

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: P482110

Luminaire Tested: **IFLD-S-SA6A-750-U-T2R-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P482110  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6A-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**

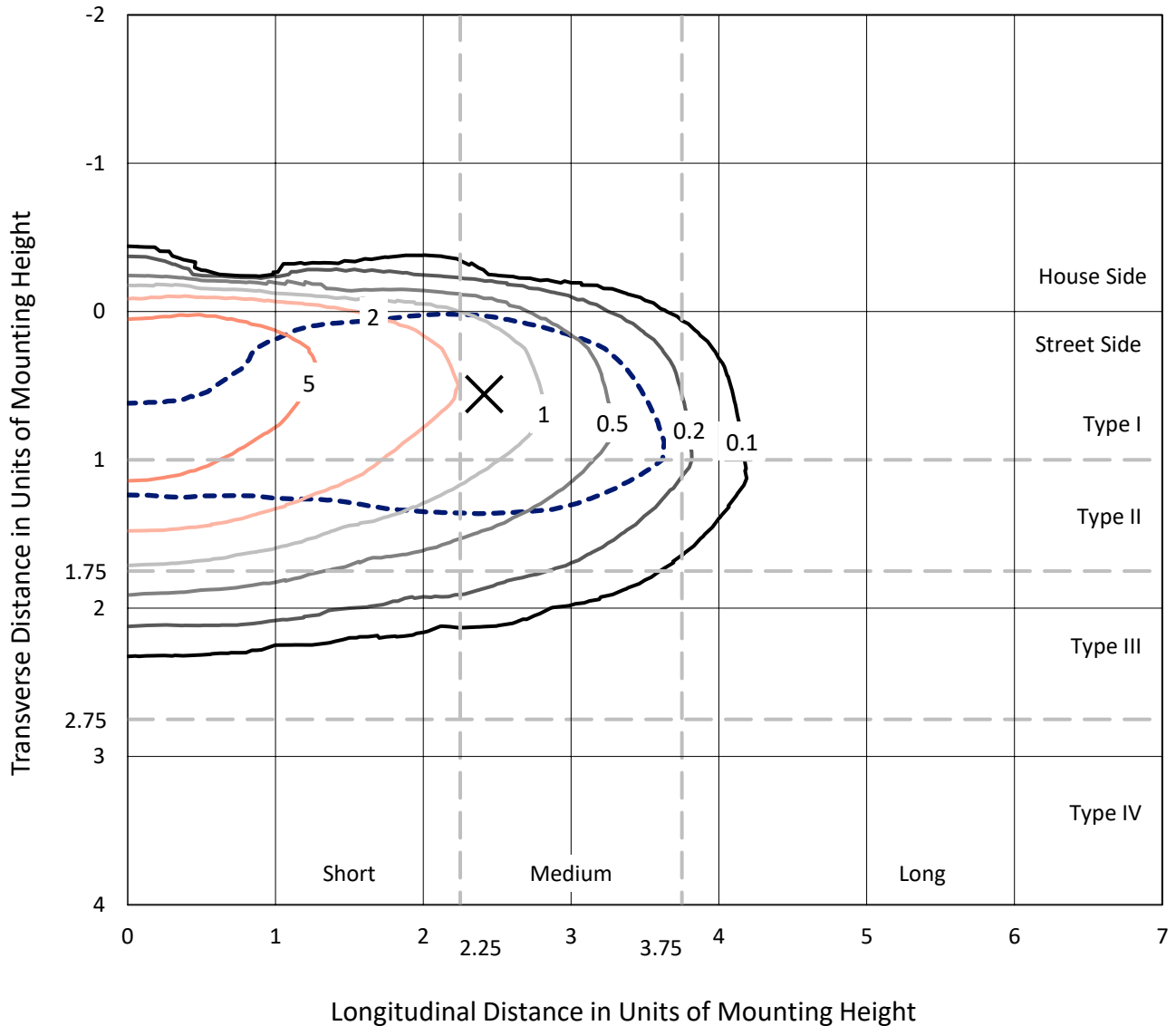
Lumens per Lamp: N/A  
Luminaire Lumens: 21705.6 lumens  
Efficiency: N/A  
Efficacy: 114.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G3

Input Watts (W): 189.6  
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

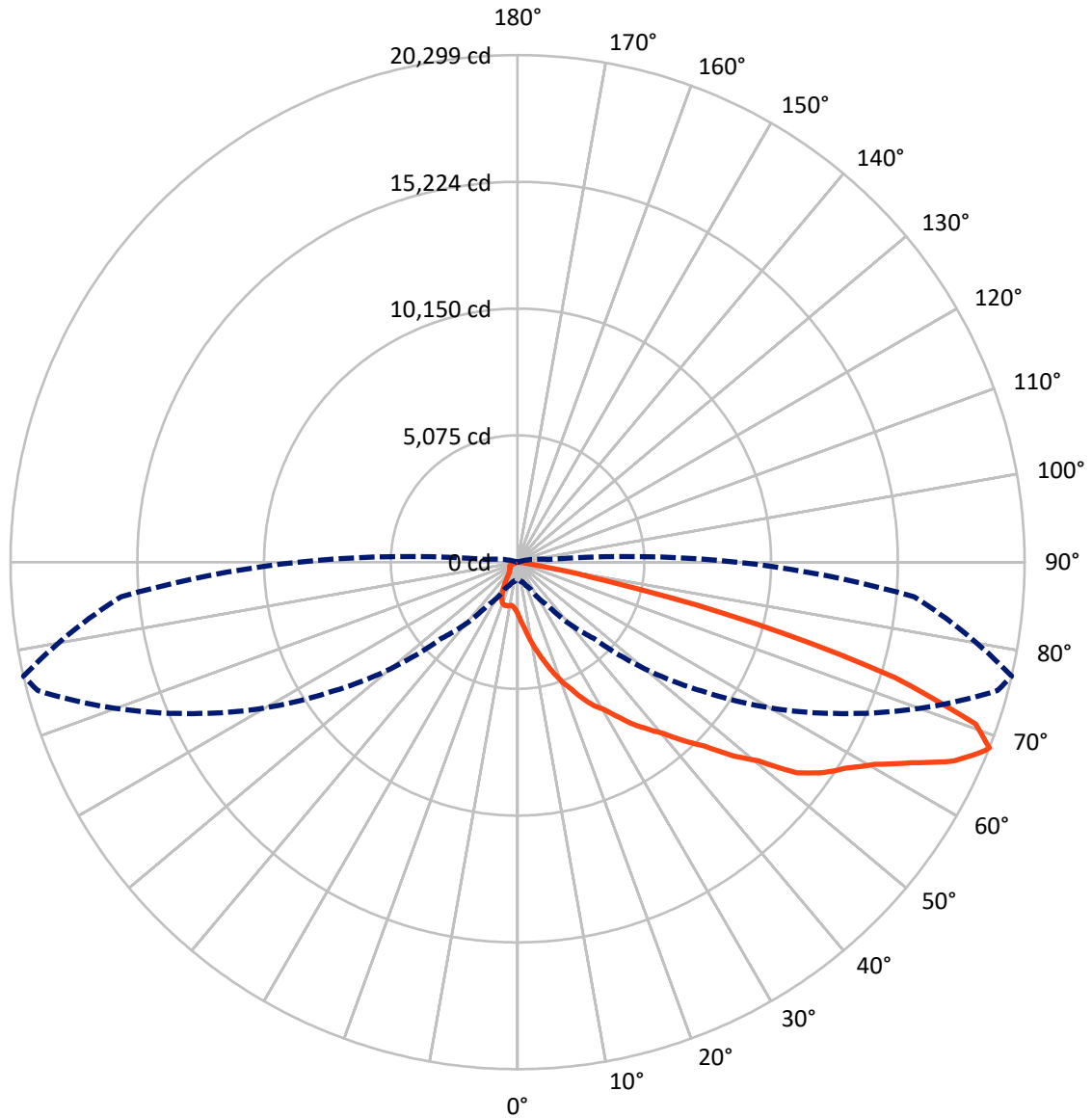
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 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	984.3	0.0	984.3
	% Fixture	4.5	0.0	4.5
<b>Street Side</b>	Lumens	20721.3	0.0	20721.3
	% Fixture	95.5	0.0	95.5
<b>Total</b>	Lumens	21705.6	0.0	21705.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	242.8	1.1
10°-20°	895.5	4.1
20°-30°	1735.5	8.0
30°-40°	3025.5	13.9
40°-50°	4431.2	20.4
50°-60°	5205.9	24.0
60°-70°	4395.9	20.3
70°-80°	1704.0	7.9
80°-90°	69.3	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°	21705.6	100.0
0°-180°	21705.6	100.0

**Coefficient of Utilization**

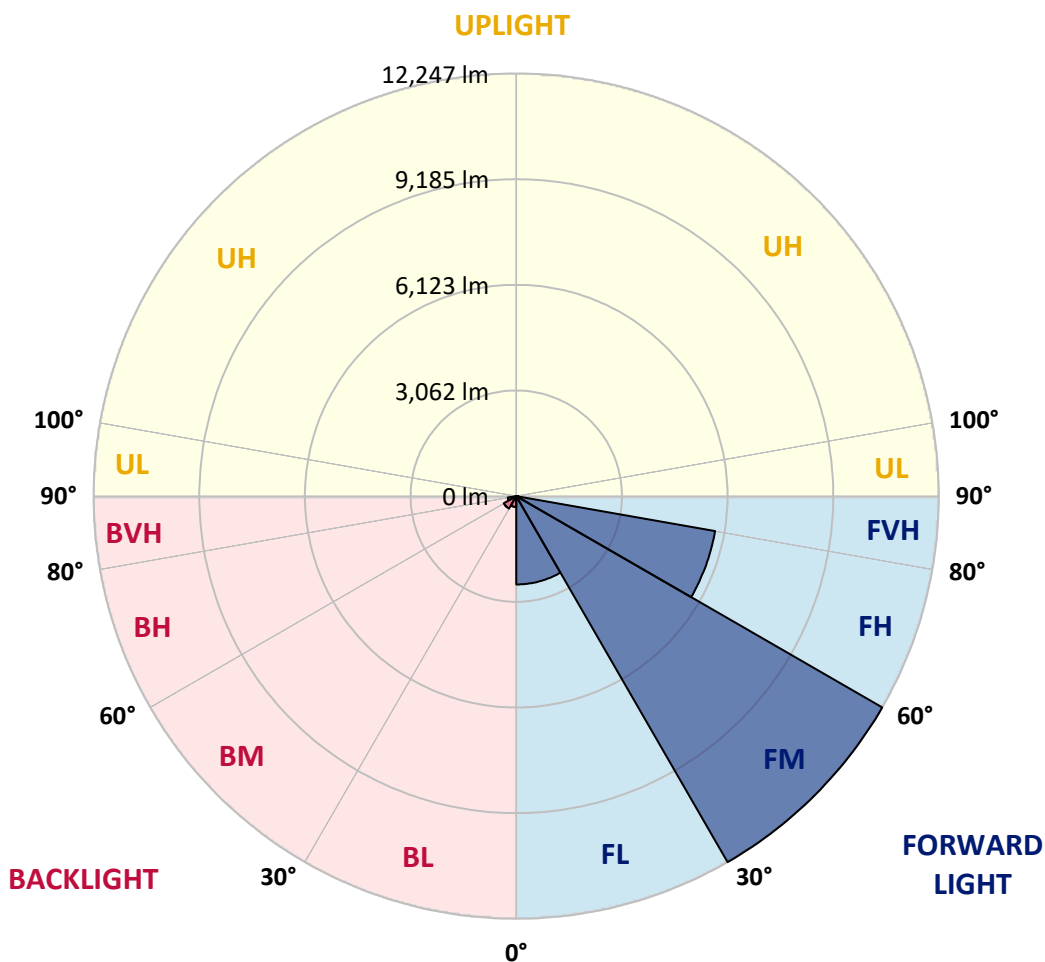


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2559.3	11.8			
FM (30°-60°)	12246.7	56.4			
FH (60°-80°)	5851.4	27.0			G3/7500
FVH (80°-90°)	63.9	0.3			G1/100
BL (0°-30°)	314.5	1.4	B1/500		
BM (30°-60°)	415.9	1.9	B1/1000		
BH (60°-80°)	248.5	1.1	B1/500		G1/500
BVH (80°-90°)	5.4	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°	2078.3	2078.3	2078.3	2078.3	2078.3	2078.3	2078.3	2078.3	2078.3	2078.3	2078.3
2.5°	3157.9	3098.1	3035.3	3017.3	2900.7	2769.1	2646.5	2526.9	2326.6	2329.5	2192.0
5°	4070.0	3995.2	3944.4	3932.4	3750.0	3522.7	3337.3	2999.4	2667.5	2592.7	2341.5
7.5°	4820.6	4796.6	4721.9	4659.1	4524.5	4246.4	4028.1	3543.7	3038.3	2954.5	2523.9
10°	5275.1	5311.0	5343.9	5263.2	5158.5	4958.1	4659.1	4135.8	3459.9	3355.3	2760.2
12.5°	5759.6	5699.8	5720.7	5786.5	5648.9	5604.1	5233.2	4745.8	3953.3	3753.0	3059.2
15°	5885.2	5909.1	5959.9	6151.3	6244.0	6115.4	5795.4	5239.2	4464.7	4186.6	3337.3
17.5°	5968.9	5956.9	6019.7	6306.8	6447.4	6570.0	6369.6	5789.5	4910.3	4662.1	3684.2
20°	6073.6	6007.8	6145.3	6327.7	6653.7	6910.9	6901.9	6342.7	5376.8	5113.6	4028.1
22.5°	6462.3	6411.5	6522.1	6540.1	6767.3	7126.2	7212.9	6794.2	5855.3	5532.3	4398.9
25°	7180.0	7272.7	7141.1	7027.5	7096.3	7332.5	7395.3	7195.0	6336.7	6040.7	4769.7
27.5°	8229.7	8217.7	7957.5	7811.0	7646.5	7616.6	7661.5	7568.8	6716.5	6504.2	5074.8
30°	9357.0	9258.4	9019.1	8666.3	8304.4	8080.1	8017.3	7921.6	7162.1	6854.1	5376.8
32.5°	10254.2	10308.0	10041.9	9581.3	8980.3	8678.2	8376.2	8271.5	7652.5	7380.4	5723.7
35°	11079.5	11007.8	10795.4	10406.7	9868.4	9381.0	8908.5	8684.2	8241.6	7972.5	6106.5
37.5°	11689.6	11779.3	11375.6	11004.8	10469.5	10065.8	9602.3	9111.8	8848.7	8489.8	6573.0
40°	12266.7	12126.2	11854.1	11513.1	11016.7	10708.7	10403.7	9638.1	9494.6	9031.1	7099.3
42.5°	12165.1	12174.0	12024.5	11749.4	11390.5	11214.1	11109.4	10278.1	10080.7	9784.7	7613.6
45°	11749.4	11785.3	11836.1	11701.5	11731.4	11555.0	11836.1	11013.7	10819.4	10505.4	8205.7
47.5°	11291.9	11351.7	11339.7	11584.9	11863.0	11922.8	12625.6	11830.1	11746.4	11573.0	9025.1
50°	10532.3	10556.2	10786.5	11232.0	11611.8	12236.8	13217.7	12721.3	12849.9	12509.0	10000.0
52.5°	9234.4	9321.2	9913.3	10550.2	11315.8	12395.3	13618.4	14046.0	14372.0	14022.1	10936.0
55°	7592.7	7712.3	8295.4	9488.6	10610.0	12156.1	13983.2	14745.8	15406.7	14877.4	11504.2
57.5°	6109.4	6121.4	6644.7	7876.8	9608.2	11686.6	14168.6	15086.7	15974.9	15550.2	12198.0
60°	4656.1	4608.2	5077.7	6145.3	7921.6	10532.3	13705.1	15260.1	16683.6	16438.4	13032.3
62.5°	2996.4	2921.6	3433.0	4473.7	6187.2	8609.4	12778.1	15263.1	17790.0	17697.3	14428.8
65°	1483.3	1432.4	1872.0	2742.2	4282.3	6584.9	11456.3	15206.3	19141.7	19201.5	15789.5
67.5°	783.5	801.4	942.0	1390.5	2470.1	4653.1	9464.7	14539.5	19832.5	20167.4	16118.4
68°	720.7	726.7	837.3	1157.3	2144.1	4315.2	8992.2	14345.1	19886.3	20299.0	15936.0
70°	586.1	595.1	634.0	726.7	1160.3	2808.0	6937.8	12694.4	19075.9	19452.7	14425.8
72.5°	466.5	493.4	517.3	556.2	681.8	1474.3	4315.2	9892.3	15759.5	15801.4	11229.1
75°	355.9	376.8	424.6	457.5	532.3	810.4	2054.4	6031.7	10340.9	9832.5	6614.8
77.5°	275.1	293.1	314.0	358.9	445.6	547.2	628.0	2559.8	4392.9	3615.4	1869.0
80°	164.5	176.4	245.2	281.1	388.8	370.8	248.2	711.7	891.1	702.8	340.9
82.5°	95.7	104.7	140.6	215.3	272.1	200.4	146.5	221.3	218.3	191.4	113.6
85°	3.0	6.0	77.8	128.6	95.7	53.8	89.7	92.7	77.8	71.8	50.8
87.5°	0.0	3.0	20.9	17.9	20.9	12.0	17.9	23.9	29.9	26.9	20.9
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°	2078.3	2078.3	2078.3	2078.3	2078.3	2078.3	2078.3	2078.3	2078.3	2078.3	2078.3
2.5°	2099.3	2033.5	1887.0	1776.3	1656.7	1584.9	1513.2	1468.3	1444.4	1429.4	1441.4
5°	2153.1	2015.5	1779.3	1570.0	1432.4	1339.7	1247.0	1199.2	1154.3	1130.4	1145.3
7.5°	2272.7	2066.4	1674.6	1447.4	1285.9	1142.3	1025.7	933.0	879.2	831.3	840.3
10°	2419.3	2096.3	1677.6	1375.6	1142.3	915.1	750.6	634.0	568.2	526.3	523.3
12.5°	2568.8	2212.9	1689.6	1303.8	965.9	687.8	493.4	406.7	367.8	346.9	346.9
15°	2796.0	2317.6	1659.7	1172.2	732.7	448.6	337.9	308.0	293.1	275.1	278.1
17.5°	2993.4	2485.0	1644.7	974.9	502.4	323.0	281.1	248.2	233.3	215.3	215.3
20°	3259.6	2589.7	1564.0	753.6	346.9	269.1	227.3	197.4	173.4	158.5	161.5
22.5°	3501.8	2670.5	1420.5	514.4	266.1	212.3	167.5	137.6	116.6	98.7	101.7
25°	3764.9	2751.2	1211.1	317.0	188.4	131.6	89.7	65.8	44.9	32.9	32.9
27.5°	3953.3	2775.1	939.0	188.4	113.6	59.8	20.9	3.0	0.0	0.0	0.0
30°	4144.7	2784.1	648.9	101.7	44.9	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	4363.0	2781.1	406.7	53.8	3.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	4530.5	2730.3	194.4	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	4784.7	2655.5	59.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5074.8	2520.9	12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5334.9	2383.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	5631.0	2212.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	6151.3	2141.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	6830.1	2084.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	7248.8	1916.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	7467.1	1743.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	7790.1	1659.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	8268.5	1665.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	9016.1	1749.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	9428.8	1665.7	12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	9078.9	1333.7	56.8	15.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
68°	8776.9	1226.1	56.8	15.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	7254.8	798.4	53.8	15.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5284.1	442.6	44.9	12.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	3074.2	221.3	32.9	12.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	801.4	110.6	26.9	15.0	9.0	3.0	0.0	0.0	0.0	0.0	0.0
80°	158.5	71.8	23.9	17.9	12.0	6.0	0.0	0.0	0.0	0.0	0.0
82.5°	74.8	50.8	23.9	17.9	15.0	9.0	3.0	0.0	0.0	0.0	0.0
85°	38.9	23.9	23.9	17.9	17.9	12.0	6.0	0.0	0.0	0.0	0.0
87.5°	17.9	9.0	9.0	9.0	9.0	6.0	3.0	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)