

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: P482112

Luminaire Tested: **IFLD-S-SA6C-750-U-T2R-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P482112  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6C-750-U-T2R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R  
distribution lens with House Side Shield  
Light Source: (96) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

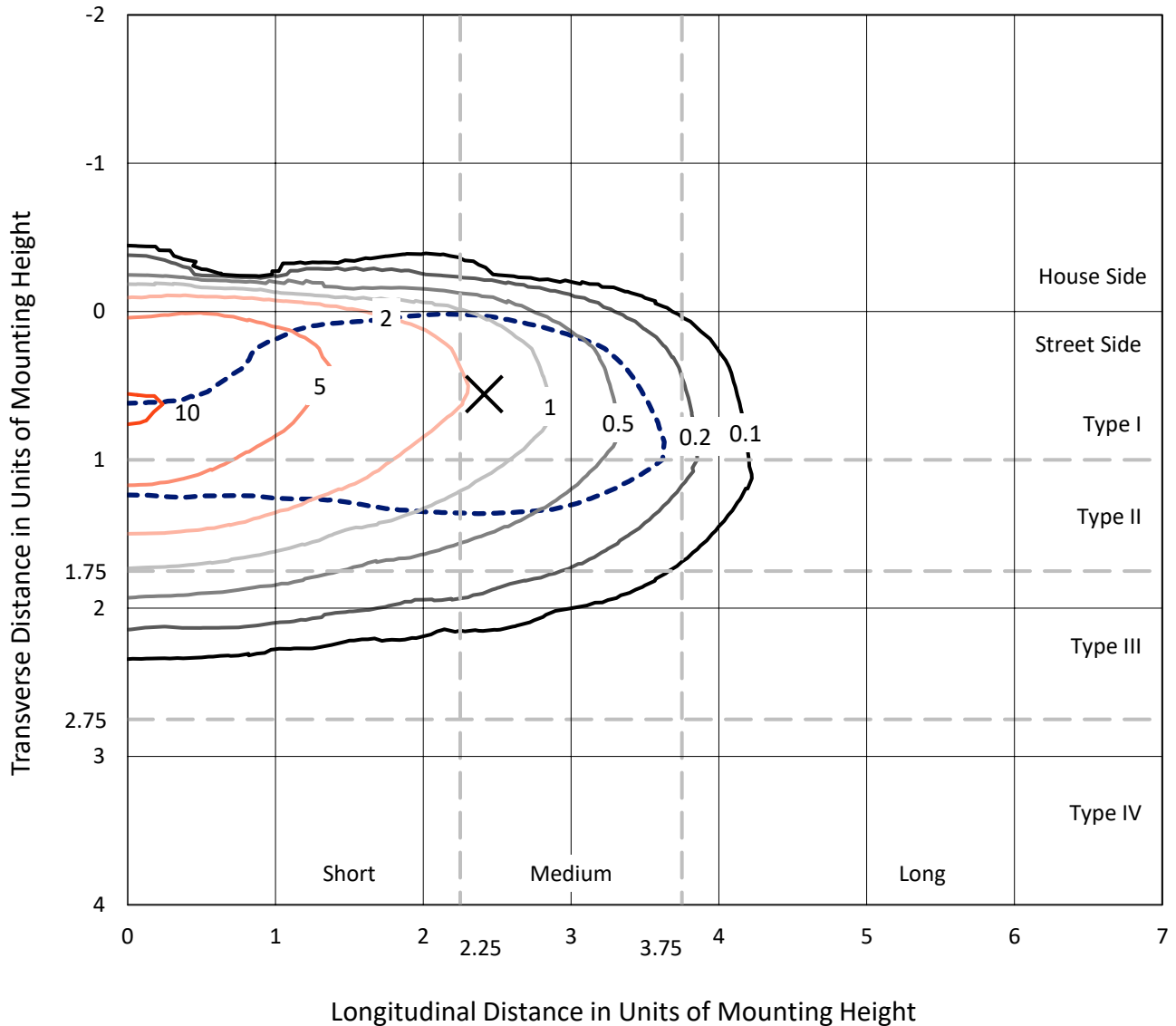
Lumens per Lamp: N/A  
Luminaire Lumens: 33416.5 lumens  
Efficiency: N/A  
Efficacy: 103.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G4

Input Watts (W): 321.5  
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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 CATALOG NUMBER: IFLD-S-SA6C-750-U-T2R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

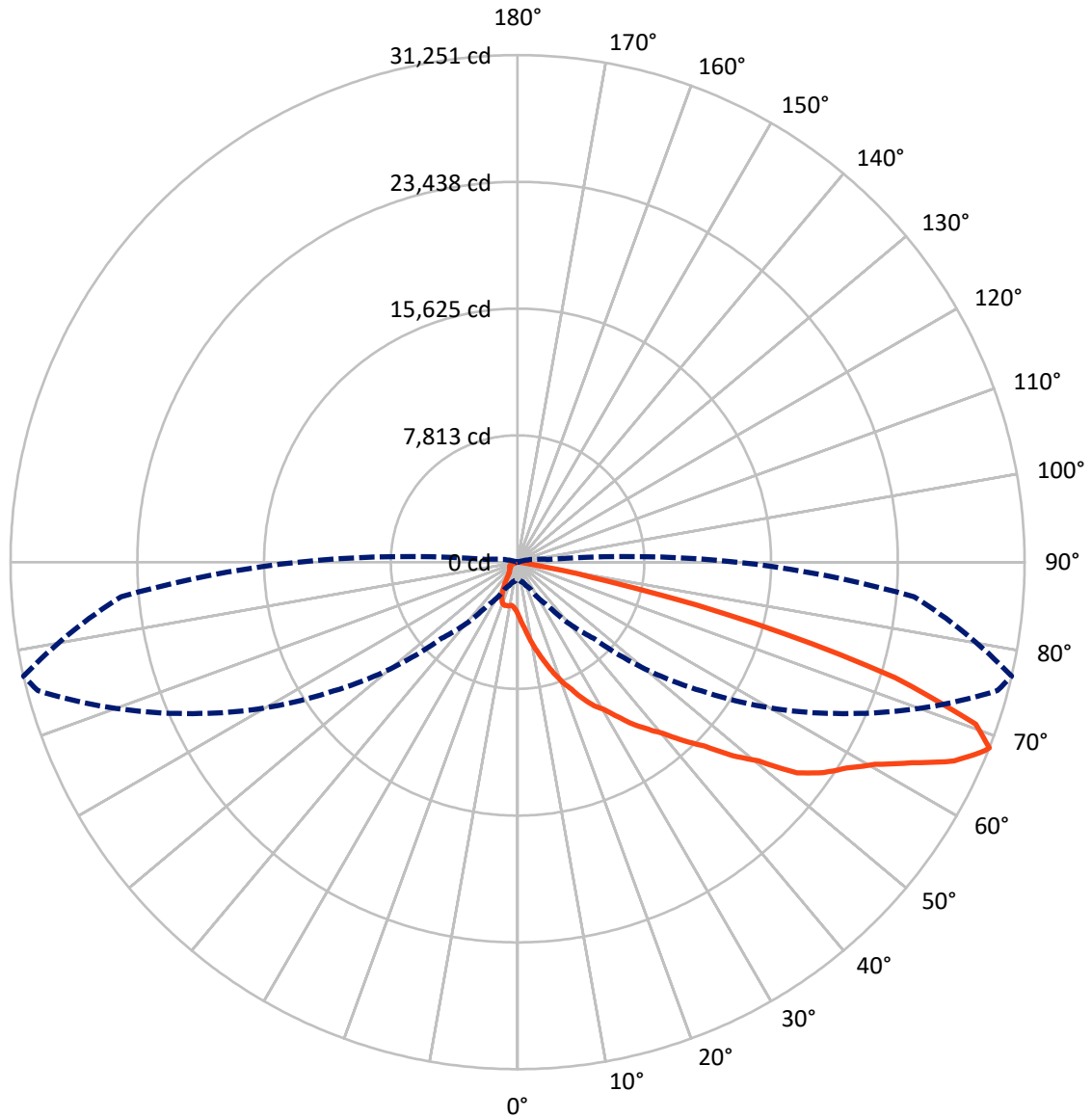
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.5 fc  
 Type II - Medium - N/A

REPORT NUMBER: P482112  
CATALOG NUMBER: IFLD-S-SA6C-750-U-T2R-HSS

### 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	1515.4	0.0	1515.4
	% Fixture	4.5	0.0	4.5
<b>Street Side</b>	Lumens	31901.1	0.0	31901.1
	% Fixture	95.5	0.0	95.5
<b>Total</b>	Lumens	33416.5	0.0	33416.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	373.8	1.1
10°-20°	1378.6	4.1
20°-30°	2671.8	8.0
30°-40°	4657.9	13.9
40°-50°	6821.9	20.4
50°-60°	8014.7	24.0
60°-70°	6767.7	20.3
70°-80°	2623.3	7.9
80°-90°	106.7	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°	33416.5	100.0
0°-180°	33416.5	100.0

**Coefficient of Utilization**



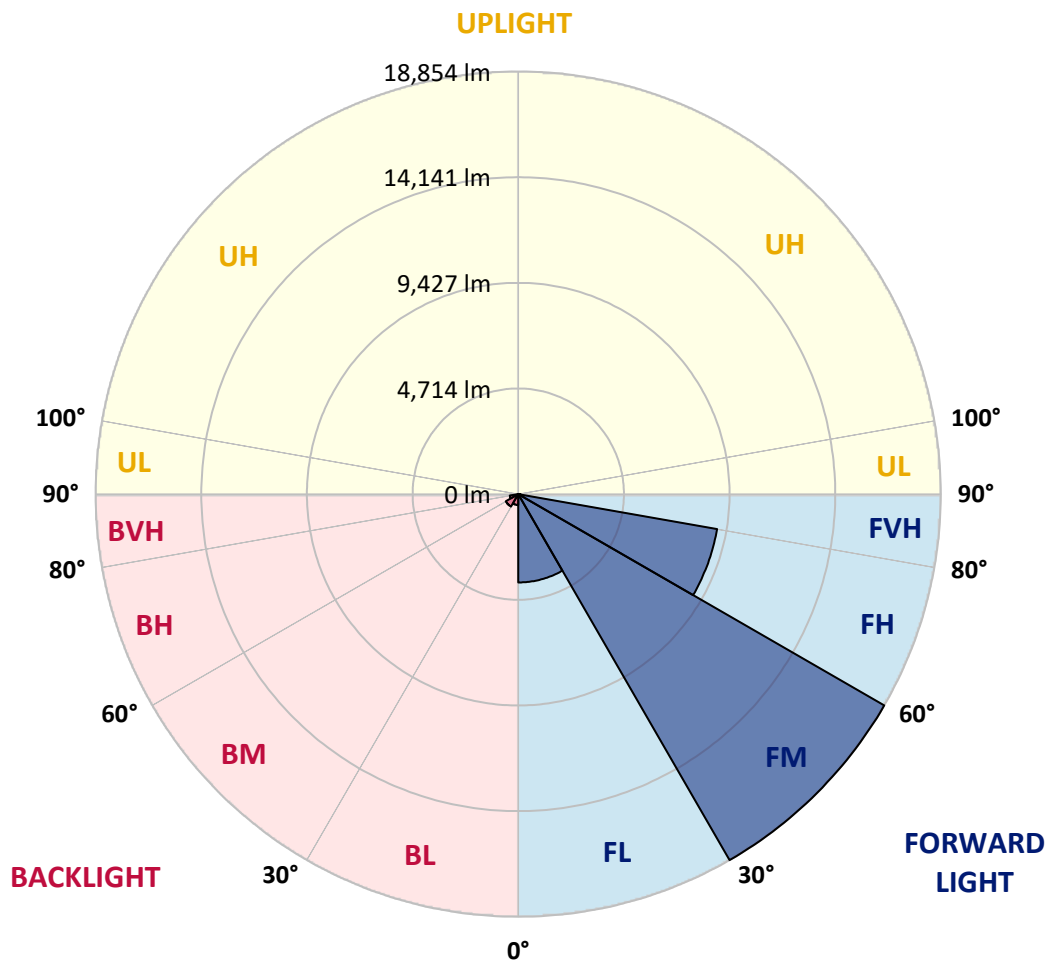
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 CATALOG NUMBER: IFLD-S-SA6C-750-U-T2R-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3940.1	11.8			
FM (30°-60°)	18854.2	56.4			
FH (60°-80°)	9008.4	27.0			G4/12000
FVH (80°-90°)	98.4	0.3			G1/100
BL (0°-30°)	484.2	1.4	B1/500		
BM (30°-60°)	640.3	1.9	B1/1000		
BH (60°-80°)	382.6	1.1	B1/500		G1/500
BVH (80°-90°)	8.3	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-G4**

Type II Medium





REPORT NUMBER: P482112

CATALOG NUMBER: IFLD-S-SA6C-750-U-T2R-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3199.7	3199.7	3199.7	3199.7	3199.7	3199.7	3199.7	3199.7	3199.7	3199.7	3199.7
2.5°	4861.7	4769.6	4672.9	4645.3	4465.7	4263.2	4074.4	3890.3	3581.8	3586.4	3374.6
5°	6265.8	6150.7	6072.5	6054.1	5773.2	5423.3	5137.9	4617.7	4106.6	3991.5	3604.8
7.5°	7421.4	7384.6	7269.5	7172.8	6965.6	6537.5	6201.4	5455.6	4677.5	4548.6	3885.7
10°	8121.2	8176.4	8227.1	8102.8	7941.6	7633.2	7172.8	6367.1	5326.7	5165.5	4249.4
12.5°	8867.0	8774.9	8807.2	8908.5	8696.7	8627.6	8056.7	7306.3	6086.3	5777.8	4709.7
15°	9060.4	9097.2	9175.5	9470.1	9612.8	9414.9	8922.3	8065.9	6873.5	6445.4	5137.9
17.5°	9189.3	9170.9	9267.6	9709.5	9925.9	10114.7	9806.2	8913.1	7559.5	7177.4	5671.9
20°	9350.4	9249.1	9460.9	9741.7	10243.6	10639.5	10625.7	9764.8	8277.7	7872.6	6201.4
22.5°	9948.9	9870.7	10041.0	10068.6	10418.5	10971.0	11104.5	10459.9	9014.3	8517.1	6772.3
25°	11053.8	11196.6	10994.0	10819.0	10924.9	11288.6	11385.3	11076.9	9755.6	9299.8	7343.1
27.5°	12669.8	12651.4	12250.8	12025.3	11772.0	11726.0	11795.1	11652.3	10340.2	10013.4	7812.7
30°	14405.4	14253.5	13885.2	13342.0	12784.9	12439.6	12342.9	12195.6	11026.2	10552.0	8277.7
32.5°	15786.6	15869.5	15459.7	14750.7	13825.4	13360.4	12895.4	12734.3	11781.3	11362.3	8811.8
35°	17057.3	16946.8	16619.9	16021.4	15192.7	14442.3	13714.9	13369.6	12688.2	12273.9	9401.1
37.5°	17996.5	18134.6	17513.0	16942.2	16118.1	15496.6	14783.0	14027.9	13622.8	13070.3	10119.3
40°	18885.0	18668.6	18249.7	17724.8	16960.6	16486.4	16016.8	14838.2	14617.2	13903.6	10929.5
42.5°	18728.5	18742.3	18512.1	18088.5	17536.1	17264.4	17103.3	15823.4	15519.6	15063.8	11721.4
45°	18088.5	18143.8	18222.0	18014.9	18060.9	17789.3	18222.0	16956.0	16656.7	16173.3	12633.0
47.5°	17384.1	17476.2	17457.8	17835.3	18263.5	18355.6	19437.5	18212.8	18083.9	17816.9	13894.4
50°	16214.8	16251.6	16606.1	17292.1	17876.8	18839.0	20349.0	19584.8	19782.7	19257.9	15395.3
52.5°	14216.7	14350.2	15261.8	16242.4	17421.0	19083.0	20965.9	21624.3	22126.1	21587.5	16836.3
55°	11689.2	11873.3	12771.1	14608.0	16334.5	18714.7	21527.6	22701.6	23719.0	22904.2	17711.0
57.5°	9405.7	9424.1	10229.8	12126.5	14792.2	17991.8	21813.0	23226.4	24593.8	23940.0	18779.1
60°	7168.2	7094.5	7817.3	9460.9	12195.6	16214.8	21099.4	23493.5	25684.9	25307.4	20063.6
62.5°	4613.1	4498.0	5285.2	6887.4	9525.4	13254.5	19672.3	23498.1	27388.3	27245.6	22213.6
65°	2283.5	2205.2	2882.0	4221.7	6592.7	10137.7	17637.4	23410.6	29469.2	29561.3	24308.3
67.5°	1206.2	1233.8	1450.2	2140.8	3802.8	7163.6	14571.2	22383.9	30532.7	31048.4	24814.8
68°	1109.5	1118.7	1289.1	1781.7	3301.0	6643.4	13843.8	22084.7	30615.6	31250.9	24533.9
70°	902.4	916.2	976.0	1118.7	1786.3	4323.0	10680.9	19543.3	29368.0	29948.1	22209.0
72.5°	718.2	759.6	796.5	856.3	1049.7	2269.7	6643.4	15229.5	24262.3	24326.7	17287.5
75°	547.9	580.1	653.7	704.4	819.5	1247.6	3162.8	9286.0	15920.1	15137.5	10183.7
77.5°	423.6	451.2	483.4	552.5	686.0	842.5	966.8	3940.9	6763.1	5566.1	2877.4
80°	253.2	271.6	377.5	432.8	598.5	570.9	382.1	1095.7	1371.9	1081.9	524.8
82.5°	147.3	161.1	216.4	331.5	419.0	308.5	225.6	340.7	336.1	294.6	174.9
85°	4.6	9.2	119.7	198.0	147.3	82.9	138.1	142.7	119.7	110.5	78.3
87.5°	0.0	4.6	32.2	27.6	32.2	18.4	27.6	36.8	46.0	41.4	32.2
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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CATALOG NUMBER: IFLD-S-SA6C-750-U-T2R-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3199.7	3199.7	3199.7	3199.7	3199.7	3199.7	3199.7	3199.7	3199.7	3199.7	3199.7
2.5°	3231.9	3130.6	2905.0	2734.7	2550.5	2440.0	2329.5	2260.5	2223.7	2200.6	2219.1
5°	3314.8	3103.0	2739.3	2417.0	2205.2	2062.5	1919.8	1846.1	1777.1	1740.3	1763.3
7.5°	3498.9	3181.3	2578.2	2228.3	1979.7	1758.7	1579.1	1436.4	1353.5	1279.9	1293.7
10°	3724.5	3227.3	2582.8	2117.8	1758.7	1408.8	1155.6	976.0	874.7	810.3	805.7
12.5°	3954.7	3406.8	2601.2	2007.3	1487.0	1058.9	759.6	626.1	566.3	534.0	534.0
15°	4304.6	3568.0	2555.1	1804.7	1127.9	690.6	520.2	474.2	451.2	423.6	428.2
17.5°	4608.5	3825.8	2532.1	1500.9	773.4	497.2	432.8	382.1	359.1	331.5	331.5
20°	5018.2	3986.9	2407.8	1160.2	534.0	414.3	349.9	303.9	267.0	244.0	248.6
22.5°	5391.1	4111.2	2186.8	791.9	409.7	326.9	257.8	211.8	179.6	151.9	156.5
25°	5796.2	4235.5	1864.6	488.0	290.0	202.6	138.1	101.3	69.1	50.6	50.6
27.5°	6086.3	4272.4	1445.6	290.0	174.9	92.1	32.2	4.6	0.0	0.0	0.0
30°	6380.9	4286.2	999.0	156.5	69.1	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	6717.0	4281.6	626.1	82.9	4.6	0.0	0.0	0.0	0.0	0.0	0.0
35°	6974.8	4203.3	299.3	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	7366.2	4088.2	92.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	7812.7	3881.0	18.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	8213.3	3669.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	8669.1	3406.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	9470.1	3296.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	10515.2	3208.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	11159.7	2951.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	11495.8	2684.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	11993.0	2555.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	12729.6	2564.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	13880.6	2693.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	14515.9	2564.3	18.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	13977.3	2053.3	87.5	23.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0
68°	13512.3	1887.6	87.5	23.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0
70°	11168.9	1229.2	82.9	23.0	9.2	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	8135.0	681.4	69.1	18.4	9.2	0.0	0.0	0.0	0.0	0.0	0.0
75°	4732.8	340.7	50.6	18.4	9.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1233.8	170.3	41.4	23.0	13.8	4.6	0.0	0.0	0.0	0.0	0.0
80°	244.0	110.5	36.8	27.6	18.4	9.2	0.0	0.0	0.0	0.0	0.0
82.5°	115.1	78.3	36.8	27.6	23.0	13.8	4.6	0.0	0.0	0.0	0.0
85°	59.9	36.8	36.8	27.6	27.6	18.4	9.2	0.0	0.0	0.0	0.0
87.5°	27.6	13.8	13.8	13.8	13.8	9.2	4.6	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)