

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: P482703

Luminaire Tested: **IFLD-M-SA4D-722-U-T3R-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482703  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4D-722-U-T3R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R  
distribution lens with House Side Shield  
Light Source: (64) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

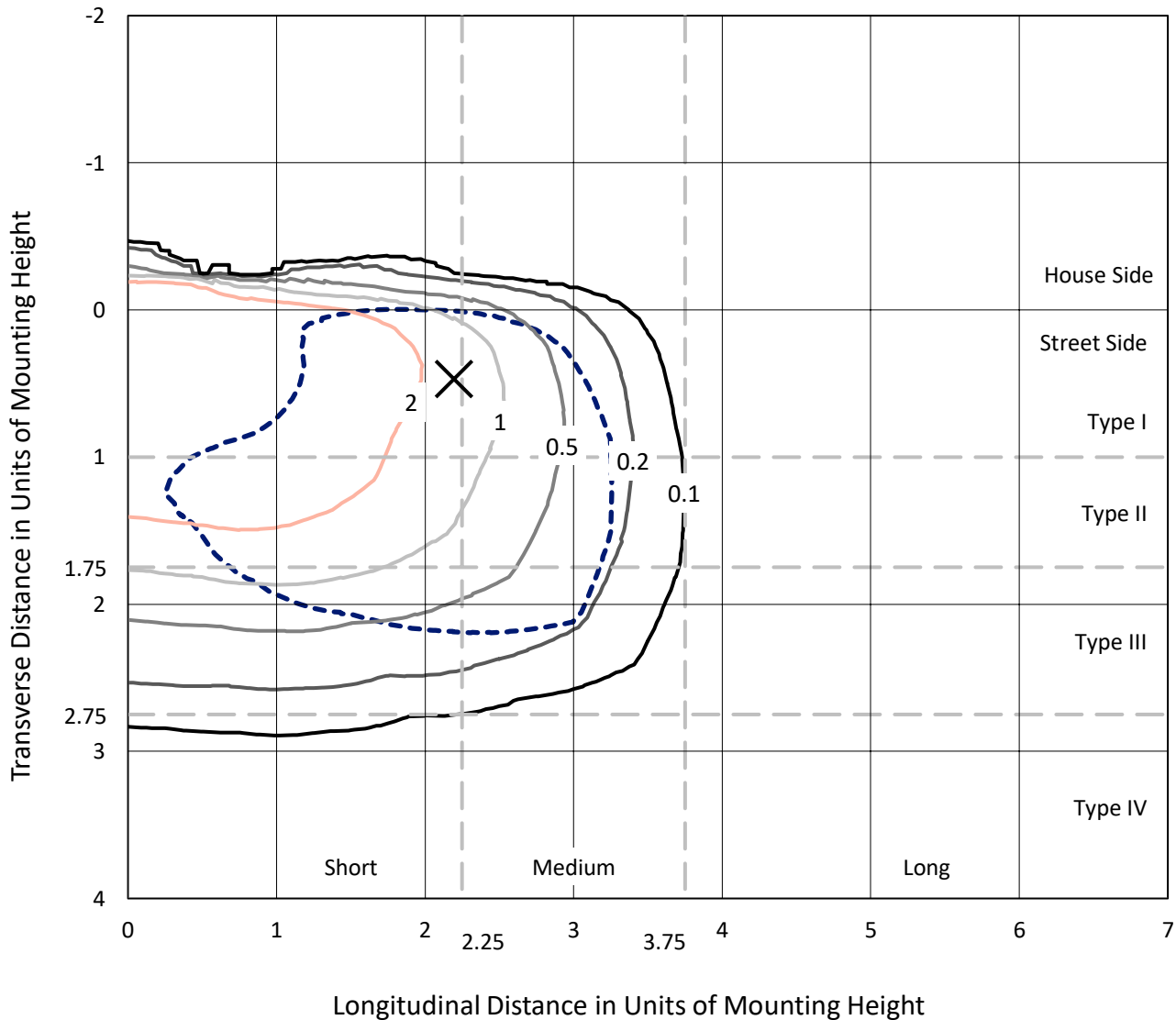
Lumens per Lamp: N/A  
Luminaire Lumens: 16518.2 lumens  
Efficiency: N/A  
Efficacy: 66.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 249.7  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

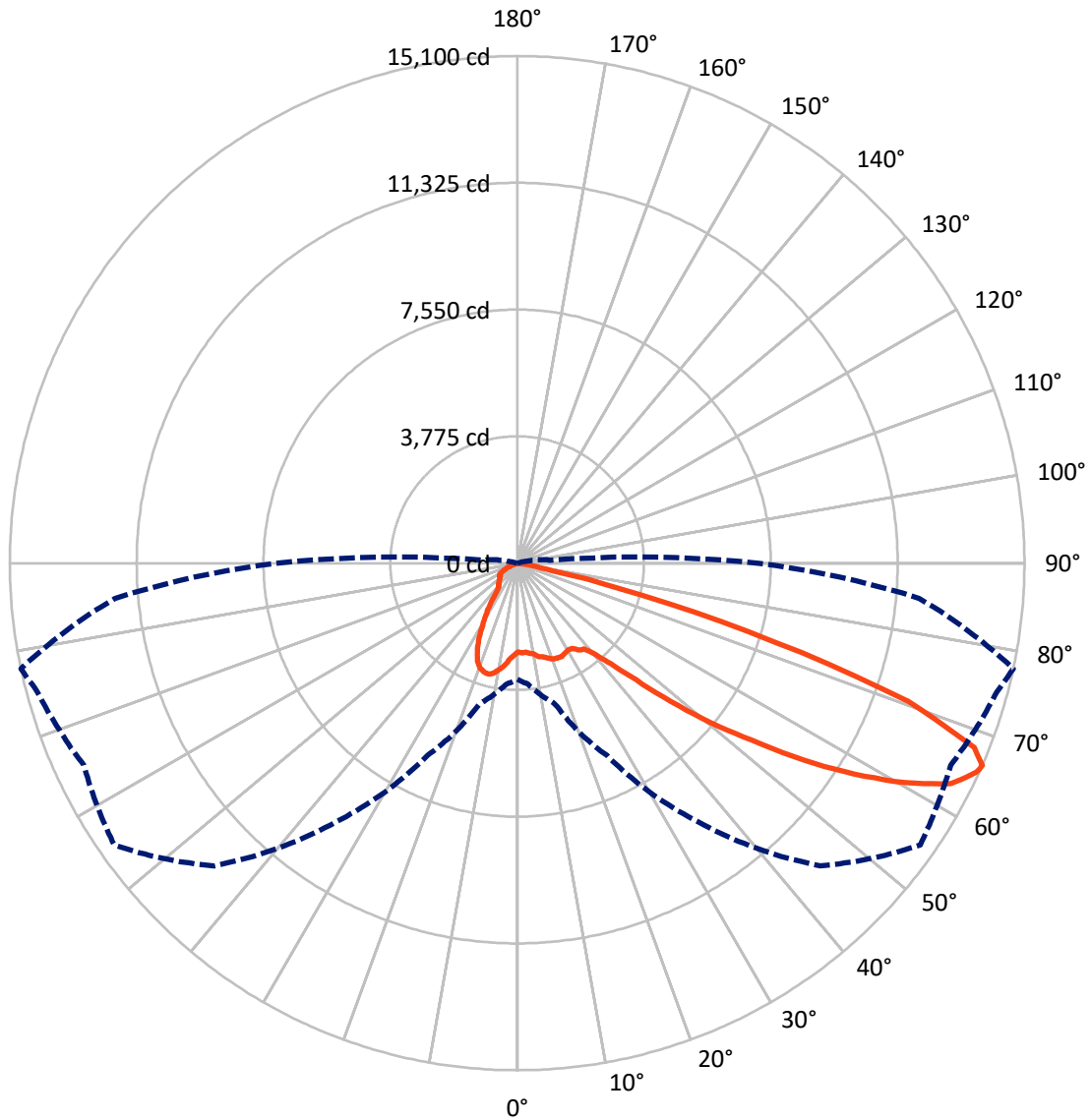
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1161.3	0.0	1161.3
	% Fixture	7.0	0.0	7.0
<b>Street Side</b>	Lumens	15356.9	0.0	15356.9
	% Fixture	93.0	0.0	93.0
<b>Total</b>	Lumens	16518.2	0.0	16518.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	242.0	1.5
10°-20°	546.4	3.3
20°-30°	780.9	4.7
30°-40°	1336.8	8.1
40°-50°	2412.7	14.6
50°-60°	4126.0	25.0
60°-70°	5078.4	30.7
70°-80°	1919.9	11.6
80°-90°	75.0	0.5
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°	16518.2	100.0
0°-180°	16518.2	100.0

**Coefficient of Utilization**

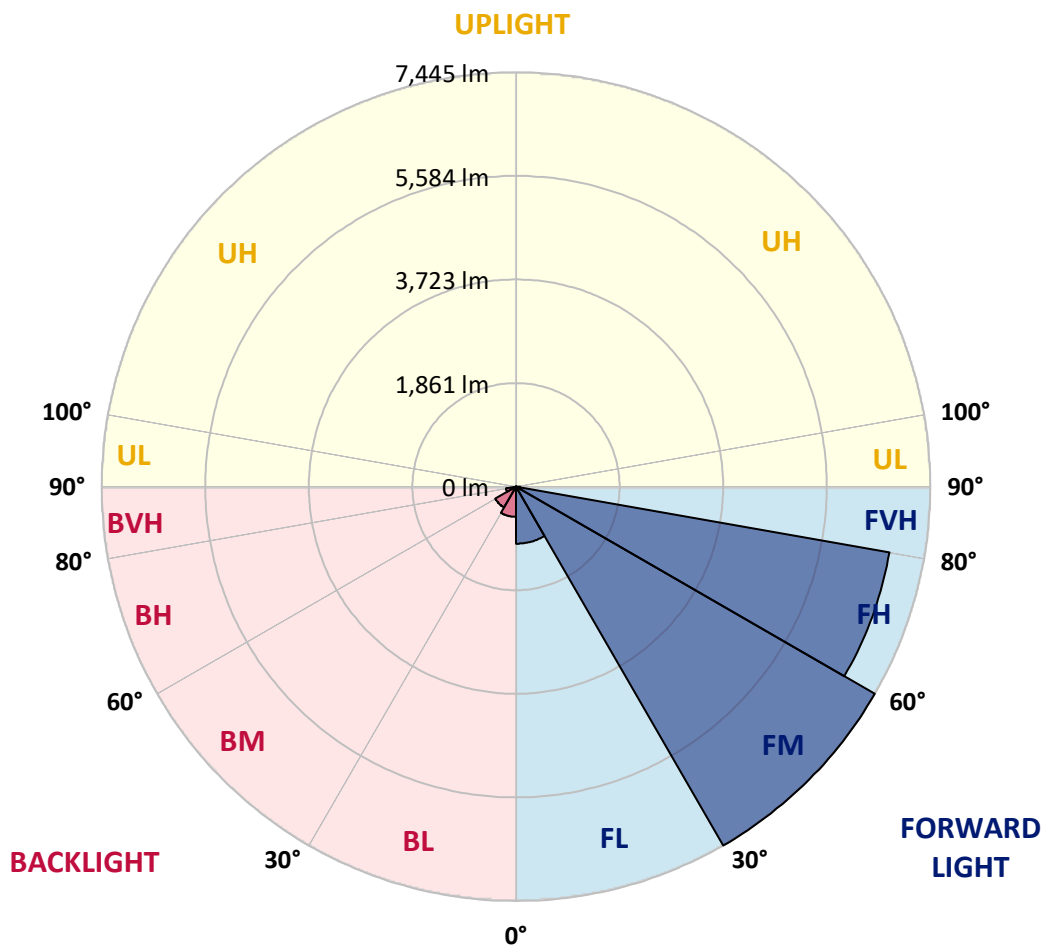


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1025.5	6.2			
FM (30°-60°)	7445.1	45.1			
FH (60°-80°)	6814.4	41.3			G3/7500
FVH (80°-90°)	72.0	0.4			G1/100
BL (0°-30°)	543.9	3.3	B2/1000		
BM (30°-60°)	430.4	2.6	B1/1000		
BH (60°-80°)	184.0	1.1	B1/500		G1/500
BVH (80°-90°)	3.0	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-G3**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	2645.7	2645.7	2645.7	2645.7	2645.7	2645.7	2645.7	2645.7	2645.7	2645.7	2645.7
2.5°	2433.5	2411.1	2433.5	2466.0	2483.4	2498.4	2550.8	2595.8	2643.2	2675.6	2665.6
5°	2256.3	2298.7	2303.7	2313.7	2341.2	2431.0	2461.0	2538.4	2655.7	2665.6	2710.6
7.5°	2116.5	2104.1	2136.5	2201.4	2271.3	2323.7	2411.1	2545.8	2668.1	2710.6	2797.9
10°	1914.4	1939.3	1974.3	2039.2	2124.0	2253.8	2408.6	2558.3	2733.0	2748.0	2910.2
12.5°	1804.6	1779.6	1834.5	1901.9	2046.7	2166.5	2356.2	2535.9	2773.0	2855.3	3042.5
15°	1714.7	1727.2	1779.6	1824.5	1944.3	2096.6	2318.7	2590.8	2840.4	2897.8	3182.3
17.5°	1677.3	1669.8	1709.7	1754.6	1901.9	2074.1	2303.7	2593.3	2900.3	2975.1	3277.1
20°	1694.7	1709.7	1697.2	1739.7	1832.0	2006.7	2326.2	2640.7	2945.2	3047.5	3379.5
22.5°	1969.3	1949.3	1849.5	1769.6	1774.6	1979.3	2308.7	2670.6	2985.1	3067.5	3449.4
25°	2685.6	2578.3	2331.2	2024.2	1822.0	1904.4	2288.8	2660.7	2977.6	3080.0	3491.8
27.5°	3406.9	3314.6	3072.5	2595.8	2014.2	1874.4	2218.9	2668.1	2940.2	3035.0	3421.9
30°	4168.2	4218.1	3858.7	3292.1	2518.4	2039.2	2173.9	2628.2	2915.2	2995.1	3436.9
32.5°	4949.4	4929.4	4712.3	4098.3	3239.7	2403.6	2246.3	2668.1	2947.7	3025.1	3524.2
35°	5560.9	5491.0	5271.4	4717.3	3836.2	2952.7	2495.9	2857.8	3090.0	3182.3	3649.0
37.5°	5862.9	5892.9	5765.6	5283.9	4490.2	3461.8	2807.9	2857.8	3134.9	3242.2	3851.2
40°	6097.5	6187.4	6140.0	5985.2	5139.1	4035.9	3152.4	3035.0	3362.0	3564.2	4230.6
42.5°	6379.6	6337.2	6616.7	6474.4	5987.7	4759.7	3756.4	3456.9	3898.6	4093.3	4799.7
45°	6529.3	6691.6	6903.7	7085.9	6773.9	5663.3	4545.1	4203.1	4719.8	4966.9	5645.8
47.5°	6913.7	6978.6	7323.0	7552.7	7412.9	6696.6	5743.1	5293.9	5753.1	6142.5	6614.2
50°	7138.3	7051.0	7532.7	7882.1	7962.0	7552.7	6816.4	6466.9	6981.1	7477.8	7520.2
52.5°	6941.2	7190.8	7672.5	8298.9	8521.1	8316.4	8076.8	7924.6	8286.5	8745.7	8541.1
55°	6249.8	6419.5	7592.6	8755.7	9472.0	9377.2	9599.3	9499.5	9863.9	10350.6	9734.1
57.5°	5693.2	5905.4	6936.2	8992.8	10358.1	10637.6	10917.2	10854.8	11294.1	11855.6	10745.0
60°	5346.3	5468.6	6461.9	8932.9	10882.2	11940.5	12572.0	12132.7	12849.0	13278.3	11536.2
62.5°	4744.8	4822.1	5770.6	8139.2	11039.5	12861.5	13932.2	13335.7	13957.2	14481.3	12105.2
65°	3803.8	4013.4	4797.2	6951.1	10001.2	13031.2	14780.9	14079.5	14681.0	15025.5	12277.4
66°	3461.8	3614.1	4332.9	6322.2	9409.6	12749.2	14638.6	14234.3	14785.9	15100.3	12012.9
67.5°	2872.8	3005.1	3576.7	5426.1	8199.1	12127.7	14738.4	14129.4	14865.7	14673.5	11658.5
70°	1901.9	1986.8	2446.0	3669.0	5710.7	9921.3	13670.2	13310.8	13068.7	12347.3	9115.1
72.5°	888.5	1010.8	1527.5	2223.9	3349.5	6941.2	11146.8	10665.1	9165.0	8011.9	5750.6
75°	401.8	456.8	838.6	1275.4	1502.5	3596.6	7190.8	6494.4	4562.5	3788.8	2518.4
77.5°	217.1	247.1	409.3	606.5	546.6	1260.4	3559.2	2960.2	1437.7	1053.3	731.3
80°	167.2	197.2	341.9	346.9	202.2	327.0	1322.8	916.0	359.4	272.1	174.7
82.5°	87.4	124.8	269.6	224.6	102.3	132.3	409.3	254.6	112.3	89.9	74.9
85°	34.9	54.9	152.3	149.8	59.9	44.9	114.8	77.4	44.9	37.4	34.9
87.5°	2.5	2.5	82.4	57.4	37.4	12.5	17.5	17.5	22.5	20.0	25.0
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°	2645.7	2645.7	2645.7	2645.7	2645.7	2645.7	2645.7	2645.7	2645.7	2645.7	2645.7
2.5°	2710.6	2740.5	2745.5	2827.9	2845.4	2827.9	2872.8	2865.3	2885.3	2870.3	2842.9
5°	2773.0	2815.4	2897.8	2960.2	2960.2	2910.2	2870.3	2817.9	2740.5	2720.6	2705.6
7.5°	2880.3	3015.1	3090.0	3050.0	2970.1	2783.0	2523.4	2333.7	2173.9	2114.0	2086.6
10°	3070.0	3144.9	3232.2	3070.0	2738.0	2341.2	1904.4	1617.4	1392.7	1342.8	1305.4
12.5°	3192.3	3312.1	3362.0	2960.2	2308.7	1717.2	1243.0	918.5	761.3	641.5	621.5
15°	3352.0	3489.3	3387.0	2663.2	1819.5	1125.7	643.9	401.8	327.0	307.0	307.0
17.5°	3461.8	3611.6	3284.6	2293.8	1290.4	599.0	319.5	277.0	272.1	274.6	269.6
20°	3654.0	3743.9	3129.9	1864.5	771.2	307.0	257.1	247.1	242.1	249.6	244.6
22.5°	3726.4	3808.8	2877.8	1350.3	346.9	204.7	192.2	184.7	189.7	187.2	184.7
25°	3721.4	3763.9	2463.5	773.7	102.3	79.9	72.4	72.4	67.4	69.9	67.4
27.5°	3758.9	3654.0	1999.2	229.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	3778.8	3476.8	1422.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	3788.8	3384.5	916.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	3866.2	3199.8	391.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	3918.6	2962.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4135.7	2887.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4417.8	2748.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	4809.6	2540.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5328.8	2418.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	5715.7	2226.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	6207.4	2111.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6791.4	2116.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	7323.0	2081.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	7595.1	1779.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	7537.7	1440.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	7338.0	1130.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	7200.7	1000.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6783.9	801.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	5398.7	549.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3434.4	336.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1582.4	154.7	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	496.7	94.8	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	129.8	59.9	20.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	67.4	42.4	17.5	7.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	42.4	17.5	7.5	5.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	37.4	10.0	5.0	5.0	2.5	0.0	0.0	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)