

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: P483007

Luminaire Tested: **IFLD-S-SA6A-830-U-T3R-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P483007  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6A-830-U-T3R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R  
distribution lens with House Side Shield  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

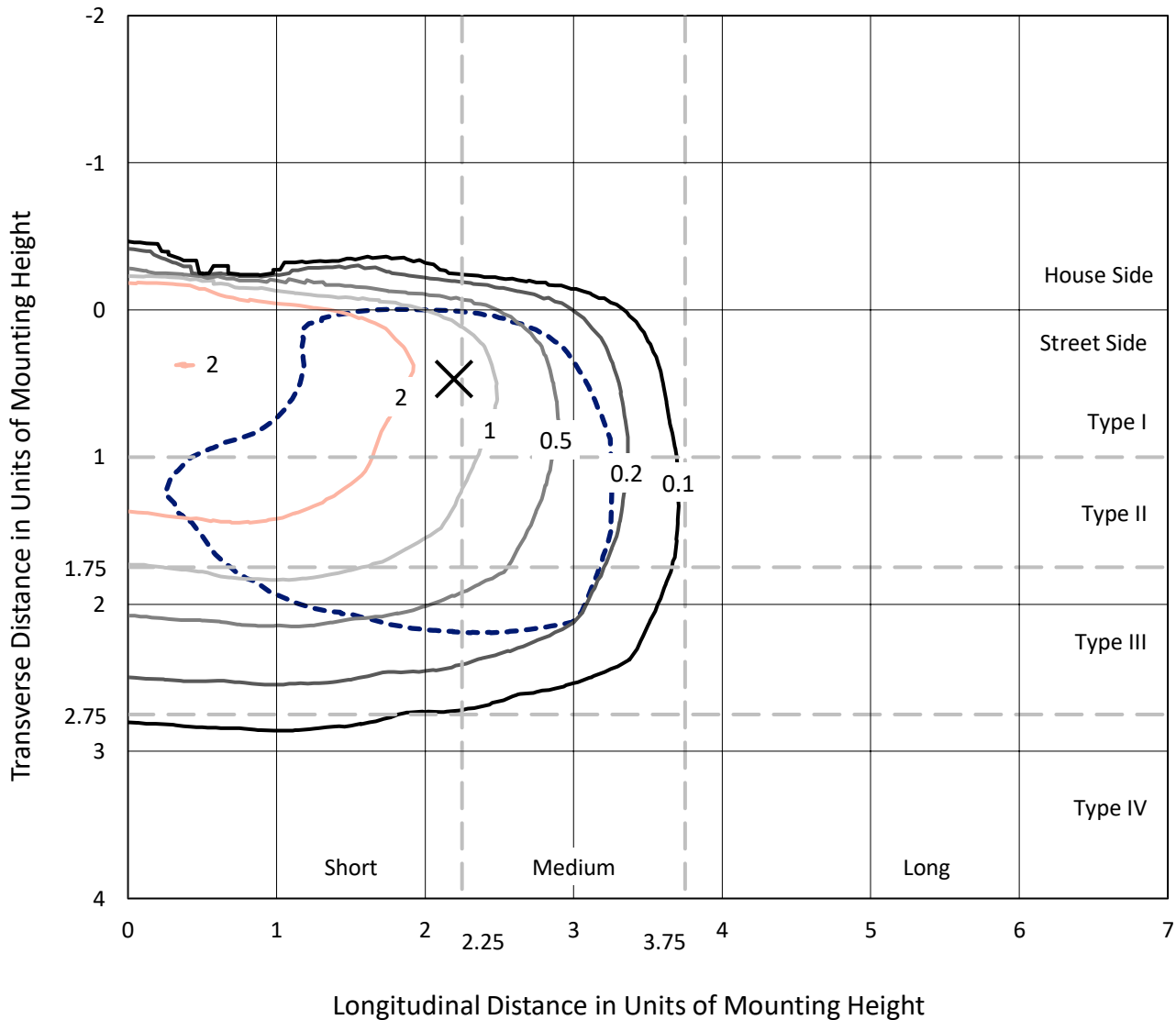
Lumens per Lamp: N/A  
Luminaire Lumens: 15373.1 lumens  
Efficiency: N/A  
Efficacy: 81.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 189.6  
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

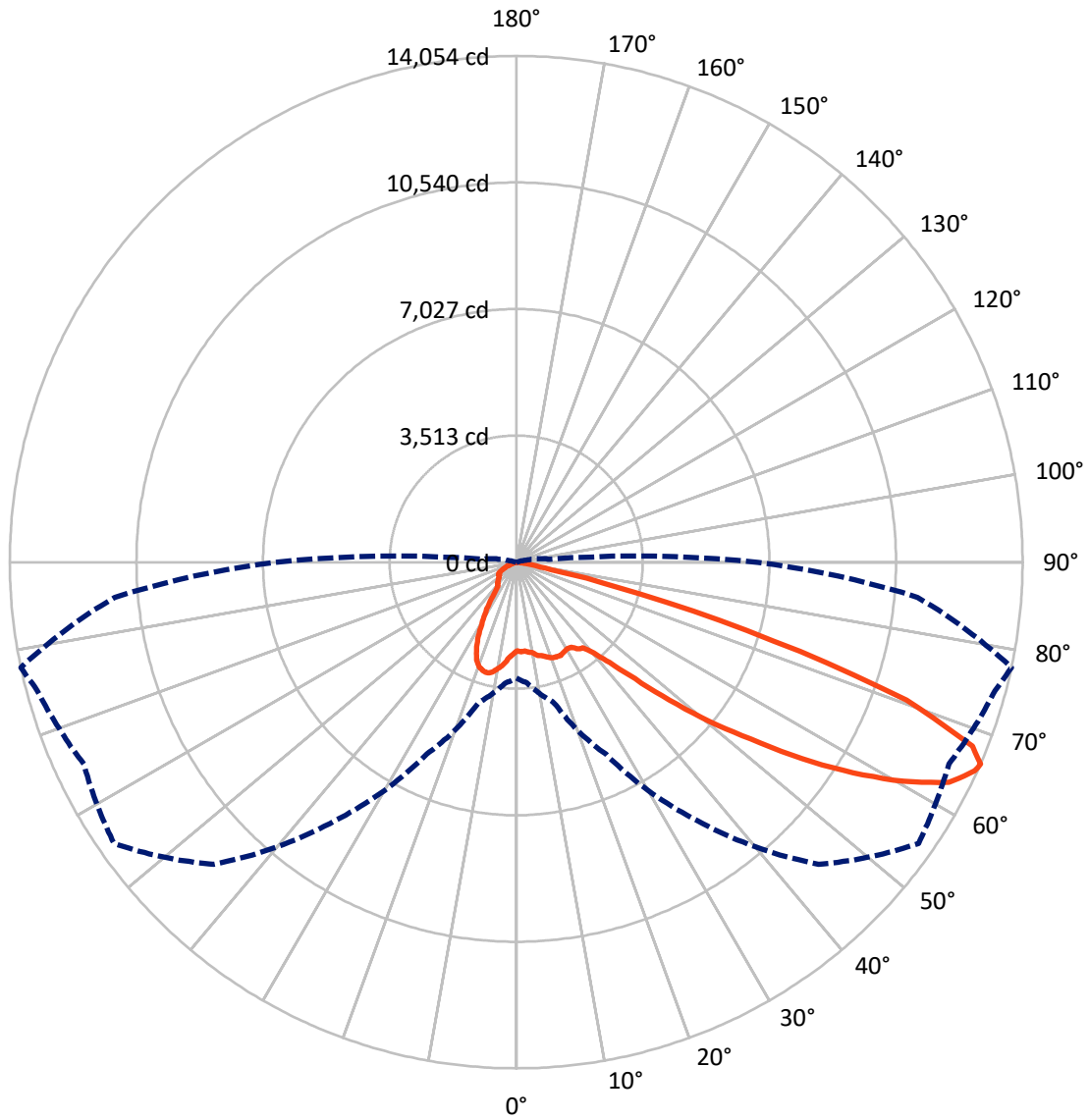
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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	1080.8	0.0	1080.8
	% Fixture	7.0	0.0	7.0
<b>Street Side</b>	Lumens	14292.3	0.0	14292.3
	% Fixture	93.0	0.0	93.0
<b>Total</b>	Lumens	15373.1	0.0	15373.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	225.3	1.5
10°-20°	508.5	3.3
20°-30°	726.8	4.7
30°-40°	1244.1	8.1
40°-50°	2245.4	14.6
50°-60°	3840.0	25.0
60°-70°	4726.4	30.7
70°-80°	1786.8	11.6
80°-90°	69.8	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°	15373.1	100.0
0°-180°	15373.1	100.0

**Coefficient of Utilization**

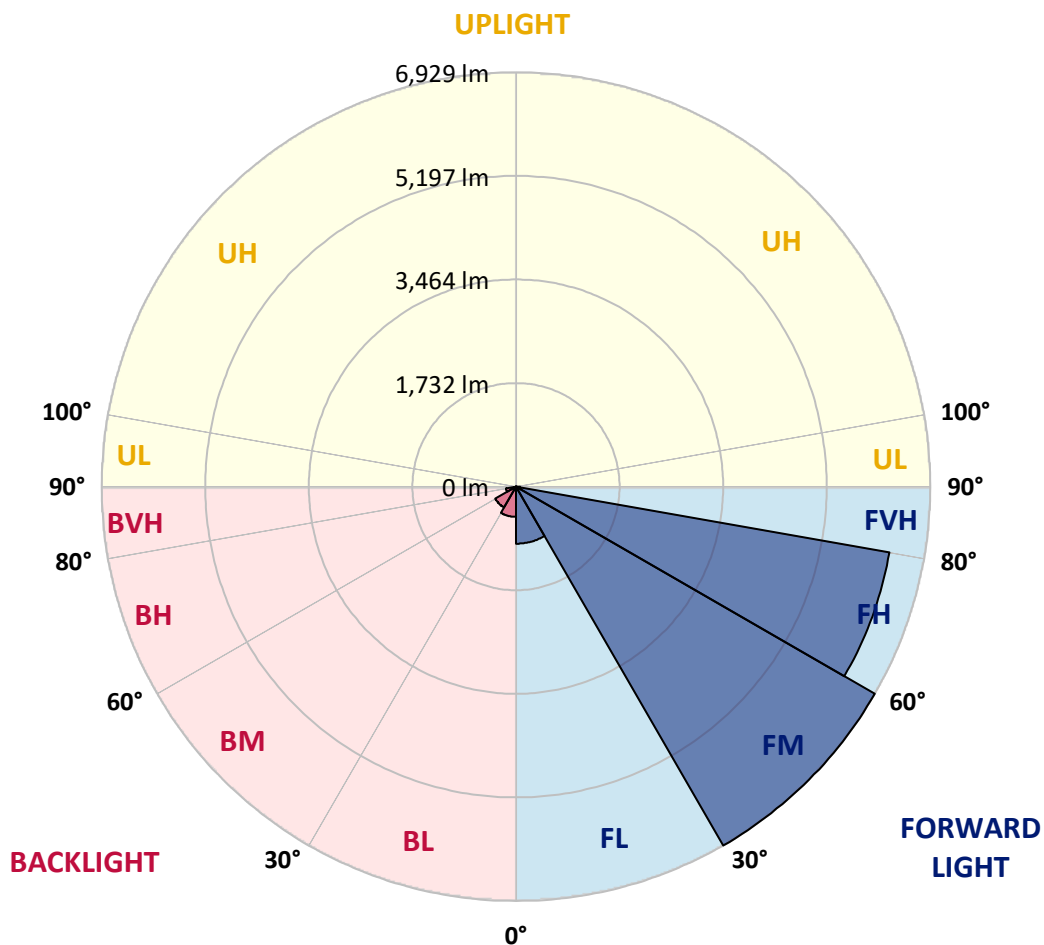


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	954.4	6.2			
FM (30°-60°)	6928.9	45.1			
FH (60°-80°)	6341.9	41.3			G3/7500
FVH (80°-90°)	67.0	0.4			G1/100
BL (0°-30°)	506.2	3.3	B2/1000		
BM (30°-60°)	400.6	2.6	B1/1000		
BH (60°-80°)	171.2	1.1	B1/500		G1/500
BVH (80°-90°)	2.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	2462.3	2462.3	2462.3	2462.3	2462.3	2462.3	2462.3	2462.3	2462.3	2462.3	2462.3
2.5°	2264.8	2243.9	2264.8	2295.0	2311.3	2325.2	2374.0	2415.8	2459.9	2490.1	2480.8
5°	2099.9	2139.4	2144.0	2153.3	2178.9	2262.5	2290.4	2362.4	2471.6	2480.8	2522.7
7.5°	1969.8	1958.2	1988.4	2048.8	2113.8	2162.6	2243.9	2369.3	2483.2	2522.7	2604.0
10°	1781.7	1804.9	1837.4	1897.8	1976.8	2097.6	2241.6	2381.0	2543.6	2557.5	2708.5
12.5°	1679.5	1656.2	1707.3	1770.0	1904.8	2016.3	2192.8	2360.1	2580.7	2657.4	2831.6
15°	1595.8	1607.4	1656.2	1698.0	1809.5	1951.2	2158.0	2411.2	2643.4	2696.9	2961.7
17.5°	1561.0	1554.0	1591.2	1633.0	1770.0	1930.3	2144.0	2413.5	2699.2	2768.9	3050.0
20°	1577.2	1591.2	1579.6	1619.1	1705.0	1867.6	2164.9	2457.6	2741.0	2836.2	3145.2
22.5°	1832.8	1814.2	1721.3	1646.9	1651.6	1842.1	2148.7	2485.5	2778.2	2854.8	3210.2
25°	2499.4	2399.5	2169.6	1883.9	1695.7	1772.4	2130.1	2476.2	2771.2	2866.4	3249.7
27.5°	3170.7	3084.8	2859.5	2415.8	1874.6	1744.5	2065.0	2483.2	2736.4	2824.6	3184.7
30°	3879.2	3925.7	3591.2	3063.9	2343.8	1897.8	2023.2	2446.0	2713.1	2787.5	3198.6
32.5°	4606.3	4587.7	4385.6	3814.2	3015.1	2236.9	2090.6	2483.2	2743.3	2815.3	3279.9
35°	5175.4	5110.4	4905.9	4390.3	3570.3	2748.0	2322.9	2659.7	2875.7	2961.7	3396.1
37.5°	5456.5	5484.3	5365.9	4917.6	4178.9	3221.8	2613.3	2659.7	2917.6	3017.4	3584.2
40°	5674.8	5758.4	5714.3	5570.3	4782.8	3756.1	2933.8	2824.6	3128.9	3317.1	3937.3
42.5°	5937.3	5897.8	6158.0	6025.6	5572.6	4429.8	3496.0	3217.2	3628.4	3809.5	4466.9
45°	6076.7	6227.7	6425.1	6594.7	6304.3	5270.6	4230.0	3911.7	4392.6	4622.6	5254.4
47.5°	6434.4	6494.8	6815.4	7029.1	6899.0	6232.3	5345.0	4926.9	5354.3	5716.6	6155.7
50°	6643.5	6562.2	7010.5	7335.7	7410.0	7029.1	6343.8	6018.6	6497.1	6959.4	6998.9
52.5°	6460.0	6692.2	7140.6	7723.6	7930.3	7739.9	7516.9	7375.2	7712.0	8139.4	7948.9
55°	5816.5	5974.5	7066.2	8148.7	8815.4	8727.1	8933.8	8840.9	9180.1	9633.0	9059.3
57.5°	5298.5	5496.0	6455.3	8369.4	9640.0	9900.2	10160.3	10102.3	10511.1	11033.7	10000.0
60°	4975.6	5089.5	6014.0	8313.6	10127.8	11112.7	11700.4	11291.6	11958.2	12357.8	10736.4
62.5°	4415.8	4487.8	5370.5	7574.9	10274.1	11969.9	12966.4	12411.2	12989.6	13477.4	11266.0
65°	3540.1	3735.2	4464.6	6469.3	9307.8	12127.8	13756.2	13103.4	13663.2	13983.8	11426.3
66°	3221.8	3363.5	4032.5	5883.9	8757.3	11865.3	13623.8	13247.4	13760.8	14053.5	11180.1
67.5°	2673.6	2796.8	3328.7	5050.0	7630.7	11286.9	13716.7	13149.9	13835.1	13656.3	10850.2
70°	1770.0	1849.0	2276.4	3414.6	5314.8	9233.5	12722.5	12388.0	12162.7	11491.3	8483.2
72.5°	826.9	940.8	1421.6	2069.7	3117.3	6460.0	10374.0	9925.7	8529.7	7456.5	5351.9
75°	374.0	425.1	780.5	1187.0	1398.4	3347.3	6692.2	6044.2	4246.2	3526.1	2343.8
77.5°	202.1	230.0	381.0	564.5	508.7	1173.1	3312.4	2754.9	1338.0	980.3	680.6
80°	155.6	183.5	318.2	322.9	188.2	304.3	1231.1	852.5	334.5	253.2	162.6
82.5°	81.3	116.1	250.9	209.1	95.2	123.1	381.0	236.9	104.5	83.6	69.7
85°	32.5	51.1	141.7	139.4	55.7	41.8	106.9	72.0	41.8	34.8	32.5
87.5°	2.3	2.3	76.7	53.4	34.8	11.6	16.3	16.3	20.9	18.6	23.2
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°	2462.3	2462.3	2462.3	2462.3	2462.3	2462.3	2462.3	2462.3	2462.3	2462.3	2462.3
2.5°	2522.7	2550.5	2555.2	2631.8	2648.1	2631.8	2673.6	2666.7	2685.3	2671.3	2645.8
5°	2580.7	2620.2	2696.9	2754.9	2754.9	2708.5	2671.3	2622.5	2550.5	2532.0	2518.0
7.5°	2680.6	2806.1	2875.7	2838.6	2764.2	2590.0	2348.4	2171.9	2023.2	1967.5	1941.9
10°	2857.2	2926.8	3008.1	2857.2	2548.2	2178.9	1772.4	1505.2	1296.2	1249.7	1214.9
12.5°	2971.0	3082.5	3128.9	2754.9	2148.7	1598.1	1156.8	854.8	708.5	597.0	578.4
15°	3119.6	3247.4	3152.2	2478.5	1693.4	1047.6	599.3	374.0	304.3	285.7	285.7
17.5°	3221.8	3361.2	3056.9	2134.7	1200.9	557.5	297.3	257.8	253.2	255.5	250.9
20°	3400.7	3484.3	2912.9	1735.2	717.8	285.7	239.3	230.0	225.3	232.3	227.6
22.5°	3468.1	3544.7	2678.3	1256.7	322.9	190.5	178.9	171.9	176.5	174.2	171.9
25°	3463.4	3502.9	2292.7	720.1	95.2	74.3	67.4	67.4	62.7	65.0	62.7
27.5°	3498.3	3400.7	1860.6	213.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	3516.9	3235.8	1324.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	3526.1	3149.8	852.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	3598.2	2977.9	364.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	3646.9	2757.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3849.0	2687.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4111.5	2557.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	4476.2	2364.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	4959.4	2250.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	5319.4	2072.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	5777.0	1965.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6320.6	1969.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	6815.4	1937.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	7068.6	1656.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	7015.1	1340.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	6829.3	1052.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	6701.5	931.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6313.6	745.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	5024.4	511.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3196.3	313.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1472.7	144.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	462.3	88.3	18.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	120.8	55.7	18.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	62.7	39.5	16.3	7.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	39.5	16.3	7.0	4.6	4.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	34.8	9.3	4.6	4.6	2.3	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)