

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: P481730

Luminaire Tested: **IFLD-L-SA7A-750-U-T2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481730  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7A-750-U-T2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield  
Light Source: (112) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

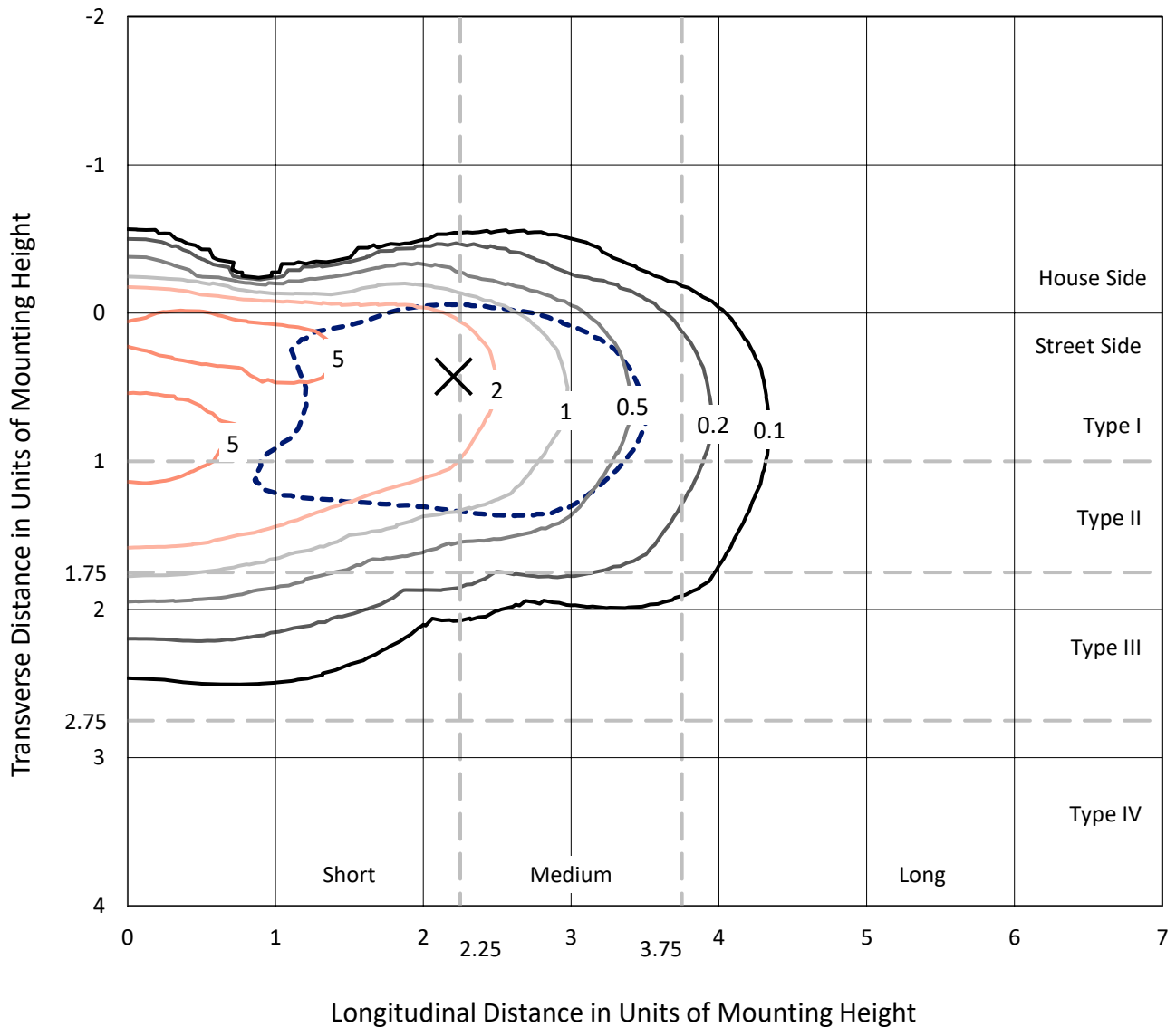
Lumens per Lamp: N/A  
Luminaire Lumens: 23056.9 lumens  
Efficiency: N/A  
Efficacy: 106.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4

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

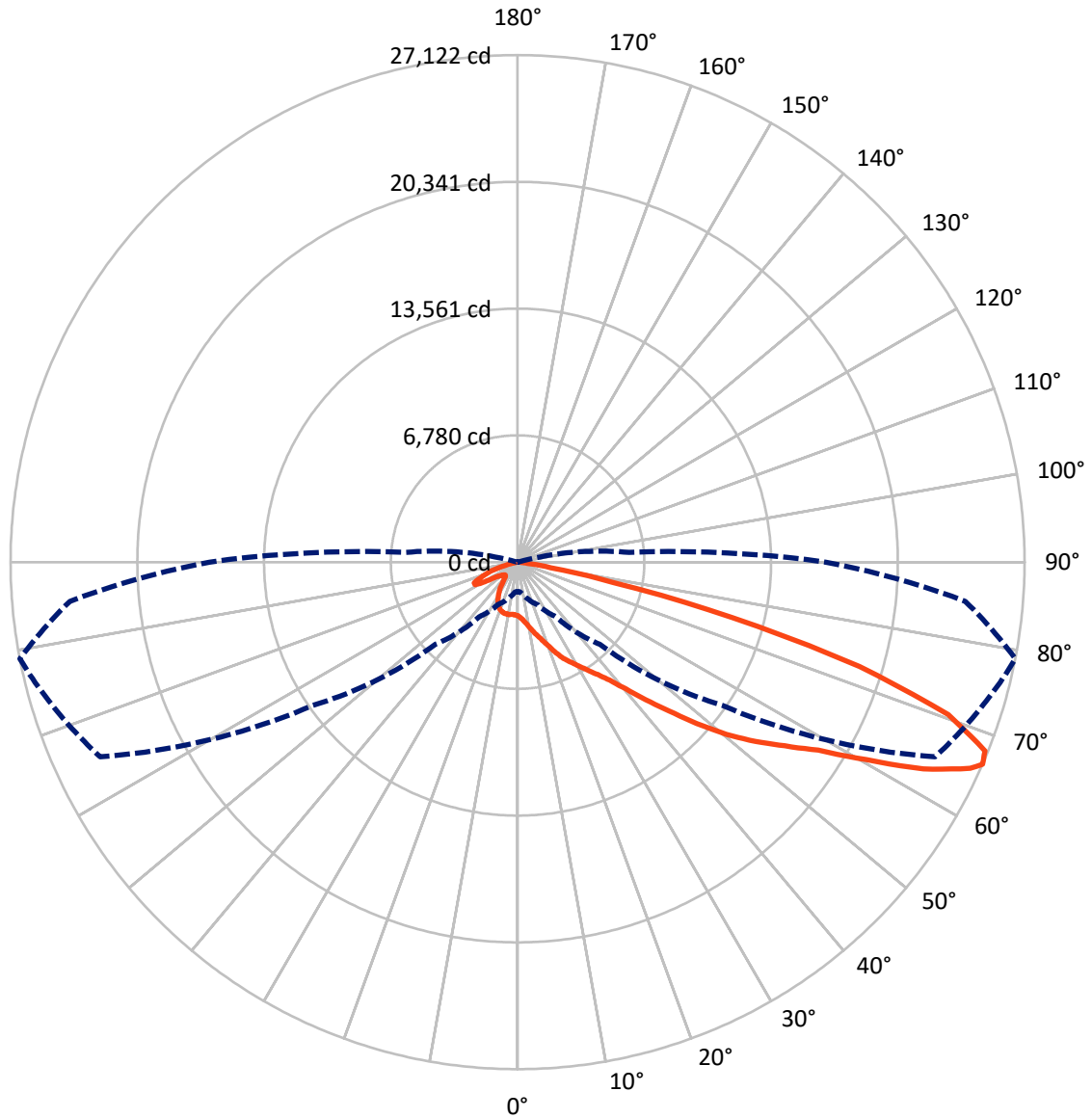
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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	1731.3	0.0	1731.3
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	21325.6	0.0	21325.6
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	23056.9	0.0	23056.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	271.3	1.2
10°-20°	746.6	3.2
20°-30°	1240.3	5.4
30°-40°	2130.4	9.2
40°-50°	3859.5	16.7
50°-60°	6100.7	26.5
60°-70°	6207.9	26.9
70°-80°	2367.4	10.3
80°-90°	132.7	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°	23056.9	100.0
0°-180°	23056.9	100.0

**Coefficient of Utilization**

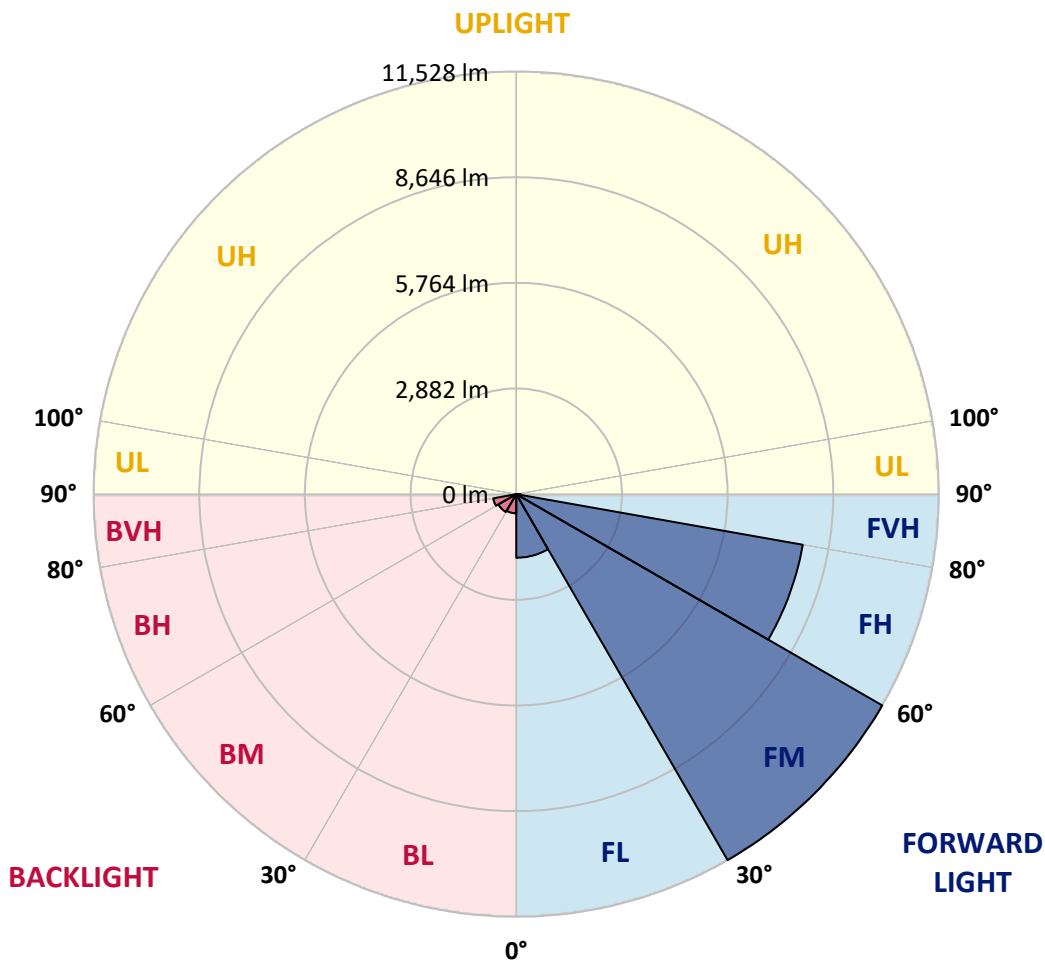


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1734.6	7.5			
FM (30°-60°)	11527.9	50.0			
FH (60°-80°)	7937.1	34.4			G4/12000
FVH (80°-90°)	125.9	0.5			G2/225
BL (0°-30°)	523.6	2.3	B2/1000		
BM (30°-60°)	562.7	2.4	B1/1000		
BH (60°-80°)	638.2	2.8	B2/1000		G2/1000
BVH (80°-90°)	6.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2868.6	2868.6	2868.6	2868.6	2868.6	2868.6	2868.6	2868.6	2868.6	2868.6	2868.6
2.5°	3248.9	3245.3	3231.1	3206.2	3174.2	3163.6	3117.4	3053.4	3017.8	2978.7	2961.0
5°	3472.8	3455.1	3497.7	3479.9	3487.1	3401.7	3344.9	3298.7	3163.6	3110.3	3025.0
7.5°	3522.6	3540.4	3536.8	3565.3	3593.7	3625.7	3586.6	3519.0	3384.0	3305.8	3213.3
10°	3522.6	3515.5	3543.9	3583.0	3664.8	3735.9	3842.5	3753.6	3650.6	3558.1	3391.1
12.5°	3458.6	3448.0	3476.4	3558.1	3703.9	3849.6	3966.9	4052.2	3906.5	3831.8	3615.0
15°	3263.1	3252.4	3369.8	3515.5	3707.4	3945.6	4190.9	4329.5	4230.0	4112.7	3870.9
17.5°	3021.4	3035.6	3160.0	3401.7	3707.4	3991.8	4304.6	4606.7	4592.5	4443.2	4190.9
20°	2939.6	2950.3	3074.7	3248.9	3597.2	4023.8	4482.3	4908.9	4994.2	4816.5	4485.9
22.5°	3096.0	3085.4	3096.0	3202.7	3522.6	3995.4	4599.6	5253.7	5406.5	5267.9	4873.3
25°	3629.2	3622.1	3533.3	3369.8	3479.9	3931.4	4660.1	5481.2	5833.1	5705.1	5186.1
27.5°	4411.2	4382.8	4244.2	3902.9	3679.0	3970.5	4759.6	5701.6	6206.3	6060.6	5467.0
30°	5250.1	5182.6	5001.3	4574.8	4194.4	4116.2	4816.5	5865.1	6622.2	6437.4	5712.2
32.5°	5829.5	5918.4	5861.5	5427.9	4844.9	4453.9	4908.9	6071.2	7006.1	6885.2	6131.7
35°	6725.3	6828.4	6590.2	6206.3	5619.8	4990.6	5104.4	6238.3	7596.2	7393.5	6522.7
37.5°	7855.6	7933.8	7763.2	7034.5	6416.0	5651.8	5506.1	6586.7	8104.5	8008.5	7023.9
40°	8424.4	8801.2	8559.5	7901.9	7237.1	6576.0	6170.8	6995.4	8989.6	8911.4	7717.0
42.5°	9209.9	9398.3	9273.9	8786.9	8093.8	7564.2	6991.9	7791.7	10063.0	10063.0	8655.4
45°	10041.7	10048.8	10041.7	9643.6	9028.7	8755.0	8100.9	8790.5	11218.3	11346.2	9778.7
47.5°	10724.2	10937.5	10919.7	10681.5	10205.2	10102.1	9209.9	9928.0	12668.6	12892.5	10873.5
50°	11076.1	11314.3	11385.3	11509.8	11488.4	11705.3	10422.1	11246.7	13919.8	14470.7	12281.1
52.5°	10980.1	10997.9	11435.1	11925.6	12707.7	13315.5	11883.0	12743.2	15384.3	15928.1	13368.8
55°	10194.6	10127.0	11026.3	11588.0	13205.3	14300.1	13905.6	14609.4	16525.3	17353.5	14492.1
57.5°	8470.6	8488.4	9320.1	10461.2	12835.6	14691.1	16066.7	17047.8	18124.8	18960.2	16070.3
60°	5847.3	5826.0	6757.3	8076.0	10663.8	13962.4	17310.8	20207.8	20264.7	21448.4	18903.3
62.5°	3288.0	3295.1	4002.5	5129.3	7461.1	11410.2	17250.4	23563.4	23321.7	24359.6	22123.8
65°	1862.6	1908.8	2395.8	3039.2	4468.1	7660.1	14836.9	24899.9	25678.4	26602.5	24078.8
66°	1574.7	1606.7	2022.6	2509.5	3565.3	6213.4	13354.6	24640.4	26417.7	27121.5	24039.7
67.5°	1219.2	1261.9	1610.2	1990.6	2616.2	4301.1	10749.1	23350.1	26552.8	26965.1	23360.8
70°	835.3	863.8	1130.4	1510.7	1788.0	2200.3	6426.7	19305.0	24093.0	24441.4	20303.8
72.5°	586.5	600.7	792.7	1144.6	1375.6	1258.3	3188.5	13734.9	18437.7	19116.6	15793.0
75°	423.0	437.2	543.9	821.1	1073.5	824.7	1460.9	8772.7	11307.1	11840.3	9512.1
77.5°	305.7	323.5	369.7	529.6	778.5	579.4	718.0	4581.9	5331.9	5239.5	4091.3
80°	184.8	202.6	273.7	341.2	568.7	408.8	394.6	1912.4	1891.0	1795.1	1286.8
82.5°	85.3	99.5	145.7	231.0	398.1	284.4	188.4	682.5	597.2	547.4	362.6
85°	24.9	32.0	85.3	174.2	202.6	138.6	113.7	234.6	245.3	209.7	120.9
87.5°	0.0	3.6	39.1	42.7	60.4	46.2	42.7	60.4	113.7	92.4	39.1
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°	2868.6	2868.6	2868.6	2868.6	2868.6	2868.6	2868.6	2868.6	2868.6	2868.6	2868.6
2.5°	2897.0	2872.1	2811.7	2719.3	2637.5	2594.8	2534.4	2481.1	2452.7	2449.1	2445.6
5°	2968.1	2900.5	2754.8	2587.7	2463.3	2328.3	2235.8	2168.3	2104.3	2043.9	2079.4
7.5°	3064.1	2957.4	2719.3	2502.4	2232.3	2058.1	1894.6	1798.6	1741.7	1688.4	1681.3
10°	3213.3	3078.3	2694.4	2303.4	1994.1	1738.2	1571.1	1432.5	1354.3	1261.9	1297.4
12.5°	3416.0	3174.2	2602.0	2122.1	1724.0	1453.8	1215.7	991.7	867.3	771.3	774.9
15°	3618.6	3302.2	2516.6	1901.7	1478.7	1123.3	774.9	622.1	586.5	565.2	572.3
17.5°	3817.6	3405.3	2385.1	1677.8	1197.9	714.5	565.2	533.2	515.4	494.1	494.1
20°	4059.3	3472.8	2221.6	1471.6	824.7	529.6	483.4	462.1	433.7	405.2	408.8
22.5°	4293.9	3529.7	2033.2	1208.6	554.5	458.5	405.2	376.8	351.9	323.5	323.5
25°	4528.5	3547.5	1788.0	867.3	447.9	366.1	316.4	277.3	252.4	227.5	231.0
27.5°	4688.5	3437.3	1556.9	554.5	359.0	277.3	220.4	188.4	167.1	142.2	142.2
30°	4780.9	3234.7	1308.1	391.0	270.1	188.4	131.5	99.5	78.2	60.4	56.9
32.5°	4873.3	3071.2	1027.3	298.6	177.7	99.5	49.8	17.8	0.0	0.0	0.0
35°	5058.2	2886.3	689.6	167.1	60.4	3.6	0.0	0.0	0.0	0.0	0.0
37.5°	5175.5	2630.4	316.4	24.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5470.5	2502.4	78.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5950.4	2413.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	6476.5	2378.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	7176.7	2474.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	7916.1	2733.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	8726.5	2978.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	9433.9	3273.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	10734.9	3970.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	13070.2	5339.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	15700.6	6355.6	39.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	16663.9	6330.7	67.5	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	16493.3	5982.4	67.5	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	15608.2	5314.1	60.4	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	13404.4	4389.9	60.4	10.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	10219.4	3419.5	56.9	14.2	3.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	6167.2	1819.9	46.2	17.8	7.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2456.2	639.8	35.5	14.2	7.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	664.7	191.9	21.3	14.2	10.7	3.6	0.0	0.0	0.0	0.0	0.0
82.5°	174.2	71.1	17.8	14.2	7.1	3.6	0.0	0.0	0.0	0.0	0.0
85°	67.5	28.4	14.2	10.7	10.7	7.1	3.6	0.0	0.0	0.0	0.0
87.5°	21.3	10.7	10.7	7.1	7.1	3.6	3.6	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)