

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: P482120

Luminaire Tested: **IFLD-L-SA7A-750-U-T2R-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P482120  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7A-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**

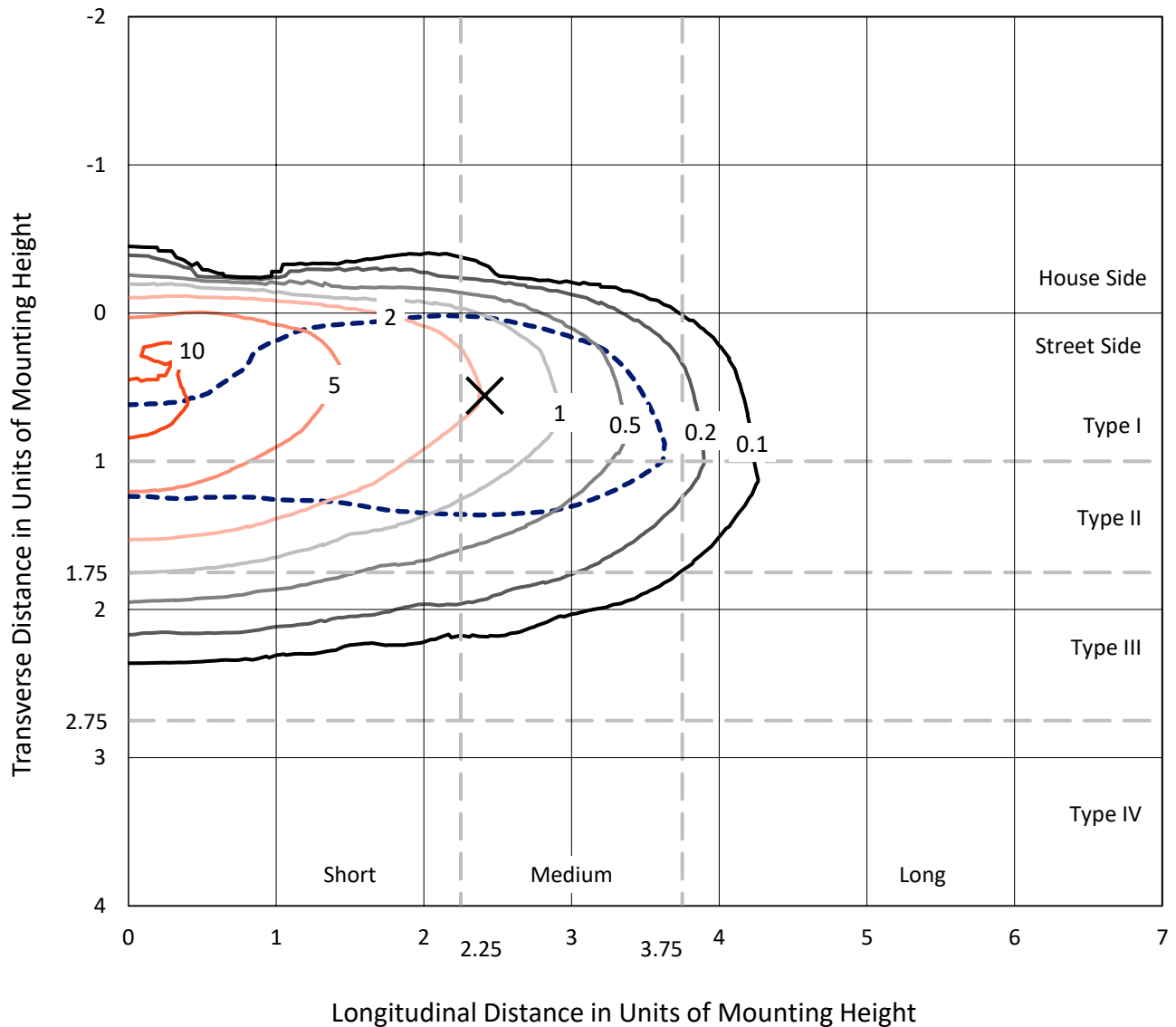
Lumens per Lamp: N/A  
Luminaire Lumens: 25172.2 lumens  
Efficiency: N/A  
Efficacy: 115.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G3

Input Watts (W): 217.6  
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

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### Iso-Footcandle Lines of Horizontal Illumination

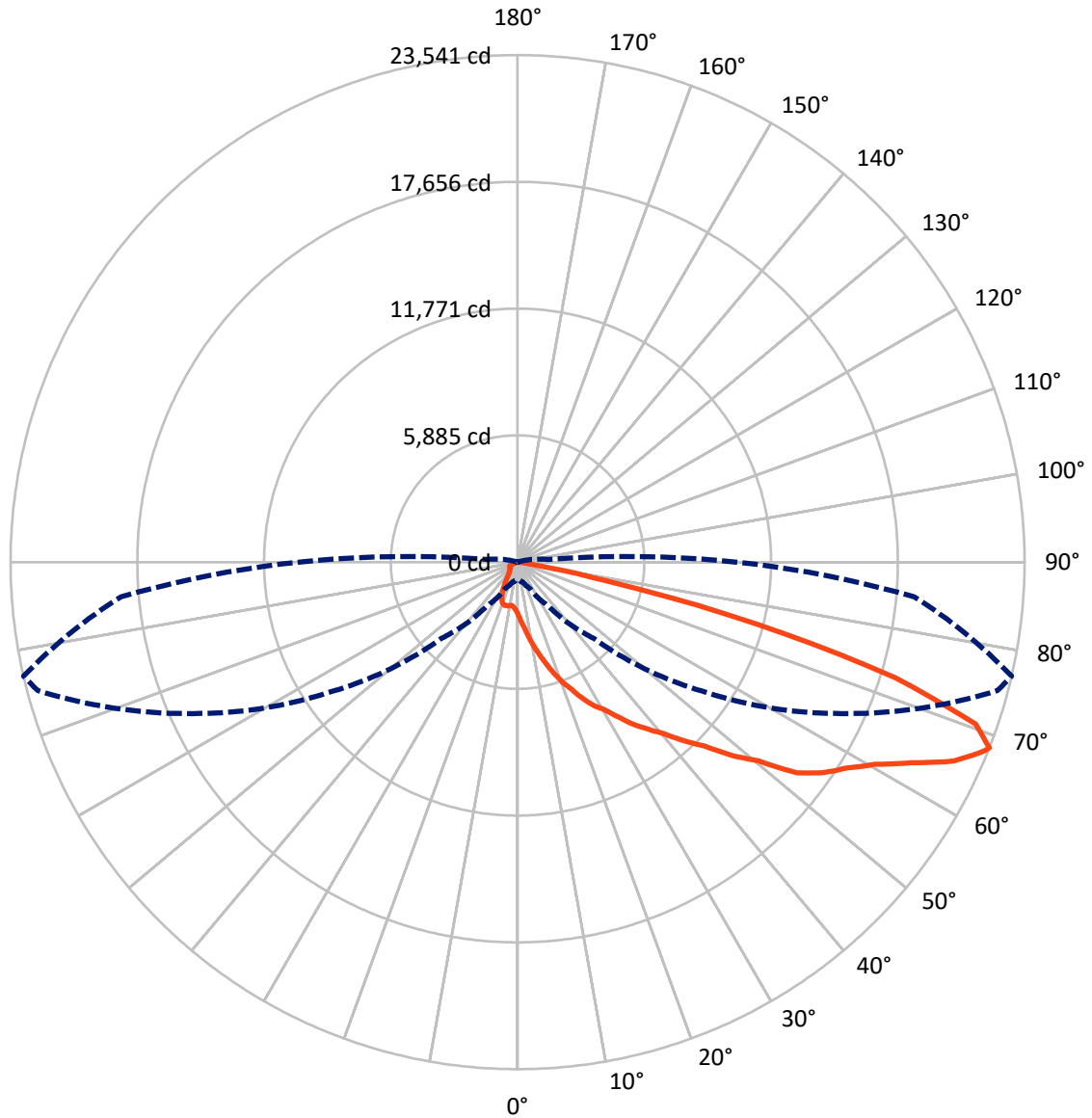
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 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	1141.5	0.0	1141.5
	% Fixture	4.5	0.0	4.5
<b>Street Side</b>	Lumens	24030.7	0.0	24030.7
	% Fixture	95.5	0.0	95.5
<b>Total</b>	Lumens	25172.2	0.0	25172.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	281.6	1.1
10°-20°	1038.5	4.1
20°-30°	2012.7	8.0
30°-40°	3508.7	13.9
40°-50°	5138.9	20.4
50°-60°	6037.4	24.0
60°-70°	5098.0	20.3
70°-80°	1976.1	7.9
80°-90°	80.4	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°	25172.2	100.0
0°-180°	25172.2	100.0

**Coefficient of Utilization**



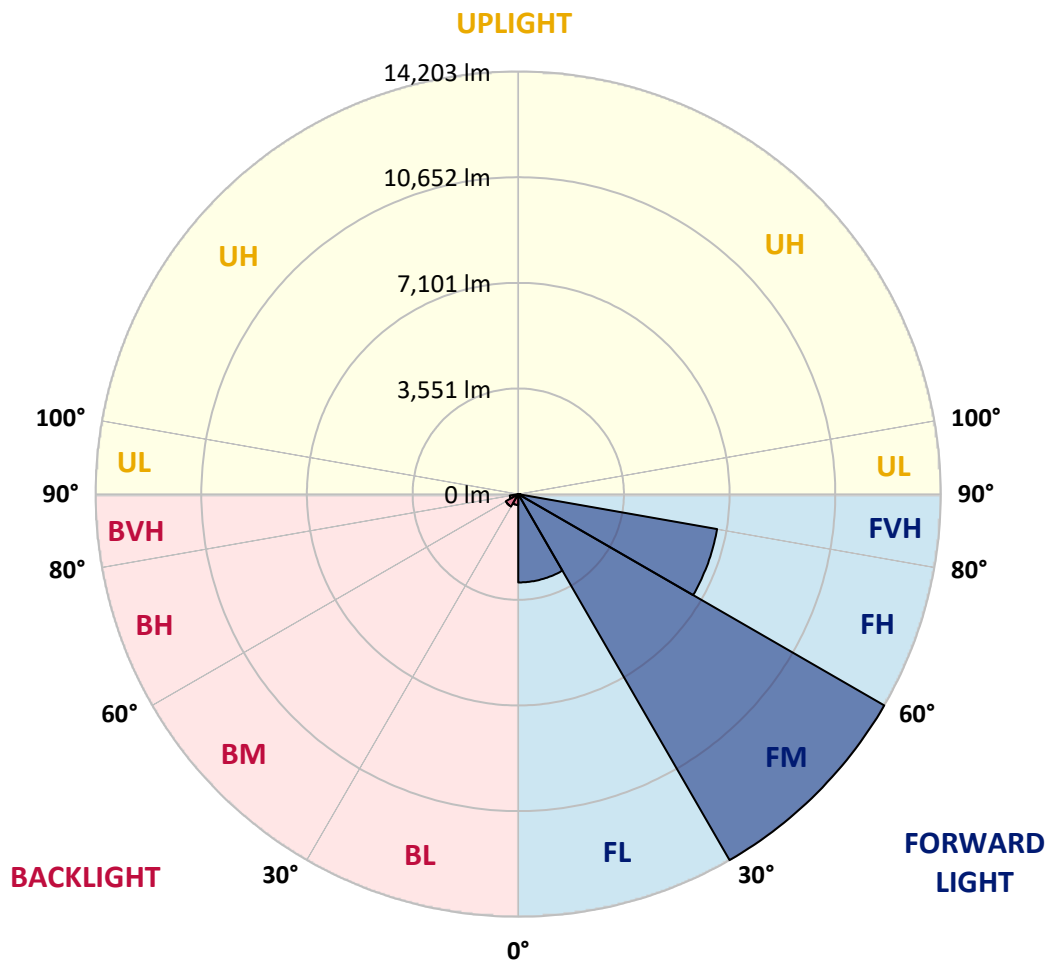
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2968.0	11.8			
FM (30°-60°)	14202.6	56.4			
FH (60°-80°)	6785.9	27.0			G3/7500
FVH (80°-90°)	74.1	0.3			G1/100
BL (0°-30°)	364.7	1.4	B1/500		
BM (30°-60°)	482.4	1.9	B1/1000		
BH (60°-80°)	288.2	1.1	B1/500		G1/500
BVH (80°-90°)	6.2	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°	2410.3	2410.3	2410.3	2410.3	2410.3	2410.3	2410.3	2410.3	2410.3	2410.3	2410.3
2.5°	3662.2	3592.9	3520.1	3499.2	3364.0	3211.4	3069.2	2930.5	2698.1	2701.6	2542.1
5°	4720.0	4633.3	4574.3	4560.5	4348.9	4085.3	3870.3	3478.4	3093.5	3006.8	2715.5
7.5°	5590.5	5562.7	5476.0	5403.2	5247.1	4924.6	4671.4	4109.6	3523.5	3426.4	2927.0
10°	6117.6	6159.2	6197.4	6103.7	5982.4	5750.0	5403.2	4796.3	4012.5	3891.1	3201.0
12.5°	6679.4	6610.1	6634.3	6710.6	6551.1	6499.1	6069.1	5503.8	4584.7	4352.4	3547.8
15°	6825.1	6852.8	6911.8	7133.7	7241.2	7092.1	6721.0	6076.0	5177.8	4855.2	3870.3
17.5°	6922.2	6908.3	6981.1	7314.1	7477.1	7619.3	7386.9	6714.1	5694.5	5406.7	4272.6
20°	7043.6	6967.3	7126.8	7338.4	7716.4	8014.6	8004.2	7355.7	6235.5	5930.3	4671.4
22.5°	7494.4	7435.5	7563.8	7584.6	7848.2	8264.3	8364.9	7879.4	6790.4	6415.9	5101.5
25°	8326.7	8434.2	8281.7	8149.9	8229.6	8503.6	8576.4	8344.1	7348.8	7005.4	5531.5
27.5°	9544.0	9530.1	9228.4	9058.5	8867.8	8833.1	8885.1	8777.6	7789.2	7543.0	5885.2
30°	10851.5	10737.0	10459.6	10050.3	9630.7	9370.6	9297.8	9186.8	8305.9	7948.7	6235.5
32.5°	11891.9	11954.3	11645.6	11111.6	10414.5	10064.2	9714.0	9592.6	8874.7	8559.1	6637.8
35°	12849.0	12765.8	12519.6	12068.7	11444.5	10879.2	10331.3	10071.2	9557.9	9245.8	7081.7
37.5°	13556.5	13660.6	13192.4	12762.3	12141.6	11673.4	11135.8	10567.1	10261.9	9845.7	7622.7
40°	14225.9	14062.9	13747.3	13351.9	12776.2	12419.0	12065.3	11177.5	11011.0	10473.4	8233.1
42.5°	14107.9	14118.3	13944.9	13625.9	13209.7	13005.1	12883.7	11919.6	11690.7	11347.4	8829.6
45°	13625.9	13667.5	13726.5	13570.4	13605.1	13400.5	13726.5	12772.8	12547.3	12183.2	9516.3
47.5°	13095.3	13164.6	13150.8	13435.1	13757.7	13827.0	14642.0	13719.5	13622.4	13421.3	10466.5
50°	12214.4	12242.1	12509.2	13025.9	13466.4	14191.2	15328.7	14753.0	14902.1	14506.8	11597.1
52.5°	10709.3	10809.8	11496.5	12235.2	13123.0	14375.0	15793.4	16289.3	16667.4	16261.6	12682.6
55°	8805.3	8944.0	9620.3	11004.1	12304.6	14097.5	16216.5	17100.9	17867.3	17253.4	13341.5
57.5°	7085.2	7099.1	7706.0	9134.8	11142.8	13553.1	16431.5	17496.2	18526.2	18033.8	14146.1
60°	5399.7	5344.2	5888.7	7126.8	9186.8	12214.4	15894.0	17697.4	19348.1	19063.8	15113.7
62.5°	3475.0	3388.3	3981.3	5188.2	7175.4	9984.5	14818.9	17700.8	20631.3	20523.8	16733.2
65°	1720.1	1661.2	2171.0	3180.2	4966.2	7636.6	13286.0	17634.9	22198.9	22268.2	18311.2
67.5°	908.6	929.4	1092.4	1612.6	2864.6	5396.3	10976.3	16861.6	23000.0	23388.4	18692.7
68°	835.8	842.7	971.0	1342.1	2486.6	5004.4	10428.4	16636.1	23062.4	23541.0	18481.1
70°	679.7	690.1	735.2	842.7	1345.6	3256.5	8045.8	14721.8	22122.6	22559.5	16729.8
72.5°	541.0	572.2	600.0	645.1	790.7	1709.7	5004.4	11472.2	18276.5	18325.1	13022.5
75°	412.7	437.0	492.5	530.6	617.3	939.8	2382.5	6995.0	11992.4	11402.9	7671.3
77.5°	319.1	339.9	364.1	416.2	516.7	634.6	728.3	2968.6	5094.5	4192.8	2167.5
80°	190.7	204.6	284.4	326.0	450.8	430.0	287.8	825.4	1033.5	815.0	395.4
82.5°	111.0	121.4	163.0	249.7	315.6	232.4	169.9	256.6	253.2	222.0	131.8
85°	3.5	6.9	90.2	149.1	111.0	62.4	104.0	107.5	90.2	83.2	59.0
87.5°	0.0	3.5	24.3	20.8	24.3	13.9	20.8	27.7	34.7	31.2	24.3
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°	2410.3	2410.3	2410.3	2410.3	2410.3	2410.3	2410.3	2410.3	2410.3	2410.3	2410.3
2.5°	2434.6	2358.3	2188.3	2060.0	1921.3	1838.1	1754.8	1702.8	1675.1	1657.7	1671.6
5°	2497.0	2337.5	2063.5	1820.7	1661.2	1553.7	1446.2	1390.7	1338.7	1310.9	1328.3
7.5°	2635.7	2396.4	1942.1	1678.5	1491.3	1324.8	1189.5	1082.0	1019.6	964.1	974.5
10°	2805.6	2431.1	1945.6	1595.3	1324.8	1061.2	870.5	735.2	658.9	610.4	606.9
12.5°	2979.0	2566.3	1959.4	1512.1	1120.2	797.6	572.2	471.7	426.6	402.3	402.3
15°	3242.6	2687.7	1924.8	1359.5	849.7	520.2	391.9	357.2	339.9	319.1	322.5
17.5°	3471.5	2881.9	1907.4	1130.6	582.6	374.5	326.0	287.8	270.5	249.7	249.7
20°	3780.2	3003.3	1813.8	873.9	402.3	312.1	263.6	228.9	201.1	183.8	187.3
22.5°	4061.1	3097.0	1647.3	596.5	308.7	246.2	194.2	159.5	135.3	114.4	117.9
25°	4366.2	3190.6	1404.6	367.6	218.5	152.6	104.0	76.3	52.0	38.1	38.1
27.5°	4584.7	3218.3	1089.0	218.5	131.8	69.4	24.3	3.5	0.0	0.0	0.0
30°	4806.7	3228.7	752.6	117.9	52.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	5059.9	3225.3	471.7	62.4	3.5	0.0	0.0	0.0	0.0	0.0	0.0
35°	5254.1	3166.3	225.4	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	5548.8	3079.6	69.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5885.2	2923.5	13.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	6187.0	2764.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	6530.3	2566.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	7133.7	2483.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	7921.0	2417.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	8406.5	2223.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	8659.7	2021.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	9034.2	1924.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	9589.1	1931.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	10456.1	2028.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	10934.7	1931.7	13.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	10528.9	1546.7	65.9	17.3	3.5	0.0	0.0	0.0	0.0	0.0	0.0
68°	10178.7	1421.9	65.9	17.3	3.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	8413.4	926.0	62.4	17.3	6.9	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	6128.0	513.3	52.0	13.9	6.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	3565.1	256.6	38.1	13.9	6.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	929.4	128.3	31.2	17.3	10.4	3.5	0.0	0.0	0.0	0.0	0.0
80°	183.8	83.2	27.7	20.8	13.9	6.9	0.0	0.0	0.0	0.0	0.0
82.5°	86.7	59.0	27.7	20.8	17.3	10.4	3.5	0.0	0.0	0.0	0.0
85°	45.1	27.7	27.7	20.8	20.8	13.9	6.9	0.0	0.0	0.0	0.0
87.5°	20.8	10.4	10.4	10.4	10.4	6.9	3.5	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)