

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: P482123

Luminaire Tested: **IFLD-L-SA7D-750-U-T2R-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P482123  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-750-U-T2R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield  
Light Source: (112) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

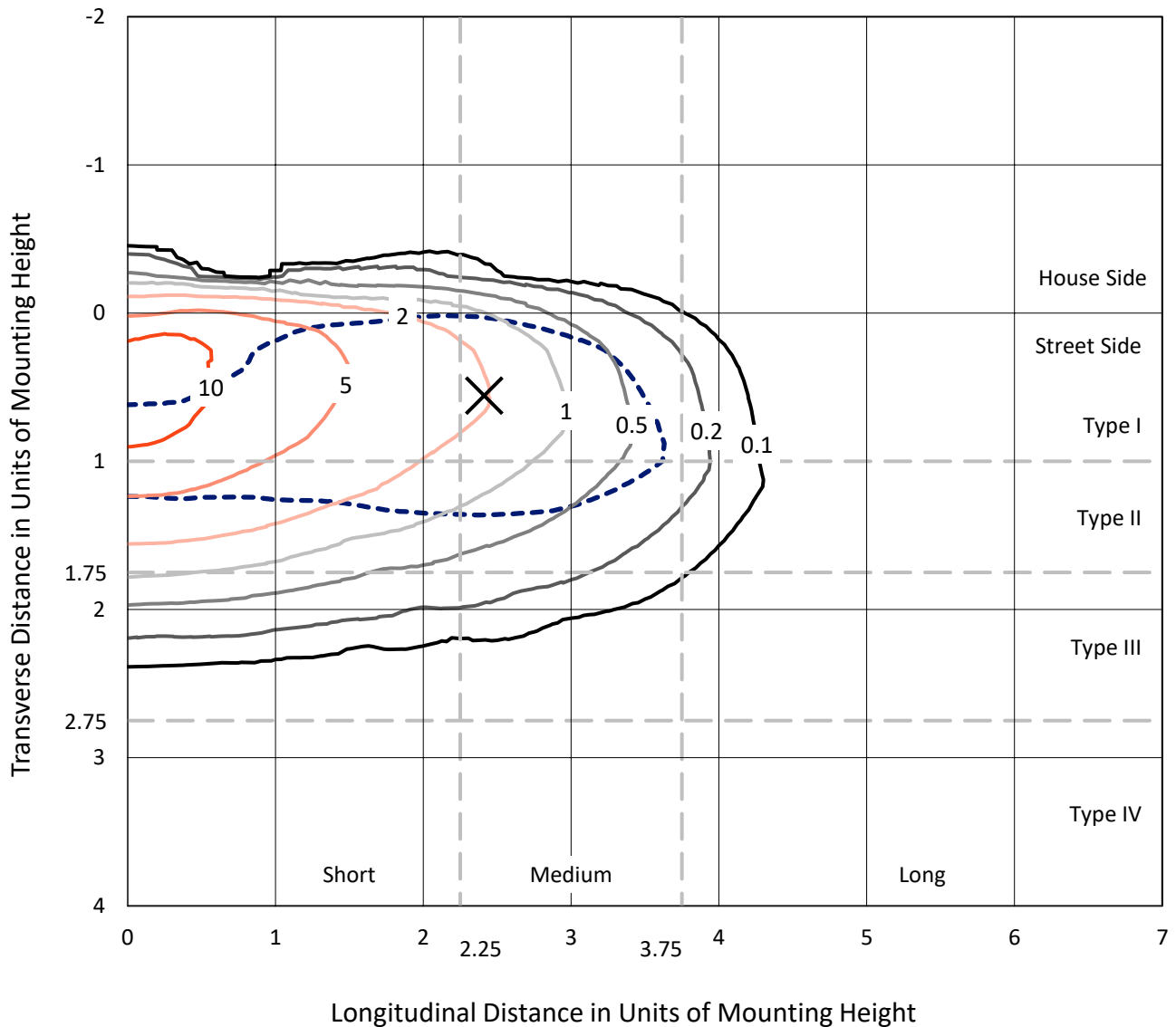
Lumens per Lamp: N/A  
Luminaire Lumens: 39228.7 lumens  
Efficiency: N/A  
Efficacy: 92.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4

Input Watts (W): 422.6  
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: P482123  
 CATALOG NUMBER: IFLD-L-SA7D-750-U-T2R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

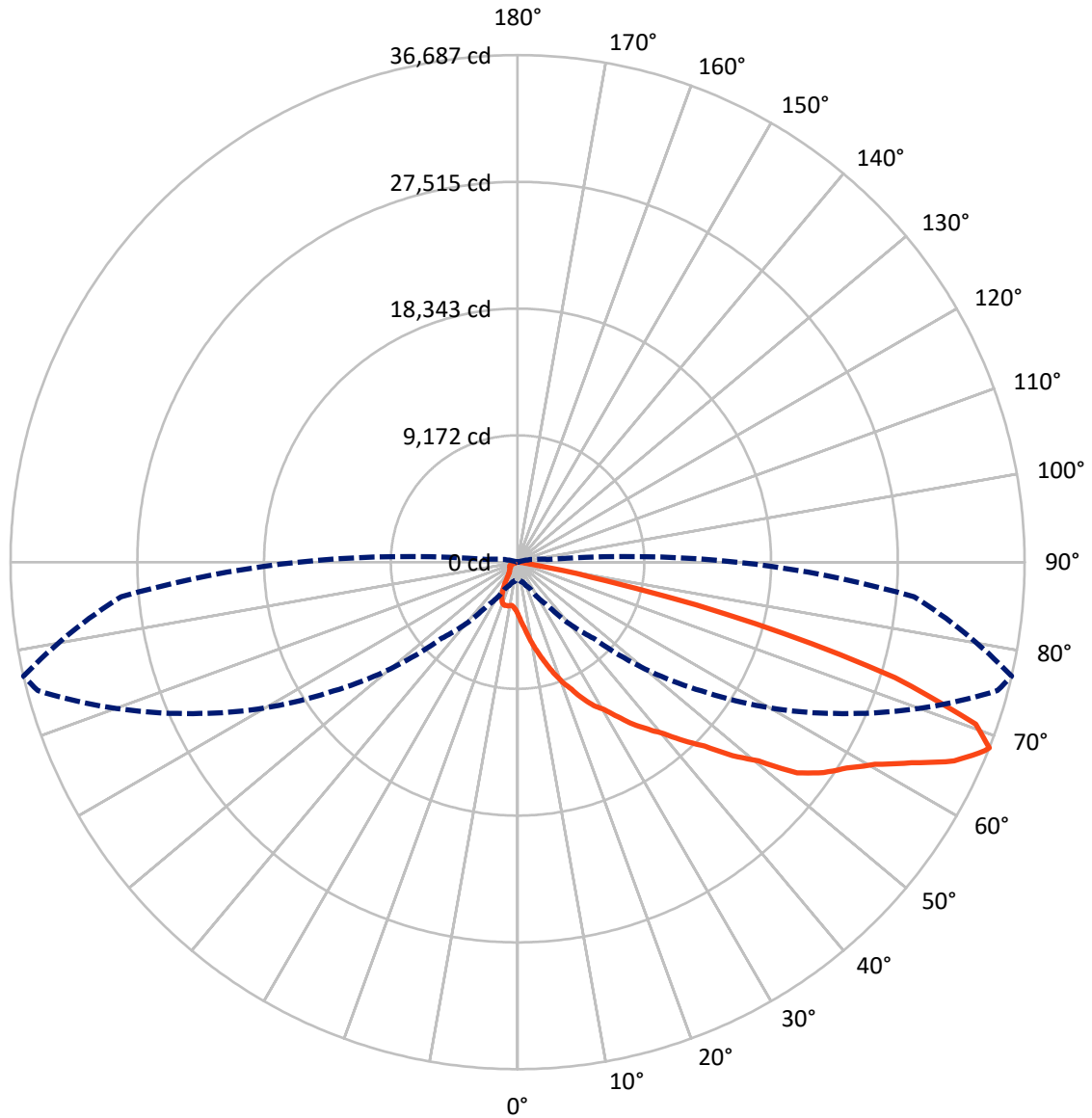
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.3 fc  
 Type II - Medium - N/A

REPORT NUMBER: P482123  
CATALOG NUMBER: IFLD-L-SA7D-750-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	1779.0	0.0	1779.0
	% Fixture	4.5	0.0	4.5
<b>Street Side</b>	Lumens	37449.7	0.0	37449.7
	% Fixture	95.5	0.0	95.5
<b>Total</b>	Lumens	39228.7	0.0	39228.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	438.8	1.1
10°-20°	1618.4	4.1
20°-30°	3136.5	8.0
30°-40°	5468.1	13.9
40°-50°	8008.5	20.4
50°-60°	9408.7	24.0
60°-70°	7944.8	20.3
70°-80°	3079.6	7.9
80°-90°	125.2	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°	39228.7	100.0
0°-180°	39228.7	100.0

**Coefficient of Utilization**



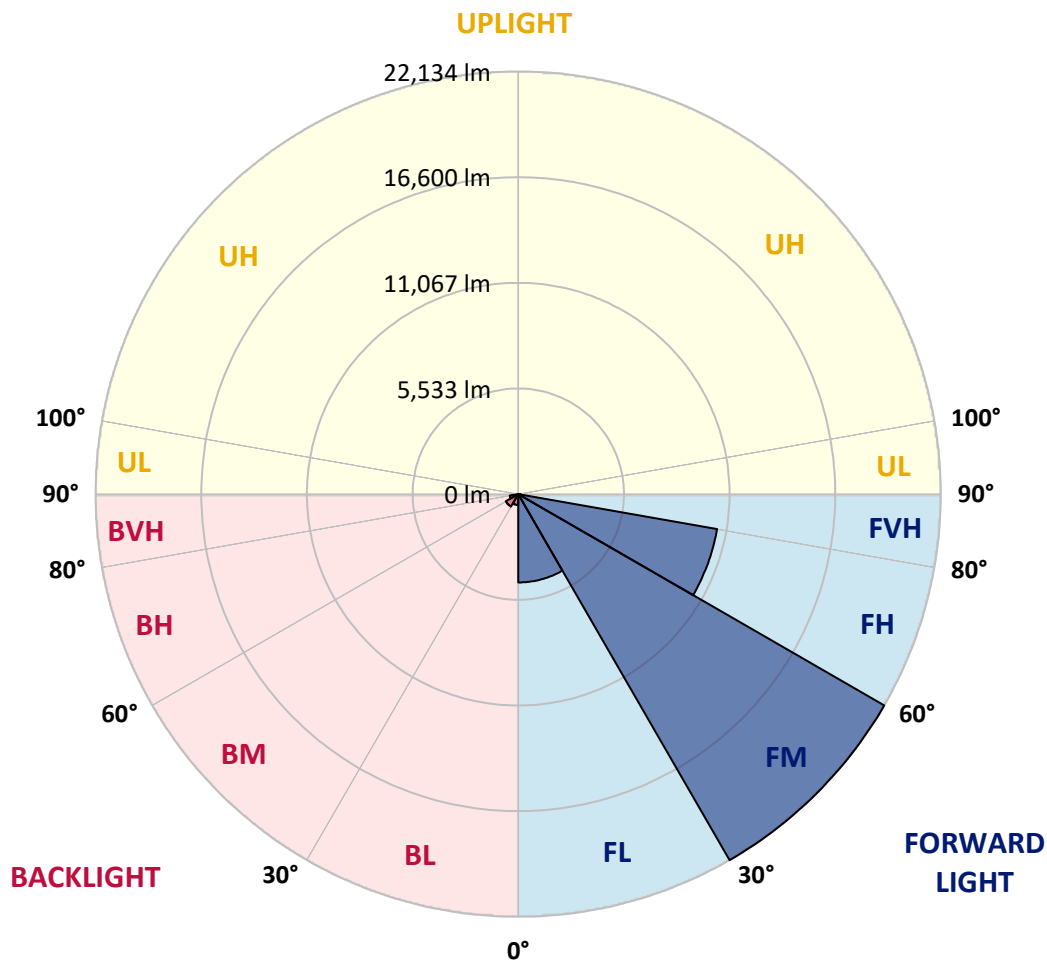
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4625.4	11.8			
FM (30°-60°)	22133.5	56.4			
FH (60°-80°)	10575.3	27.0			G4/12000
FVH (80°-90°)	115.5	0.3			G2/225
BL (0°-30°)	568.4	1.4	B2/1000		
BM (30°-60°)	751.7	1.9	B1/1000		
BH (60°-80°)	449.2	1.1	B1/500		G1/500
BVH (80°-90°)	9.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type II Medium





REPORT NUMBER: P482123

CATALOG NUMBER: IFLD-L-SA7D-750-U-T2R-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3756.2	3756.2	3756.2	3756.2	3756.2	3756.2	3756.2	3756.2	3756.2	3756.2	3756.2
2.5°	5707.3	5599.2	5485.7	5453.3	5242.5	5004.7	4783.1	4566.9	4204.8	4210.2	3961.6
5°	7355.7	7220.6	7128.7	7107.1	6777.4	6366.6	6031.6	5420.8	4820.9	4685.8	4231.8
7.5°	8712.2	8669.0	8533.9	8420.4	8177.2	7674.6	7280.0	6404.5	5491.1	5339.8	4561.5
10°	9533.7	9598.6	9658.0	9512.1	9323.0	8960.9	8420.4	7474.6	6253.1	6064.0	4988.5
12.5°	10409.3	10301.2	10339.0	10457.9	10209.3	10128.2	9458.1	8577.1	7144.9	6782.8	5528.9
15°	10636.3	10679.5	10771.4	11117.3	11284.8	11052.4	10474.1	9468.9	8069.1	7566.5	6031.6
17.5°	10787.6	10766.0	10879.5	11398.3	11652.3	11873.9	11511.8	10463.3	8874.4	8425.8	6658.5
20°	10976.8	10857.9	11106.5	11436.2	12025.3	12490.1	12473.9	11463.2	9717.5	9241.9	7280.0
22.5°	11679.4	11587.5	11787.5	11819.9	12230.6	12879.2	13035.9	12279.3	10582.2	9998.5	7950.2
25°	12976.5	13144.0	12906.2	12700.8	12825.2	13252.1	13365.6	13003.5	11452.4	10917.3	8620.4
27.5°	14873.5	14851.9	14381.7	14116.9	13819.6	13765.6	13846.6	13679.1	12138.8	11755.0	9171.6
30°	16911.0	16732.7	16300.3	15662.6	15008.6	14603.3	14489.8	14316.8	12944.1	12387.4	9717.5
32.5°	18532.4	18629.7	18148.7	17316.4	16230.1	15684.2	15138.3	14949.2	13830.4	13338.6	10344.4
35°	20024.1	19894.4	19510.7	18808.1	17835.2	16954.3	16100.3	15695.0	14895.1	14408.7	11036.2
37.5°	21126.6	21288.8	20559.2	19889.0	18921.6	18191.9	17354.2	16467.9	15992.3	15343.7	11879.3
40°	22169.7	21915.7	21423.9	20807.8	19910.6	19353.9	18802.7	17419.1	17159.7	16321.9	12830.6
42.5°	21986.0	22002.2	21732.0	21234.7	20586.2	20267.3	20078.1	18575.7	18219.0	17683.9	13760.1
45°	21234.7	21299.6	21391.5	21148.3	21202.3	20883.4	21391.5	19905.2	19553.9	18986.4	14830.3
47.5°	20407.8	20515.9	20494.3	20937.5	21440.1	21548.2	22818.3	21380.7	21229.3	20915.9	16311.1
50°	19035.1	19078.3	19494.4	20299.7	20986.1	22115.7	23888.4	22991.2	23223.6	22607.5	18073.0
52.5°	16689.5	16846.2	17916.3	19067.5	20451.1	22402.1	24612.6	25385.5	25974.6	25342.2	19764.7
55°	13722.3	13938.5	14992.4	17148.8	19175.6	21969.8	25272.0	26650.2	27844.6	26888.0	20791.6
57.5°	11041.6	11063.2	12009.1	14235.8	17365.0	21121.2	25607.1	27266.3	28871.5	28104.0	22045.4
60°	8415.0	8328.5	9177.0	11106.5	14316.8	19035.1	24769.3	27579.7	30152.3	29709.2	23553.3
62.5°	5415.4	5280.3	6204.5	8085.3	11182.1	15559.9	23093.9	27585.2	32152.1	31984.5	26077.3
65°	2680.7	2588.8	3383.3	4956.0	7739.4	11901.0	20705.1	27482.5	34594.9	34703.0	28536.4
67.5°	1416.0	1448.4	1702.5	2513.1	4464.2	8409.6	17105.6	26277.2	35843.4	36448.7	29130.9
68°	1302.5	1313.3	1513.3	2091.6	3875.1	7798.9	16251.7	25925.9	35940.7	36686.5	28801.2
70°	1059.3	1075.5	1145.8	1313.3	2097.0	5074.9	12538.7	22942.6	34476.0	35157.0	26071.9
72.5°	843.1	891.8	935.0	1005.3	1232.3	2664.5	7798.9	17878.5	28482.3	28558.0	20294.3
75°	643.1	681.0	767.5	826.9	962.0	1464.7	3713.0	10901.1	18689.2	17770.4	11955.0
77.5°	497.2	529.7	567.5	648.6	805.3	989.0	1135.0	4626.4	7939.4	6534.2	3377.9
80°	297.3	318.9	443.2	508.0	702.6	670.2	448.6	1286.3	1610.6	1270.1	616.1
82.5°	172.9	189.2	254.0	389.1	491.8	362.1	264.8	399.9	394.5	345.9	205.4
85°	5.4	10.8	140.5	232.4	172.9	97.3	162.1	167.5	140.5	129.7	91.9
87.5°	0.0	5.4	37.8	32.4	37.8	21.6	32.4	43.2	54.0	48.6	37.8
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°	3756.2	3756.2	3756.2	3756.2	3756.2	3756.2	3756.2	3756.2	3756.2	3756.2	3756.2
2.5°	3794.0	3675.1	3410.3	3210.3	2994.2	2864.4	2734.7	2653.7	2610.4	2583.4	2605.0
5°	3891.3	3642.7	3215.7	2837.4	2588.8	2421.3	2253.7	2167.3	2086.2	2042.9	2070.0
7.5°	4107.5	3734.6	3026.6	2615.8	2324.0	2064.6	1853.8	1686.2	1589.0	1502.5	1518.7
10°	4372.3	3788.6	3032.0	2486.1	2064.6	1653.8	1356.6	1145.8	1026.9	951.2	945.8
12.5°	4642.6	3999.4	3053.6	2356.4	1745.7	1243.1	891.8	735.0	664.8	626.9	626.9
15°	5053.3	4188.6	2999.6	2118.6	1324.1	810.7	610.7	556.7	529.7	497.2	502.6
17.5°	5410.0	4491.2	2972.5	1761.9	908.0	583.7	508.0	448.6	421.6	389.1	389.1
20°	5891.0	4680.4	2826.6	1362.0	626.9	486.4	410.8	356.7	313.5	286.4	291.8
22.5°	6328.8	4826.3	2567.2	929.6	481.0	383.7	302.7	248.6	210.8	178.4	183.8
25°	6804.4	4972.2	2188.9	572.9	340.5	237.8	162.1	118.9	81.1	59.5	59.5
27.5°	7144.9	5015.5	1697.0	340.5	205.4	108.1	37.8	5.4	0.0	0.0	0.0
30°	7490.8	5031.7	1172.8	183.8	81.1	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	7885.3	5026.3	735.0	97.3	5.4	0.0	0.0	0.0	0.0	0.0	0.0
35°	8188.0	4934.4	351.3	10.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	8647.4	4799.3	108.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	9171.6	4556.1	21.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	9641.8	4307.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	10176.9	3999.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	11117.3	3869.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	12344.1	3767.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	13100.8	3464.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	13495.3	3150.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	14079.0	2999.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	14943.8	3010.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	16294.9	3161.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	17040.8	3010.4	21.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	16408.4	2410.5	102.7	27.0	5.4	0.0	0.0	0.0	0.0	0.0	0.0
68°	15862.5	2215.9	102.7	27.0	5.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	13111.6	1443.0	97.3	27.0	10.8	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	9550.0	799.9	81.1	21.6	10.8	0.0	0.0	0.0	0.0	0.0	0.0
75°	5555.9	399.9	59.5	21.6	10.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1448.4	200.0	48.6	27.0	16.2	5.4	0.0	0.0	0.0	0.0	0.0
80°	286.4	129.7	43.2	32.4	21.6	10.8	0.0	0.0	0.0	0.0	0.0
82.5°	135.1	91.9	43.2	32.4	27.0	16.2	5.4	0.0	0.0	0.0	0.0
85°	70.3	43.2	43.2	32.4	32.4	21.6	10.8	0.0	0.0	0.0	0.0
87.5°	32.4	16.2	16.2	16.2	16.2	10.8	5.4	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)