

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: P482839

Luminaire Tested: **IFLD-S-SA3D-740-U-T3R-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482839  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-740-U-T3R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R  
distribution lens with House Side Shield  
Light Source: (48) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

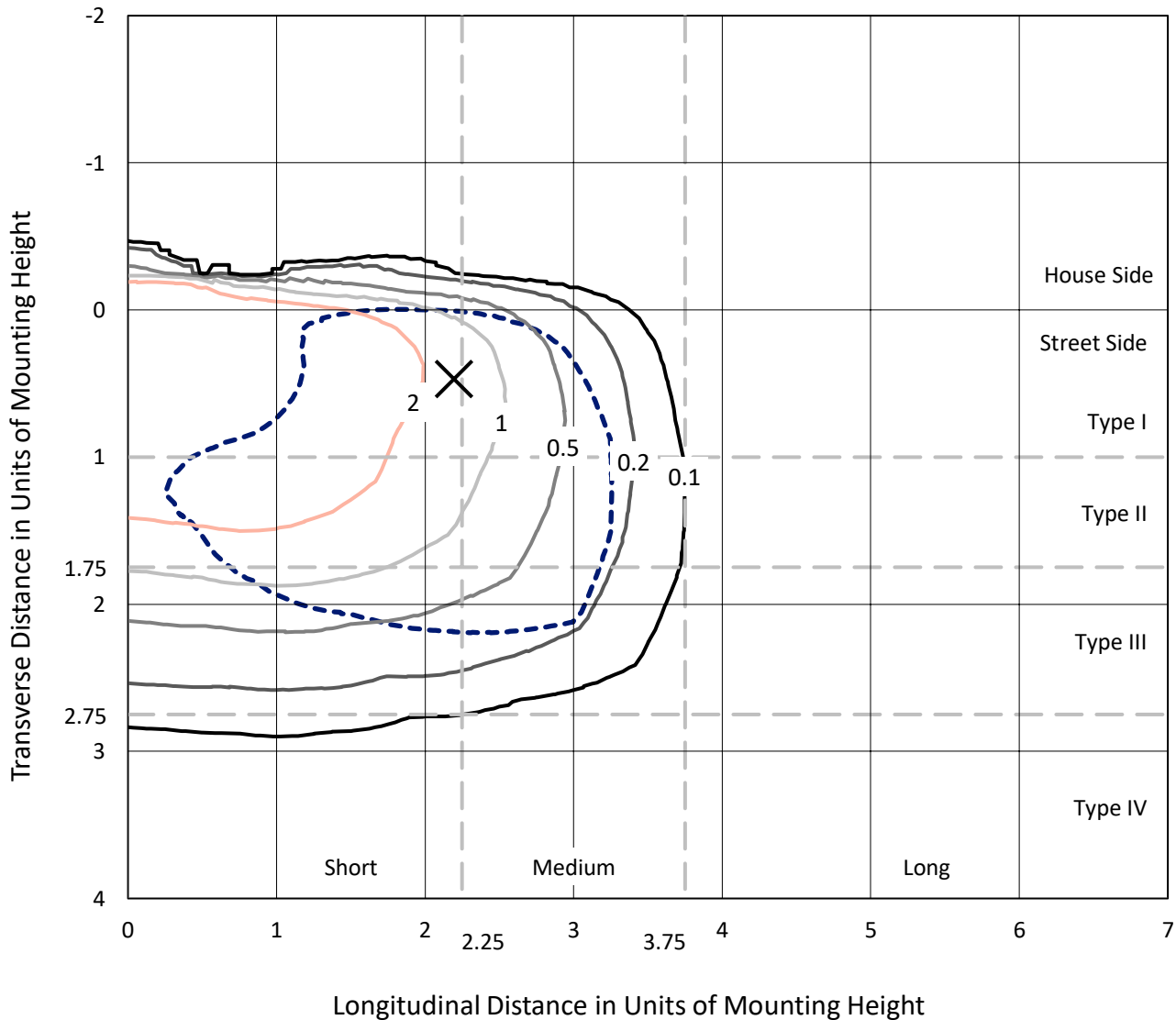
Lumens per Lamp: N/A  
Luminaire Lumens: 16706.9 lumens  
Efficiency: N/A  
Efficacy: 90.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 184.1  
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

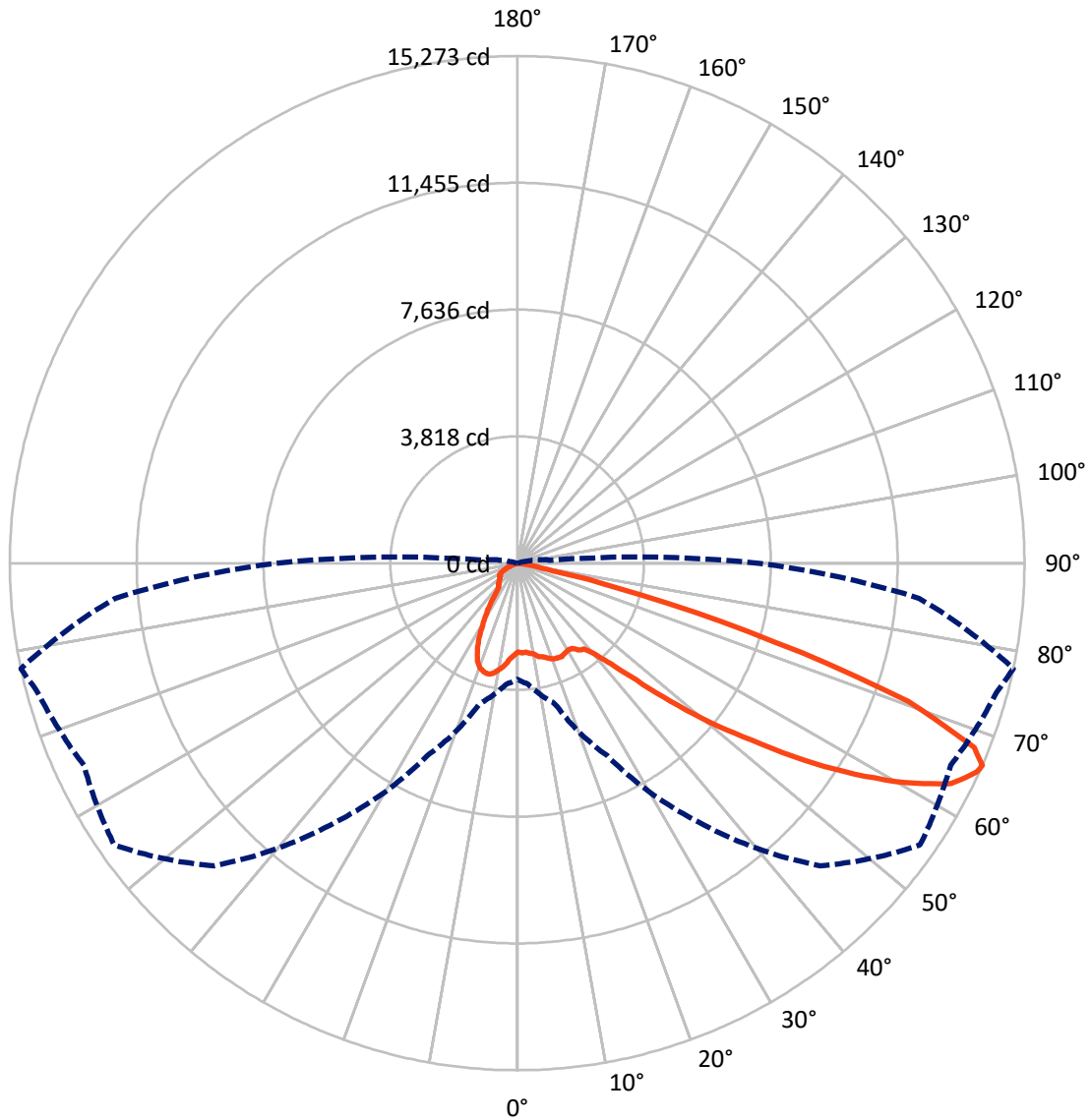
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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	1174.6	0.0	1174.6
	% Fixture	7.0	0.0	7.0
<b>Street Side</b>	Lumens	15532.3	0.0	15532.3
	% Fixture	93.0	0.0	93.0
<b>Total</b>	Lumens	16706.9	0.0	16706.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	244.8	1.5
10°-20°	552.6	3.3
20°-30°	789.9	4.7
30°-40°	1352.0	8.1
40°-50°	2440.3	14.6
50°-60°	4173.2	25.0
60°-70°	5136.4	30.7
70°-80°	1941.9	11.6
80°-90°	75.9	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°	16706.9	100.0
0°-180°	16706.9	100.0

**Coefficient of Utilization**

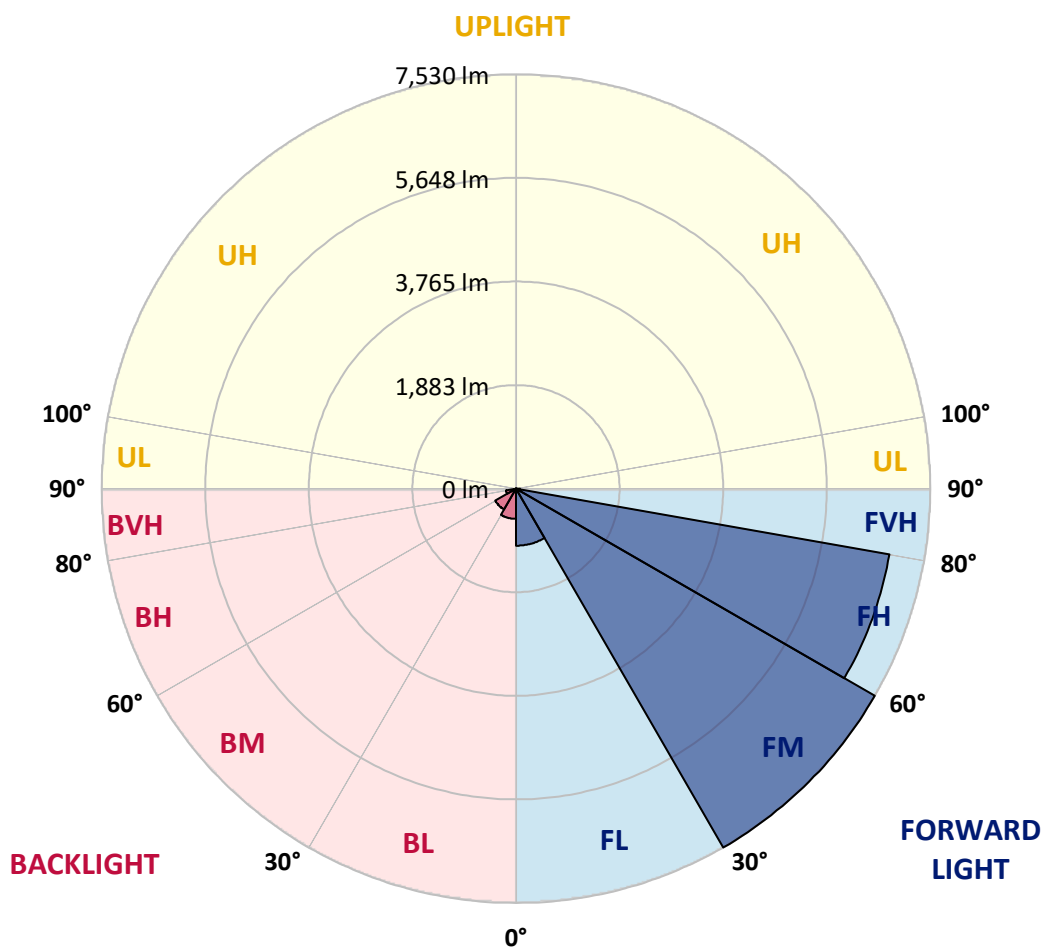


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1037.2	6.2			
FM (30°-60°)	7530.1	45.1			
FH (60°-80°)	6892.2	41.3			G3/7500
FVH (80°-90°)	72.8	0.4			G1/100
BL (0°-30°)	550.1	3.3	B2/1000		
BM (30°-60°)	435.3	2.6	B1/1000		
BH (60°-80°)	186.1	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°	2675.9	2675.9	2675.9	2675.9	2675.9	2675.9	2675.9	2675.9	2675.9	2675.9	2675.9
2.5°	2461.3	2438.6	2461.3	2494.1	2511.8	2527.0	2580.0	2625.4	2673.4	2706.2	2696.1
5°	2282.1	2325.0	2330.1	2340.2	2367.9	2458.8	2489.1	2567.4	2686.0	2696.1	2741.5
7.5°	2140.7	2128.1	2160.9	2226.6	2297.2	2350.3	2438.6	2574.9	2698.6	2741.5	2829.9
10°	1936.2	1961.5	1996.8	2062.5	2148.3	2279.6	2436.1	2587.5	2764.3	2779.4	2943.5
12.5°	1825.2	1799.9	1855.5	1923.6	2070.0	2191.2	2383.1	2564.8	2804.7	2888.0	3077.3
15°	1734.3	1746.9	1799.9	1845.4	1966.5	2120.5	2345.2	2620.4	2872.8	2930.9	3218.7
17.5°	1696.4	1688.8	1729.2	1774.7	1923.6	2097.8	2330.1	2622.9	2933.4	3009.1	3314.6
20°	1714.1	1729.2	1716.6	1759.5	1852.9	2029.6	2352.8	2670.9	2978.8	3082.3	3418.1
22.5°	1991.8	1971.6	1870.6	1789.8	1794.9	2001.9	2335.1	2701.1	3019.2	3102.5	3488.8
25°	2716.3	2607.7	2357.8	2047.3	1842.8	1926.1	2314.9	2691.1	3011.7	3115.2	3531.7
27.5°	3445.9	3352.5	3107.6	2625.4	2037.2	1895.9	2244.2	2698.6	2973.8	3069.7	3461.0
30°	4215.8	4266.3	3902.8	3329.7	2547.2	2062.5	2198.8	2658.2	2948.5	3029.3	3476.2
32.5°	5006.0	4985.8	4766.1	4145.1	3276.7	2431.0	2272.0	2698.6	2981.4	3059.6	3564.5
35°	5624.4	5553.8	5331.6	4771.2	3880.1	2986.4	2524.4	2890.5	3125.3	3218.7	3690.7
37.5°	5929.9	5960.2	5831.5	5344.2	4541.5	3501.4	2840.0	2890.5	3170.7	3279.2	3895.2
40°	6167.2	6258.1	6210.1	6053.6	5197.8	4082.0	3188.4	3069.7	3400.4	3604.9	4278.9
42.5°	6452.5	6409.6	6692.3	6548.4	6056.1	4814.1	3799.3	3496.3	3943.2	4140.1	4854.5
45°	6603.9	6768.0	6982.6	7166.9	6851.3	5728.0	4597.0	4251.2	4773.7	5023.6	5710.3
47.5°	6992.7	7058.3	7406.7	7639.0	7497.6	6773.1	5808.7	5354.3	5818.8	6212.6	6689.8
50°	7219.9	7131.5	7618.8	7972.2	8053.0	7639.0	6894.2	6540.8	7060.9	7563.2	7606.1
52.5°	7020.5	7272.9	7760.1	8393.8	8618.4	8411.4	8169.1	8015.1	8381.1	8845.6	8638.6
55°	6321.2	6492.9	7679.3	8855.7	9580.2	9484.3	9709.0	9608.0	9976.6	10468.8	9845.3
57.5°	5758.2	5972.8	7015.4	9095.6	10476.4	10759.2	11041.9	10978.8	11423.1	11991.1	10867.7
60°	5407.3	5531.0	6535.8	9035.0	11006.6	12076.9	12715.6	12271.3	12995.8	13430.0	11668.0
62.5°	4799.0	4877.2	5836.5	8232.2	11165.6	13008.4	14091.4	13488.1	14116.7	14646.8	12243.5
65°	3847.2	4059.3	4852.0	7030.6	10115.4	13180.1	14949.7	14240.4	14848.7	15197.1	12417.7
66°	3501.4	3655.4	4382.4	6394.4	9517.1	12894.8	14805.8	14396.9	14954.8	15272.9	12150.1
67.5°	2905.6	3039.4	3617.5	5488.1	8292.8	12266.2	14906.8	14290.8	15035.6	14841.2	11791.7
70°	1923.6	2009.5	2474.0	3710.9	5775.9	10034.6	13826.4	13462.8	13218.0	12488.4	9219.3
72.5°	898.7	1022.4	1545.0	2249.3	3387.8	7020.5	11274.1	10786.9	9269.7	8103.4	5816.3
75°	406.4	462.0	848.2	1290.0	1519.7	3637.7	7272.9	6568.6	4614.7	3832.1	2547.2
77.5°	219.6	249.9	414.0	613.4	552.9	1274.8	3599.8	2994.0	1454.1	1065.3	739.7
80°	169.1	199.4	345.8	350.9	204.5	330.7	1338.0	926.5	363.5	275.2	176.7
82.5°	88.4	126.2	272.6	227.2	103.5	133.8	414.0	257.5	113.6	90.9	75.7
85°	35.3	55.5	154.0	151.5	60.6	45.4	116.1	78.3	45.4	37.9	35.3
87.5°	2.5	2.5	83.3	58.1	37.9	12.6	17.7	17.7	22.7	20.2	25.2
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°	2675.9	2675.9	2675.9	2675.9	2675.9	2675.9	2675.9	2675.9	2675.9	2675.9	2675.9
2.5°	2741.5	2771.8	2776.9	2860.2	2877.9	2860.2	2905.6	2898.1	2918.3	2903.1	2875.3
5°	2804.7	2847.6	2930.9	2994.0	2994.0	2943.5	2903.1	2850.1	2771.8	2751.6	2736.5
7.5°	2913.2	3049.5	3125.3	3084.9	3004.1	2814.7	2552.2	2360.4	2198.8	2138.2	2110.4
10°	3105.1	3180.8	3269.1	3105.1	2769.3	2367.9	1926.1	1635.8	1408.6	1358.1	1320.3
12.5°	3228.8	3349.9	3400.4	2994.0	2335.1	1736.8	1257.2	929.0	770.0	648.8	628.6
15°	3390.3	3529.2	3425.7	2693.6	1840.3	1138.5	651.3	406.4	330.7	310.5	310.5
17.5°	3501.4	3652.9	3322.2	2320.0	1305.1	605.9	323.1	280.2	275.2	277.7	272.6
20°	3695.8	3786.7	3165.6	1885.8	780.1	310.5	260.0	249.9	244.9	252.4	247.4
22.5°	3769.0	3852.3	2910.7	1365.7	350.9	207.0	194.4	186.8	191.9	189.3	186.8
25°	3763.9	3806.9	2491.6	782.6	103.5	80.8	73.2	73.2	68.2	70.7	68.2
27.5°	3801.8	3695.8	2022.1	232.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	3822.0	3516.5	1438.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	3832.1	3423.1	926.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	3910.4	3236.3	396.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	3963.4	2996.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4183.0	2920.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4468.3	2779.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	4864.6	2569.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5389.7	2446.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	5781.0	2251.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	6278.3	2135.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6869.0	2140.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	7406.7	2105.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	7681.9	1799.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	7623.8	1456.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	7421.9	1143.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	7283.0	1012.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6861.4	810.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	5460.4	555.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3473.6	340.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1600.5	156.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	502.4	95.9	20.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	131.3	60.6	20.2	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	68.2	42.9	17.7	7.6	5.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	42.9	17.7	7.6	5.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	37.9	10.1	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)