

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: P482001

Luminaire Tested: **IFLD-M-SA4D-730-U-T2R-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P482001  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4D-730-U-T2R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield  
Light Source: (64) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

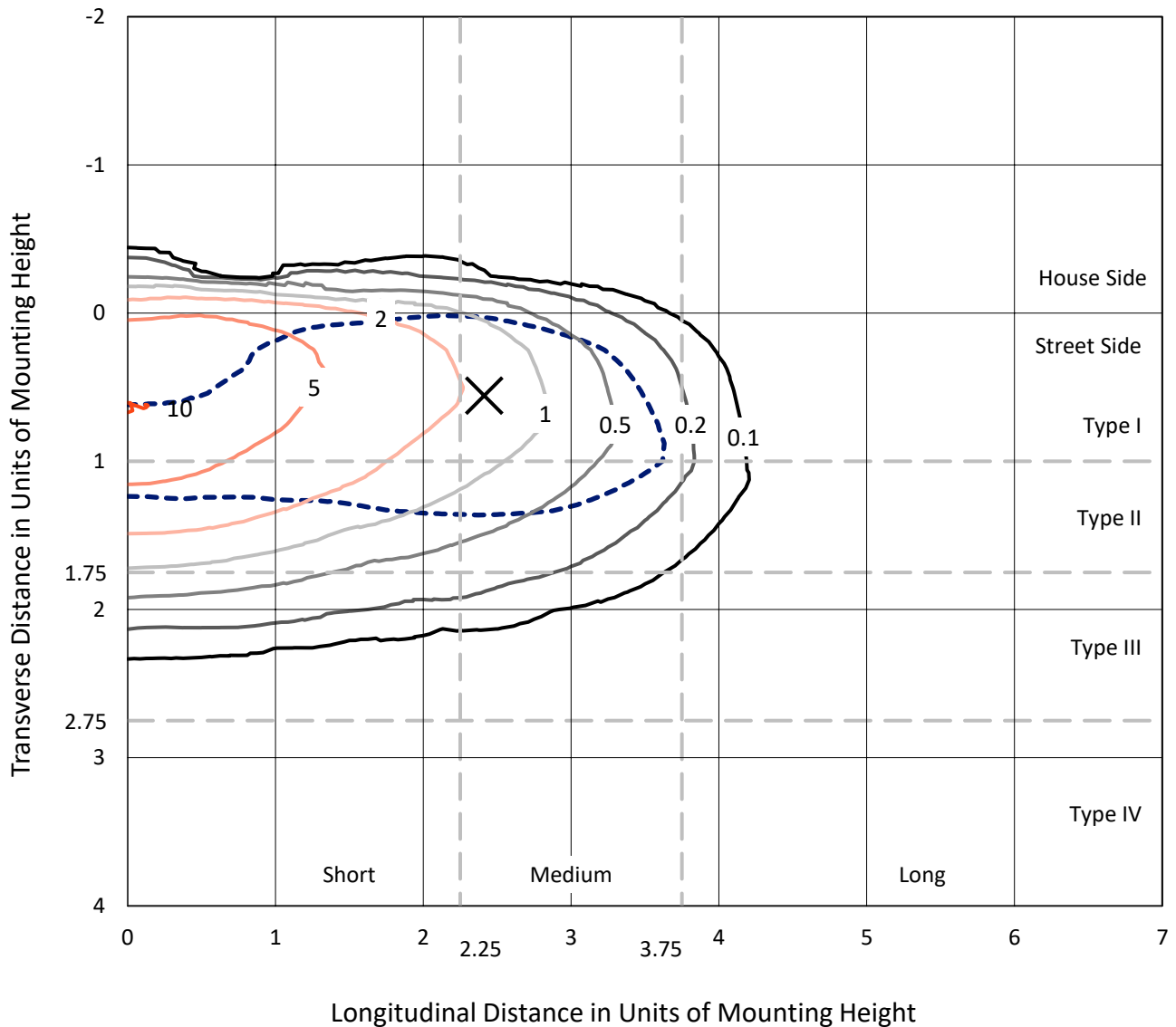
Lumens per Lamp: N/A  
Luminaire Lumens: 22396.8 lumens  
Efficiency: N/A  
Efficacy: 89.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G3

Input Watts (W): 249.7  
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

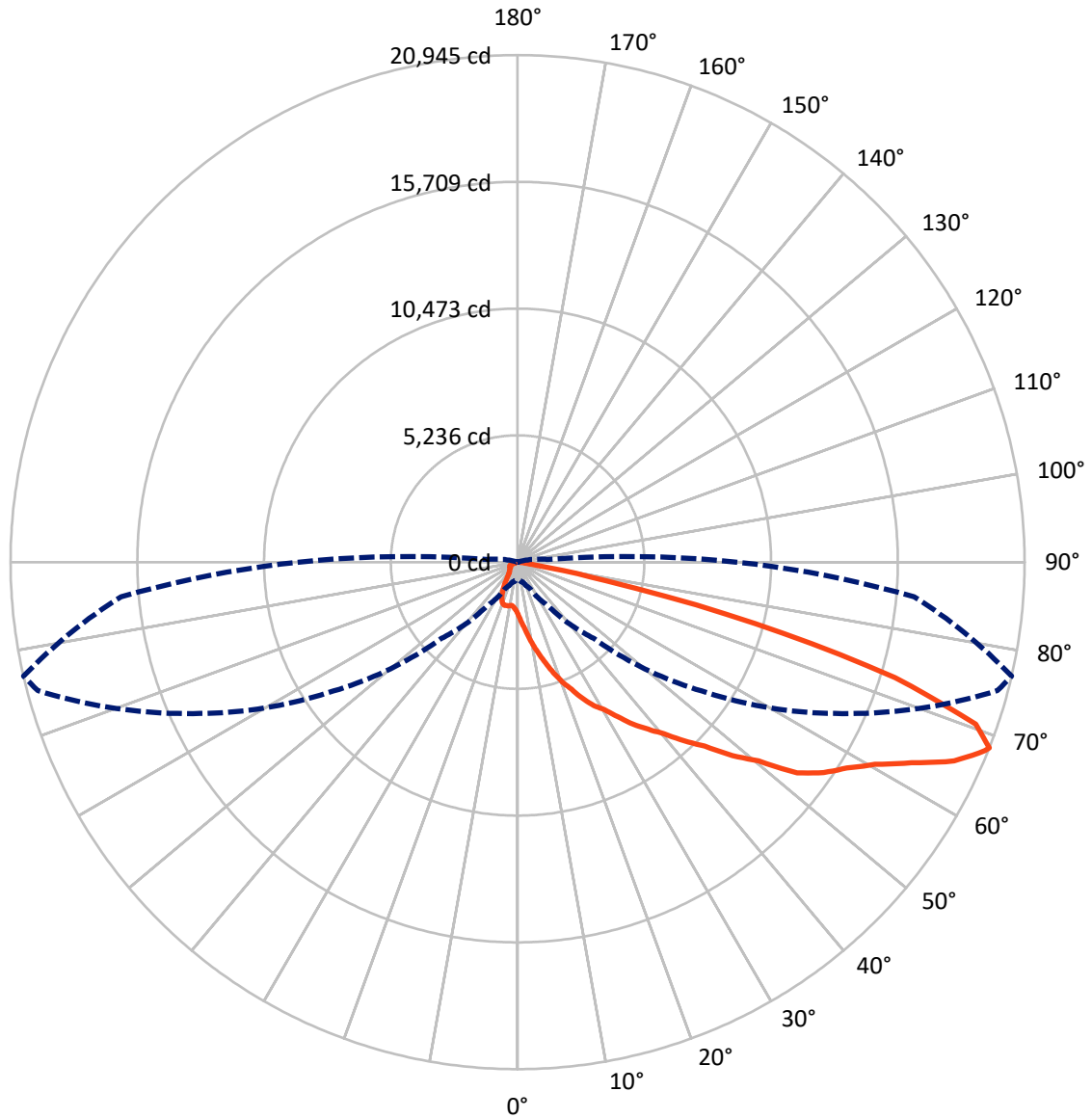
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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	1015.7	0.0	1015.7
	% Fixture	4.5	0.0	4.5
<b>Street Side</b>	Lumens	21381.1	0.0	21381.1
	% Fixture	95.5	0.0	95.5
<b>Total</b>	Lumens	22396.8	0.0	22396.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	250.5	1.1
10°-20°	924.0	4.1
20°-30°	1790.7	8.0
30°-40°	3121.9	13.9
40°-50°	4572.3	20.4
50°-60°	5371.7	24.0
60°-70°	4535.9	20.3
70°-80°	1758.2	7.9
80°-90°	71.5	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°	22396.8	100.0
0°-180°	22396.8	100.0

**Coefficient of Utilization**



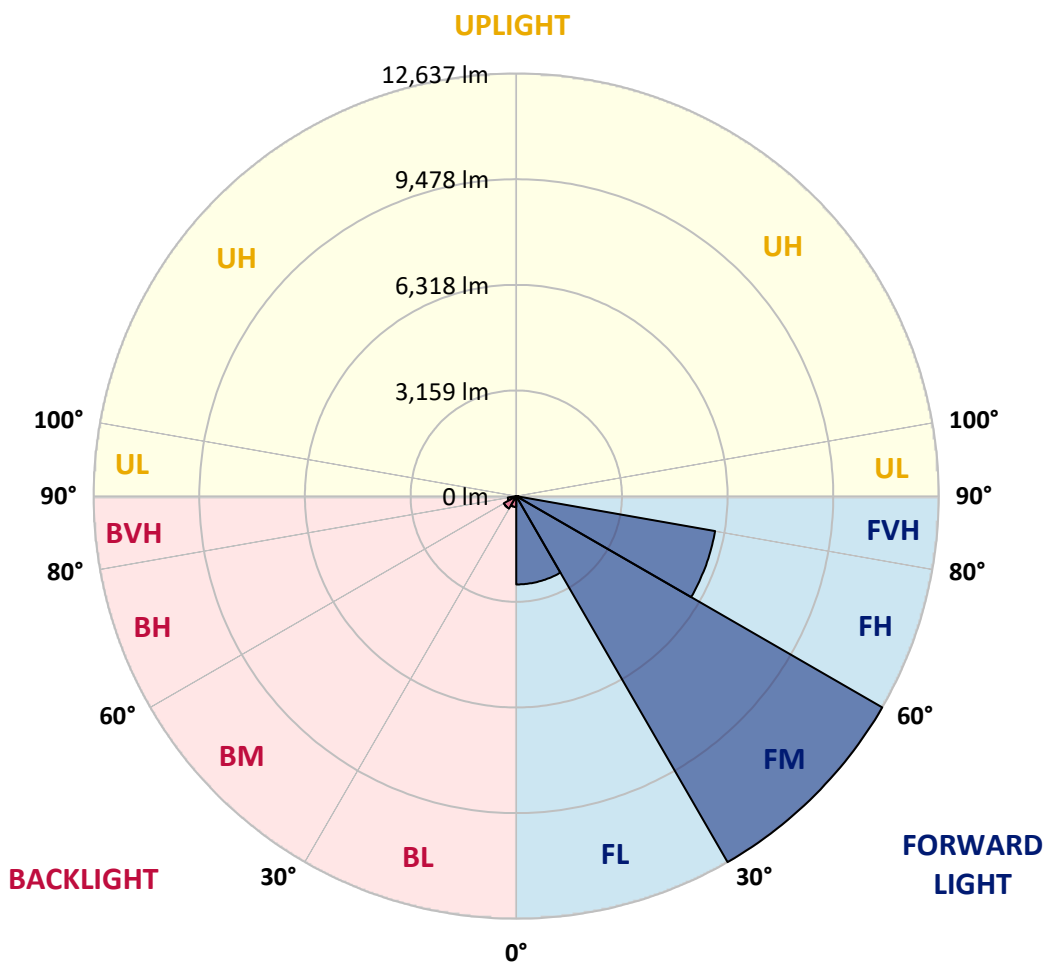
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2640.8	11.8			
FM (30°-60°)	12636.7	56.4			
FH (60°-80°)	6037.7	27.0			G3/7500
FVH (80°-90°)	66.0	0.3			G1/100
BL (0°-30°)	324.5	1.4	B1/500		
BM (30°-60°)	429.2	1.9	B1/1000		
BH (60°-80°)	256.5	1.1	B1/500		G1/500
BVH (80°-90°)	5.5	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°	2144.5	2144.5	2144.5	2144.5	2144.5	2144.5	2144.5	2144.5	2144.5	2144.5	2144.5
2.5°	3258.4	3196.7	3131.9	3113.4	2993.1	2857.3	2730.8	2607.4	2400.6	2403.7	2261.8
5°	4199.6	4122.4	4070.0	4057.6	3869.4	3634.9	3443.6	3094.9	2752.4	2675.3	2416.1
7.5°	4974.1	4949.4	4872.2	4807.4	4668.6	4381.6	4156.4	3656.5	3135.0	3048.6	2604.3
10°	5443.1	5480.1	5514.1	5430.7	5322.7	5116.0	4807.4	4267.5	3570.1	3462.1	2848.1
12.5°	5943.0	5881.3	5902.9	5970.7	5828.8	5782.5	5399.9	4896.9	4079.2	3872.5	3156.6
15°	6072.6	6097.2	6149.7	6347.2	6442.8	6310.2	5980.0	5406.1	4606.9	4319.9	3443.6
17.5°	6159.0	6146.6	6211.4	6507.6	6652.7	6779.2	6572.4	5973.8	5066.6	4810.5	3801.5
20°	6267.0	6199.1	6341.0	6529.2	6865.6	7130.9	7121.7	6544.7	5548.0	5276.5	4156.4
22.5°	6668.1	6615.6	6729.8	6748.3	6982.8	7353.1	7442.6	7010.6	6041.7	5708.5	4539.0
25°	7408.7	7504.3	7368.5	7251.3	7322.3	7566.0	7630.8	7424.1	6538.5	6233.0	4921.6
27.5°	8491.7	8479.4	8210.9	8059.7	7890.0	7859.2	7905.4	7809.8	6930.4	6711.3	5236.4
30°	9655.0	9553.2	9306.3	8942.2	8568.9	8337.4	8272.6	8173.9	7390.1	7072.3	5548.0
32.5°	10580.7	10636.2	10361.6	9886.4	9266.2	8954.6	8642.9	8534.9	7896.2	7615.4	5905.9
35°	11432.3	11358.3	11139.2	10738.1	10182.7	9679.7	9192.2	8960.7	8504.1	8226.3	6300.9
37.5°	12061.8	12154.4	11737.8	11355.2	10802.9	10386.3	9908.0	9402.0	9130.4	8760.2	6782.3
40°	12657.3	12512.3	12231.5	11879.8	11367.5	11049.7	10735.0	9945.1	9796.9	9318.7	7325.3
42.5°	12552.4	12561.7	12407.4	12123.5	11753.2	11571.2	11463.2	10605.4	10401.7	10096.3	7856.1
45°	12123.5	12160.6	12213.0	12074.2	12105.0	11923.0	12213.0	11364.5	11163.9	10839.9	8467.0
47.5°	11651.4	11713.1	11700.8	11953.8	12240.8	12302.5	13027.6	12206.8	12120.4	11941.5	9312.5
50°	10867.7	10892.4	11129.9	11589.7	11981.6	12626.5	13638.6	13126.4	13259.0	12907.3	10318.4
52.5°	9528.5	9618.0	10228.9	10886.2	11676.1	12790.0	14052.1	14493.3	14829.6	14468.6	11284.2
55°	7834.5	7957.9	8559.6	9790.8	10947.9	12543.2	14428.5	15215.4	15897.3	15351.1	11870.5
57.5°	6304.0	6316.3	6856.3	8127.6	9914.2	12058.7	14619.8	15567.1	16483.6	16045.4	12586.4
60°	4804.4	4755.0	5239.4	6341.0	8173.9	10867.7	14141.5	15746.1	17214.9	16961.8	13447.3
62.5°	3091.8	3014.7	3542.3	4616.1	6384.2	8883.6	13185.0	15749.2	18356.5	18260.9	14888.3
65°	1530.5	1478.0	1931.6	2829.5	4418.7	6794.6	11821.1	15690.5	19751.3	19813.0	16292.2
67.5°	808.4	827.0	972.0	1434.8	2548.7	4801.3	9766.1	15002.4	20464.0	20809.6	16631.7
68°	743.6	749.8	864.0	1194.1	2212.4	4452.6	9278.6	14801.9	20519.6	20945.4	16443.4
70°	604.8	614.0	654.2	749.8	1197.2	2897.4	7158.7	13098.6	19683.4	20072.2	14885.2
72.5°	481.4	509.1	533.8	573.9	703.5	1521.2	4452.6	10207.3	16261.4	16304.6	11586.6
75°	367.2	388.8	438.2	472.1	549.2	836.2	2119.8	6223.8	10670.2	10145.6	6825.5
77.5°	283.9	302.4	324.0	370.3	459.8	564.7	648.0	2641.3	4532.8	3730.6	1928.5
80°	169.7	182.1	253.0	290.1	401.1	382.6	256.1	734.4	919.5	725.1	351.8
82.5°	98.7	108.0	145.0	222.2	280.8	206.7	151.2	228.3	225.3	197.5	117.3
85°	3.1	6.2	80.2	132.7	98.7	55.5	92.6	95.7	80.2	74.1	52.5
87.5°	0.0	3.1	21.6	18.5	21.6	12.3	18.5	24.7	30.9	27.8	21.6
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°	2144.5	2144.5	2144.5	2144.5	2144.5	2144.5	2144.5	2144.5	2144.5	2144.5	2144.5
2.5°	2166.1	2098.2	1947.0	1832.9	1709.5	1635.4	1561.3	1515.1	1490.4	1474.9	1487.3
5°	2221.7	2079.7	1836.0	1620.0	1478.0	1382.4	1286.7	1237.3	1191.1	1166.4	1181.8
7.5°	2345.1	2132.2	1728.0	1493.5	1326.8	1178.7	1058.4	962.7	907.2	857.8	867.1
10°	2496.3	2163.0	1731.1	1419.4	1178.7	944.2	774.5	654.2	586.3	543.1	540.0
12.5°	2650.6	2283.4	1743.4	1345.3	996.7	709.7	509.1	419.6	379.5	357.9	357.9
15°	2885.1	2391.4	1712.5	1209.6	756.0	462.8	348.7	317.8	302.4	283.9	287.0
17.5°	3088.7	2564.2	1697.1	1005.9	518.4	333.3	290.1	256.1	240.7	222.2	222.2
20°	3363.4	2672.2	1613.8	777.6	357.9	277.7	234.5	203.7	179.0	163.5	166.6
22.5°	3613.3	2755.5	1465.7	530.7	274.6	219.1	172.8	141.9	120.3	101.8	104.9
25°	3884.8	2838.8	1249.7	327.1	194.4	135.8	92.6	67.9	46.3	33.9	33.9
27.5°	4079.2	2863.5	968.9	194.4	117.3	61.7	21.6	3.1	0.0	0.0	0.0
30°	4276.7	2872.7	669.6	104.9	46.3	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	4502.0	2869.7	419.6	55.5	3.1	0.0	0.0	0.0	0.0	0.0	0.0
35°	4674.8	2817.2	200.6	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	4937.0	2740.1	61.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5236.4	2601.2	12.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5504.8	2459.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	5810.3	2283.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	6347.2	2209.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	7047.6	2150.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	7479.6	1977.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	7704.9	1798.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	8038.1	1712.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	8531.8	1718.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	9303.2	1805.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	9729.1	1718.7	12.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	9368.0	1376.2	58.6	15.4	3.1	0.0	0.0	0.0	0.0	0.0	0.0
68°	9056.4	1265.1	58.6	15.4	3.1	0.0	0.0	0.0	0.0	0.0	0.0
70°	7485.8	823.9	55.5	15.4	6.2	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5452.3	456.7	46.3	12.3	6.2	0.0	0.0	0.0	0.0	0.0	0.0
75°	3172.1	228.3	33.9	12.3	6.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	827.0	114.2	27.8	15.4	9.3	3.1	0.0	0.0	0.0	0.0	0.0
80°	163.5	74.1	24.7	18.5	12.3	6.2	0.0	0.0	0.0	0.0	0.0
82.5°	77.1	52.5	24.7	18.5	15.4	9.3	3.1	0.0	0.0	0.0	0.0
85°	40.1	24.7	24.7	18.5	18.5	12.3	6.2	0.0	0.0	0.0	0.0
87.5°	18.5	9.3	9.3	9.3	9.3	6.2	3.1	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)