

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: P482122

Luminaire Tested: **IFLD-L-SA7C-750-U-T2R-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P482122  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7C-750-U-T2R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield  
Light Source: (112) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

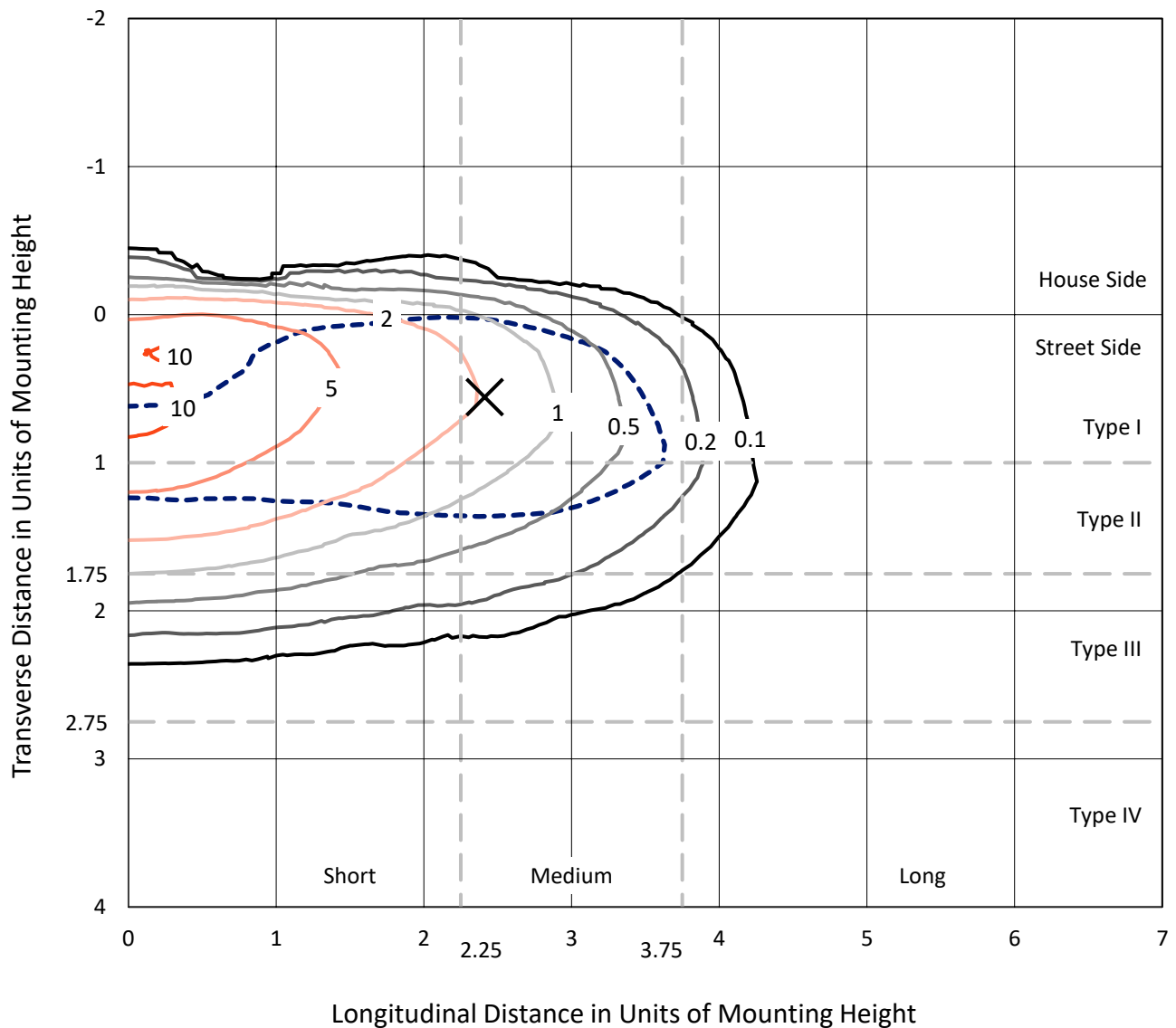
Lumens per Lamp: N/A  
Luminaire Lumens: 35651.4 lumens  
Efficiency: N/A  
Efficacy: 96.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4

Input Watts (W): 369  
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

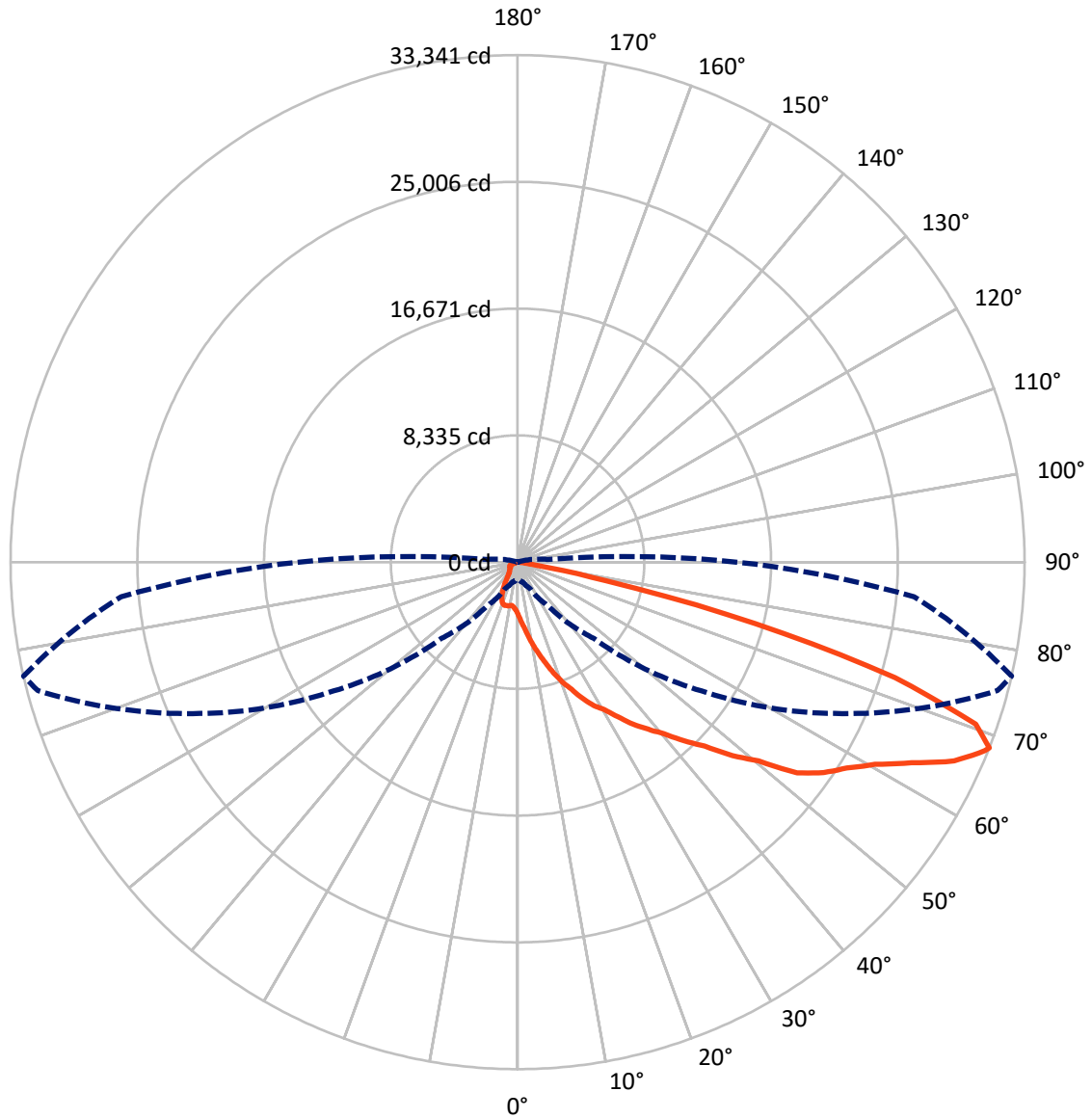
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.2 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	1616.8	0.0	1616.8
	% Fixture	4.5	0.0	4.5
<b>Street Side</b>	Lumens	34034.6	0.0	34034.6
	% Fixture	95.5	0.0	95.5
<b>Total</b>	Lumens	35651.4	0.0	35651.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	398.8	1.1
10°-20°	1470.8	4.1
20°-30°	2850.5	8.0
30°-40°	4969.4	13.9
40°-50°	7278.2	20.4
50°-60°	8550.7	24.0
60°-70°	7220.3	20.3
70°-80°	2798.8	7.9
80°-90°	113.8	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°	35651.4	100.0
0°-180°	35651.4	100.0

**Coefficient of Utilization**



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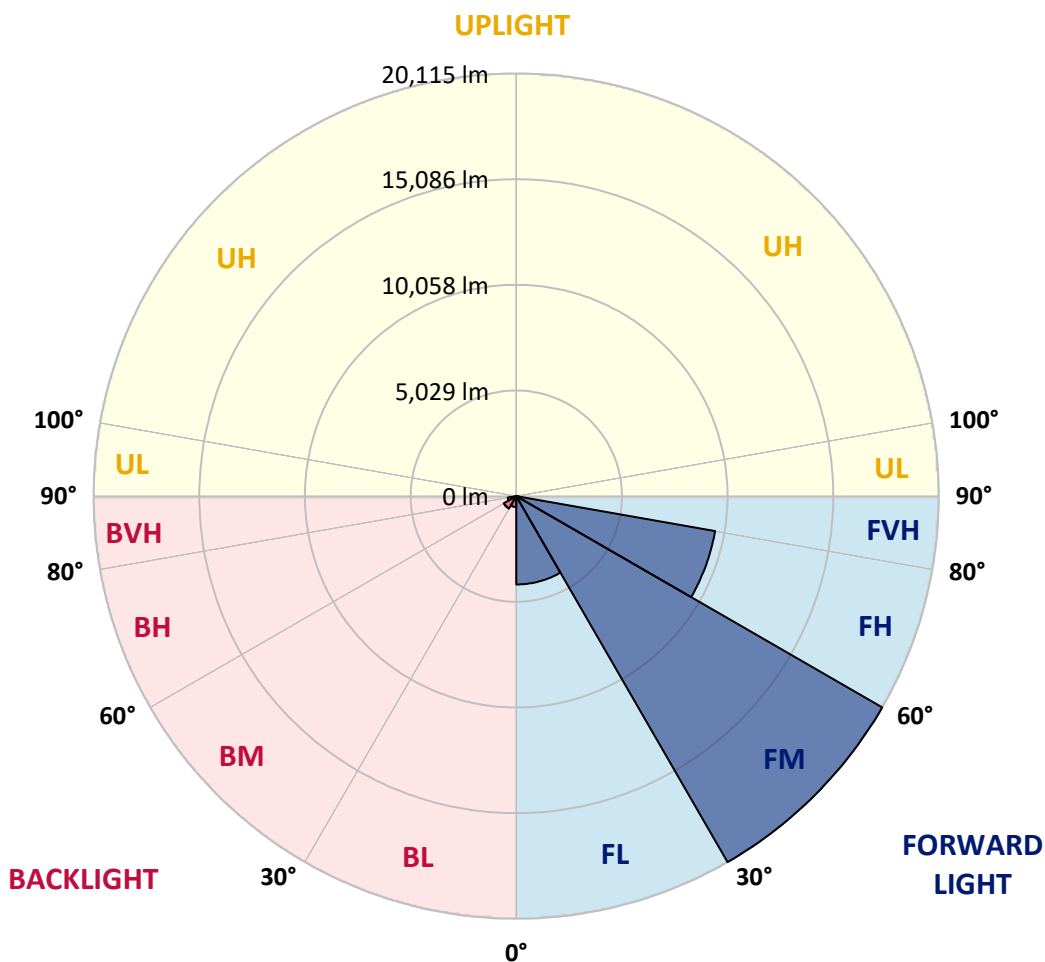
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4203.6	11.8			
FM (30°-60°)	20115.1	56.4			
FH (60°-80°)	9610.9	27.0			G4/12000
FVH (80°-90°)	105.0	0.3			G2/225
BL (0°-30°)	516.6	1.4	B2/1000		
BM (30°-60°)	683.2	1.9	B1/1000		
BH (60°-80°)	408.2	1.1	B1/500		G1/500
BVH (80°-90°)	8.8	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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3413.7	3413.7	3413.7	3413.7	3413.7	3413.7	3413.7	3413.7	3413.7	3413.7	3413.7
2.5°	5186.8	5088.6	4985.4	4956.0	4764.4	4548.3	4346.9	4150.4	3821.4	3826.3	3600.3
5°	6684.9	6562.1	6478.6	6459.0	6159.3	5786.1	5481.5	4926.5	4381.3	4258.5	3845.9
7.5°	7917.8	7878.5	7755.7	7652.5	7431.5	6974.7	6616.1	5820.4	4990.4	4852.8	4145.5
10°	8664.3	8723.3	8777.3	8644.7	8472.8	8143.7	7652.5	6793.0	5682.9	5511.0	4533.6
12.5°	9460.1	9361.8	9396.2	9504.3	9278.3	9204.6	8595.6	7795.0	6493.3	6164.3	5024.7
15°	9666.3	9705.6	9789.1	10103.5	10255.8	10044.6	9519.0	8605.4	7333.3	6876.5	5481.5
17.5°	9803.9	9784.2	9887.4	10358.9	10589.8	10791.1	10462.1	9509.2	8065.1	7657.4	6051.3
20°	9975.8	9867.7	10093.7	10393.3	10928.7	11351.1	11336.3	10417.8	8831.3	8399.1	6616.1
22.5°	10614.3	10530.8	10712.6	10742.0	11115.3	11704.7	11847.2	11159.5	9617.2	9086.8	7225.2
25°	11793.1	11945.4	11729.3	11542.6	11655.6	12043.6	12146.8	11817.7	10408.0	9921.8	7834.3
27.5°	13517.2	13497.5	13070.2	12829.5	12559.4	12510.3	12583.9	12431.7	11031.8	10683.1	8335.3
30°	15368.9	15206.8	14813.9	14234.3	13640.0	13271.6	13168.4	13011.3	11763.7	11257.8	8831.3
32.5°	16842.4	16930.8	16493.7	15737.3	14750.0	14253.9	13757.8	13585.9	12569.2	12122.2	9401.1
35°	18198.1	18080.2	17731.5	17092.9	16208.8	15408.2	14632.1	14263.8	13536.8	13094.8	10029.8
37.5°	19200.1	19347.4	18684.3	18075.3	17196.1	16533.0	15771.7	14966.1	14533.9	13944.5	10796.1
40°	20148.0	19917.2	19470.2	18910.3	18094.9	17589.0	17088.0	15830.6	15594.8	14833.5	11660.5
42.5°	19981.0	19995.8	19750.2	19298.3	18708.9	18419.1	18247.2	16881.7	16557.6	16071.3	12505.3
45°	19298.3	19357.3	19440.8	19219.7	19268.8	18979.0	19440.8	18090.0	17770.8	17255.0	13477.9
47.5°	18546.8	18645.0	18625.4	19028.2	19485.0	19583.2	20737.5	19430.9	19293.4	19008.5	14823.7
50°	17299.2	17338.5	17716.7	18448.6	19072.4	20098.9	21710.0	20894.6	21105.8	20545.9	16424.9
52.5°	15167.5	15310.0	16282.5	17328.7	18586.1	20359.3	22368.2	23070.5	23605.9	23031.3	17962.3
55°	12471.0	12667.4	13625.2	15585.0	17426.9	19966.3	22967.4	24219.9	25305.4	24436.0	18895.5
57.5°	10034.7	10054.4	10913.9	12937.6	15781.5	19195.2	23271.9	24779.8	26238.6	25541.2	20035.1
60°	7647.6	7569.0	8340.2	10093.7	13011.3	17299.2	22510.6	25064.7	27402.7	27000.0	21405.5
62.5°	4921.6	4798.8	5638.7	7348.0	10162.4	14141.0	20988.0	25069.6	29220.1	29067.8	23699.3
65°	2436.2	2352.7	3074.8	4504.1	7033.6	10815.7	18817.0	24976.3	31440.2	31538.4	25934.1
67.5°	1286.9	1316.4	1547.2	2284.0	4057.1	7642.7	15545.7	23881.0	32574.8	33124.9	26474.4
68°	1183.7	1193.6	1375.3	1900.9	3521.7	7087.7	14769.7	23561.7	32663.2	33341.0	26174.8
70°	962.7	977.4	1041.3	1193.6	1905.8	4612.1	11395.3	20850.4	31332.1	31951.0	23694.3
72.5°	766.2	810.4	849.7	913.6	1119.9	2421.5	7087.7	16248.1	25885.0	25953.8	18443.7
75°	584.5	618.9	697.5	751.5	874.3	1331.1	3374.4	9907.0	16984.9	16149.9	10864.8
77.5°	451.9	481.4	515.7	589.4	731.9	898.9	1031.5	4204.5	7215.4	5938.3	3069.9
80°	270.1	289.8	402.8	461.7	638.5	609.1	407.7	1169.0	1463.7	1154.3	559.9
82.5°	157.2	171.9	230.9	353.6	447.0	329.1	240.7	363.5	358.6	314.4	186.6
85°	4.9	9.8	127.7	211.2	157.2	88.4	147.4	152.3	127.7	117.9	83.5
87.5°	0.0	4.9	34.4	29.5	34.4	19.6	29.5	39.3	49.1	44.2	34.4
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°	3413.7	3413.7	3413.7	3413.7	3413.7	3413.7	3413.7	3413.7	3413.7	3413.7	3413.7
2.5°	3448.1	3340.0	3099.3	2917.6	2721.1	2603.2	2485.4	2411.7	2372.4	2347.8	2367.5
5°	3536.5	3310.5	2922.5	2578.7	2352.7	2200.5	2048.2	1969.6	1895.9	1856.6	1881.2
7.5°	3732.9	3394.0	2750.6	2377.3	2112.1	1876.3	1684.7	1532.5	1444.1	1365.5	1380.2
10°	3973.6	3443.1	2755.5	2259.4	1876.3	1503.0	1232.9	1041.3	933.2	864.5	859.6
12.5°	4219.2	3634.7	2775.1	2141.5	1586.5	1129.7	810.4	668.0	604.1	569.8	569.8
15°	4592.5	3806.6	2726.0	1925.4	1203.4	736.8	555.0	505.9	481.4	451.9	456.8
17.5°	4916.7	4081.7	2701.5	1601.2	825.2	530.5	461.7	407.7	383.1	353.6	353.6
20°	5353.8	4253.6	2568.9	1237.8	569.8	442.1	373.3	324.2	284.9	260.3	265.2
22.5°	5751.7	4386.2	2333.1	844.8	437.1	348.7	275.1	225.9	191.6	162.1	167.0
25°	6183.9	4518.8	1989.3	520.6	309.4	216.1	147.4	108.1	73.7	54.0	54.0
27.5°	6493.3	4558.1	1542.3	309.4	186.6	98.2	34.4	4.9	0.0	0.0	0.0
30°	6807.7	4572.9	1065.9	167.0	73.7	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	7166.3	4567.9	668.0	88.4	4.9	0.0	0.0	0.0	0.0	0.0	0.0
35°	7441.3	4484.4	319.3	9.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	7858.8	4361.6	98.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	8335.3	4140.6	19.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	8762.6	3914.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	9248.8	3634.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	10103.5	3516.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	11218.5	3423.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	11906.1	3148.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	12264.7	2863.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	12795.1	2726.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	13581.0	2735.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	14809.0	2873.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	15486.8	2735.9	19.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	14912.1	2190.6	93.3	24.6	4.9	0.0	0.0	0.0	0.0	0.0	0.0
68°	14416.0	2013.8	93.3	24.6	4.9	0.0	0.0	0.0	0.0	0.0	0.0
70°	11915.9	1311.4	88.4	24.6	9.8	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	8679.1	726.9	73.7	19.6	9.8	0.0	0.0	0.0	0.0	0.0	0.0
75°	5049.3	363.5	54.0	19.6	9.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1316.4	181.7	44.2	24.6	14.7	4.9	0.0	0.0	0.0	0.0	0.0
80°	260.3	117.9	39.3	29.5	19.6	9.8	0.0	0.0	0.0	0.0	0.0
82.5°	122.8	83.5	39.3	29.5	24.6	14.7	4.9	0.0	0.0	0.0	0.0
85°	63.9	39.3	39.3	29.5	29.5	19.6	9.8	0.0	0.0	0.0	0.0
87.5°	29.5	14.7	14.7	14.7	14.7	9.8	4.9	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)