

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: P482788

Luminaire Tested: **IFLD-L-SA8A-730-U-T3R-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482788  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-730-U-T3R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R  
distribution lens with House Side Shield  
Light Source: (128) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

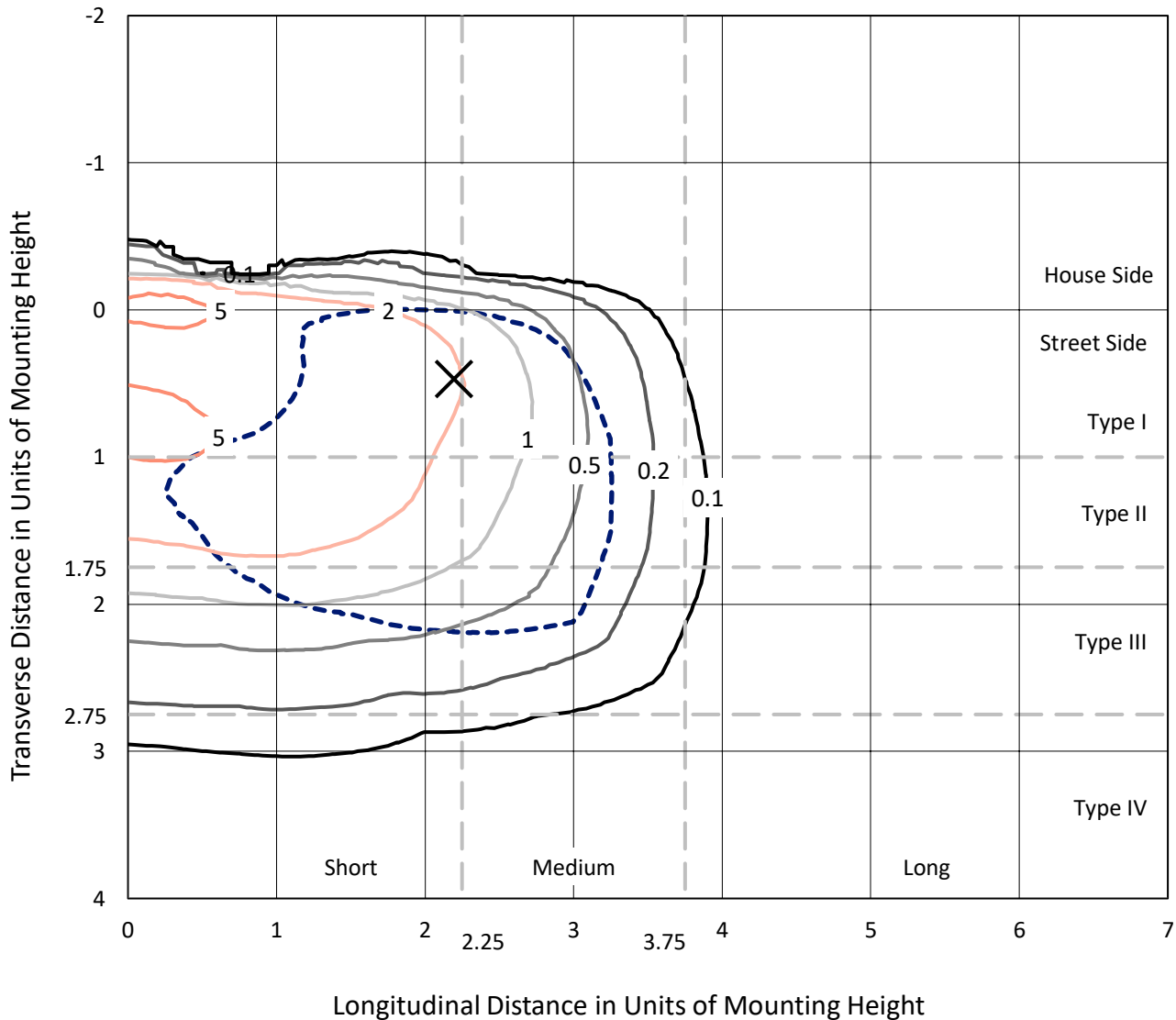
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22360.3 lumens  
Efficiency: N/A  
Efficacy: 90.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 247.8  
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

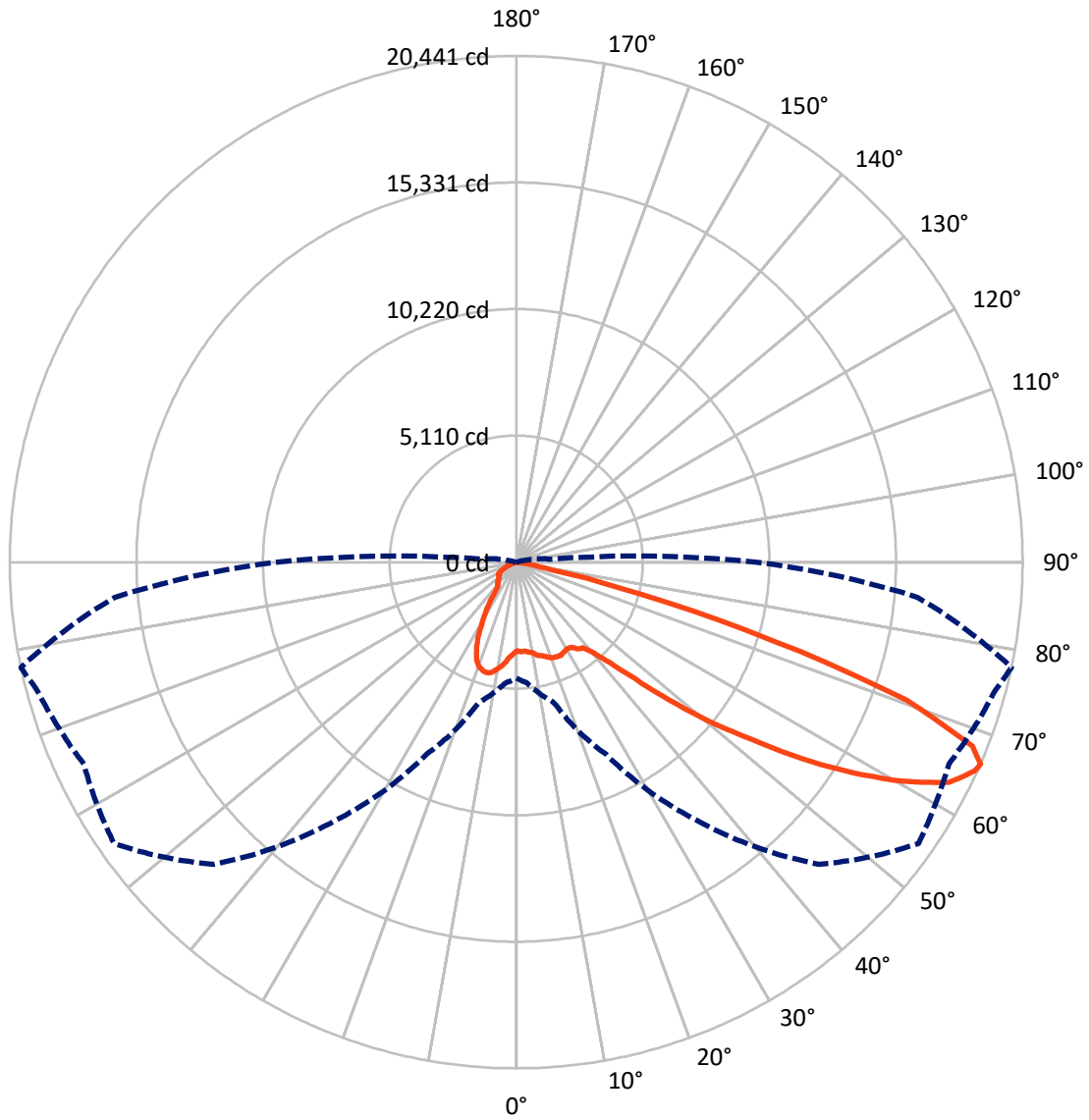
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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	1572.0	0.0	1572.0
	% Fixture	7.0	0.0	7.0
<b>Street Side</b>	Lumens	20788.2	0.0	20788.2
	% Fixture	93.0	0.0	93.0
<b>Total</b>	Lumens	22360.3	0.0	22360.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	327.6	1.5
10°-20°	739.6	3.3
20°-30°	1057.1	4.7
30°-40°	1809.6	8.1
40°-50°	3266.0	14.6
50°-60°	5585.3	25.0
60°-70°	6874.5	30.7
70°-80°	2599.0	11.6
80°-90°	101.5	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°	22360.3	100.0
0°-180°	22360.3	100.0

**Coefficient of Utilization**

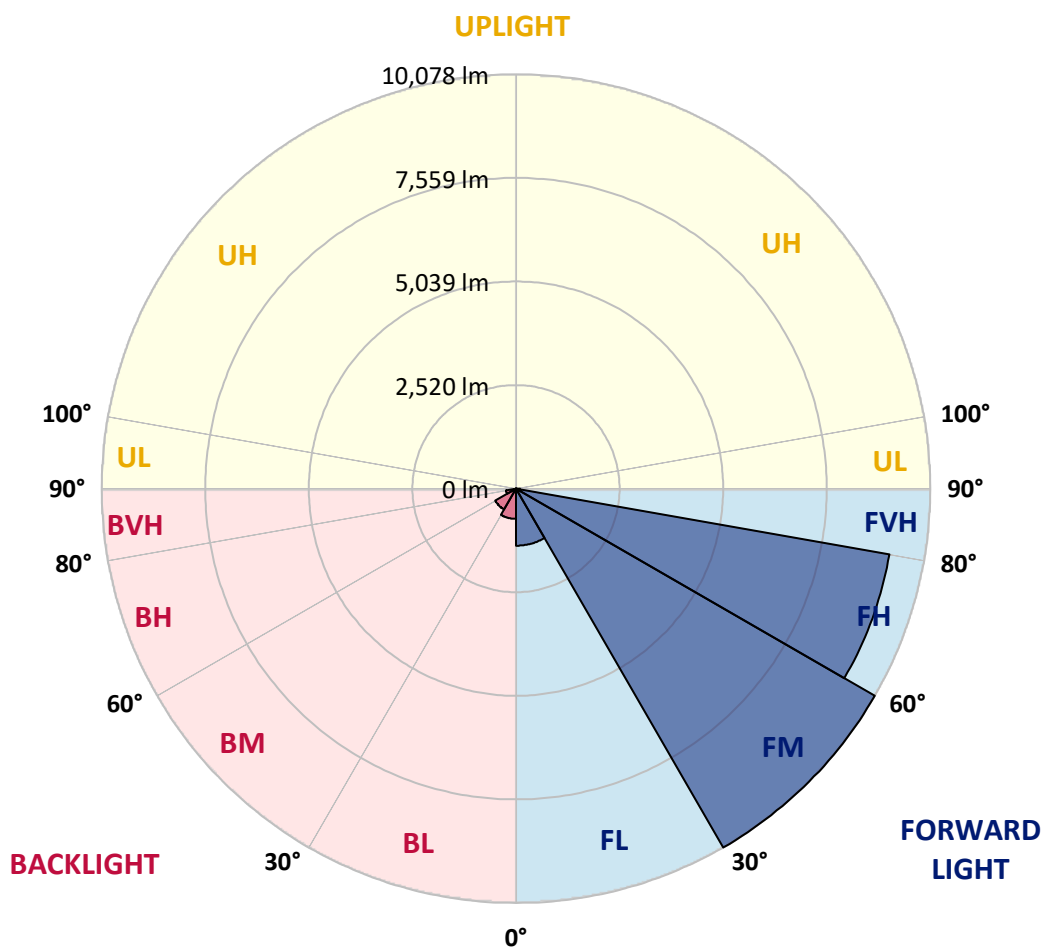


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1388.1	6.2			
FM (30°-60°)	10078.2	45.1			
FH (60°-80°)	9224.4	41.3			G4/12000
FVH (80°-90°)	97.4	0.4			G1/100
BL (0°-30°)	736.2	3.3	B2/1000		
BM (30°-60°)	582.6	2.6	B1/1000		
BH (60°-80°)	249.1	1.1	B1/500		G1/500
BVH (80°-90°)	4.1	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-G4**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	3581.4	3581.4	3581.4	3581.4	3581.4	3581.4	3581.4	3581.4	3581.4	3581.4	3581.4
2.5°	3294.2	3263.8	3294.2	3338.1	3361.8	3382.0	3453.0	3513.8	3578.0	3621.9	3608.4
5°	3054.3	3111.8	3118.5	3132.0	3169.2	3290.8	3331.4	3436.1	3594.9	3608.4	3669.2
7.5°	2865.1	2848.2	2892.1	2980.0	3074.6	3145.5	3263.8	3446.2	3611.8	3669.2	3787.5
10°	2591.4	2625.2	2672.5	2760.4	2875.2	3050.9	3260.4	3463.1	3699.6	3719.9	3939.5
12.5°	2442.8	2409.0	2483.3	2574.5	2770.5	2932.7	3189.5	3432.7	3753.7	3865.2	4118.6
15°	2321.1	2338.0	2409.0	2469.8	2632.0	2838.1	3138.8	3507.1	3844.9	3922.6	4307.8
17.5°	2270.5	2260.3	2314.4	2375.2	2574.5	2807.7	3118.5	3510.4	3926.0	4027.4	4436.2
20°	2294.1	2314.4	2297.5	2354.9	2479.9	2716.4	3148.9	3574.6	3986.8	4125.4	4574.7
22.5°	2665.8	2638.7	2503.6	2395.5	2402.2	2679.3	3125.3	3615.2	4040.9	4152.4	4669.3
25°	3635.4	3490.2	3155.7	2740.1	2466.4	2577.9	3098.2	3601.7	4030.8	4169.3	4726.8
27.5°	4611.9	4486.9	4159.1	3513.8	2726.6	2537.4	3003.6	3611.8	3980.1	4108.5	4632.2
30°	5642.4	5710.0	5223.4	4456.5	3409.1	2760.4	2942.8	3557.7	3946.3	4054.4	4652.4
32.5°	6699.9	6672.9	6378.9	5547.8	4385.5	3253.7	3040.8	3611.8	3990.2	4094.9	4770.7
35°	7527.7	7433.1	7135.7	6385.7	5193.0	3997.0	3378.7	3868.6	4182.8	4307.8	4939.6
37.5°	7936.5	7977.0	7804.7	7152.6	6078.2	4686.2	3801.0	3868.6	4243.6	4388.9	5213.3
40°	8254.1	8375.7	8311.5	8102.0	6956.7	5463.3	4267.3	4108.5	4551.1	4824.7	5726.8
42.5°	8635.9	8578.4	8956.9	8764.3	8105.4	6443.1	5084.9	4679.5	5277.5	5541.0	6497.2
45°	8838.6	9058.2	9345.4	9592.0	9169.7	7666.2	6152.6	5689.7	6389.1	6723.6	7642.5
47.5°	9358.9	9446.8	9913.0	10223.9	10034.6	9065.0	7774.3	7166.2	7787.8	8314.9	8953.5
50°	9663.0	9544.7	10196.8	10669.8	10778.0	10223.9	9227.1	8754.1	9450.1	10122.5	10179.9
52.5°	9396.1	9733.9	10386.0	11234.1	11534.8	11257.7	10933.4	10727.3	11217.2	11838.9	11561.8
55°	8460.2	8689.9	10277.9	11852.4	12822.0	12693.7	12994.4	12859.2	13352.5	14011.3	13176.8
57.5°	7706.7	7993.9	9389.3	12173.3	14021.5	14399.9	14778.3	14693.8	15288.5	16048.7	14545.2
60°	7237.1	7402.7	8747.4	12092.3	14731.0	16163.6	17018.4	16423.7	17393.4	17974.5	15616.2
62.5°	6422.8	6527.6	7811.5	11017.8	14943.9	17410.3	18859.7	18052.2	18893.5	19603.0	16386.5
65°	5149.1	5432.9	6493.8	9409.6	13538.3	17640.0	20008.5	19059.1	19873.3	20339.6	16619.7
66°	4686.2	4892.3	5865.4	8558.2	12737.6	17258.2	19815.9	19268.5	20015.2	20440.9	16261.5
67.5°	3888.8	4067.9	4841.6	7345.2	11098.9	16417.0	19951.0	19126.6	20123.4	19863.2	15781.8
70°	2574.5	2689.4	3311.1	4966.6	7730.4	13430.2	18505.0	18018.4	17690.7	16714.3	12338.9
72.5°	1202.8	1368.4	2067.7	3010.4	4534.2	9396.1	15089.1	14437.1	12406.5	10845.5	7784.5
75°	544.0	618.3	1135.2	1726.5	2034.0	4868.7	9733.9	8791.3	6176.2	5128.8	3409.1
77.5°	293.9	334.5	554.1	821.0	739.9	1706.2	4818.0	4007.1	1946.1	1425.8	989.9
80°	226.4	266.9	462.9	469.6	273.7	442.6	1790.7	1240.0	486.5	368.3	236.5
82.5°	118.3	168.9	364.9	304.1	138.5	179.1	554.1	344.6	152.0	121.6	101.4
85°	47.3	74.3	206.1	202.7	81.1	60.8	155.4	104.7	60.8	50.7	47.3
87.5°	3.4	3.4	111.5	77.7	50.7	16.9	23.7	23.7	30.4	27.0	33.8
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°	3581.4	3581.4	3581.4	3581.4	3581.4	3581.4	3581.4	3581.4	3581.4	3581.4	3581.4
2.5°	3669.2	3709.8	3716.5	3828.0	3851.7	3828.0	3888.8	3878.7	3905.7	3885.5	3848.3
5°	3753.7	3811.1	3922.6	4007.1	4007.1	3939.5	3885.5	3814.5	3709.8	3682.7	3662.5
7.5°	3899.0	4081.4	4182.8	4128.7	4020.6	3767.2	3415.8	3159.1	2942.8	2861.7	2824.6
10°	4155.8	4257.1	4375.4	4155.8	3706.4	3169.2	2577.9	2189.4	1885.3	1817.7	1767.0
12.5°	4321.3	4483.5	4551.1	4007.1	3125.3	2324.5	1682.6	1243.4	1030.5	868.3	841.3
15°	4537.6	4723.4	4584.9	3605.0	2463.0	1523.8	871.7	544.0	442.6	415.6	415.6
17.5°	4686.2	4888.9	4446.3	3105.0	1746.8	810.9	432.5	375.0	368.3	371.7	364.9
20°	4946.4	5068.0	4236.9	2523.9	1044.0	415.6	348.0	334.5	327.7	337.9	331.1
22.5°	5044.4	5155.8	3895.6	1827.9	469.6	277.1	260.2	250.0	256.8	253.4	250.0
25°	5037.6	5095.0	3334.7	1047.4	138.5	108.1	98.0	98.0	91.2	94.6	91.2
27.5°	5088.3	4946.4	2706.3	310.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	5115.3	4706.5	1925.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	5128.8	4581.5	1240.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	5233.6	4331.5	530.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	5304.5	4010.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5598.5	3909.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5980.2	3719.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	6510.7	3439.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	7213.5	3273.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	7737.2	3013.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	8402.7	2858.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	9193.4	2865.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	9913.0	2817.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	10281.3	2409.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	10203.6	1949.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	9933.3	1530.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	9747.5	1354.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	9183.2	1084.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	7308.1	743.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4649.0	456.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	2142.1	209.5	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	672.4	128.4	27.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	175.7	81.1	27.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	91.2	57.4	23.7	10.1	6.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	57.4	23.7	10.1	6.8	6.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	50.7	13.5	6.8	6.8	3.4	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)