

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: P483014

Luminaire Tested: **IFLD-M-SA4C-830-U-T3R-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P483014  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4C-830-U-T3R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R  
distribution lens with House Side Shield  
Light Source: (64) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

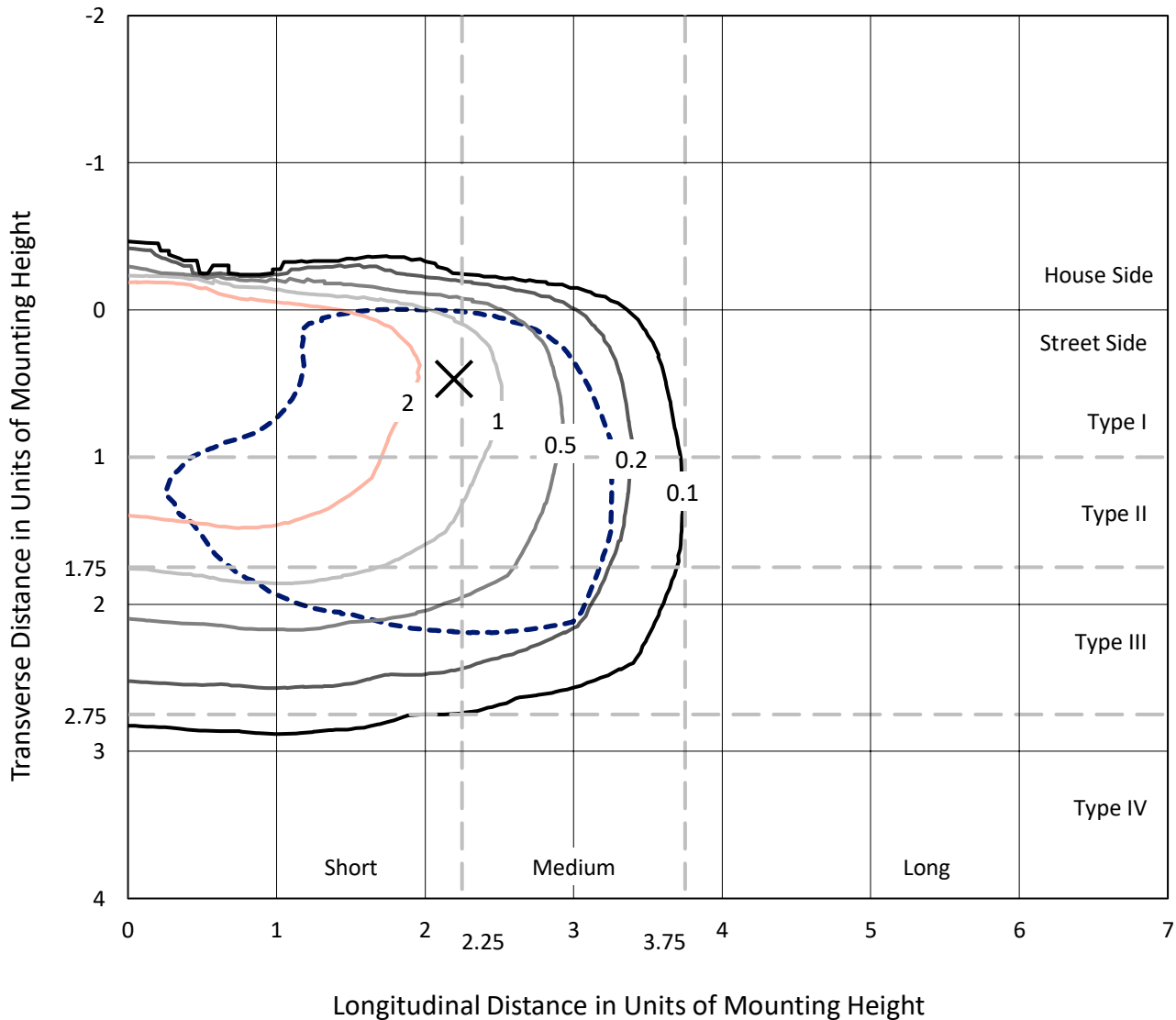
Lumens per Lamp: N/A  
Luminaire Lumens: 16194.2 lumens  
Efficiency: N/A  
Efficacy: 74.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 218.1  
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

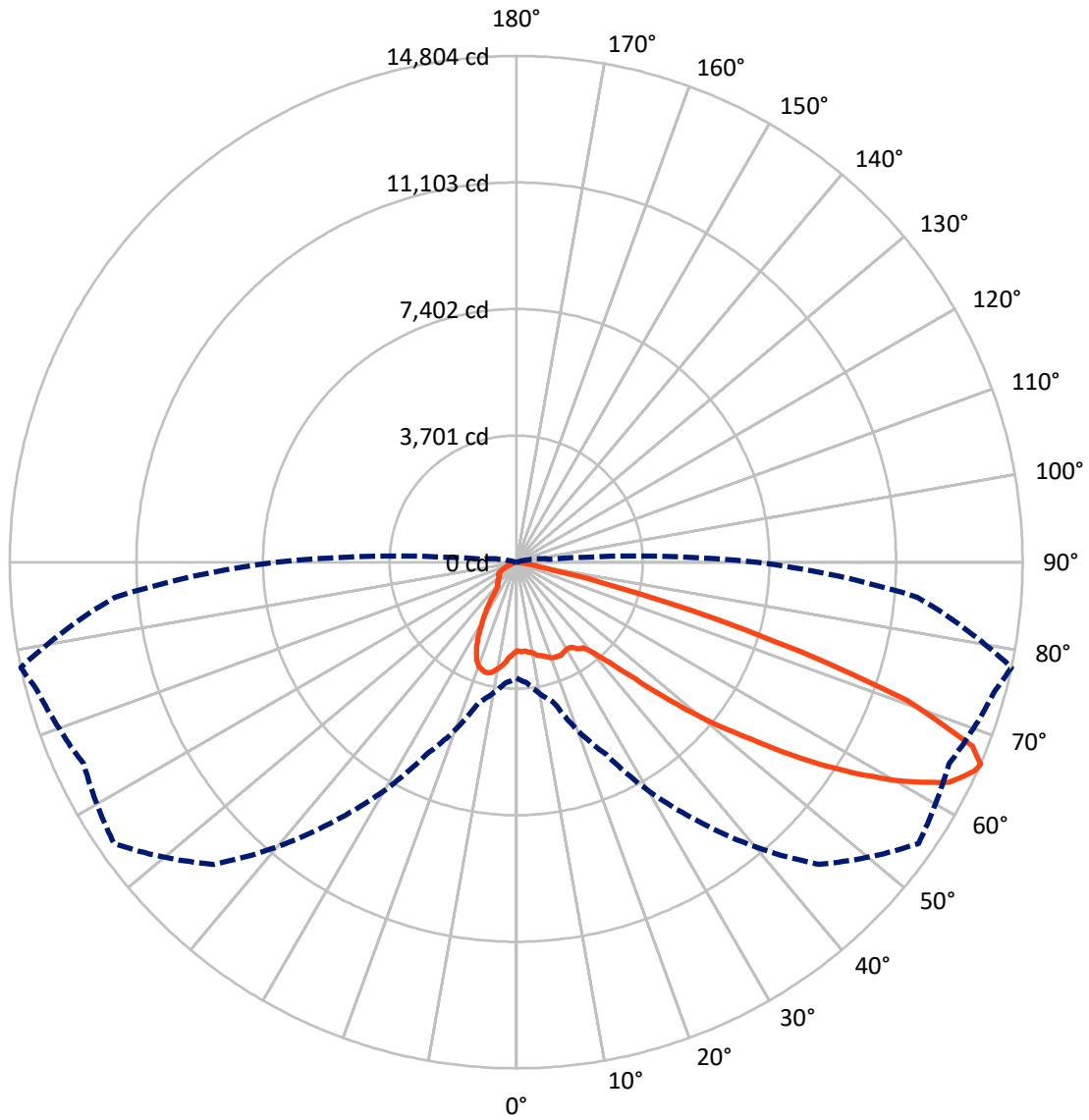
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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	1138.5	0.0	1138.5
	% Fixture	7.0	0.0	7.0
<b>Street Side</b>	Lumens	15055.7	0.0	15055.7
	% Fixture	93.0	0.0	93.0
<b>Total</b>	Lumens	16194.2	0.0	16194.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	237.3	1.5
10°-20°	535.7	3.3
20°-30°	765.6	4.7
30°-40°	1310.6	8.1
40°-50°	2365.4	14.6
50°-60°	4045.1	25.0
60°-70°	4978.8	30.7
70°-80°	1882.3	11.6
80°-90°	73.5	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°	16194.2	100.0
0°-180°	16194.2	100.0

**Coefficient of Utilization**

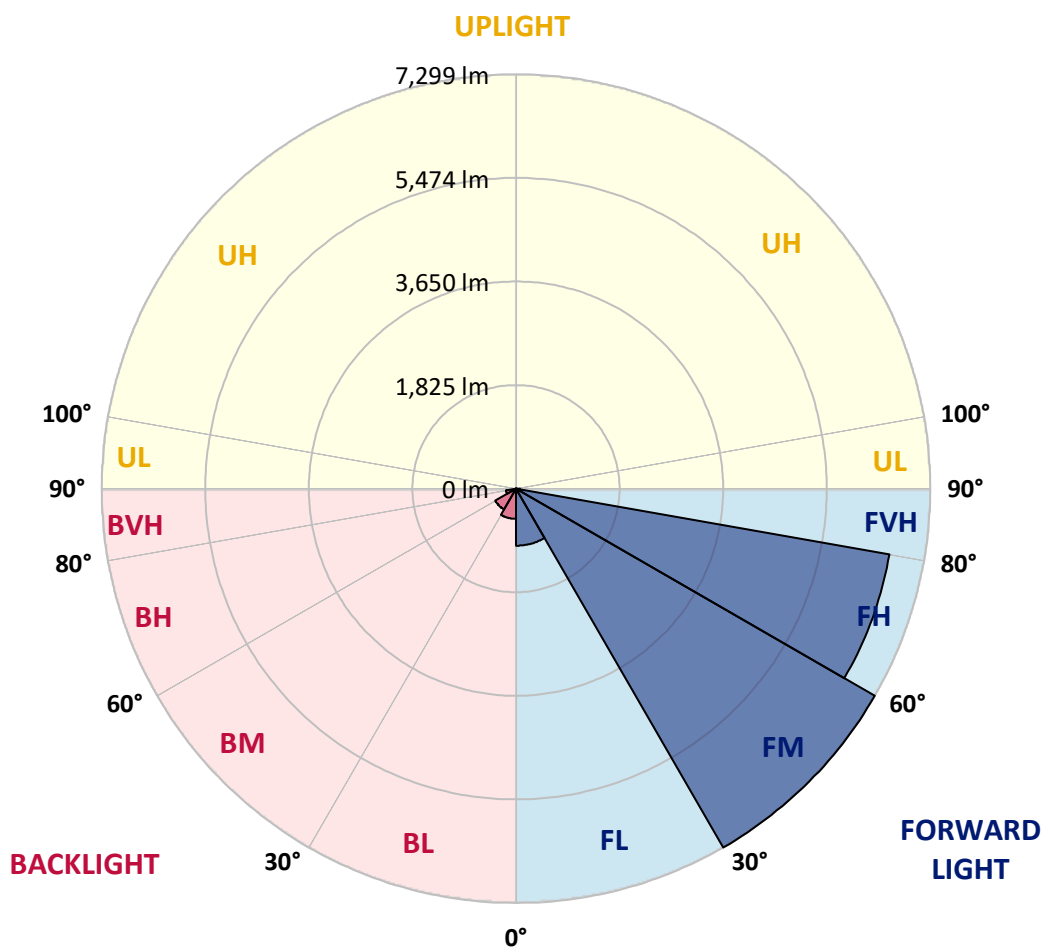


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1005.3	6.2			
FM (30°-60°)	7299.1	45.1			
FH (60°-80°)	6680.7	41.3			G3/7500
FVH (80°-90°)	70.6	0.4			G1/100
BL (0°-30°)	533.2	3.3	B2/1000		
BM (30°-60°)	422.0	2.6	B1/1000		
BH (60°-80°)	180.4	1.1	B1/500		G1/500
BVH (80°-90°)	2.9	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°	2593.8	2593.8	2593.8	2593.8	2593.8	2593.8	2593.8	2593.8	2593.8	2593.8	2593.8
2.5°	2385.8	2363.8	2385.8	2417.6	2434.7	2449.4	2500.8	2544.9	2591.3	2623.2	2613.4
5°	2212.1	2253.7	2258.6	2268.3	2295.3	2383.4	2412.7	2488.6	2603.6	2613.4	2657.4
7.5°	2075.0	2062.8	2094.6	2158.2	2226.7	2278.1	2363.8	2495.9	2615.8	2657.4	2743.1
10°	1876.8	1901.3	1935.6	1999.2	2082.4	2209.6	2361.3	2508.1	2679.4	2694.1	2853.2
12.5°	1769.2	1744.7	1798.5	1864.6	2006.5	2124.0	2309.9	2486.1	2718.6	2799.3	2982.9
15°	1681.1	1693.3	1744.7	1788.7	1906.2	2055.5	2273.2	2540.0	2784.7	2840.9	3119.9
17.5°	1644.4	1637.0	1676.2	1720.2	1864.6	2033.4	2258.6	2542.4	2843.4	2916.8	3212.9
20°	1661.5	1676.2	1663.9	1705.5	1796.1	1967.4	2280.6	2588.9	2887.4	2987.8	3313.2
22.5°	1930.7	1911.1	1813.2	1734.9	1739.8	1940.5	2263.5	2618.3	2926.6	3007.3	3381.7
25°	2632.9	2527.7	2285.5	1984.5	1786.3	1867.0	2243.9	2608.5	2919.2	3019.6	3423.3
27.5°	3340.1	3249.6	3012.2	2544.9	1974.7	1837.7	2175.4	2615.8	2882.5	2975.5	3354.8
30°	4086.4	4135.4	3783.0	3227.6	2469.0	1999.2	2131.3	2576.7	2858.1	2936.4	3369.5
32.5°	4852.4	4832.8	4619.9	4017.9	3176.2	2356.4	2202.3	2615.8	2889.9	2965.7	3455.1
35°	5451.9	5383.3	5168.0	4624.8	3761.0	2894.8	2447.0	2801.8	3029.4	3119.9	3577.5
37.5°	5747.9	5777.3	5652.5	5180.2	4402.1	3394.0	2752.8	2801.8	3073.4	3178.6	3775.7
40°	5978.0	6066.0	6019.6	5867.8	5038.3	3956.8	3090.5	2975.5	3296.1	3494.3	4147.6
42.5°	6254.5	6212.9	6486.9	6347.5	5870.3	4666.4	3682.7	3389.1	3822.2	4013.0	4705.5
45°	6401.3	6560.3	6768.3	6947.0	6641.1	5552.2	4455.9	4120.7	4627.2	4869.5	5535.1
47.5°	6778.1	6841.7	7179.4	7404.5	7267.5	6565.2	5630.5	5190.0	5640.3	6022.0	6484.5
50°	6998.3	6912.7	7385.0	7727.5	7805.8	7404.5	6682.7	6340.1	6844.2	7331.1	7372.7
52.5°	6805.0	7049.7	7522.0	8136.2	8354.0	8153.3	7918.4	7769.1	8124.0	8574.2	8373.5
55°	6127.2	6293.6	7443.7	8584.0	9286.3	9193.3	9411.1	9313.2	9670.4	10147.6	9543.2
57.5°	5581.5	5789.5	6800.1	8816.4	10154.9	10429.0	10703.1	10641.9	11072.6	11623.1	10534.2
60°	5241.4	5361.3	6335.2	8757.7	10668.8	11706.3	12325.4	11894.7	12597.0	13017.9	11309.9
62.5°	4651.7	4727.6	5657.4	7979.6	10823.0	12609.3	13659.0	13074.2	13683.5	14197.3	11867.8
65°	3729.2	3934.7	4703.1	6814.8	9805.0	12775.7	14491.0	13803.4	14393.1	14730.8	12036.7
66°	3394.0	3543.2	4247.9	6198.2	9225.1	12499.1	14351.5	13955.1	14495.9	14804.2	11777.3
67.5°	2816.5	2946.2	3506.5	5319.7	8038.3	11889.8	14449.4	13852.3	14574.2	14385.8	11429.8
70°	1864.6	1947.8	2398.0	3597.1	5598.7	9726.7	13402.1	13049.7	12812.4	12105.2	8936.4
72.5°	871.1	991.0	1497.5	2180.3	3283.8	6805.0	10928.2	10455.9	8985.3	7854.8	5637.8
75°	394.0	447.8	822.2	1250.4	1473.1	3526.1	7049.7	6367.0	4473.1	3714.5	2469.0
77.5°	212.9	242.3	401.3	594.6	535.9	1235.7	3489.4	2902.1	1409.5	1032.6	717.0
80°	163.9	193.3	335.2	340.1	198.2	320.6	1296.9	898.0	352.4	266.7	171.3
82.5°	85.6	122.3	264.3	220.2	100.3	129.7	401.3	249.6	110.1	88.1	73.4
85°	34.3	53.8	149.3	146.8	58.7	44.0	112.6	75.9	44.0	36.7	34.3
87.5°	2.4	2.4	80.8	56.3	36.7	12.2	17.1	17.1	22.0	19.6	24.5
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°	2593.8	2593.8	2593.8	2593.8	2593.8	2593.8	2593.8	2593.8	2593.8	2593.8	2593.8
2.5°	2657.4	2686.8	2691.7	2772.4	2789.6	2772.4	2816.5	2809.1	2828.7	2814.0	2787.1
5°	2718.6	2760.2	2840.9	2902.1	2902.1	2853.2	2814.0	2762.6	2686.8	2667.2	2652.5
7.5°	2823.8	2955.9	3029.4	2990.2	2911.9	2728.4	2473.9	2287.9	2131.3	2072.6	2045.7
10°	3009.8	3083.2	3168.8	3009.8	2684.3	2295.3	1867.0	1585.6	1365.4	1316.5	1279.8
12.5°	3129.7	3247.1	3296.1	2902.1	2263.5	1683.5	1218.6	900.5	746.3	628.9	609.3
15°	3286.3	3420.9	3320.5	2610.9	1783.8	1103.6	631.3	394.0	320.6	301.0	301.0
17.5°	3394.0	3540.8	3220.2	2248.8	1265.1	587.3	313.2	271.6	266.7	269.2	264.3
20°	3582.4	3670.5	3068.5	1827.9	756.1	301.0	252.0	242.3	237.4	244.7	239.8
22.5°	3653.3	3734.1	2821.4	1323.8	340.1	200.7	188.4	181.1	186.0	183.5	181.1
25°	3648.4	3690.0	2415.2	758.6	100.3	78.3	71.0	71.0	66.1	68.5	66.1
27.5°	3685.1	3582.4	1960.0	225.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	3704.7	3408.6	1394.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	3714.5	3318.1	898.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	3790.4	3137.0	384.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	3841.7	2904.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4054.6	2831.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4331.1	2694.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	4715.3	2491.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5224.3	2371.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	5603.6	2182.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	6085.6	2070.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6658.2	2075.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	7179.4	2040.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	7446.1	1744.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	7389.9	1411.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	7194.1	1108.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	7059.5	981.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6650.9	785.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	5292.8	538.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3367.0	330.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1551.4	151.7	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	486.9	93.0	19.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	127.2	58.7	19.6	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	66.1	41.6	17.1	7.3	4.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	41.6	17.1	7.3	4.9	4.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	36.7	9.8	4.9	4.9	2.4	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)