

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: P481923

Luminaire Tested: **IFLD-M-SA4D-722-U-T2R-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481923  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4D-722-U-T2R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield  
Light Source: (64) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

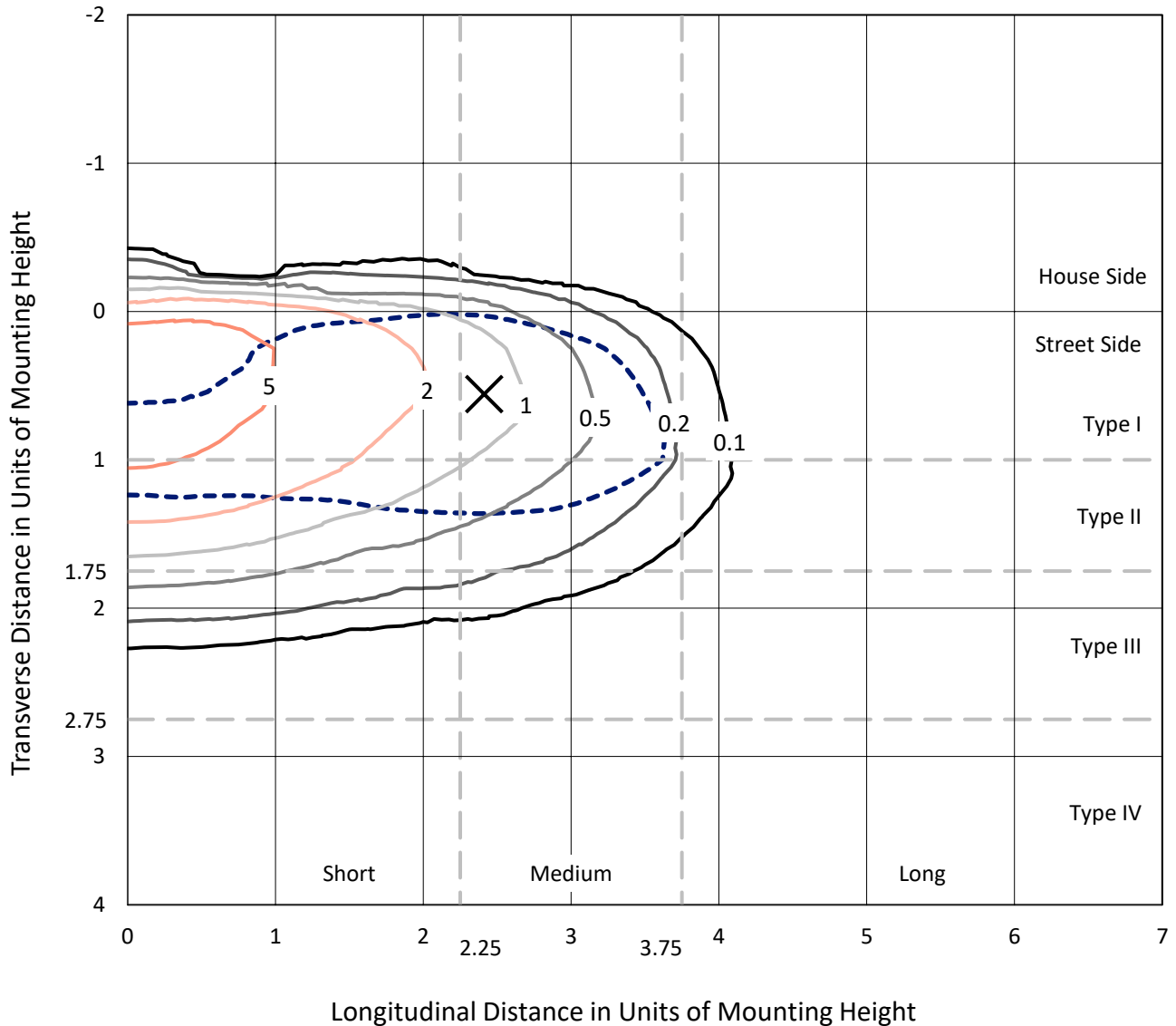
Lumens per Lamp: N/A  
Luminaire Lumens: 18117.2 lumens  
Efficiency: N/A  
Efficacy: 72.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

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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 CATALOG NUMBER: IFLD-M-SA4D-722-U-T2R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

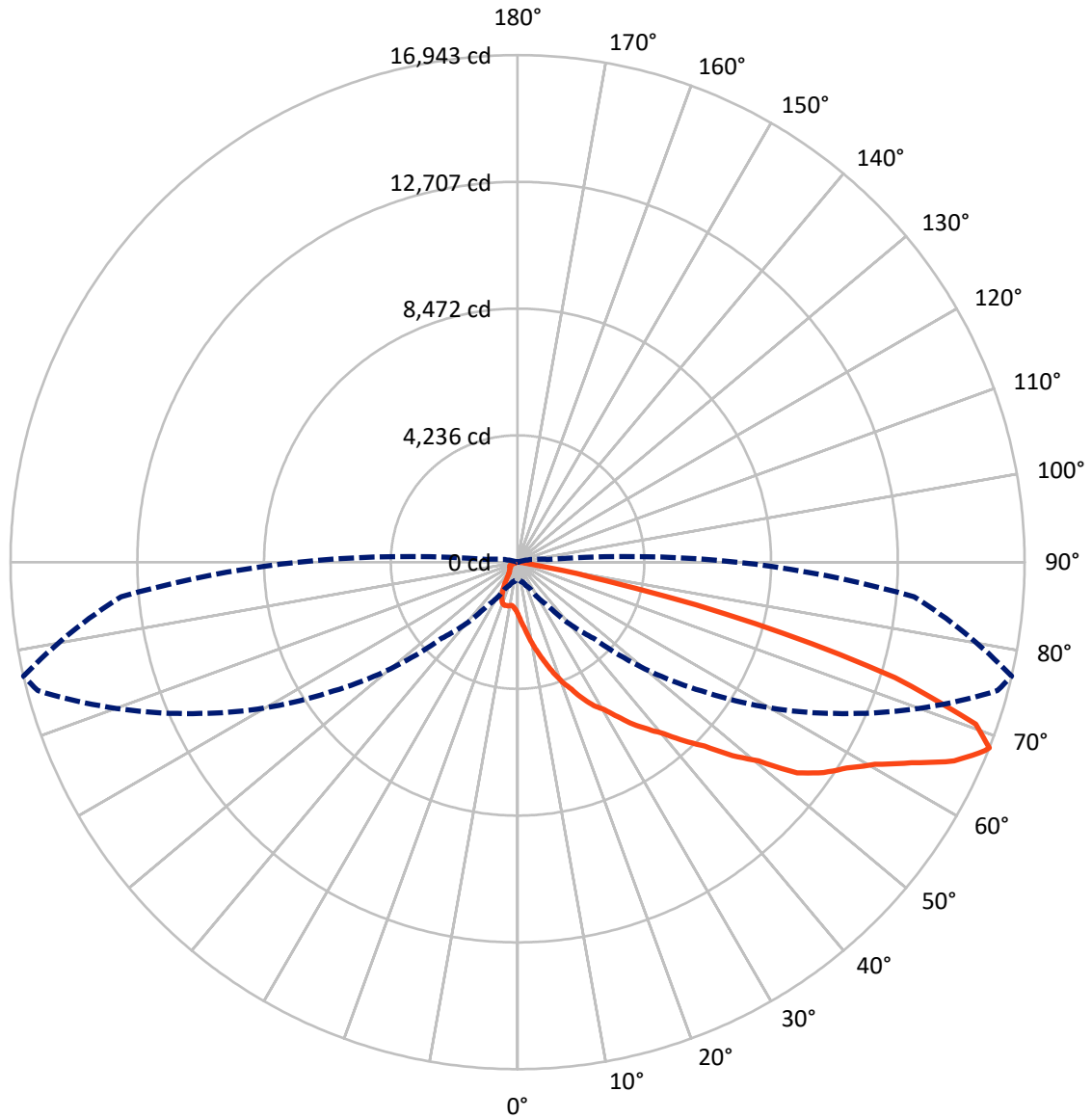
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc  
 Type II - Medium - N/A

REPORT NUMBER: P481923  
CATALOG NUMBER: IFLD-M-SA4D-722-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	821.6	0.0	821.6
	% Fixture	4.5	0.0	4.5
<b>Street Side</b>	Lumens	17295.6	0.0	17295.6
	% Fixture	95.5	0.0	95.5
<b>Total</b>	Lumens	18117.2	0.0	18117.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	202.7	1.1
10°-20°	747.4	4.1
20°-30°	1448.6	8.0
30°-40°	2525.3	13.9
40°-50°	3698.6	20.4
50°-60°	4345.3	24.0
60°-70°	3669.2	20.3
70°-80°	1422.3	7.9
80°-90°	57.8	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°	18117.2	100.0
0°-180°	18117.2	100.0

**Coefficient of Utilization**

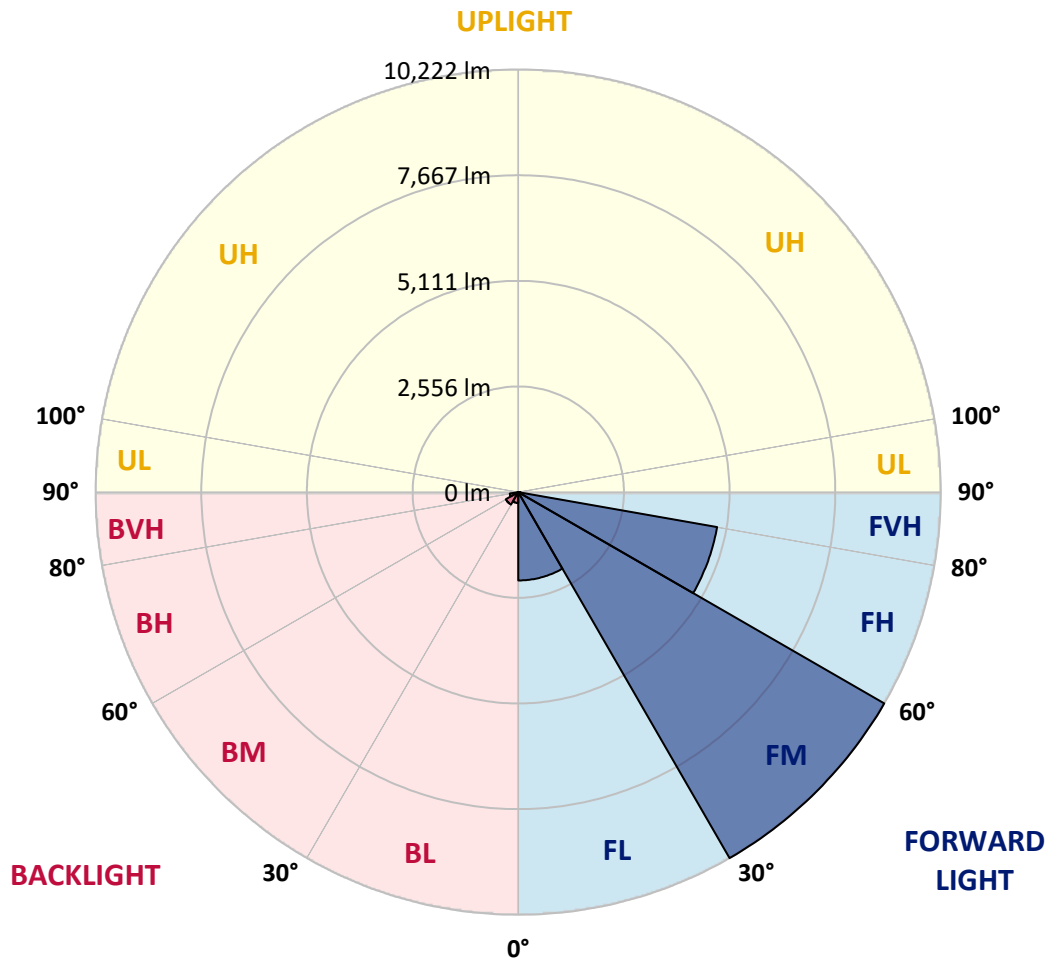


REPORT NUMBER: P481923  
 CATALOG NUMBER: IFLD-M-SA4D-722-U-T2R-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2136.2	11.8			
FM (30°-60°)	10222.0	56.4			
FH (60°-80°)	4884.0	27.0			G2/5000
FVH (80°-90°)	53.4	0.3			G1/100
BL (0°-30°)	262.5	1.4	B1/500		
BM (30°-60°)	347.2	1.9	B1/1000		
BH (60°-80°)	207.5	1.1	B1/500		G1/500
BVH (80°-90°)	4.5	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-G2**  
 Type II Medium





REPORT NUMBER: P481923

CATALOG NUMBER: IFLD-M-SA4D-722-U-T2R-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1734.7	1734.7	1734.7	1734.7	1734.7	1734.7	1734.7	1734.7	1734.7	1734.7	1734.7
2.5°	2635.8	2585.9	2533.5	2518.5	2421.2	2311.3	2209.0	2109.2	1941.9	1944.4	1829.6
5°	3397.1	3334.7	3292.3	3282.3	3130.0	2940.3	2785.6	2503.5	2226.5	2164.1	1954.4
7.5°	4023.6	4003.6	3941.2	3888.8	3776.5	3544.4	3362.2	2957.8	2536.0	2466.1	2106.7
10°	4403.0	4433.0	4460.4	4393.0	4305.7	4138.4	3888.8	3452.0	2887.9	2800.6	2303.8
12.5°	4807.4	4757.4	4774.9	4829.8	4715.0	4677.6	4368.1	3961.2	3299.8	3132.5	2553.4
15°	4912.2	4932.2	4974.6	5134.3	5211.7	5104.4	4837.3	4373.1	3726.6	3494.5	2785.6
17.5°	4982.1	4972.1	5024.5	5264.1	5381.5	5483.8	5316.6	4832.3	4098.5	3891.3	3075.1
20°	5069.5	5014.5	5129.4	5281.6	5553.7	5768.3	5760.9	5294.1	4487.9	4268.2	3362.2
22.5°	5393.9	5351.5	5443.9	5458.8	5648.5	5948.1	6020.4	5671.0	4887.2	4617.7	3671.7
25°	5993.0	6070.4	5960.5	5865.7	5923.1	6120.3	6172.7	6005.5	5289.1	5042.0	3981.2
27.5°	6869.1	6859.1	6642.0	6519.6	6382.4	6357.4	6394.8	6317.5	5606.1	5428.9	4235.8
30°	7810.1	7727.7	7528.0	7233.5	6931.5	6744.3	6691.9	6612.0	5978.0	5720.9	4487.9
32.5°	8558.9	8603.8	8381.7	7997.3	7495.6	7243.5	6991.4	6904.0	6387.4	6160.2	4777.4
35°	9247.8	9187.9	9010.7	8686.2	8236.9	7830.1	7435.7	7248.5	6879.1	6654.4	5096.9
37.5°	9757.0	9831.9	9494.9	9185.4	8738.6	8401.7	8014.8	7605.4	7385.8	7086.2	5486.3
40°	10238.7	10121.4	9894.3	9609.7	9195.4	8938.3	8683.7	8044.7	7924.9	7538.0	5925.6
42.5°	10153.9	10161.4	10036.6	9806.9	9507.4	9360.1	9272.8	8578.9	8414.1	8167.0	6354.9
45°	9806.9	9836.9	9879.3	9767.0	9792.0	9644.7	9879.3	9192.9	9030.7	8768.6	6849.1
47.5°	9425.0	9475.0	9465.0	9669.6	9901.8	9951.7	10538.3	9874.3	9804.4	9659.7	7533.0
50°	8791.0	8811.0	9003.2	9375.1	9692.1	10213.8	11032.5	10618.1	10725.5	10440.9	8346.7
52.5°	7707.8	7780.1	8274.4	8806.0	9445.0	10346.1	11367.0	11723.9	11996.0	11703.9	9128.0
55°	6337.4	6437.3	6924.0	7919.9	8855.9	10146.4	11671.5	12308.0	12859.6	12417.8	9602.3
57.5°	5099.4	5109.4	5546.2	6574.6	8019.8	9754.5	11826.2	12592.5	13333.8	12979.4	10181.3
60°	3886.3	3846.4	4238.3	5129.4	6612.0	8791.0	11439.3	12737.3	13925.4	13720.7	10877.7
62.5°	2501.0	2438.6	2865.5	3734.1	5164.3	7186.1	10665.6	12739.8	14848.9	14771.5	12043.4
65°	1238.0	1195.6	1562.5	2288.9	3574.3	5496.3	9562.3	12692.3	15977.1	16027.1	13179.1
67.5°	654.0	668.9	786.3	1160.7	2061.7	3883.8	7900.0	12135.7	16553.7	16833.3	13453.6
68°	601.5	606.5	698.9	966.0	1789.7	3601.8	7505.6	11973.5	16598.6	16943.1	13301.4
70°	489.2	496.7	529.2	606.5	968.5	2343.8	5790.8	10595.7	15922.2	16236.7	12040.9
72.5°	389.4	411.8	431.8	464.3	569.1	1230.5	3601.8	8256.9	13154.1	13189.1	9372.6
75°	297.0	314.5	354.4	381.9	444.3	676.4	1714.8	5034.5	8631.3	8207.0	5521.2
77.5°	229.6	244.6	262.1	299.5	371.9	456.8	524.2	2136.6	3666.7	3017.7	1560.0
80°	137.3	147.3	204.7	234.6	324.5	309.5	207.2	594.1	743.8	586.6	284.5
82.5°	79.9	87.4	117.3	179.7	227.1	167.2	122.3	184.7	182.2	159.7	94.8
85°	2.5	5.0	64.9	107.3	79.9	44.9	74.9	77.4	64.9	59.9	42.4
87.5°	0.0	2.5	17.5	15.0	17.5	10.0	15.0	20.0	25.0	22.5	17.5
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: P481923

CATALOG NUMBER: IFLD-M-SA4D-722-U-T2R-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1734.7	1734.7	1734.7	1734.7	1734.7	1734.7	1734.7	1734.7	1734.7	1734.7	1734.7
2.5°	1752.2	1697.3	1575.0	1482.6	1382.8	1322.9	1263.0	1225.6	1205.6	1193.1	1203.1
5°	1797.1	1682.3	1485.1	1310.4	1195.6	1118.2	1040.8	1000.9	963.5	943.5	956.0
7.5°	1897.0	1724.8	1397.8	1208.1	1073.3	953.5	856.1	778.8	733.8	693.9	701.4
10°	2019.3	1749.7	1400.3	1148.2	953.5	763.8	626.5	529.2	474.2	439.3	436.8
12.5°	2144.1	1847.1	1410.3	1088.3	806.2	574.1	411.8	339.5	307.0	289.5	289.5
15°	2333.8	1934.4	1385.3	978.4	611.5	374.4	282.1	257.1	244.6	229.6	232.1
17.5°	2498.5	2074.2	1372.8	813.7	419.3	269.6	234.6	207.2	194.7	179.7	179.7
20°	2720.7	2161.6	1305.4	629.0	289.5	224.6	189.7	164.7	144.8	132.3	134.8
22.5°	2922.9	2229.0	1185.6	429.3	222.1	177.2	139.8	114.8	97.3	82.4	84.9
25°	3142.5	2296.4	1010.9	264.6	157.3	109.8	74.9	54.9	37.4	27.5	27.5
27.5°	3299.8	2316.3	783.8	157.3	94.8	49.9	17.5	2.5	0.0	0.0	0.0
30°	3459.5	2323.8	541.6	84.9	37.4	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	3641.7	2321.3	339.5	44.9	2.5	0.0	0.0	0.0	0.0	0.0	0.0
35°	3781.5	2278.9	162.2	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	3993.7	2216.5	49.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4235.8	2104.2	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4452.9	1989.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	4700.0	1847.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5134.3	1787.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	5700.9	1739.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	6050.4	1600.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6232.6	1455.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	6502.2	1385.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	6901.5	1390.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	7525.6	1460.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	7870.0	1390.3	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	7578.0	1113.2	47.4	12.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
68°	7325.9	1023.4	47.4	12.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	6055.4	666.4	44.9	12.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4410.5	369.4	37.4	10.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	2565.9	184.7	27.5	10.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	668.9	92.4	22.5	12.5	7.5	2.5	0.0	0.0	0.0	0.0	0.0
80°	132.3	59.9	20.0	15.0	10.0	5.0	0.0	0.0	0.0	0.0	0.0
82.5°	62.4	42.4	20.0	15.0	12.5	7.5	2.5	0.0	0.0	0.0	0.0
85°	32.4	20.0	20.0	15.0	15.0	10.0	5.0	0.0	0.0	0.0	0.0
87.5°	15.0	7.5	7.5	7.5	7.5	5.0	2.5	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)