

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: P482079

Luminaire Tested: **IFLD-M-SA4D-740-U-T2R-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P482079  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4D-740-U-T2R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R  
distribution lens with House Side Shield  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

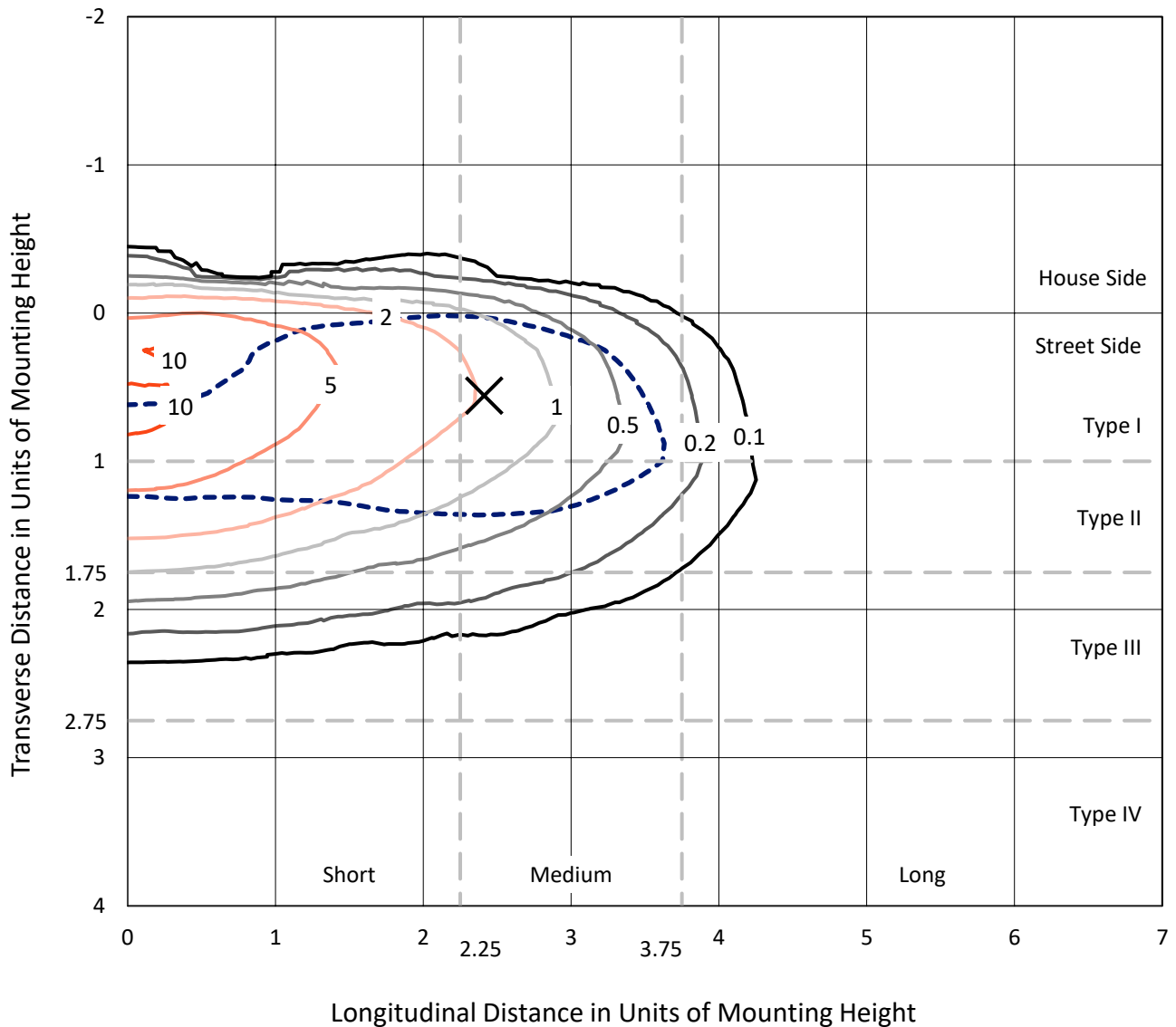
Lumens per Lamp: N/A  
Luminaire Lumens: 24595.7 lumens  
Efficiency: N/A  
Efficacy: 98.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G3

Input Watts (W): 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: P482079  
 CATALOG NUMBER: IFLD-M-SA4D-740-U-T2R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

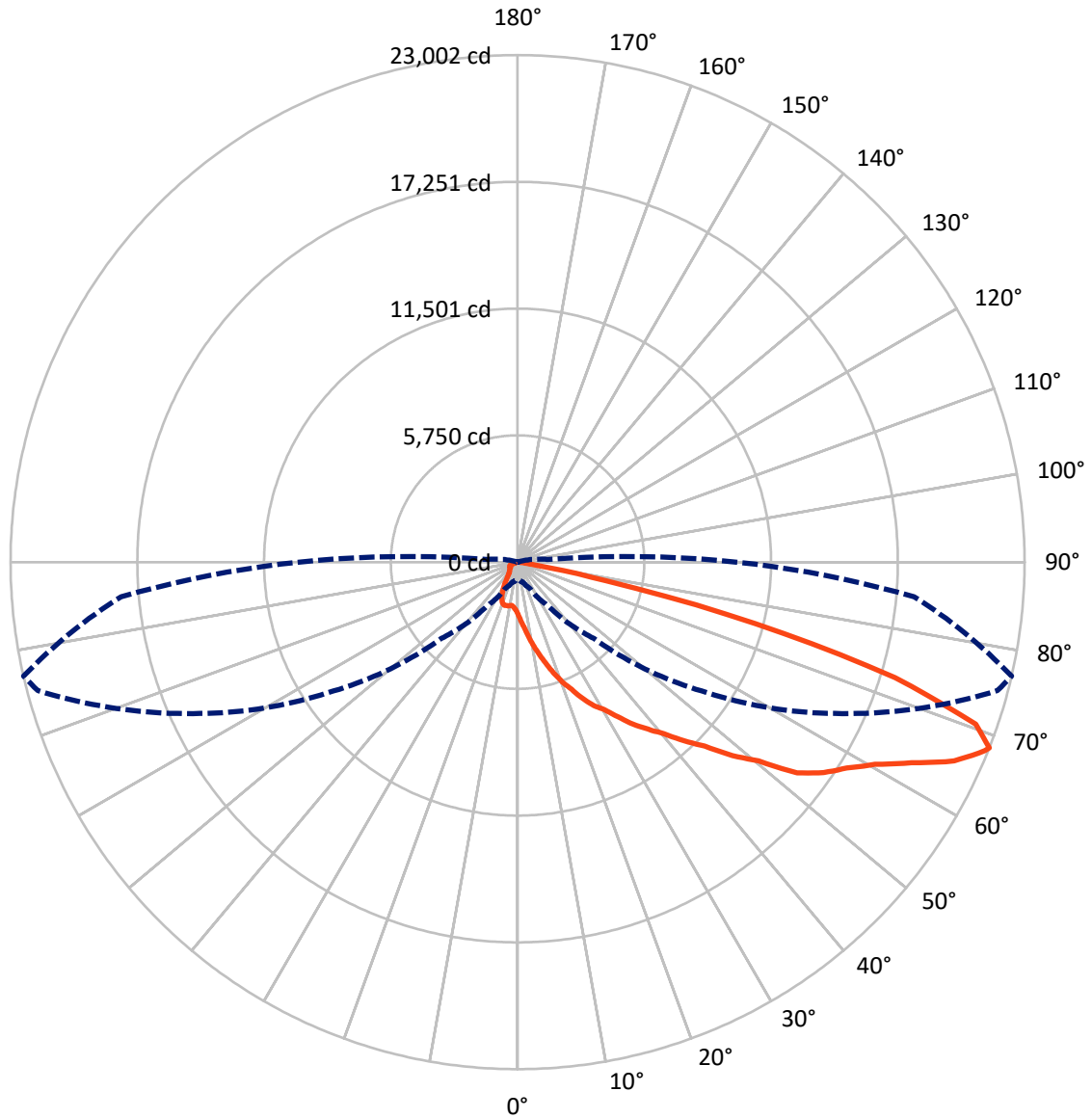
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc  
 Type II - Medium - N/A

REPORT NUMBER: P482079  
CATALOG NUMBER: IFLD-M-SA4D-740-U-T2R-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P482079  
 CATALOG NUMBER: IFLD-M-SA4D-740-U-T2R-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1115.4	0.0	1115.4
	% Fixture	4.5	0.0	4.5
<b>Street Side</b>	Lumens	23480.3	0.0	23480.3
	% Fixture	95.5	0.0	95.5
<b>Total</b>	Lumens	24595.7	0.0	24595.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	275.1	1.1
10°-20°	1014.7	4.1
20°-30°	1966.6	8.0
30°-40°	3428.4	13.9
40°-50°	5021.2	20.4
50°-60°	5899.1	24.0
60°-70°	4981.3	20.3
70°-80°	1930.9	7.9
80°-90°	78.5	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°	24595.7	100.0
0°-180°	24595.7	100.0

**Coefficient of Utilization**

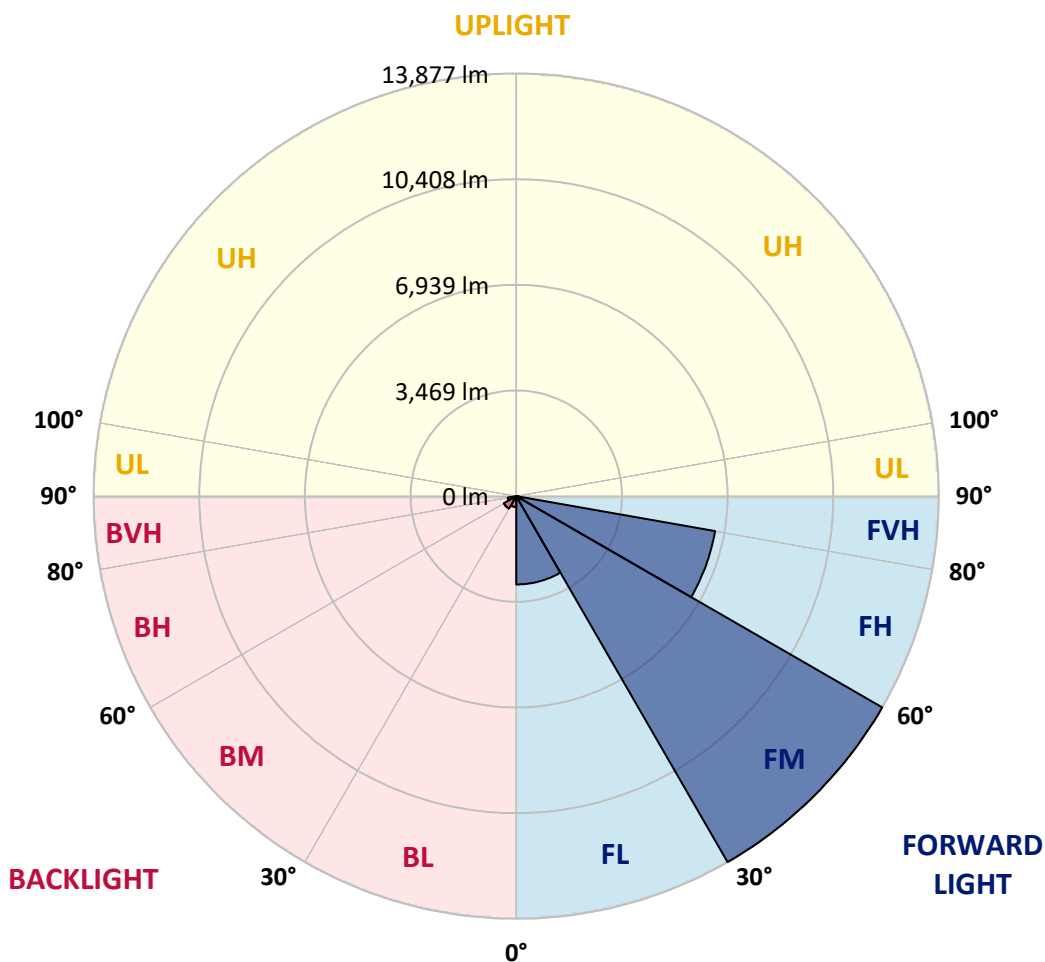


REPORT NUMBER: P482079  
 CATALOG NUMBER: IFLD-M-SA4D-740-U-T2R-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2900.0	11.8			
FM (30°-60°)	13877.3	56.4			
FH (60°-80°)	6630.5	27.0			G3/7500
FVH (80°-90°)	72.4	0.3			G1/100
BL (0°-30°)	356.4	1.4	B1/500		
BM (30°-60°)	471.3	1.9	B1/1000		
BH (60°-80°)	281.6	1.1	B1/500		G1/500
BVH (80°-90°)	6.1	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: P482079

CATALOG NUMBER: IFLD-M-SA4D-740-U-T2R-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2355.1	2355.1	2355.1	2355.1	2355.1	2355.1	2355.1	2355.1	2355.1	2355.1	2355.1
2.5°	3578.4	3510.6	3439.4	3419.1	3286.9	3137.8	2998.9	2863.4	2636.3	2639.7	2483.8
5°	4611.9	4527.2	4469.6	4456.0	4249.3	3991.8	3781.7	3398.8	3022.6	2937.9	2653.3
7.5°	5462.4	5435.3	5350.6	5279.4	5126.9	4811.8	4564.4	4015.5	3442.8	3347.9	2860.0
10°	5977.5	6018.1	6055.4	5963.9	5845.3	5618.3	5279.4	4686.4	3920.6	3802.0	3127.7
12.5°	6526.4	6458.7	6482.4	6556.9	6401.1	6350.2	5930.0	5377.7	4479.7	4252.7	3466.5
15°	6668.7	6695.9	6753.5	6970.3	7075.4	6929.7	6567.1	5936.8	5059.2	4744.0	3781.7
17.5°	6763.6	6750.1	6821.2	7146.5	7305.8	7444.7	7217.7	6560.3	5564.1	5282.8	4174.7
20°	6882.2	6807.7	6963.6	7170.3	7539.6	7831.0	7820.9	7187.2	6092.7	5794.5	4564.4
22.5°	7322.7	7265.1	7390.5	7410.9	7668.4	8075.0	8173.3	7698.9	6634.9	6268.9	4984.6
25°	8136.0	8241.1	8092.0	7963.2	8041.1	8308.8	8380.0	8153.0	7180.4	6845.0	5404.8
27.5°	9325.4	9311.9	9017.0	8851.0	8664.6	8630.7	8681.6	8576.5	7610.8	7370.2	5750.4
30°	10602.9	10491.1	10220.0	9820.1	9410.1	9156.0	9084.8	8976.4	8115.7	7766.7	6092.7
32.5°	11619.5	11680.5	11378.9	10857.0	10175.9	9833.7	9491.4	9372.8	8671.4	8363.0	6485.8
35°	12554.7	12473.4	12232.8	11792.3	11182.4	10630.0	10094.6	9840.5	9339.0	9034.0	6919.5
37.5°	13246.0	13347.7	12890.2	12470.0	11863.5	11406.0	10880.8	10325.0	10026.8	9620.2	7448.1
40°	13900.0	13740.7	13432.4	13046.1	12483.6	12134.5	11788.9	10921.4	10758.8	10233.5	8044.5
42.5°	13784.8	13795.0	13625.5	13313.8	12907.1	12707.2	12588.6	11646.6	11422.9	11087.5	8627.4
45°	13313.8	13354.4	13412.0	13259.6	13293.4	13093.5	13412.0	12480.2	12259.9	11904.1	9298.3
47.5°	12795.3	12863.1	12849.5	13127.4	13442.5	13510.3	14306.6	13405.3	13310.4	13113.9	10226.8
50°	11934.6	11961.7	12222.7	12727.6	13157.9	13866.1	14977.6	14415.1	14560.8	14174.5	11331.5
52.5°	10464.0	10562.2	11233.2	11955.0	12822.4	14045.7	15431.6	15916.2	16285.6	15889.1	12392.1
55°	8603.6	8739.2	9400.0	10752.0	12022.7	13774.6	15845.1	16709.1	17458.0	16858.2	13035.9
57.5°	6922.9	6936.4	7529.5	8925.6	10887.5	13242.6	16055.2	17095.4	18101.9	17620.7	13822.1
60°	5276.0	5221.8	5753.8	6963.6	8976.4	11934.6	15529.9	17292.0	18905.0	18627.1	14767.5
62.5°	3395.4	3310.7	3890.1	5069.3	7011.0	9755.8	14479.5	17295.4	20158.7	20053.7	16350.0
65°	1680.7	1623.1	2121.3	3107.3	4852.5	7461.7	12981.7	17231.0	21690.4	21758.2	17891.8
67.5°	887.8	908.1	1067.4	1575.7	2799.0	5272.6	10724.9	16475.3	22473.1	22852.7	18264.5
68°	816.7	823.4	948.8	1311.4	2429.6	4889.7	10189.5	16255.1	22534.1	23001.8	18057.8
70°	664.2	674.3	718.4	823.4	1314.8	3181.9	7861.5	14384.6	21615.8	22042.8	16346.6
72.5°	528.6	559.1	586.2	630.3	772.6	1670.6	4889.7	11209.5	17857.9	17905.3	12724.2
75°	403.2	427.0	481.2	518.5	603.2	918.3	2328.0	6834.8	11717.8	11141.7	7495.6
77.5°	311.8	332.1	355.8	406.6	504.9	620.1	711.6	2900.6	4977.8	4096.8	2117.9
80°	186.4	199.9	277.9	318.5	440.5	420.2	281.3	806.5	1009.8	796.3	386.3
82.5°	108.4	118.6	159.3	244.0	308.4	227.0	166.0	250.8	247.4	216.9	128.8
85°	3.4	6.8	88.1	145.7	108.4	61.0	101.7	105.0	88.1	81.3	57.6
87.5°	0.0	3.4	23.7	20.3	23.7	13.6	20.3	27.1	33.9	30.5	23.7
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: P482079

CATALOG NUMBER: IFLD-M-SA4D-740-U-T2R-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2355.1	2355.1	2355.1	2355.1	2355.1	2355.1	2355.1	2355.1	2355.1	2355.1	2355.1
2.5°	2378.8	2304.2	2138.2	2012.8	1877.3	1796.0	1714.6	1663.8	1636.7	1619.7	1633.3
5°	2439.8	2283.9	2016.2	1779.0	1623.1	1518.1	1413.0	1358.8	1308.0	1280.9	1297.8
7.5°	2575.3	2341.5	1897.6	1640.1	1457.1	1294.4	1162.3	1057.2	996.2	942.0	952.2
10°	2741.4	2375.4	1901.0	1558.8	1294.4	1036.9	850.5	718.4	643.8	596.4	593.0
12.5°	2910.8	2507.6	1914.6	1477.4	1094.5	779.4	559.1	460.8	416.8	393.1	393.1
15°	3168.3	2626.2	1880.7	1328.3	830.2	508.3	382.9	349.0	332.1	311.8	315.1
17.5°	3392.0	2815.9	1863.7	1104.7	569.3	366.0	318.5	281.3	264.3	244.0	244.0
20°	3693.6	2934.5	1772.2	853.9	393.1	305.0	257.5	223.6	196.5	179.6	183.0
22.5°	3968.0	3026.0	1609.6	582.8	301.6	240.6	189.8	155.9	132.2	111.8	115.2
25°	4266.2	3117.5	1372.4	359.2	213.5	149.1	101.7	74.5	50.8	37.3	37.3
27.5°	4479.7	3144.6	1064.0	213.5	128.8	67.8	23.7	3.4	0.0	0.0	0.0
30°	4696.6	3154.8	735.3	115.2	50.8	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	4944.0	3151.4	460.8	61.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0
35°	5133.7	3093.8	220.3	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	5421.7	3009.1	67.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5750.4	2856.6	13.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	6045.2	2700.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	6380.7	2507.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	6970.3	2426.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	7739.5	2361.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	8213.9	2172.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	8461.3	1975.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	8827.3	1880.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	9369.5	1887.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	10216.6	1982.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	10684.2	1887.4	13.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	10287.8	1511.3	64.4	16.9	3.4	0.0	0.0	0.0	0.0	0.0	0.0
68°	9945.5	1389.3	64.4	16.9	3.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	8220.7	904.8	61.0	16.9	6.8	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5987.6	501.5	50.8	13.6	6.8	0.0	0.0	0.0	0.0	0.0	0.0
75°	3483.5	250.8	37.3	13.6	6.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	908.1	125.4	30.5	16.9	10.2	3.4	0.0	0.0	0.0	0.0	0.0
80°	179.6	81.3	27.1	20.3	13.6	6.8	0.0	0.0	0.0	0.0	0.0
82.5°	84.7	57.6	27.1	20.3	16.9	10.2	3.4	0.0	0.0	0.0	0.0
85°	44.1	27.1	27.1	20.3	20.3	13.6	6.8	0.0	0.0	0.0	0.0
87.5°	20.3	10.2	10.2	10.2	10.2	6.8	3.4	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)