

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: P482040

Luminaire Tested: **IFLD-M-SA4D-735-U-T2R-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P482040  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4D-735-U-T2R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

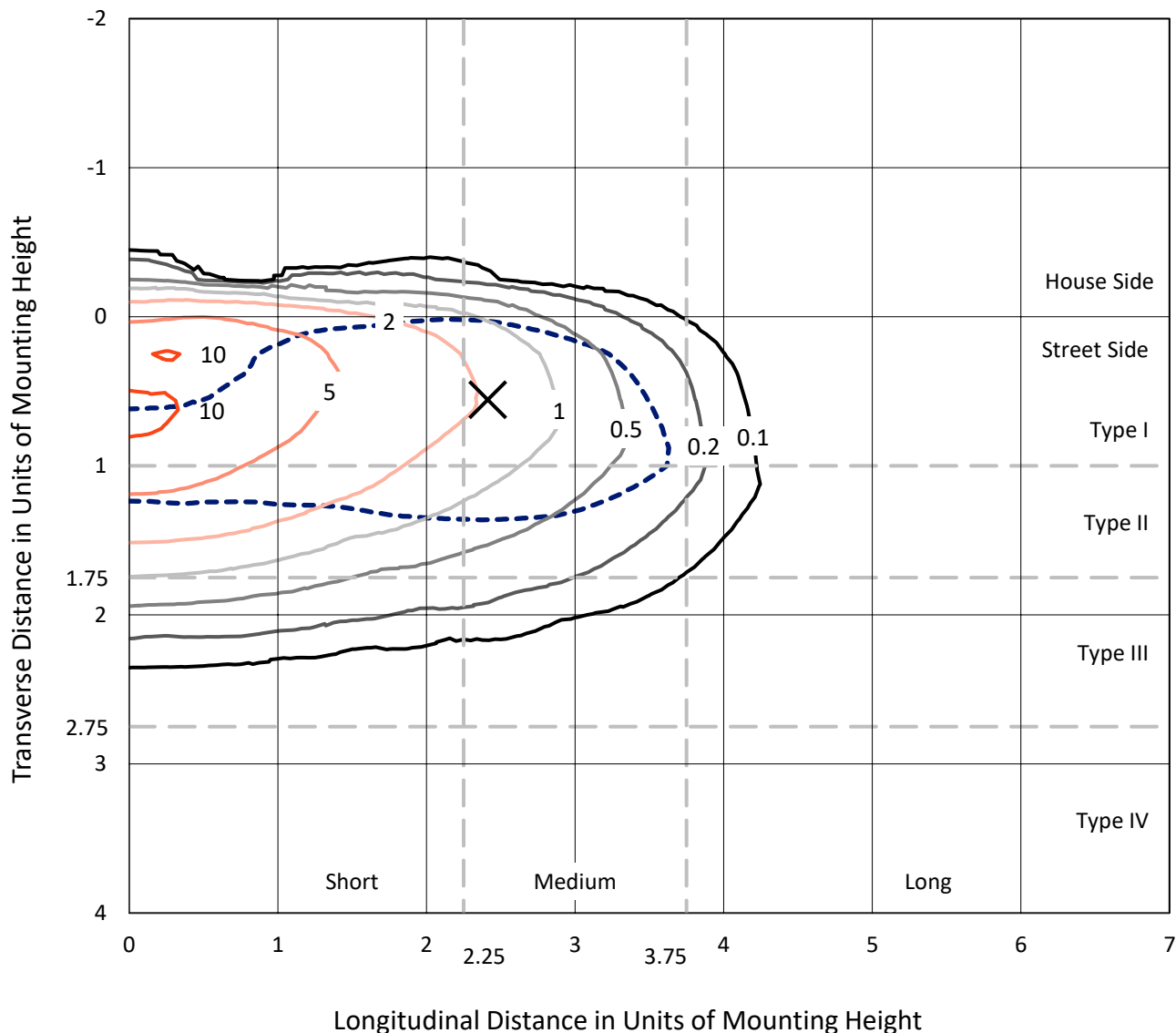
Lumens per Lamp: N/A  
Luminaire Lumens: 24258.7 lumens  
Efficiency: N/A  
Efficacy: 97.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G3

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

REPORT NUMBER: P482040  
 CATALOG NUMBER: IFLD-M-SA4D-735-U-T2R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

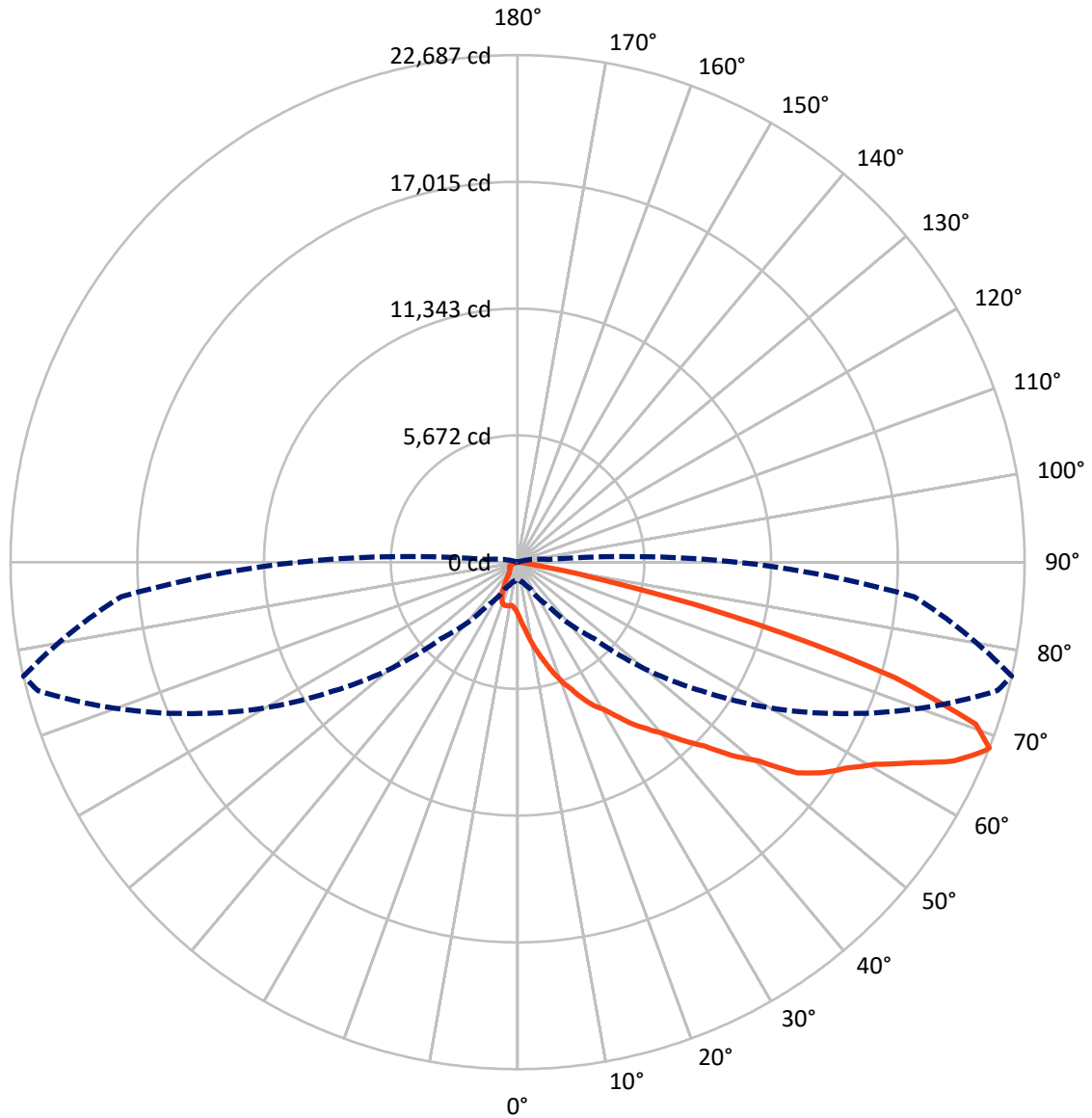
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc  
 Type II - Medium - N/A

REPORT NUMBER: P482040  
CATALOG NUMBER: IFLD-M-SA4D-735-U-T2R-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

REPORT NUMBER: P482040  
 CATALOG NUMBER: IFLD-M-SA4D-735-U-T2R-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1100.1	0.0	1100.1
	% Fixture	4.5	0.0	4.5
<b>Street Side</b>	Lumens	23158.6	0.0	23158.6
	% Fixture	95.5	0.0	95.5
<b>Total</b>	Lumens	24258.7	0.0	24258.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	271.4	1.1
10°-20°	1000.8	4.1
20°-30°	1939.6	8.0
30°-40°	3381.4	13.9
40°-50°	4952.4	20.4
50°-60°	5818.3	24.0
60°-70°	4913.0	20.3
70°-80°	1904.4	7.9
80°-90°	77.4	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°	24258.7	100.0
0°-180°	24258.7	100.0

**Coefficient of Utilization**



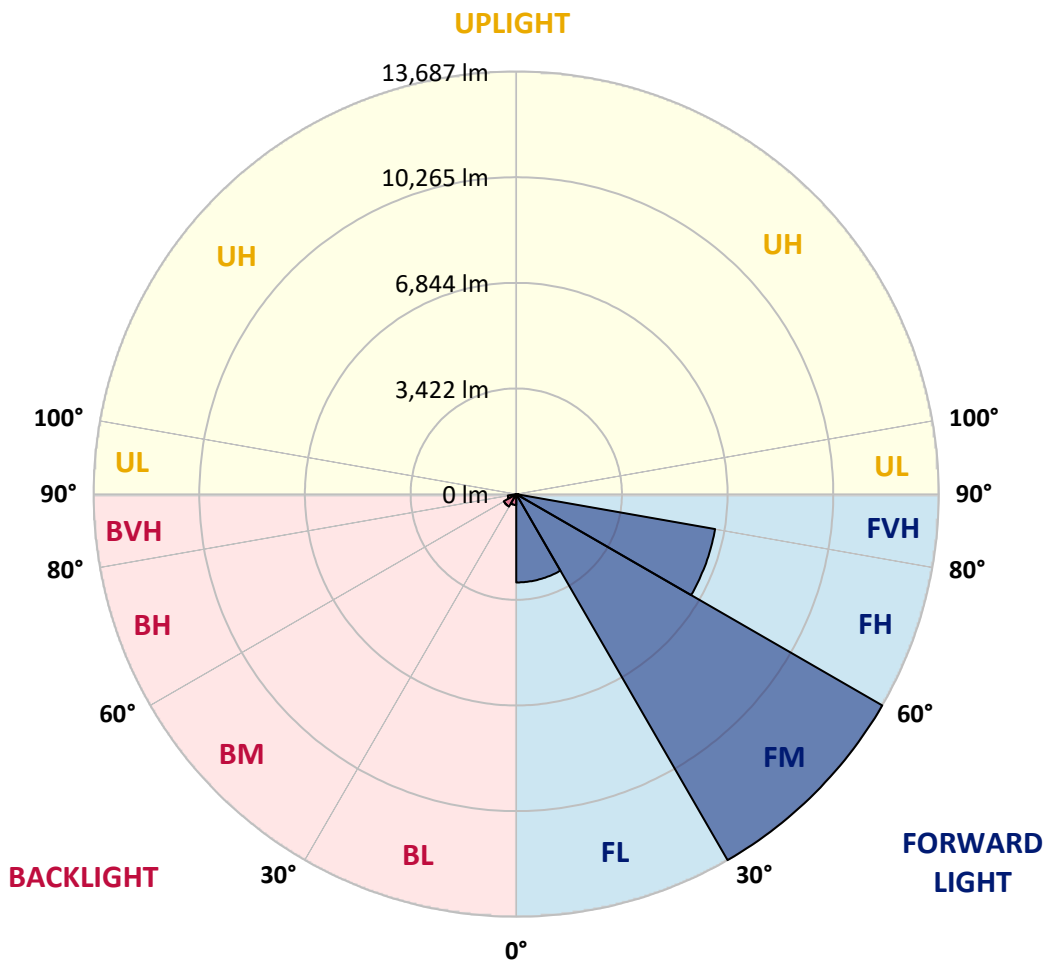
REPORT NUMBER: P482040  
 CATALOG NUMBER: IFLD-M-SA4D-735-U-T2R-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2860.3	11.8			
FM (30°-60°)	13687.2	56.4			
FH (60°-80°)	6539.6	27.0			G3/7500
FVH (80°-90°)	71.4	0.3			G1/100
BL (0°-30°)	351.5	1.4	B1/500		
BM (30°-60°)	464.9	1.9	B1/1000		
BH (60°-80°)	277.8	1.1	B1/500		G1/500
BVH (80°-90°)	6.0	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





REPORT NUMBER: P482040

CATALOG NUMBER: IFLD-M-SA4D-735-U-T2R-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2322.8	2322.8	2322.8	2322.8	2322.8	2322.8	2322.8	2322.8	2322.8	2322.8	2322.8
2.5°	3529.3	3462.5	3392.3	3372.2	3241.9	3094.8	2957.8	2824.1	2600.2	2603.5	2449.8
5°	4548.7	4465.1	4408.3	4395.0	4191.1	3937.1	3729.9	3352.2	2981.2	2897.7	2616.9
7.5°	5387.6	5360.8	5277.3	5207.1	5056.7	4745.9	4501.9	3960.5	3395.6	3302.1	2820.8
10°	5895.6	5935.7	5972.5	5882.2	5765.2	5541.3	5207.1	4622.2	3866.9	3749.9	3084.8
12.5°	6437.0	6370.2	6393.6	6467.1	6313.4	6263.2	5848.8	5304.0	4418.3	4194.4	3419.0
15°	6577.4	6604.1	6660.9	6874.8	6978.4	6834.7	6477.1	5855.5	4989.9	4679.0	3729.9
17.5°	6671.0	6657.6	6727.8	7048.6	7205.7	7342.7	7118.8	6470.4	5487.8	5210.4	4117.6
20°	6787.9	6714.4	6868.2	7072.0	7436.3	7723.8	7713.7	7088.7	6009.2	5715.1	4501.9
22.5°	7222.4	7165.6	7289.3	7309.3	7563.3	7964.4	8061.3	7593.4	6544.0	6183.0	4916.3
25°	8024.5	8128.2	7981.1	7854.1	7931.0	8195.0	8265.2	8041.3	7082.1	6751.2	5330.8
27.5°	9197.6	9184.3	8893.5	8729.7	8545.9	8512.5	8562.6	8459.0	7506.5	7269.2	5671.7
30°	10457.6	10347.4	10080.0	9685.6	9281.2	9030.5	8960.4	8853.4	8004.5	7660.3	6009.2
32.5°	11460.3	11520.5	11223.0	10708.3	10036.5	9699.0	9361.4	9244.4	8552.6	8248.5	6396.9
35°	12382.7	12302.5	12065.2	11630.7	11029.2	10484.4	9956.3	9705.7	9211.0	8910.2	6824.7
37.5°	13064.5	13164.8	12713.6	12299.2	11700.9	11249.7	10731.7	10183.6	9889.5	9488.4	7346.1
40°	13709.6	13552.5	13248.4	12867.3	12312.5	11968.3	11627.4	10771.8	10611.4	10093.3	7934.3
42.5°	13595.9	13606.0	13438.9	13131.4	12730.3	12533.1	12416.2	11487.0	11266.5	10935.6	8509.2
45°	13131.4	13171.5	13228.3	13077.9	13111.3	12914.1	13228.3	12309.2	12092.0	11741.0	9170.9
47.5°	12620.0	12686.9	12673.5	12947.6	13258.4	13325.2	14110.6	13221.6	13128.0	12934.2	10086.7
50°	11771.1	11797.9	12055.2	12553.2	12977.6	13676.2	14772.4	14217.6	14361.3	13980.3	11176.2
52.5°	10320.6	10417.5	11079.3	11791.2	12646.8	13853.3	15220.2	15698.2	16062.5	15671.4	12222.3
55°	8485.8	8619.5	9271.2	10604.7	11858.0	13585.9	15628.0	16480.2	17218.9	16627.3	12857.3
57.5°	6828.1	6841.4	7426.3	8803.3	10738.4	13061.2	15835.2	16861.2	17853.9	17379.3	13632.7
60°	5203.8	5150.3	5675.0	6868.2	8853.4	11771.1	15317.2	17055.1	18646.0	18371.9	14565.2
62.5°	3348.9	3265.3	3836.8	4999.9	6914.9	9622.1	14281.1	17058.4	19882.6	19779.0	16126.0
65°	1657.7	1600.9	2092.2	3064.8	4786.0	7359.5	12803.8	16994.9	21393.2	21460.1	17646.6
67.5°	875.6	895.7	1052.8	1554.1	2760.6	5200.4	10578.0	16249.6	22165.3	22539.6	18014.3
68°	805.5	812.1	935.8	1293.4	2396.3	4822.7	10049.9	16032.4	22225.4	22686.6	17810.4
70°	655.1	665.1	708.5	812.1	1296.8	3138.3	7753.8	14187.5	21319.7	21740.8	16122.6
72.5°	521.4	551.5	578.2	621.6	762.0	1647.7	4822.7	11055.9	17613.2	17660.0	12549.8
75°	397.7	421.1	474.6	511.4	594.9	905.7	2296.1	6741.2	11557.2	10989.1	7392.9
77.5°	307.5	327.5	350.9	401.1	498.0	611.6	701.9	2860.9	4909.6	4040.7	2088.9
80°	183.8	197.2	274.1	314.2	434.5	414.4	277.4	795.4	996.0	785.4	381.0
82.5°	106.9	117.0	157.1	240.6	304.1	223.9	163.8	247.3	244.0	213.9	127.0
85°	3.3	6.7	86.9	143.7	106.9	60.2	100.3	103.6	86.9	80.2	56.8
87.5°	0.0	3.3	23.4	20.1	23.4	13.4	20.1	26.7	33.4	30.1	23.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P482040

CATALOG NUMBER: IFLD-M-SA4D-735-U-T2R-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2322.8	2322.8	2322.8	2322.8	2322.8	2322.8	2322.8	2322.8	2322.8	2322.8	2322.8
2.5°	2346.2	2272.7	2108.9	1985.2	1851.6	1771.3	1691.1	1641.0	1614.3	1597.6	1610.9
5°	2406.4	2252.6	1988.6	1754.6	1600.9	1497.3	1393.7	1340.2	1290.1	1263.3	1280.1
7.5°	2540.0	2309.4	1871.6	1617.6	1437.1	1276.7	1146.4	1042.8	982.6	929.1	939.1
10°	2703.8	2342.9	1875.0	1537.4	1276.7	1022.7	838.9	708.5	635.0	588.2	584.9
12.5°	2870.9	2473.2	1888.3	1457.2	1079.5	768.7	551.5	454.5	411.1	387.7	387.7
15°	3124.9	2590.2	1854.9	1310.1	818.8	501.3	377.7	344.2	327.5	307.5	310.8
17.5°	3345.5	2777.3	1838.2	1089.5	561.5	361.0	314.2	277.4	260.7	240.6	240.6
20°	3643.0	2894.3	1748.0	842.2	387.7	300.8	254.0	220.6	193.8	177.1	180.5
22.5°	3913.7	2984.6	1587.5	574.9	297.5	237.3	187.2	153.7	130.3	110.3	113.6
25°	4207.8	3074.8	1353.6	354.3	210.6	147.1	100.3	73.5	50.1	36.8	36.8
27.5°	4418.3	3101.5	1049.4	210.6	127.0	66.8	23.4	3.3	0.0	0.0	0.0
30°	4632.2	3111.6	725.3	113.6	50.1	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	4876.2	3108.2	454.5	60.2	3.3	0.0	0.0	0.0	0.0	0.0	0.0
35°	5063.4	3051.4	217.2	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	5347.5	2967.8	66.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5671.7	2817.4	13.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5962.4	2663.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	6293.3	2473.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	6874.8	2393.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	7633.5	2329.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	8101.4	2142.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	8345.4	1948.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	8706.3	1854.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	9241.1	1861.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	10076.6	1955.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	10537.9	1861.6	13.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	10146.8	1490.6	63.5	16.7	3.3	0.0	0.0	0.0	0.0	0.0	0.0
68°	9809.3	1370.3	63.5	16.7	3.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	8108.1	892.4	60.2	16.7	6.7	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5905.6	494.6	50.1	13.4	6.7	0.0	0.0	0.0	0.0	0.0	0.0
75°	3435.7	247.3	36.8	13.4	6.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	895.7	123.7	30.1	16.7	10.0	3.3	0.0	0.0	0.0	0.0	0.0
80°	177.1	80.2	26.7	20.1	13.4	6.7	0.0	0.0	0.0	0.0	0.0
82.5°	83.6	56.8	26.7	20.1	16.7	10.0	3.3	0.0	0.0	0.0	0.0
85°	43.4	26.7	26.7	20.1	20.1	13.4	6.7	0.0	0.0	0.0	0.0
87.5°	20.1	10.0	10.0	10.0	10.0	6.7	3.3	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)