

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: P482125

Luminaire Tested: **IFLD-L-SA8A-750-U-T2R-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P482125  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-750-U-T2R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield  
Light Source: (128) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

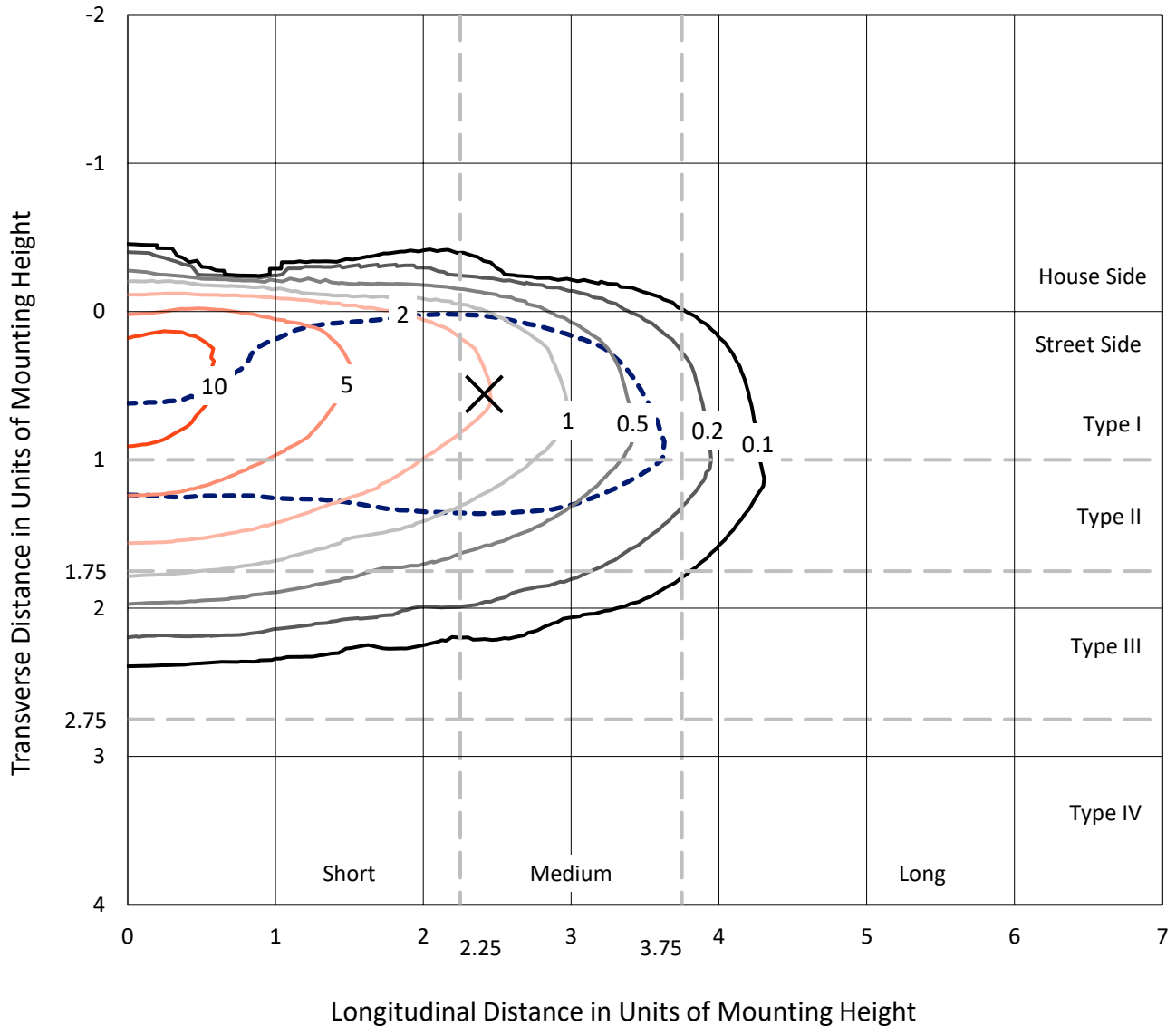
Lumens per Lamp: N/A  
Luminaire Lumens: 27549.3 lumens  
Efficiency: N/A  
Efficacy: 111.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G3

Input Watts (W): 247.8  
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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### Iso-Footcandle Lines of Horizontal Illumination

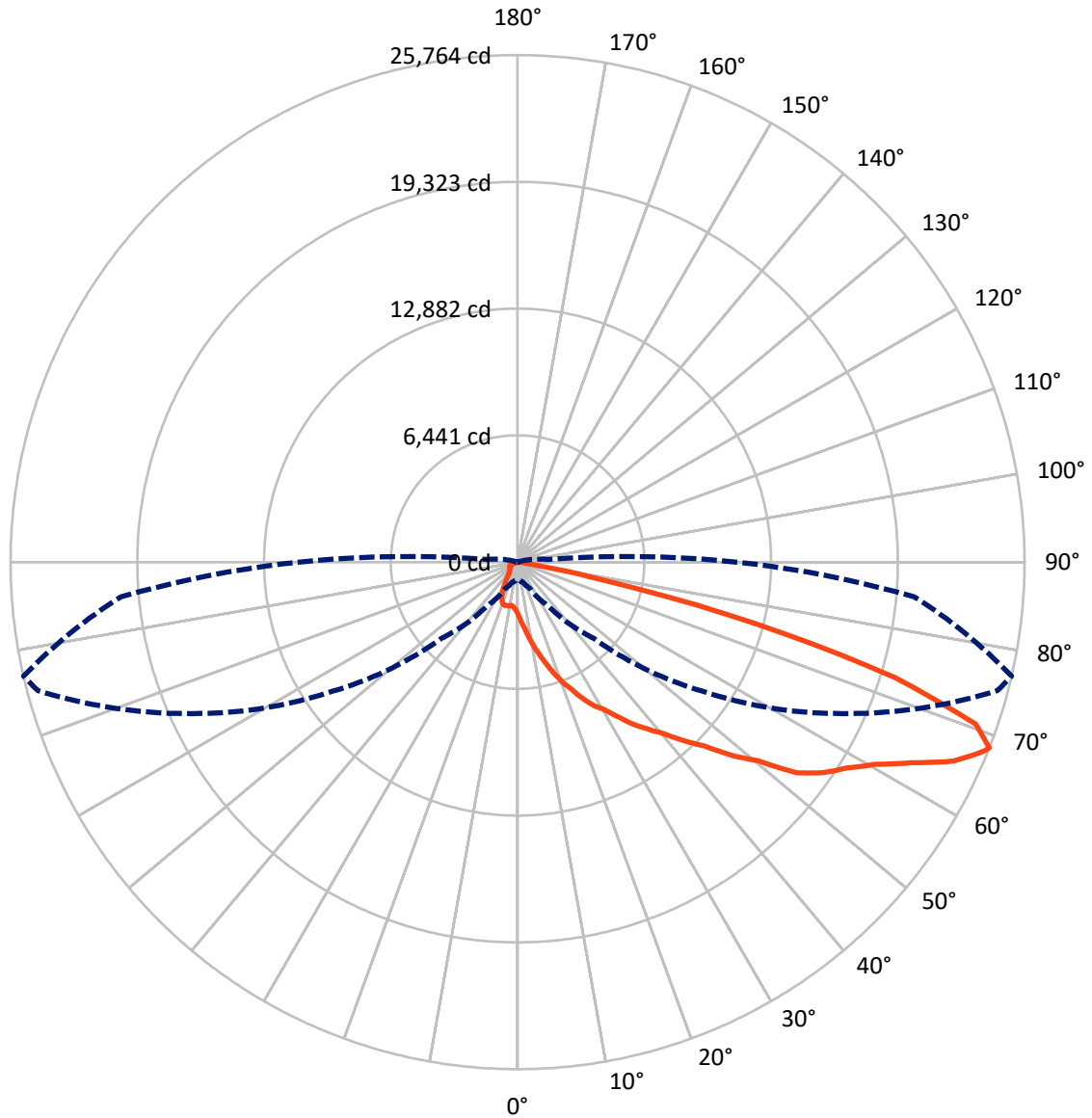
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 fc  
 Type II - Medium - N/A

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### 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	1249.3	0.0	1249.3
	% Fixture	4.5	0.0	4.5
<b>Street Side</b>	Lumens	26299.9	0.0	26299.9
	% Fixture	95.5	0.0	95.5
<b>Total</b>	Lumens	27549.3	0.0	27549.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	308.2	1.1
10°-20°	1136.6	4.1
20°-30°	2202.7	8.0
30°-40°	3840.1	13.9
40°-50°	5624.1	20.4
50°-60°	6607.5	24.0
60°-70°	5579.4	20.3
70°-80°	2162.7	7.9
80°-90°	88.0	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°	27549.3	100.0
0°-180°	27549.3	100.0



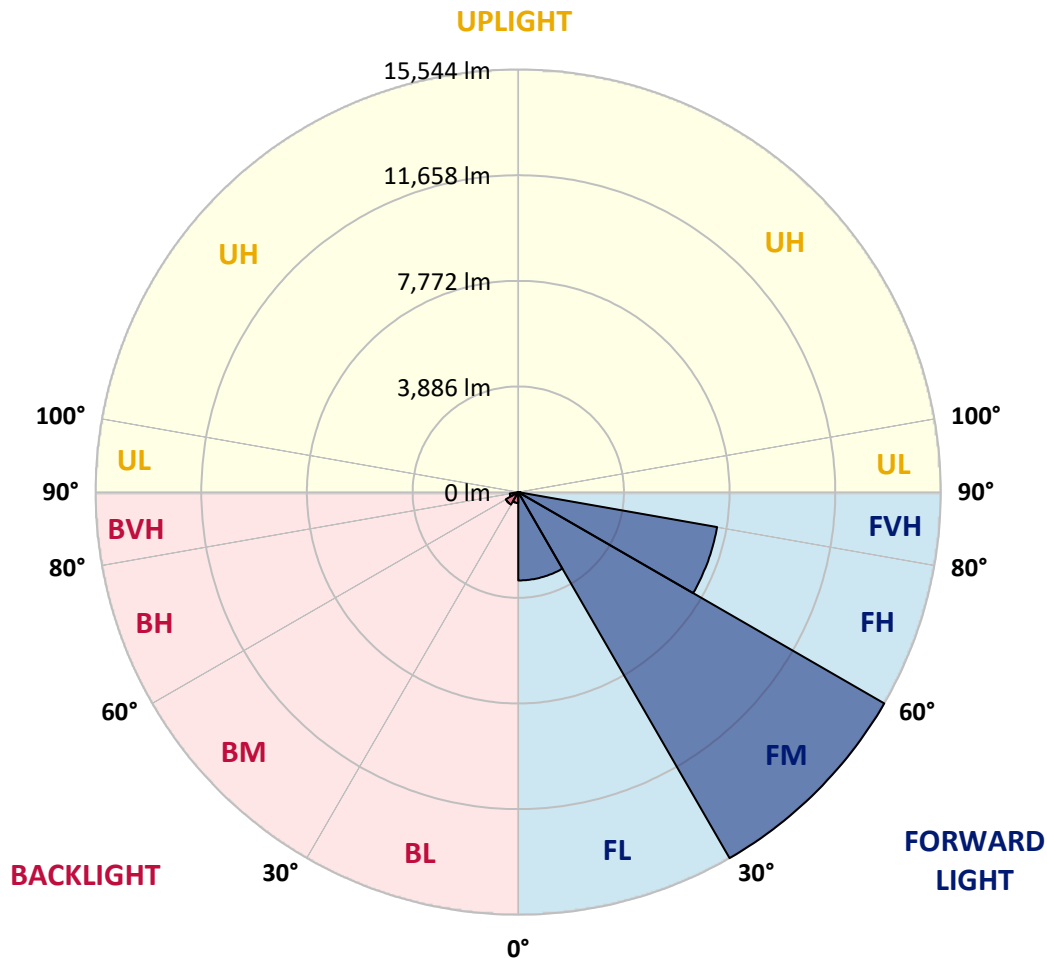
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3248.3	11.8			
FM (30°-60°)	15543.8	56.4			
FH (60°-80°)	7426.7	27.0			G3/7500
FVH (80°-90°)	81.1	0.3			G1/100
BL (0°-30°)	399.2	1.4	B1/500		
BM (30°-60°)	527.9	1.9	B1/1000		
BH (60°-80°)	315.5	1.1	B1/500		G1/500
BVH (80°-90°)	6.8	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2637.9	2637.9	2637.9	2637.9	2637.9	2637.9	2637.9	2637.9	2637.9	2637.9	2637.9
2.5°	4008.1	3932.2	3852.4	3829.7	3681.7	3514.6	3359.0	3207.2	2952.9	2956.7	2782.1
5°	5165.7	5070.8	5006.3	4991.1	4759.6	4471.1	4235.8	3806.9	3385.6	3290.7	2971.9
7.5°	6118.4	6088.0	5993.1	5913.4	5742.6	5389.6	5112.6	4497.7	3856.2	3750.0	3203.4
10°	6695.3	6740.8	6782.6	6680.1	6547.3	6293.0	5913.4	5249.2	4391.4	4258.6	3503.3
12.5°	7310.2	7234.3	7260.8	7344.3	7169.7	7112.8	6642.2	6023.5	5017.7	4763.4	3882.8
15°	7469.6	7499.9	7564.5	7807.4	7925.0	7761.8	7355.7	6649.7	5666.7	5313.7	4235.8
17.5°	7575.9	7560.7	7640.4	8004.7	8183.1	8338.7	8084.5	7348.1	6232.2	5917.2	4676.1
20°	7708.7	7625.2	7799.8	8031.3	8445.0	8771.4	8760.1	8050.3	6824.3	6490.3	5112.6
22.5°	8202.1	8137.6	8278.0	8300.8	8589.3	9044.7	9154.8	8623.4	7431.6	7021.7	5583.2
25°	9113.0	9230.7	9063.7	8919.5	9006.8	9306.6	9386.3	9132.0	8042.7	7666.9	6053.8
27.5°	10445.3	10430.1	10099.9	9913.9	9705.1	9667.2	9724.1	9606.5	8524.7	8255.2	6441.0
30°	11876.2	11750.9	11447.3	10999.4	10540.1	10255.5	10175.8	10054.3	9090.3	8699.3	6824.3
32.5°	13014.8	13083.1	12745.3	12160.8	11397.9	11014.6	10631.2	10498.4	9712.7	9367.3	7264.6
35°	14062.4	13971.3	13701.8	13208.4	12525.2	11906.5	11306.8	11022.2	10460.4	10118.8	7750.4
37.5°	14836.7	14950.5	14438.1	13967.5	13288.1	12775.7	12187.4	11564.9	11230.9	10775.5	8342.5
40°	15569.2	15390.8	15045.4	14612.7	13982.7	13591.7	13204.6	12232.9	12050.8	11462.5	9010.6
42.5°	15440.2	15451.5	15261.8	14912.6	14457.1	14233.2	14100.3	13045.2	12794.7	12418.9	9663.4
45°	14912.6	14958.1	15022.7	14851.9	14889.8	14665.9	15022.7	13978.9	13732.2	13333.6	10414.9
47.5°	14331.9	14407.8	14392.6	14703.8	15056.8	15132.7	16024.7	15015.1	14908.8	14688.6	11454.9
50°	13367.8	13398.2	13690.4	14256.0	14738.0	15531.3	16776.2	16146.1	16309.3	15876.6	12692.2
52.5°	11720.6	11830.6	12582.1	13390.6	14362.2	15732.4	17284.8	17827.5	18241.3	17797.2	13880.2
55°	9636.8	9788.6	10528.8	12043.2	13466.5	15428.8	17747.8	18715.7	19554.5	18882.7	14601.4
57.5°	7754.2	7769.4	8433.6	9997.4	12195.0	14832.9	17983.2	19148.4	20275.6	19736.7	15481.9
60°	5909.6	5848.9	6444.8	7799.8	10054.3	13367.8	17394.9	19368.5	21175.2	20864.0	16540.9
62.5°	3803.1	3708.2	4357.3	5678.1	7852.9	10927.3	16218.2	19372.3	22579.5	22461.9	18313.4
65°	1882.6	1818.1	2376.0	3480.5	5435.2	8357.7	14540.6	19300.2	24295.1	24371.0	20040.3
67.5°	994.4	1017.2	1195.6	1764.9	3135.1	5905.8	12012.8	18453.8	25171.9	25597.0	20457.8
68°	914.7	922.3	1062.7	1468.9	2721.4	5476.9	11413.1	18207.1	25240.2	25764.0	20226.3
70°	743.9	755.3	804.6	922.3	1472.7	3564.0	8805.6	16112.0	24211.6	24689.8	18309.6
72.5°	592.1	626.3	656.6	706.0	865.4	1871.2	5476.9	12555.6	20002.4	20055.5	14252.2
75°	451.7	478.2	539.0	580.7	675.6	1028.6	2607.5	7655.6	13124.9	12479.7	8395.7
77.5°	349.2	372.0	398.5	455.5	565.5	694.6	797.1	3249.0	5575.6	4588.8	2372.2
80°	208.8	223.9	311.2	356.8	493.4	470.6	315.0	903.3	1131.1	891.9	432.7
82.5°	121.5	132.8	178.4	273.3	345.4	254.3	186.0	280.9	277.1	242.9	144.2
85°	3.8	7.6	98.7	163.2	121.5	68.3	113.9	117.7	98.7	91.1	64.5
87.5°	0.0	3.8	26.6	22.8	26.6	15.2	22.8	30.4	38.0	34.2	26.6
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°	2637.9	2637.9	2637.9	2637.9	2637.9	2637.9	2637.9	2637.9	2637.9	2637.9	2637.9
2.5°	2664.5	2581.0	2395.0	2254.5	2102.7	2011.6	1920.5	1863.6	1833.2	1814.3	1829.4
5°	2732.8	2558.2	2258.3	1992.6	1818.1	1700.4	1582.7	1522.0	1465.1	1434.7	1453.7
7.5°	2884.6	2622.7	2125.5	1837.0	1632.1	1449.9	1301.9	1184.2	1115.9	1055.2	1066.5
10°	3070.6	2660.7	2129.3	1745.9	1449.9	1161.4	952.7	804.6	721.1	668.0	664.2
12.5°	3260.3	2808.7	2144.5	1654.8	1226.0	873.0	626.3	516.2	466.8	440.3	440.3
15°	3548.8	2941.5	2106.5	1487.8	929.9	569.3	428.9	390.9	372.0	349.2	353.0
17.5°	3799.3	3154.1	2087.5	1237.3	637.6	409.9	356.8	315.0	296.1	273.3	273.3
20°	4137.1	3286.9	1985.1	956.5	440.3	341.6	288.5	250.5	220.1	201.2	205.0
22.5°	4444.5	3389.4	1802.9	652.8	337.8	269.5	212.5	174.6	148.0	125.3	129.0
25°	4778.6	3491.9	1537.2	402.3	239.1	167.0	113.9	83.5	56.9	41.8	41.8
27.5°	5017.7	3522.2	1191.8	239.1	144.2	75.9	26.6	3.8	0.0	0.0	0.0
30°	5260.6	3533.6	823.6	129.0	56.9	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	5537.7	3529.8	516.2	68.3	3.8	0.0	0.0	0.0	0.0	0.0	0.0
35°	5750.2	3465.3	246.7	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	6072.8	3370.4	75.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	6441.0	3199.6	15.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	6771.2	3025.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	7147.0	2808.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	7807.4	2717.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	8669.0	2645.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	9200.3	2432.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	9477.4	2212.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	9887.3	2106.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	10494.6	2114.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	11443.5	2220.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	11967.3	2114.1	15.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	11523.2	1692.8	72.1	19.0	3.8	0.0	0.0	0.0	0.0	0.0	0.0
68°	11139.8	1556.2	72.1	19.0	3.8	0.0	0.0	0.0	0.0	0.0	0.0
70°	9207.9	1013.4	68.3	19.0	7.6	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	6706.7	561.7	56.9	15.2	7.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	3901.8	280.9	41.8	15.2	7.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1017.2	140.4	34.2	19.0	11.4	3.8	0.0	0.0	0.0	0.0	0.0
80°	201.2	91.1	30.4	22.8	15.2	7.6	0.0	0.0	0.0	0.0	0.0
82.5°	94.9	64.5	30.4	22.8	19.0	11.4	3.8	0.0	0.0	0.0	0.0
85°	49.3	30.4	30.4	22.8	22.8	15.2	7.6	0.0	0.0	0.0	0.0
87.5°	22.8	11.4	11.4	11.4	11.4	7.6	3.8	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)