

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: P481808

Luminaire Tested: **IFLD-L-SA7A-827-U-T2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481808  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7A-827-U-T2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield  
Light Source: (112) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

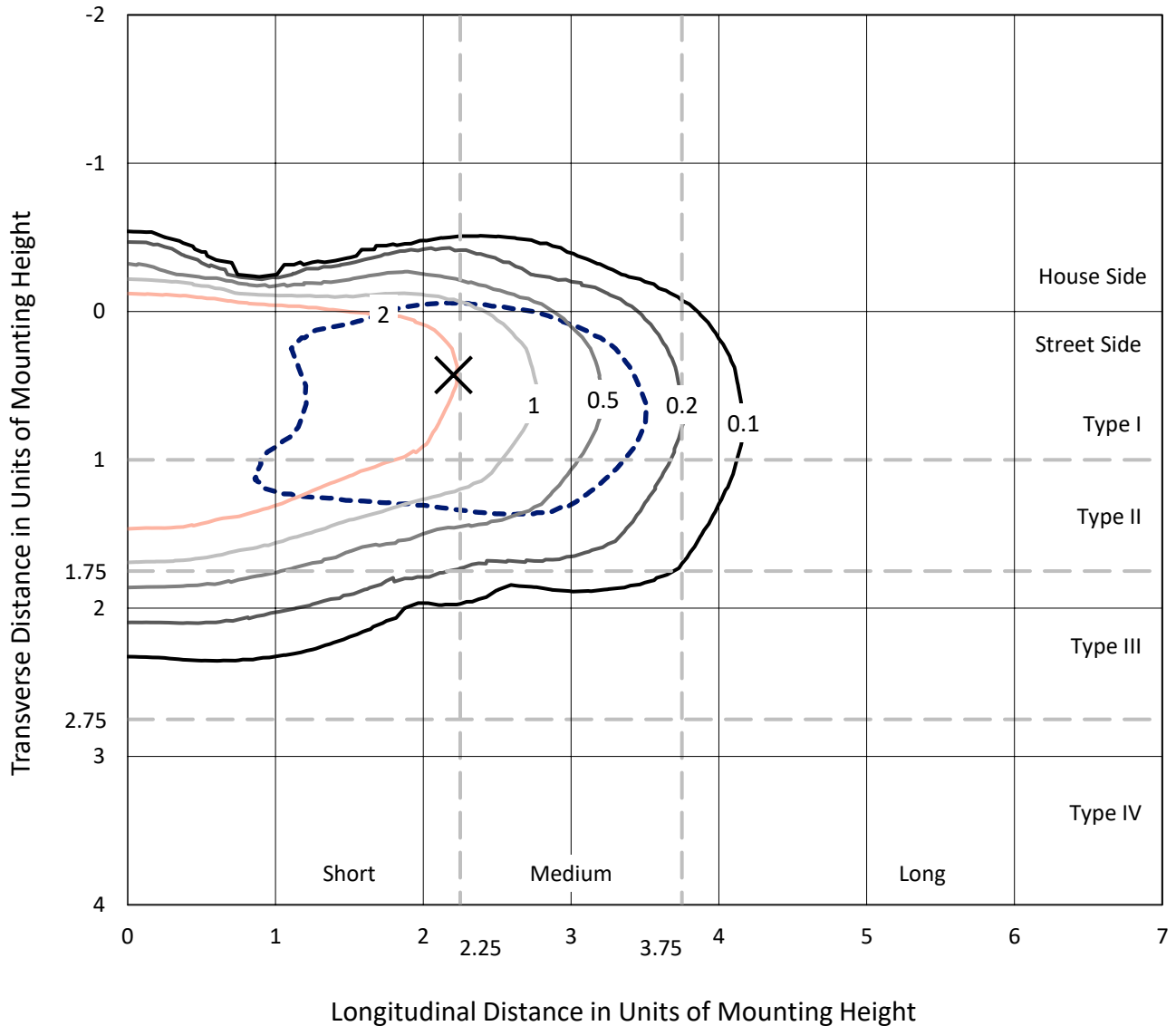
Lumens per Lamp: N/A  
Luminaire Lumens: 16569.7 lumens  
Efficiency: N/A  
Efficacy: 76.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G3

Input Watts (W): 217.6  
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

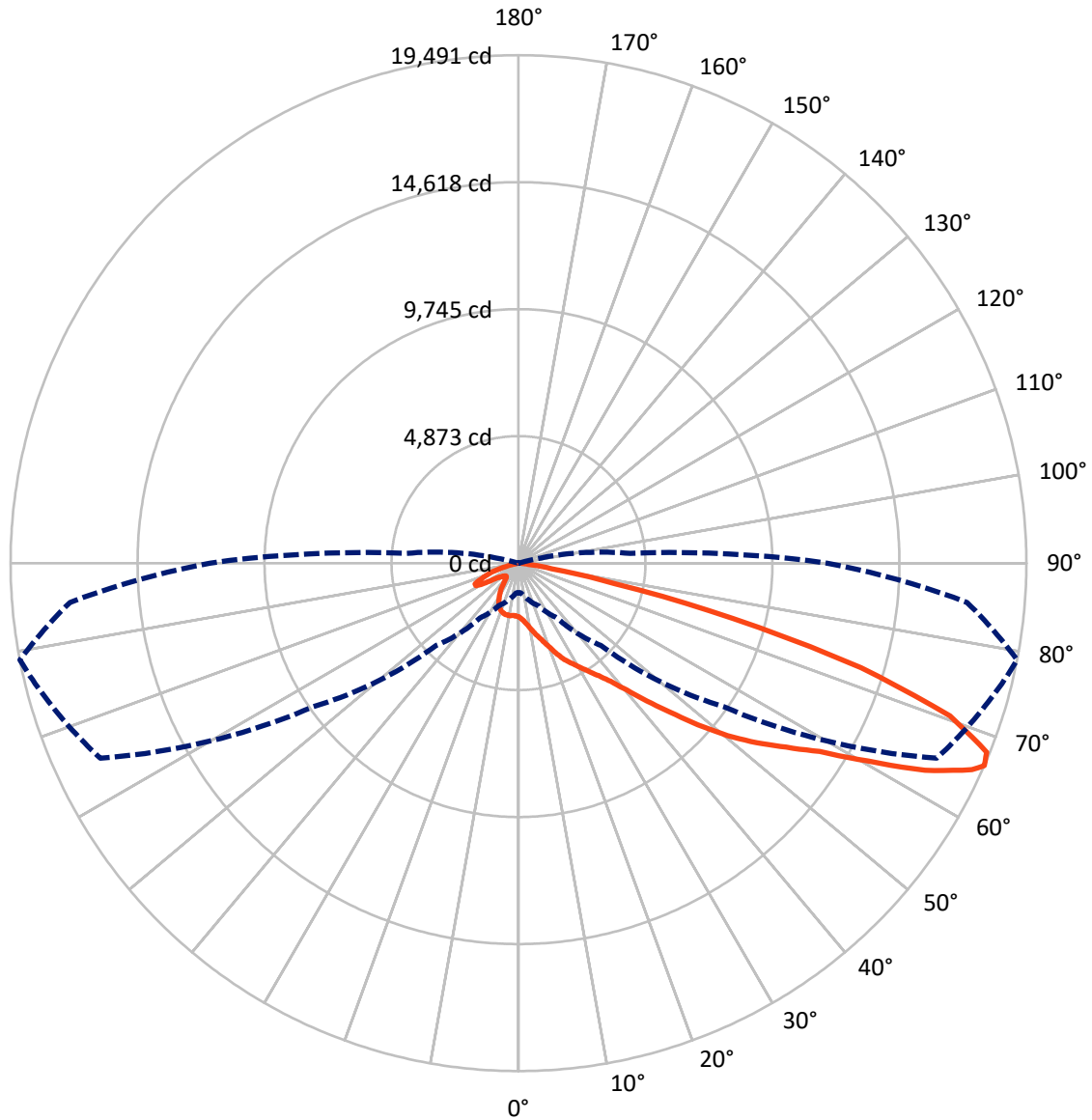
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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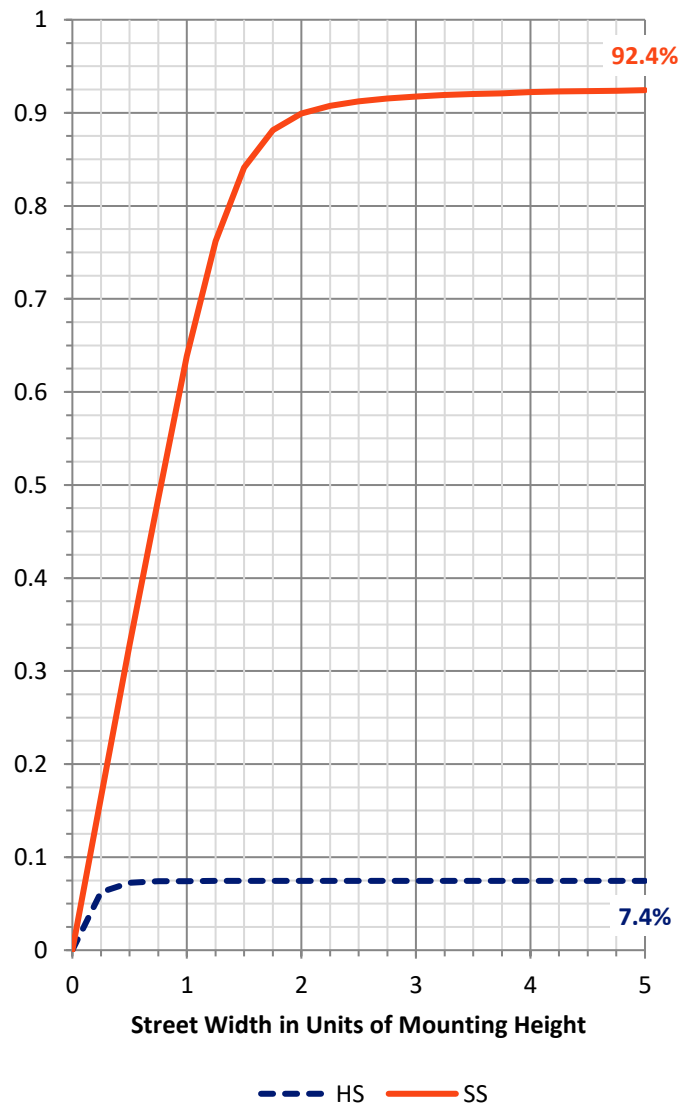
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1244.2	0.0	1244.2
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	15325.5	0.0	15325.5
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	16569.7	0.0	16569.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	195.0	1.2
10°-20°	536.6	3.2
20°-30°	891.3	5.4
30°-40°	1531.0	9.2
40°-50°	2773.6	16.7
50°-60°	4384.2	26.5
60°-70°	4461.3	26.9
70°-80°	1701.3	10.3
80°-90°	95.4	0.6
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°	16569.7	100.0
0°-180°	16569.7	100.0

**Coefficient of Utilization**

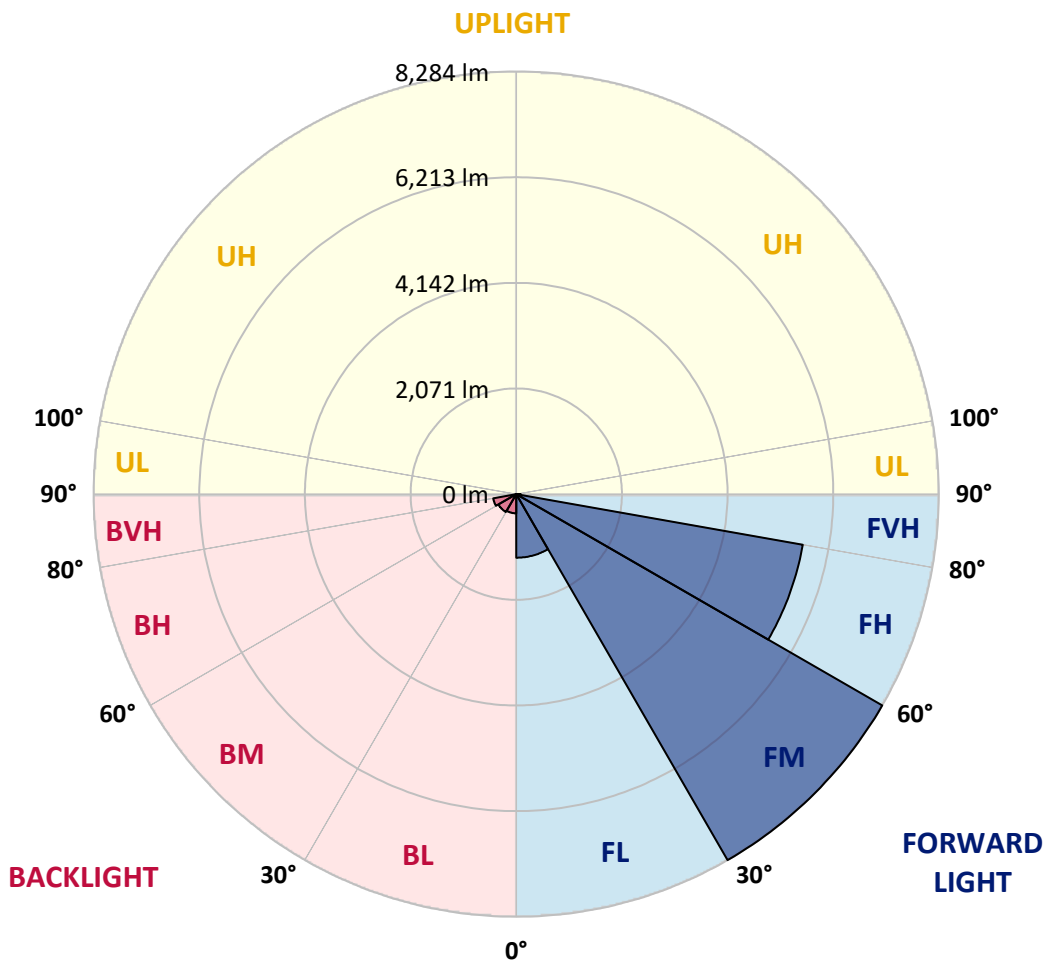


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1246.6	7.5			
FM (30°-60°)	8284.5	50.0			
FH (60°-80°)	5704.0	34.4			G3/7500
FVH (80°-90°)	90.5	0.5			G1/100
BL (0°-30°)	376.3	2.3	B1/500		
BM (30°-60°)	404.4	2.4	B1/1000		
BH (60°-80°)	458.6	2.8	B1/500		G1/500
BVH (80°-90°)	4.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2061.5	2061.5	2061.5	2061.5	2061.5	2061.5	2061.5	2061.5	2061.5	2061.5	2061.5
2.5°	2334.8	2332.2	2322.0	2304.1	2281.2	2273.5	2240.3	2194.3	2168.8	2140.7	2127.9
5°	2495.7	2483.0	2513.6	2500.8	2505.9	2444.6	2403.8	2370.6	2273.5	2235.2	2173.9
7.5°	2531.5	2544.3	2541.7	2562.1	2582.6	2605.6	2577.5	2528.9	2431.9	2375.7	2309.3
10°	2531.5	2526.4	2546.8	2574.9	2633.7	2684.8	2761.4	2697.5	2623.5	2557.0	2437.0
12.5°	2485.5	2477.8	2498.3	2557.0	2661.8	2766.5	2850.8	2912.1	2807.4	2753.7	2597.9
15°	2345.0	2337.3	2421.6	2526.4	2664.3	2835.5	3011.7	3111.4	3039.8	2955.5	2781.8
17.5°	2171.3	2181.5	2270.9	2444.6	2664.3	2868.7	3093.5	3310.6	3300.4	3193.1	3011.7
20°	2112.6	2120.2	2209.6	2334.8	2585.1	2891.7	3221.2	3527.7	3589.0	3461.3	3223.8
22.5°	2225.0	2217.3	2225.0	2301.6	2531.5	2871.2	3305.5	3775.5	3885.4	3785.7	3502.2
25°	2608.1	2603.0	2539.2	2421.6	2500.8	2825.3	3348.9	3939.0	4191.9	4099.9	3727.0
27.5°	3170.1	3149.7	3050.1	2804.8	2643.9	2853.4	3420.4	4097.4	4460.1	4355.4	3928.8
30°	3773.0	3724.4	3594.2	3287.6	3014.3	2958.1	3461.3	4214.9	4759.0	4626.2	4105.1
32.5°	4189.3	4253.2	4212.3	3900.7	3481.8	3200.8	3527.7	4363.1	5034.9	4948.0	4406.5
35°	4833.1	4907.2	4736.0	4460.1	4038.6	3586.5	3668.2	4483.1	5458.9	5313.3	4687.5
37.5°	5645.4	5701.6	5579.0	5055.3	4610.8	4061.6	3956.9	4733.5	5824.2	5755.2	5047.7
40°	6054.1	6324.9	6151.2	5678.6	5200.9	4725.8	4434.6	5027.2	6460.3	6404.1	5545.8
42.5°	6618.7	6754.0	6664.6	6314.7	5816.6	5435.9	5024.7	5599.4	7231.7	7231.7	6220.2
45°	7216.4	7221.5	7216.4	6930.3	6488.4	6291.7	5821.7	6317.2	8061.9	8153.9	7027.4
47.5°	7706.9	7860.1	7847.4	7676.2	7333.9	7259.8	6618.7	7134.7	9104.2	9265.1	7814.2
50°	7959.8	8130.9	8182.0	8271.4	8256.1	8411.9	7489.7	8082.4	10003.3	10399.3	8825.7
52.5°	7890.8	7903.6	8217.8	8570.3	9132.3	9569.1	8539.6	9157.8	11055.8	11446.6	9607.4
55°	7326.3	7277.7	7924.0	8327.6	9489.9	10276.7	9993.1	10498.9	11875.8	12471.0	10414.6
57.5°	6087.3	6100.1	6697.8	7517.8	9224.2	10557.7	11546.3	12251.3	13025.3	13625.6	11548.8
60°	4202.1	4186.8	4856.1	5803.8	7663.4	10034.0	12440.3	14522.2	14563.1	15413.7	13584.7
62.5°	2362.9	2368.0	2876.3	3686.1	5361.9	8199.9	12396.9	16933.7	16759.9	17505.9	15899.1
65°	1338.5	1371.8	1721.7	2184.1	3211.0	5504.9	10662.4	17894.1	18453.6	19117.7	17304.1
66°	1131.6	1154.6	1453.5	1803.5	2562.1	4465.2	9597.2	17707.7	18984.9	19490.7	17276.0
67.5°	876.2	906.8	1157.2	1430.5	1880.1	3090.9	7724.7	16780.4	19082.0	19378.3	16788.0
70°	600.3	620.7	812.3	1085.7	1284.9	1581.2	4618.5	13873.4	17314.3	17564.6	14591.2
72.5°	421.5	431.7	569.6	822.5	988.6	904.3	2291.4	9870.5	13250.1	13738.0	11349.6
75°	304.0	314.2	390.8	590.1	771.5	592.6	1049.9	6304.5	8125.8	8509.0	6835.8
77.5°	219.7	232.5	265.7	380.6	559.4	416.4	516.0	3292.7	3831.7	3765.3	2940.2
80°	132.8	145.6	196.7	245.2	408.7	293.8	283.5	1374.3	1359.0	1290.0	924.7
82.5°	61.3	71.5	104.7	166.0	286.1	204.4	135.4	490.5	429.2	393.4	260.6
85°	17.9	23.0	61.3	125.2	145.6	99.6	81.7	168.6	176.3	150.7	86.9
87.5°	0.0	2.6	28.1	30.7	43.4	33.2	30.7	43.4	81.7	66.4	28.1
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°	2061.5	2061.5	2061.5	2061.5	2061.5	2061.5	2061.5	2061.5	2061.5	2061.5	2061.5
2.5°	2081.9	2064.0	2020.6	1954.2	1895.4	1864.8	1821.3	1783.0	1762.6	1760.0	1757.5
5°	2133.0	2084.5	1979.7	1859.7	1770.3	1673.2	1606.8	1558.2	1512.3	1468.8	1494.4
7.5°	2202.0	2125.3	1954.2	1798.4	1604.2	1479.0	1361.5	1292.6	1251.7	1213.4	1208.3
10°	2309.3	2212.2	1936.3	1655.3	1433.1	1249.1	1129.1	1029.5	973.3	906.8	932.4
12.5°	2454.9	2281.2	1869.9	1525.0	1238.9	1044.8	873.6	712.7	623.3	554.3	556.9
15°	2600.5	2373.1	1808.6	1366.6	1062.7	807.2	556.9	447.0	421.5	406.2	411.3
17.5°	2743.5	2447.2	1714.1	1205.7	860.9	513.5	406.2	383.2	370.4	355.1	355.1
20°	2917.2	2495.7	1596.6	1057.6	592.6	380.6	347.4	332.1	311.6	291.2	293.8
22.5°	3085.8	2536.6	1461.2	868.5	398.5	329.5	291.2	270.8	252.9	232.5	232.5
25°	3254.4	2549.4	1284.9	623.3	321.9	263.1	227.3	199.2	181.4	163.5	166.0
27.5°	3369.4	2470.2	1118.9	398.5	258.0	199.2	158.4	135.4	120.1	102.2	102.2
30°	3435.8	2324.6	940.0	281.0	194.1	135.4	94.5	71.5	56.2	43.4	40.9
32.5°	3502.2	2207.1	738.2	214.6	127.7	71.5	35.8	12.8	0.0	0.0	0.0
35°	3635.0	2074.2	495.6	120.1	43.4	2.6	0.0	0.0	0.0	0.0	0.0
37.5°	3719.3	1890.3	227.3	17.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3931.3	1798.4	56.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4276.2	1734.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	4654.3	1708.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5157.5	1777.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	5688.8	1964.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	6271.3	2140.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6779.6	2352.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	7714.5	2853.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	9392.8	3836.8	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	11283.1	4567.4	28.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	11975.4	4549.5	48.5	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	11852.8	4299.2	48.5	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	11216.7	3818.9	43.4	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	9632.9	3154.8	43.4	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	7344.1	2457.4	40.9	10.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	4432.0	1307.9	33.2	12.8	5.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1765.1	459.8	25.5	10.2	5.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	477.7	137.9	15.3	10.2	7.7	2.6	0.0	0.0	0.0	0.0	0.0
82.5°	125.2	51.1	12.8	10.2	5.1	2.6	0.0	0.0	0.0	0.0	0.0
85°	48.5	20.4	10.2	7.7	7.7	5.1	2.6	0.0	0.0	0.0	0.0
87.5°	15.3	7.7	7.7	5.1	5.1	2.6	2.6	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)