

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: P481999

Luminaire Tested: **IFLD-M-SA4B-730-U-T2R-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481999  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-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**

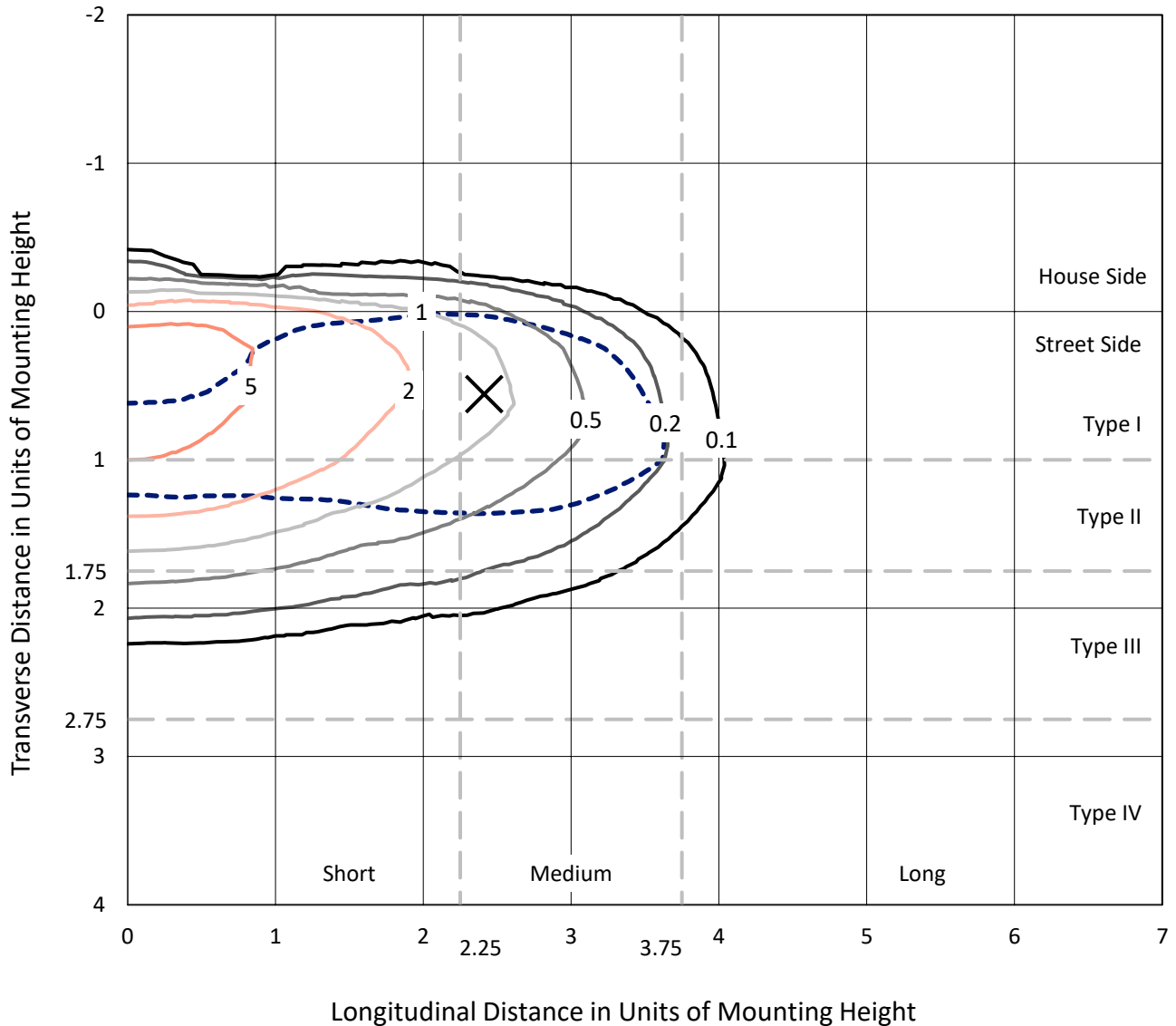
Lumens per Lamp: N/A  
Luminaire Lumens: 16351.2 lumens  
Efficiency: N/A  
Efficacy: 98.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 166.1  
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-SA4B-730-U-T2R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

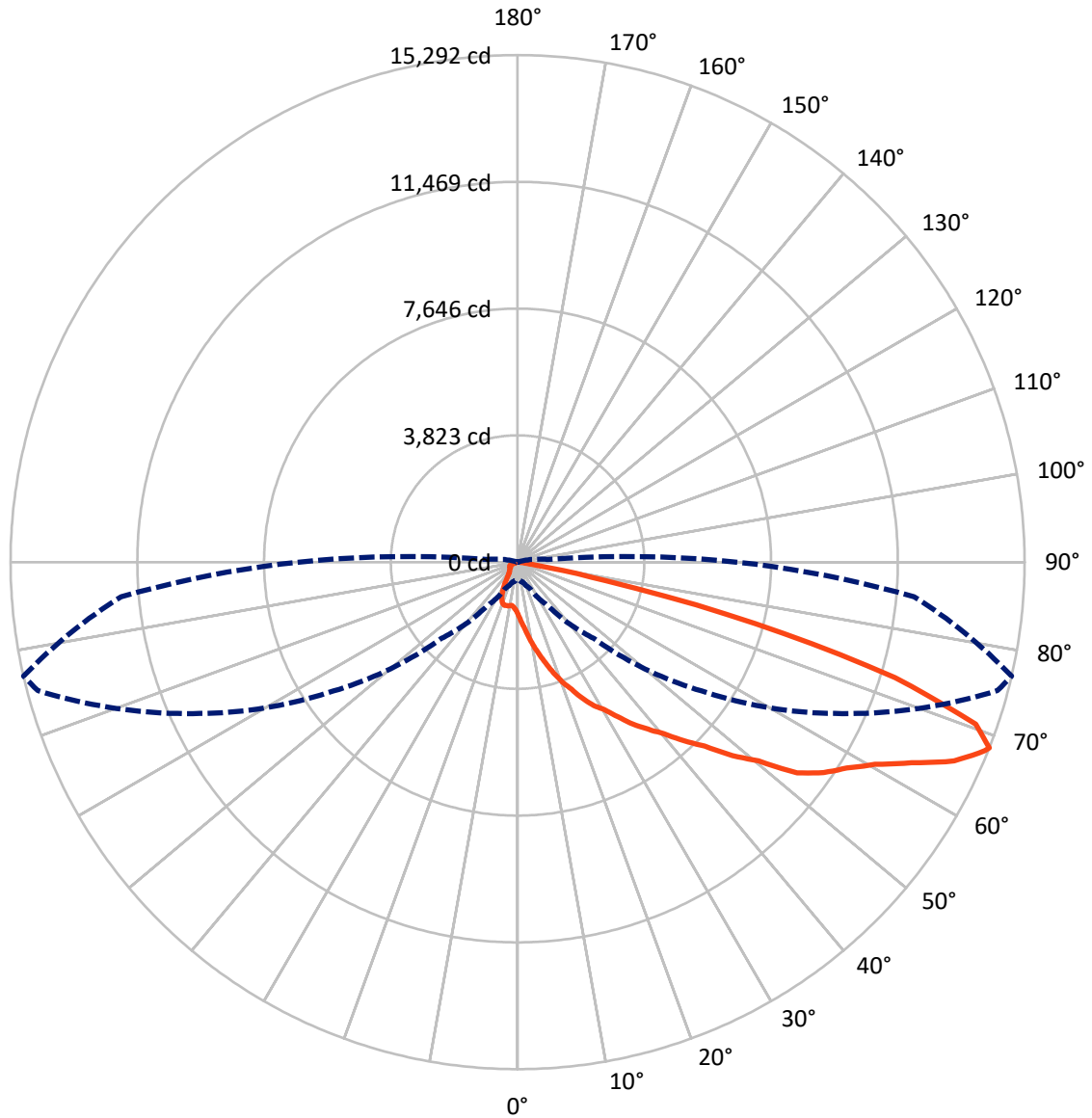
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc  
 Type II - Medium - N/A

REPORT NUMBER: P481999  
CATALOG NUMBER: IFLD-M-SA4B-730-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	741.5	0.0	741.5
	% Fixture	4.5	0.0	4.5
<b>Street Side</b>	Lumens	15609.7	0.0	15609.7
	% Fixture	95.5	0.0	95.5
<b>Total</b>	Lumens	16351.2	0.0	16351.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	182.9	1.1
10°-20°	674.6	4.1
20°-30°	1307.4	8.0
30°-40°	2279.2	13.9
40°-50°	3338.1	20.4
50°-60°	3921.7	24.0
60°-70°	3311.5	20.3
70°-80°	1283.6	7.9
80°-90°	52.2	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°	16351.2	100.0
0°-180°	16351.2	100.0

**Coefficient of Utilization**



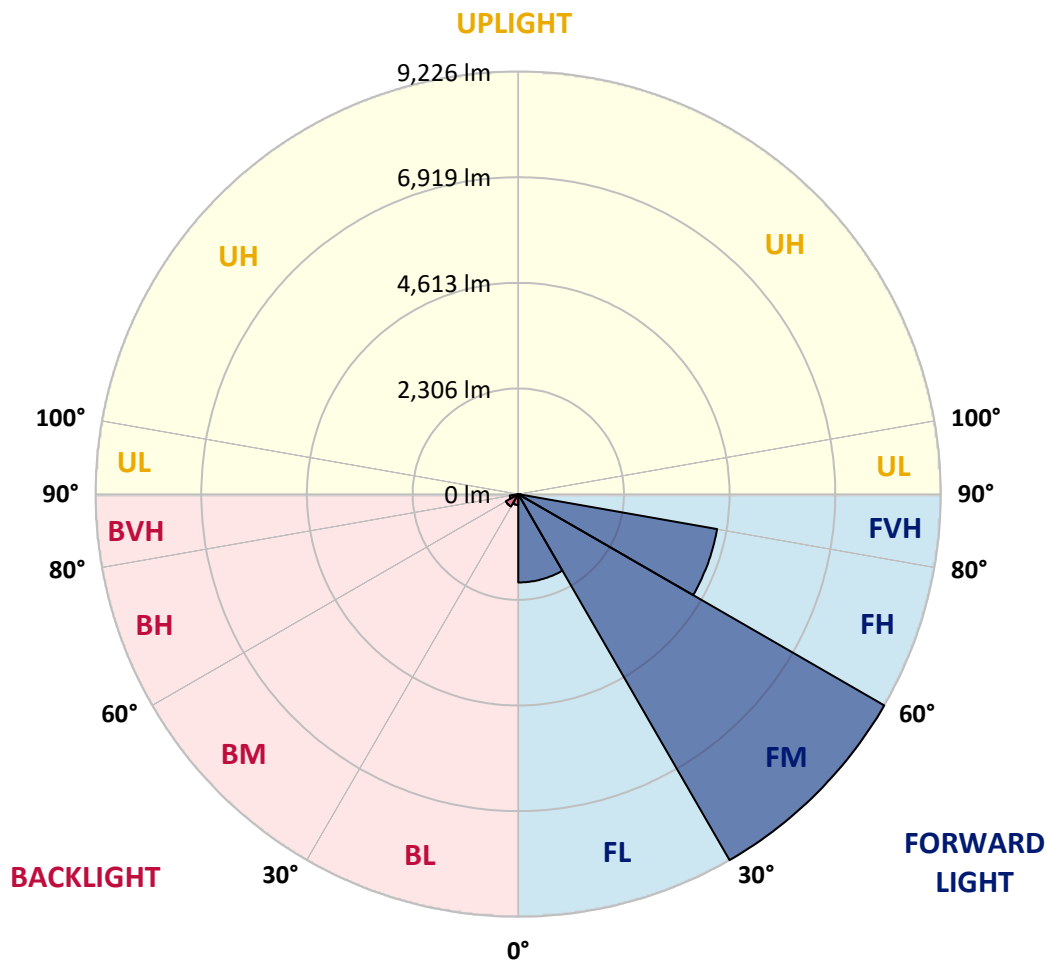
REPORT NUMBER: P481999  
 CATALOG NUMBER: IFLD-M-SA4B-730-U-T2R-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1928.0	11.8			
FM (30°-60°)	9225.7	56.4			
FH (60°-80°)	4408.0	27.0			G2/5000
FVH (80°-90°)	48.2	0.3			G1/100
BL (0°-30°)	236.9	1.4	B1/500		
BM (30°-60°)	313.3	1.9	B1/1000		
BH (60°-80°)	187.2	1.1	B1/500		G1/500
BVH (80°-90°)	4.0	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-G2**

Type II Medium





REPORT NUMBER: P481999

CATALOG NUMBER: IFLD-M-SA4B-730-U-T2R-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1565.7	1565.7	1565.7	1565.7	1565.7	1565.7	1565.7	1565.7	1565.7	1565.7	1565.7
2.5°	2378.9	2333.8	2286.5	2273.0	2185.2	2086.0	1993.7	1903.6	1752.6	1754.9	1651.3
5°	3066.0	3009.7	2971.4	2962.4	2824.9	2653.7	2514.1	2259.5	2009.4	1953.1	1763.9
7.5°	3631.4	3613.4	3557.1	3509.8	3408.4	3198.9	3034.4	2669.5	2288.8	2225.7	1901.3
10°	3973.8	4000.9	4025.6	3964.8	3886.0	3735.0	3509.8	3115.5	2606.4	2527.6	2079.3
12.5°	4338.8	4293.7	4309.5	4359.1	4255.4	4221.6	3942.3	3575.1	2978.1	2827.2	2304.6
15°	4433.4	4451.4	4489.7	4633.9	4703.7	4606.9	4365.8	3946.8	3363.3	3153.8	2514.1
17.5°	4496.5	4487.5	4534.8	4751.0	4856.9	4949.3	4798.3	4361.3	3699.0	3512.0	2775.4
20°	4575.3	4525.8	4629.4	4766.8	5012.3	5206.1	5199.3	4778.1	4050.4	3852.2	3034.4
22.5°	4868.2	4829.9	4913.2	4926.7	5098.0	5368.3	5433.6	5118.2	4410.9	4167.6	3313.8
25°	5408.8	5478.7	5379.5	5293.9	5345.8	5523.7	5571.0	5420.1	4773.6	4550.5	3593.1
27.5°	6199.5	6190.5	5994.5	5884.2	5760.3	5737.7	5771.5	5701.7	5059.7	4899.7	3822.9
30°	7048.8	6974.5	6794.3	6528.4	6255.9	6086.9	6039.6	5967.5	5395.3	5163.3	4050.4
32.5°	7724.6	7765.2	7564.7	7217.8	6765.0	6537.5	6309.9	6231.1	5764.8	5559.8	4311.7
35°	8346.4	8292.3	8132.4	7839.5	7434.0	7066.8	6710.9	6542.0	6208.6	6005.8	4600.1
37.5°	8806.0	8873.5	8569.4	8290.1	7886.8	7582.7	7233.6	6864.1	6665.9	6395.5	4951.5
40°	9240.7	9134.9	8929.9	8673.1	8299.1	8067.1	7837.3	7260.6	7152.5	6803.3	5348.0
42.5°	9164.1	9170.9	9058.3	8851.0	8580.7	8447.8	8368.9	7742.7	7594.0	7371.0	5735.5
45°	8851.0	8878.1	8916.3	8815.0	8837.5	8704.6	8916.3	8296.8	8150.4	7913.9	6181.5
47.5°	8506.3	8551.4	8542.4	8727.1	8936.6	8981.7	9511.1	8911.8	8848.8	8718.1	6798.8
50°	7934.2	7952.2	8125.6	8461.3	8747.4	9218.2	9957.1	9583.2	9680.0	9423.2	7533.2
52.5°	6956.5	7021.8	7467.8	7947.7	8524.4	9337.6	10259.0	10581.1	10826.7	10563.1	8238.3
55°	5719.7	5809.8	6249.1	7147.9	7992.7	9157.4	10533.8	11108.3	11606.1	11207.4	8666.3
57.5°	4602.3	4611.4	5005.6	5933.7	7238.1	8803.7	10673.5	11365.1	12034.1	11714.3	9188.9
60°	3507.5	3471.5	3825.2	4629.4	5967.5	7934.2	10324.3	11495.7	12568.0	12383.3	9817.4
62.5°	2257.2	2200.9	2586.1	3370.1	4660.9	6485.6	9626.0	11498.0	13401.6	13331.7	10869.5
65°	1117.4	1079.1	1410.2	2065.8	3225.9	4960.5	8630.2	11455.2	14419.8	14464.8	11894.5
67.5°	590.2	603.7	709.6	1047.5	1860.8	3505.3	7129.9	10952.8	14940.2	15192.5	12142.3
68°	542.9	547.4	630.8	871.8	1615.2	3250.7	6774.0	10806.4	14980.7	15291.6	12004.9
70°	441.5	448.3	477.6	547.4	874.1	2115.3	5226.4	9562.9	14370.2	14654.1	10867.2
72.5°	351.4	371.7	389.7	419.0	513.6	1110.6	3250.7	7452.1	11871.9	11903.5	8459.0
75°	268.1	283.8	319.9	344.7	401.0	610.5	1547.6	4543.8	7790.0	7407.0	4983.1
77.5°	207.3	220.8	236.5	270.3	335.7	412.3	473.1	1928.3	3309.3	2723.6	1408.0
80°	123.9	132.9	184.7	211.8	292.9	279.3	187.0	536.2	671.3	529.4	256.8
82.5°	72.1	78.8	105.9	162.2	205.0	150.9	110.4	166.7	164.5	144.2	85.6
85°	2.3	4.5	58.6	96.9	72.1	40.5	67.6	69.8	58.6	54.1	38.3
87.5°	0.0	2.3	15.8	13.5	15.8	9.0	13.5	18.0	22.5	20.3	15.8
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°	1565.7	1565.7	1565.7	1565.7	1565.7	1565.7	1565.7	1565.7	1565.7	1565.7	1565.7
2.5°	1581.4	1531.9	1421.5	1338.1	1248.0	1194.0	1139.9	1106.1	1088.1	1076.8	1085.8
5°	1622.0	1518.3	1340.4	1182.7	1079.1	1009.2	939.4	903.3	869.6	851.5	862.8
7.5°	1712.1	1556.6	1261.5	1090.3	968.7	860.5	772.7	702.9	662.3	626.3	633.0
10°	1822.5	1579.2	1263.8	1036.3	860.5	689.3	565.4	477.6	428.0	396.5	394.2
12.5°	1935.1	1667.0	1272.8	982.2	727.6	518.1	371.7	306.4	277.1	261.3	261.3
15°	2106.3	1745.9	1250.3	883.1	551.9	337.9	254.6	232.0	220.8	207.3	209.5
17.5°	2255.0	1872.0	1239.0	734.4	378.5	243.3	211.8	187.0	175.7	162.2	162.2
20°	2455.5	1950.9	1178.2	567.7	261.3	202.7	171.2	148.7	130.7	119.4	121.6
22.5°	2638.0	2011.7	1070.1	387.5	200.5	159.9	126.2	103.6	87.9	74.3	76.6
25°	2836.2	2072.5	912.4	238.8	141.9	99.1	67.6	49.6	33.8	24.8	24.8
27.5°	2978.1	2090.5	707.4	141.9	85.6	45.1	15.8	2.3	0.0	0.0	0.0
30°	3122.3	2097.3	488.8	76.6	33.8	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	3286.7	2095.0	306.4	40.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0
35°	3412.9	2056.8	146.4	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	3604.4	2000.4	45.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3822.9	1899.1	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4018.9	1795.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	4241.9	1667.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	4633.9	1613.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	5145.3	1570.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	5460.6	1444.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	5625.1	1313.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	5868.4	1250.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	6228.8	1254.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	6792.0	1317.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	7102.9	1254.8	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6839.3	1004.7	42.8	11.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0
68°	6611.8	923.6	42.8	11.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	5465.1	601.5	40.5	11.3	4.5	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3980.6	333.4	33.8	9.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	2315.8	166.7	24.8	9.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	603.7	83.4	20.3	11.3	6.8	2.3	0.0	0.0	0.0	0.0	0.0
80°	119.4	54.1	18.0	13.5	9.0	4.5	0.0	0.0	0.0	0.0	0.0
82.5°	56.3	38.3	18.0	13.5	11.3	6.8	2.3	0.0	0.0	0.0	0.0
85°	29.3	18.0	18.0	13.5	13.5	9.0	4.5	0.0	0.0	0.0	0.0
87.5°	13.5	6.8	6.8	6.8	6.8	4.5	2.3	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)