

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: P481847

Luminaire Tested: **IFLD-L-SA7A-830-U-T2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481847  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7A-830-U-T2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield  
Light Source: (112) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

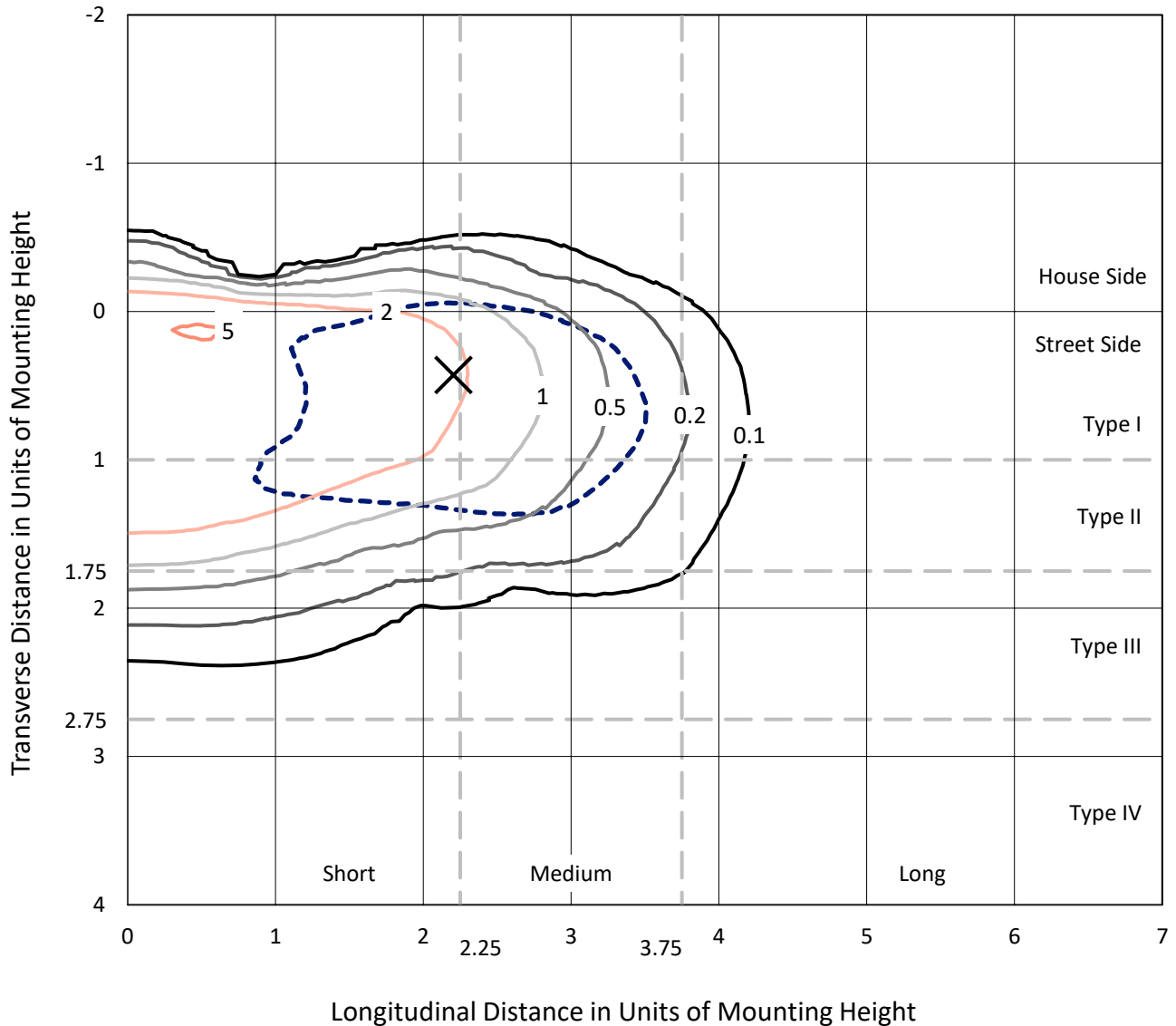
Lumens per Lamp: N/A  
Luminaire Lumens: 17910.8 lumens  
Efficiency: N/A  
Efficacy: 82.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G3

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

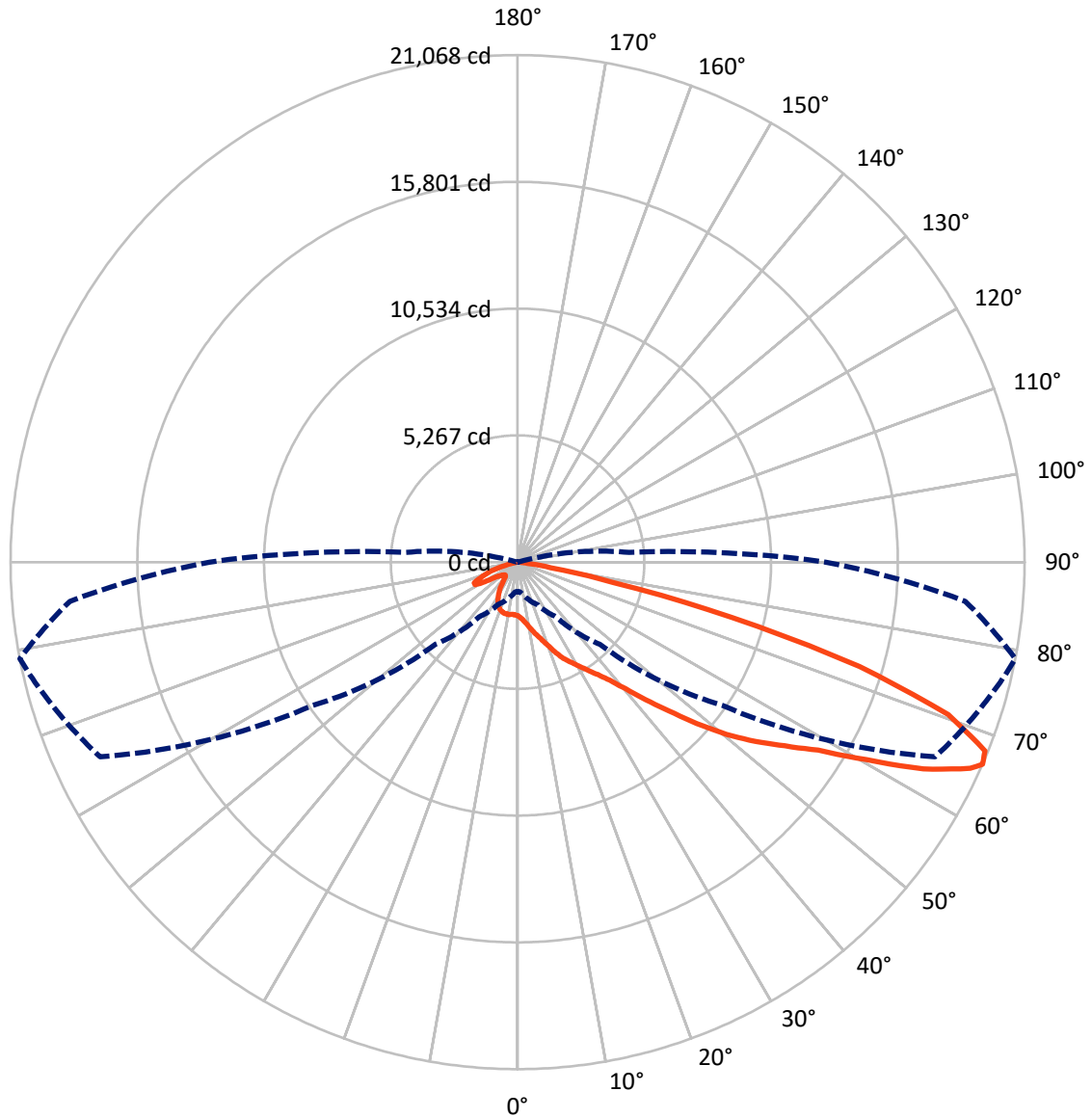
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1344.9	0.0	1344.9
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	16566.0	0.0	16566.0
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	17910.8	0.0	17910.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	210.7	1.2
10°-20°	580.0	3.2
20°-30°	963.5	5.4
30°-40°	1654.9	9.2
40°-50°	2998.1	16.7
50°-60°	4739.1	26.5
60°-70°	4822.4	26.9
70°-80°	1839.0	10.3
80°-90°	103.1	0.6
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°	17910.8	100.0
0°-180°	17910.8	100.0

**Coefficient of Utilization**



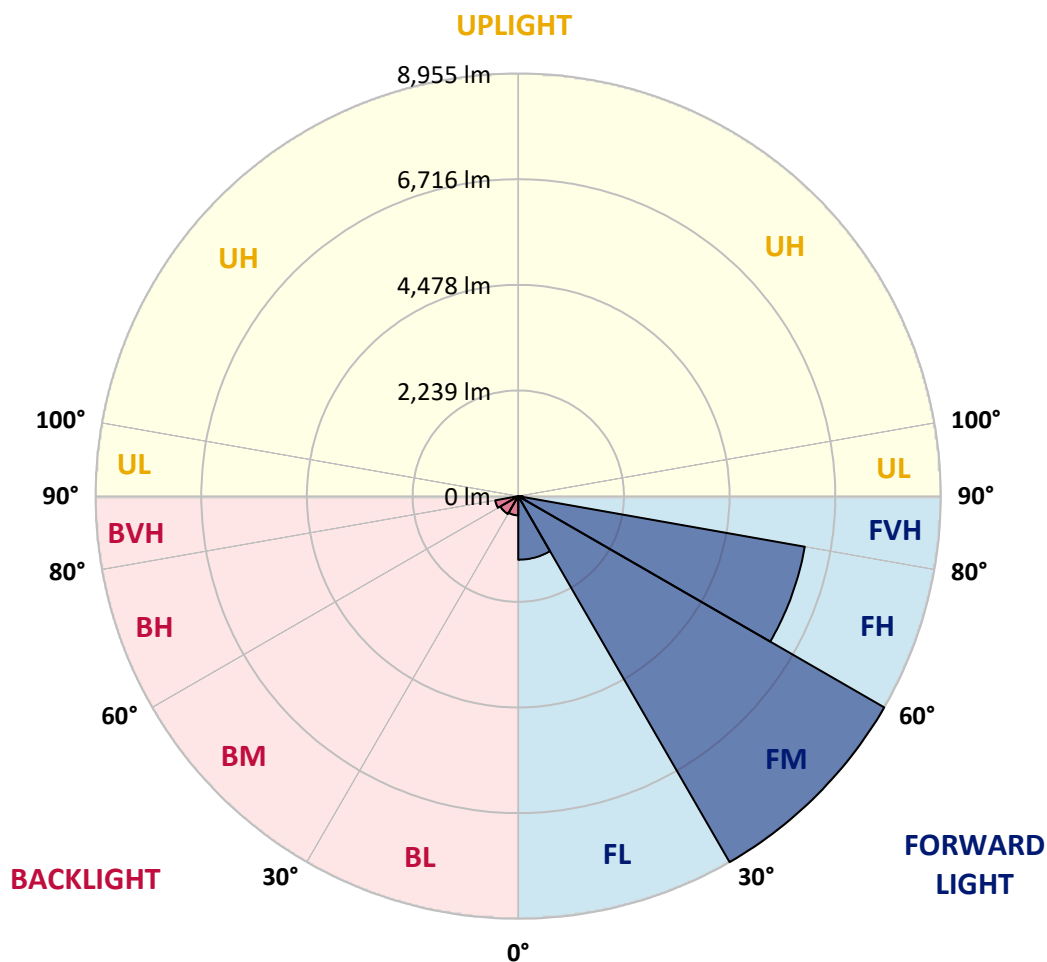
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1347.5	7.5			
FM (30°-60°)	8955.0	50.0			
FH (60°-80°)	6165.7	34.4			G3/7500
FVH (80°-90°)	97.8	0.5			G1/100
BL (0°-30°)	406.7	2.3	B1/500		
BM (30°-60°)	437.1	2.4	B1/1000		
BH (60°-80°)	495.8	2.8	B1/500		G1/500
BVH (80°-90°)	5.3	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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2228.3	2228.3	2228.3	2228.3	2228.3	2228.3	2228.3	2228.3	2228.3	2228.3	2228.3
2.5°	2523.8	2521.0	2510.0	2490.6	2465.8	2457.5	2421.6	2371.9	2344.3	2313.9	2300.1
5°	2697.7	2683.9	2717.1	2703.3	2708.8	2642.5	2598.3	2562.4	2457.5	2416.1	2349.8
7.5°	2736.4	2750.2	2747.4	2769.5	2791.6	2816.5	2786.1	2733.6	2628.7	2568.0	2496.2
10°	2736.4	2730.9	2753.0	2783.3	2846.8	2902.1	2984.9	2915.9	2835.8	2764.0	2634.2
12.5°	2686.7	2678.4	2700.5	2764.0	2877.2	2990.4	3081.5	3147.8	3034.6	2976.6	2808.2
15°	2534.8	2526.5	2617.7	2730.9	2880.0	3065.0	3255.5	3363.2	3285.9	3194.8	3007.0
17.5°	2347.1	2358.1	2454.7	2642.5	2880.0	3100.9	3343.9	3578.6	3567.5	3451.6	3255.5
20°	2283.5	2291.8	2388.5	2523.8	2794.4	3125.7	3481.9	3813.3	3879.5	3741.5	3484.7
22.5°	2405.0	2396.8	2405.0	2487.9	2736.4	3103.6	3573.0	4081.1	4199.9	4092.2	3785.7
25°	2819.2	2813.7	2744.7	2617.7	2703.3	3053.9	3620.0	4257.8	4531.2	4431.8	4028.7
27.5°	3426.7	3404.6	3296.9	3031.8	2857.9	3084.3	3697.3	4429.0	4821.1	4707.9	4246.8
30°	4078.4	4025.9	3885.1	3553.7	3258.3	3197.5	3741.5	4556.1	5144.2	5000.6	4437.3
32.5°	4528.4	4597.5	4553.3	4216.4	3763.6	3459.8	3813.3	4716.2	5442.4	5348.5	4763.1
35°	5224.3	5304.3	5119.3	4821.1	4365.5	3876.8	3965.1	4846.0	5900.8	5743.4	5066.9
37.5°	6102.3	6163.1	6030.6	5464.5	4984.0	4390.4	4277.2	5116.6	6295.6	6221.1	5456.2
40°	6544.1	6836.8	6649.1	6138.2	5621.9	5108.3	4793.5	5434.1	6983.2	6922.4	5994.7
42.5°	7154.4	7300.7	7204.1	6825.8	6287.4	5875.9	5431.4	6052.6	7817.1	7817.1	6723.6
45°	7800.5	7806.0	7800.5	7491.3	7013.6	6800.9	6292.9	6828.6	8714.5	8813.9	7596.2
47.5°	8330.7	8496.3	8482.5	8297.5	7927.5	7847.5	7154.4	7712.2	9841.1	10015.0	8446.6
50°	8604.0	8789.0	8844.3	8940.9	8924.3	9092.8	8096.0	8736.6	10813.0	11241.0	9540.1
52.5°	8529.5	8543.3	8882.9	9264.0	9871.4	10343.6	9230.8	9899.1	11950.7	12373.1	10385.0
55°	7919.2	7866.8	8565.4	9001.7	10258.0	11108.5	10802.0	11348.7	12837.0	13480.4	11257.6
57.5°	6580.0	6593.9	7240.0	8126.3	9970.9	11412.2	12480.8	13242.9	14079.6	14728.5	12483.6
60°	4542.2	4525.7	5249.1	6273.5	8283.7	10846.2	13447.3	15697.7	15741.9	16661.3	14684.3
62.5°	2554.2	2559.7	3109.2	3984.5	5795.9	8863.6	13400.3	18304.3	18116.5	18922.8	17186.0
65°	1446.9	1482.8	1861.1	2360.9	3470.9	5950.5	11525.4	19342.5	19947.2	20665.1	18704.7
66°	1223.2	1248.1	1571.1	1949.4	2769.5	4826.7	10374.0	19140.9	20521.6	21068.3	18674.3
67.5°	947.1	980.2	1250.8	1546.3	2032.3	3341.1	8350.0	18138.6	20626.5	20946.8	18146.9
70°	648.9	671.0	878.1	1173.5	1388.9	1709.2	4992.3	14996.3	18715.7	18986.3	15772.2
72.5°	455.6	466.7	615.8	889.1	1068.6	977.5	2476.8	10669.4	14322.6	14850.0	12268.2
75°	328.6	339.6	422.5	637.8	833.9	640.6	1134.9	6814.8	8783.5	9197.7	7389.1
77.5°	237.5	251.3	287.2	411.4	604.7	450.1	557.8	3559.2	4141.9	4070.1	3178.2
80°	143.6	157.4	212.6	265.1	441.8	317.5	306.5	1485.5	1469.0	1394.4	999.6
82.5°	66.3	77.3	113.2	179.5	309.3	220.9	146.3	530.2	463.9	425.2	281.6
85°	19.3	24.9	66.3	135.3	157.4	107.7	88.4	182.2	190.5	162.9	93.9
87.5°	0.0	2.8	30.4	33.1	46.9	35.9	33.1	46.9	88.4	71.8	30.4
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°	2228.3	2228.3	2228.3	2228.3	2228.3	2228.3	2228.3	2228.3	2228.3	2228.3	2228.3
2.5°	2250.4	2231.1	2184.1	2112.4	2048.8	2015.7	1968.8	1927.3	1905.3	1902.5	1899.7
5°	2305.6	2253.2	2140.0	2010.2	1913.5	1808.6	1736.8	1684.4	1634.7	1587.7	1615.3
7.5°	2380.2	2297.4	2112.4	1943.9	1734.1	1598.8	1471.7	1397.2	1353.0	1311.6	1306.1
10°	2496.2	2391.2	2093.0	1789.3	1549.1	1350.2	1220.5	1112.8	1052.0	980.2	1007.9
12.5°	2653.6	2465.8	2021.2	1648.5	1339.2	1129.3	944.3	770.4	673.7	599.2	602.0
15°	2810.9	2565.2	1955.0	1477.3	1148.7	872.6	602.0	483.2	455.6	439.0	444.6
17.5°	2965.6	2645.3	1852.8	1303.3	930.5	555.0	439.0	414.2	400.4	383.8	383.8
20°	3153.3	2697.7	1725.8	1143.2	640.6	411.4	375.5	359.0	336.9	314.8	317.5
22.5°	3335.6	2741.9	1579.4	938.8	430.8	356.2	314.8	292.7	273.4	251.3	251.3
25°	3517.8	2755.7	1388.9	673.7	347.9	284.4	245.8	215.4	196.0	176.7	179.5
27.5°	3642.1	2670.1	1209.4	430.8	278.9	215.4	171.2	146.3	129.8	110.4	110.4
30°	3713.9	2512.7	1016.1	303.7	209.9	146.3	102.2	77.3	60.7	46.9	44.2
32.5°	3785.7	2385.7	798.0	231.9	138.1	77.3	38.7	13.8	0.0	0.0	0.0
35°	3929.3	2242.1	535.7	129.8	46.9	2.8	0.0	0.0	0.0	0.0	0.0
37.5°	4020.4	2043.3	245.8	19.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4249.6	1943.9	60.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4622.3	1874.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	5031.0	1847.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5575.0	1921.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	6149.3	2123.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	6778.9	2313.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	7328.3	2543.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	8339.0	3084.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	10153.1	4147.4	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	12196.4	4937.1	30.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	12944.7	4917.8	52.5	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	12812.2	4647.2	52.5	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	12124.6	4128.1	46.9	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	10412.7	3410.1	46.9	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	7938.6	2656.3	44.2	11.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0
75°	4790.8	1413.8	35.9	13.8	5.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1908.0	497.0	27.6	11.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	516.4	149.1	16.6	11.0	8.3	2.8	0.0	0.0	0.0	0.0	0.0
82.5°	135.3	55.2	13.8	11.0	5.5	2.8	0.0	0.0	0.0	0.0	0.0
85°	52.5	22.1	11.0	8.3	8.3	5.5	2.8	0.0	0.0	0.0	0.0
87.5°	16.6	8.3	8.3	5.5	5.5	2.8	2.8	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)