0	180.7	148.4	125.8	106.5	109.7
25°	4061.5	2967.9	1306.5	342.0	203.2	141.9	96.8	71.0	48.4	35.5	35.5
27.5°	4264.7	2993.7	1012.9	203.2	122.6	64.5	22.6	3.2	0.0	0.0	0.0
30°	4471.2	3003.4	700.0	109.7	48.4	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	4706.7	3000.1	438.7	58.1	3.2	0.0	0.0	0.0	0.0	0.0	0.0
35°	4887.3	2945.3	209.7	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	5161.5	2864.6	64.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5474.4	2719.5	12.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5755.1	2571.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	6074.5	2387.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	6635.8	2309.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	7368.1	2248.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	7819.7	2067.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	8055.2	1880.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	8403.6	1790.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	8919.7	1796.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	9726.2	1887.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	10171.4	1796.9	12.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	9794.0	1438.8	61.3	16.1	3.2	0.0	0.0	0.0	0.0	0.0	0.0
68°	9468.2	1322.6	61.3	16.1	3.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	7826.2	861.3	58.1	16.1	6.5	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5700.3	477.4	48.4	12.9	6.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	3316.3	238.7	35.5	12.9	6.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	864.6	119.4	29.0	16.1	9.7	3.2	0.0	0.0	0.0	0.0	0.0
80°	171.0	77.4	25.8	19.4	12.9	6.5	0.0	0.0	0.0	0.0	0.0
82.5°	80.6	54.8	25.8	19.4	16.1	9.7	3.2	0.0	0.0	0.0	0.0
85°	41.9	25.8	25.8	19.4	19.4	12.9	6.5	0.0	0.0	0.0	0.0
87.5°	19.4	9.7	9.7	9.7	9.7	6.5	3.2	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)