

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: P482749

Luminaire Tested: **IFLD-L-SA8A-727-U-T3R-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482749  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-727-U-T3R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R  
distribution lens with House Side Shield  
Light Source: (128) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

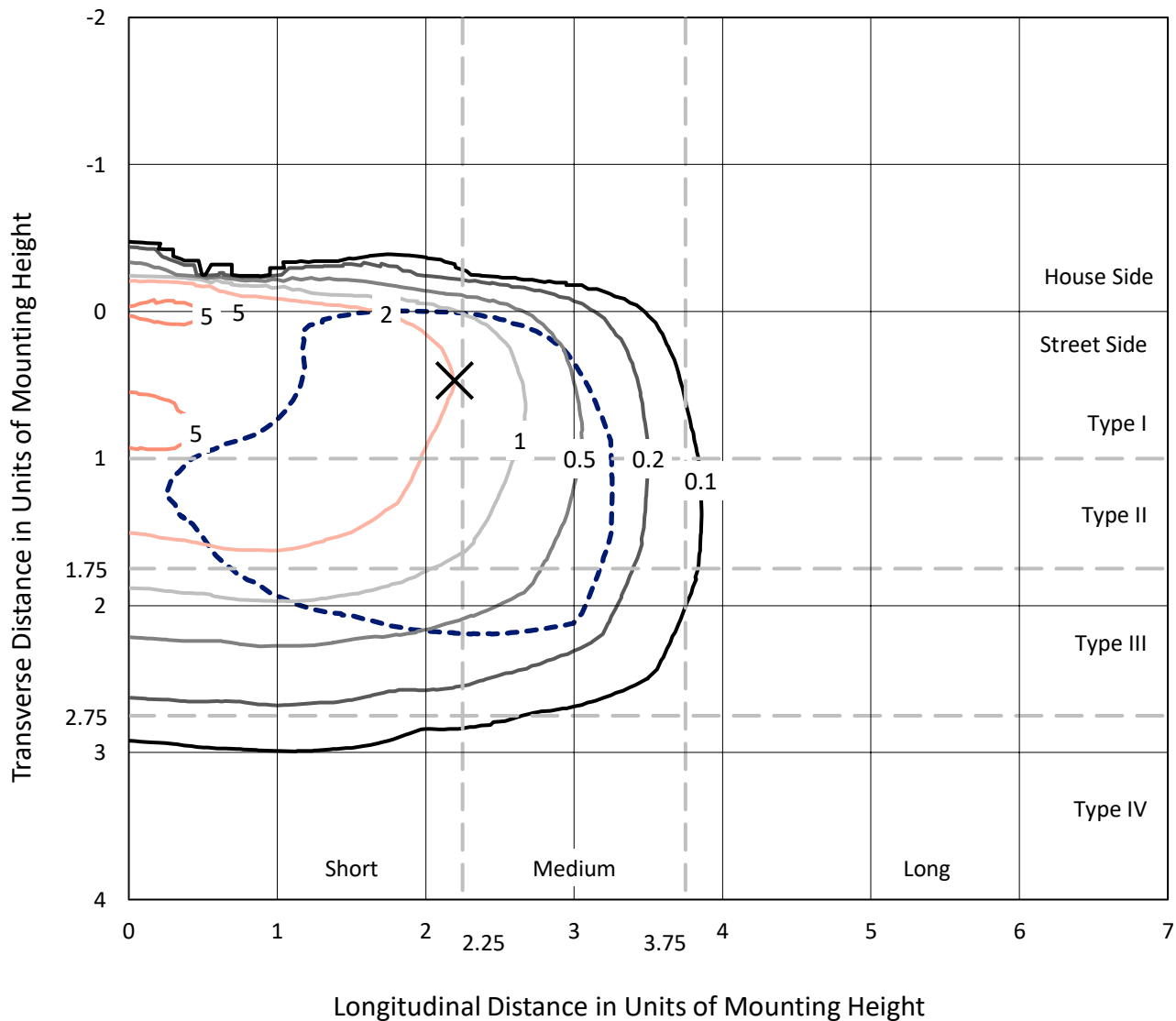
Lumens per Lamp: N/A  
Luminaire Lumens: 20535.8 lumens  
Efficiency: N/A  
Efficacy: 82.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 247.8  
Input Voltage (V): 120  
Input Current (Ain): 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

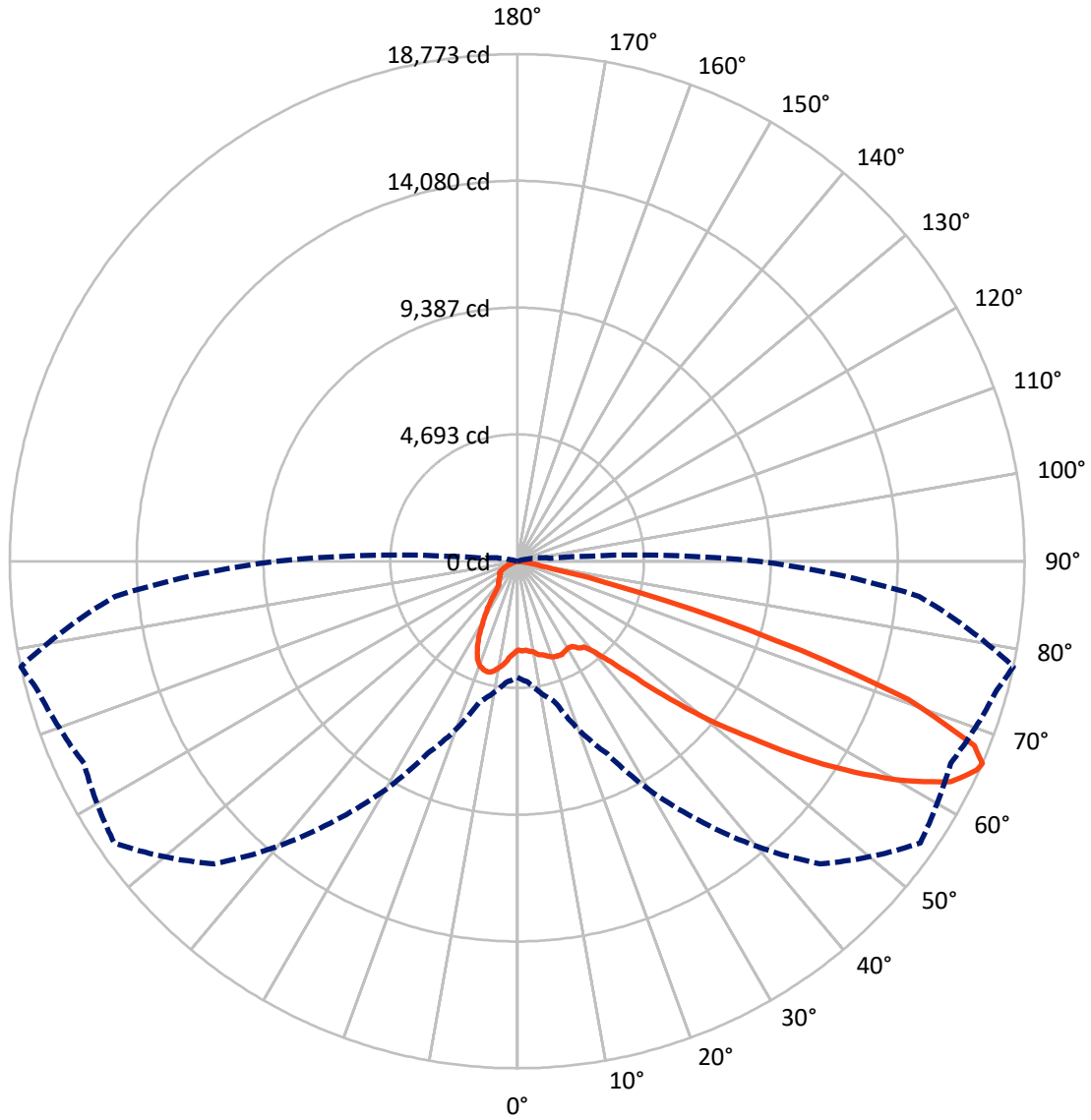
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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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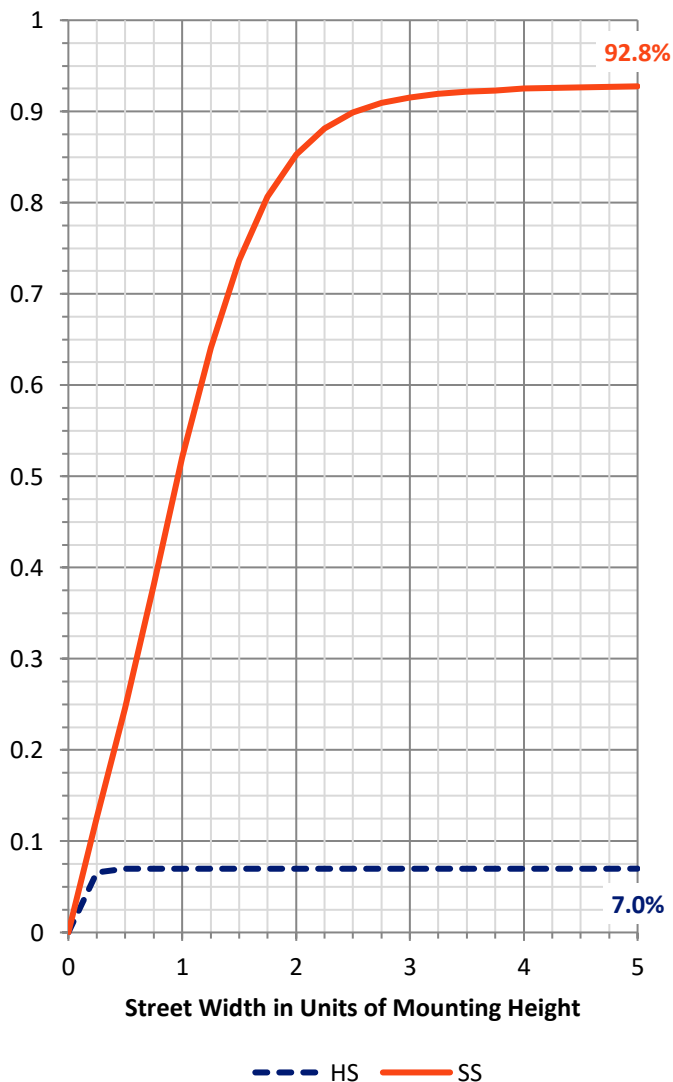
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1443.8	0.0	1443.8
	% Fixture	7.0	0.0	7.0
<b>Street Side</b>	Lumens	19092.0	0.0	19092.0
	% Fixture	93.0	0.0	93.0
<b>Total</b>	Lumens	20535.8	0.0	20535.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	300.9	1.5
10°-20°	679.3	3.3
20°-30°	970.9	4.7
30°-40°	1661.9	8.1
40°-50°	2999.5	14.6
50°-60°	5129.6	25.0
60°-70°	6313.6	30.7
70°-80°	2386.9	11.6
80°-90°	93.2	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°	20535.8	100.0
0°-180°	20535.8	100.0

**Coefficient of Utilization**

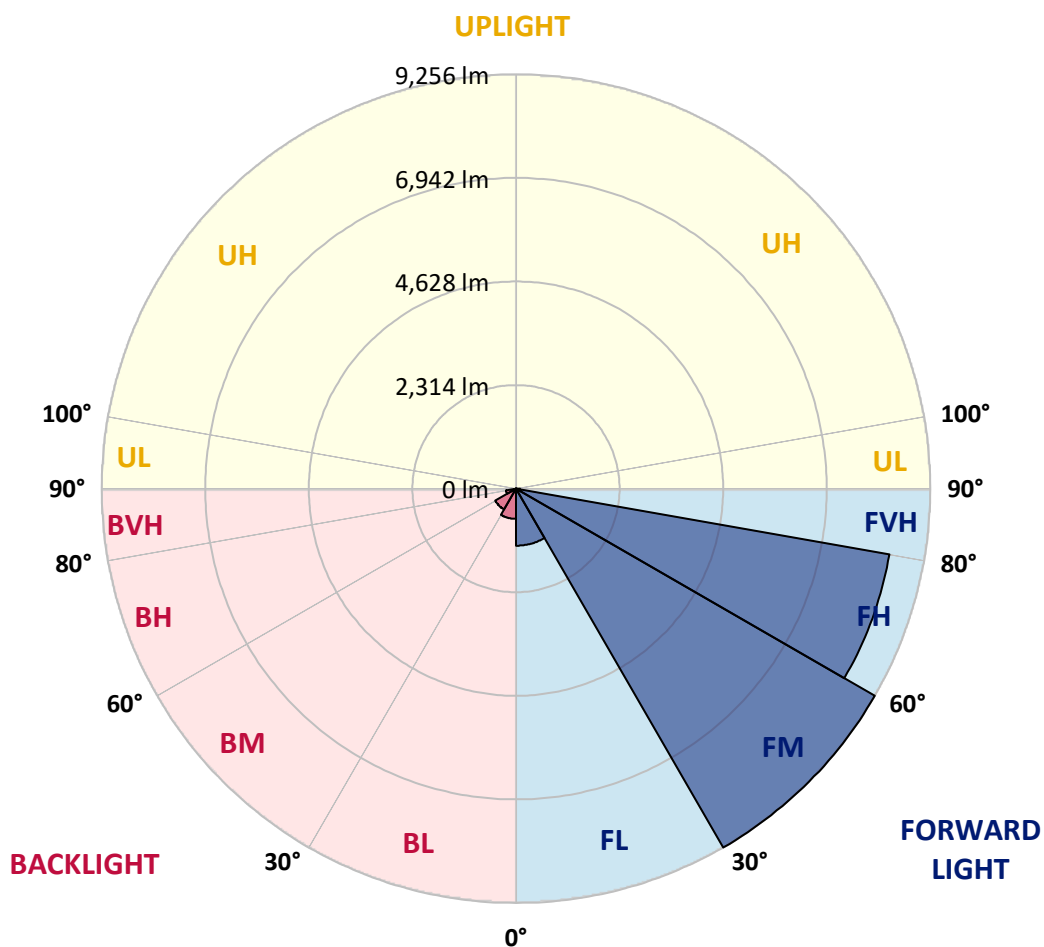


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1274.9	6.2			
FM (30°-60°)	9255.9	45.1			
FH (60°-80°)	8471.8	41.3			G4/12000
FVH (80°-90°)	89.5	0.4			G1/100
BL (0°-30°)	676.2	3.3	B2/1000		
BM (30°-60°)	535.1	2.6	B1/1000		
BH (60°-80°)	228.7	1.1	B1/500		G1/500
BVH (80°-90°)	3.7	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°	3289.2	3289.2	3289.2	3289.2	3289.2	3289.2	3289.2	3289.2	3289.2	3289.2	3289.2
2.5°	3025.4	2997.5	3025.4	3065.8	3087.5	3106.1	3171.3	3227.1	3286.1	3326.4	3314.0
5°	2805.1	2857.9	2864.1	2876.5	2910.6	3022.3	3059.5	3155.7	3301.6	3314.0	3369.8
7.5°	2631.3	2615.8	2656.2	2736.8	2823.7	2888.9	2997.5	3165.0	3317.1	3369.8	3478.4
10°	2380.0	2411.0	2454.5	2535.1	2640.6	2802.0	2994.4	3180.6	3397.8	3416.4	3618.1
12.5°	2243.5	2212.4	2280.7	2364.5	2544.5	2693.4	2929.2	3152.6	3447.4	3549.8	3782.5
15°	2131.8	2147.3	2212.4	2268.3	2417.2	2606.5	2882.7	3220.9	3531.2	3602.6	3956.3
17.5°	2085.2	2075.9	2125.5	2181.4	2364.5	2578.6	2864.1	3224.0	3605.7	3698.8	4074.2
20°	2106.9	2125.5	2110.0	2162.8	2277.6	2494.8	2892.0	3283.0	3661.5	3788.7	4201.4
22.5°	2448.3	2423.4	2299.3	2200.0	2206.2	2460.7	2870.3	3320.2	3711.2	3813.6	4288.3
25°	3338.8	3205.4	2898.2	2516.5	2265.2	2367.6	2845.4	3307.8	3701.9	3829.1	4341.1
27.5°	4235.6	4120.8	3819.8	3227.1	2504.1	2330.3	2758.6	3317.1	3655.3	3773.2	4254.2
30°	5182.0	5244.0	4797.2	4092.8	3130.9	2535.1	2702.7	3267.4	3624.3	3723.6	4272.8
32.5°	6153.2	6128.4	5858.4	5095.1	4027.7	2988.2	2792.7	3317.1	3664.6	3760.8	4381.4
35°	6913.5	6826.6	6553.5	5864.6	4769.3	3670.8	3103.0	3552.9	3841.5	3956.3	4536.6
37.5°	7288.9	7326.2	7167.9	6569.0	5582.3	4303.8	3490.9	3552.9	3897.4	4030.8	4787.9
40°	7580.6	7692.3	7633.4	7441.0	6389.1	5017.5	3919.1	3773.2	4179.7	4431.1	5259.6
42.5°	7931.2	7878.5	8226.0	8049.2	7444.1	5917.4	4670.0	4297.6	4846.9	5088.9	5967.0
45°	8117.4	8319.1	8582.9	8809.4	8421.5	7040.7	5650.5	5225.4	5867.8	6174.9	7019.0
47.5°	8595.3	8676.0	9104.2	9389.6	9215.9	8325.3	7140.0	6581.4	7152.4	7636.5	8222.9
50°	8874.5	8765.9	9364.8	9799.2	9898.5	9389.6	8474.3	8039.8	8679.1	9296.6	9349.3
52.5°	8629.4	8939.7	9538.6	10317.4	10593.6	10339.2	10041.3	9852.0	10301.9	10872.9	10618.4
55°	7769.9	7980.9	9439.3	10885.3	11775.8	11657.9	11934.1	11810.0	12263.0	12868.1	12101.7
57.5°	7077.9	7341.7	8623.2	11180.1	12877.4	13224.9	13572.5	13494.9	14041.0	14739.2	13358.4
60°	6646.6	6798.6	8033.6	11105.6	13529.0	14844.7	15629.7	15083.6	15974.2	16507.9	14342.0
62.5°	5898.8	5995.0	7174.1	10118.8	13724.5	15989.7	17320.9	16579.3	17351.9	18003.5	15049.5
65°	4729.0	4989.6	5963.9	8641.8	12433.7	16200.7	18375.9	17504.0	18251.8	18680.0	15263.6
66°	4303.8	4493.1	5386.8	7859.9	11698.3	15850.1	18199.0	17696.3	18382.1	18773.1	14934.7
67.5°	3571.5	3736.0	4446.6	6745.9	10193.3	15077.4	18323.1	17566.0	18481.4	18242.5	14494.1
70°	2364.5	2470.0	3040.9	4561.4	7099.6	12334.4	16995.1	16548.2	16247.2	15350.5	11332.1
72.5°	1104.7	1256.7	1899.0	2764.8	4164.2	8629.4	13857.9	13259.1	11394.2	9960.6	7149.3
75°	499.6	567.8	1042.6	1585.6	1868.0	4471.4	8939.7	8074.0	5672.3	4710.3	3130.9
77.5°	270.0	307.2	508.9	754.0	679.6	1567.0	4424.9	3680.1	1787.3	1309.5	909.2
80°	207.9	245.1	425.1	431.3	251.3	406.5	1644.6	1138.8	446.8	338.2	217.2
82.5°	108.6	155.1	335.1	279.3	127.2	164.5	508.9	316.5	139.6	111.7	93.1
85°	43.4	68.3	189.3	186.2	74.5	55.9	142.7	96.2	55.9	46.5	43.4
87.5°	3.1	3.1	102.4	71.4	46.5	15.5	21.7	21.7	27.9	24.8	31.0
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°	3289.2	3289.2	3289.2	3289.2	3289.2	3289.2	3289.2	3289.2	3289.2	3289.2	3289.2
2.5°	3369.8	3407.1	3413.3	3515.7	3537.4	3515.7	3571.5	3562.2	3587.1	3568.4	3534.3
5°	3447.4	3500.2	3602.6	3680.1	3680.1	3618.1	3568.4	3503.3	3407.1	3382.3	3363.6
7.5°	3580.8	3748.4	3841.5	3791.9	3692.6	3459.8	3137.1	2901.3	2702.7	2628.2	2594.1
10°	3816.7	3909.8	4018.4	3816.7	3404.0	2910.6	2367.6	2010.7	1731.5	1669.4	1622.9
12.5°	3968.7	4117.7	4179.7	3680.1	2870.3	2134.9	1545.3	1141.9	946.4	797.5	772.6
15°	4167.3	4338.0	4210.8	3310.9	2262.1	1399.4	800.6	499.6	406.5	381.7	381.7
17.5°	4303.8	4490.0	4083.5	2851.6	1604.2	744.7	397.2	344.4	338.2	341.3	335.1
20°	4542.8	4654.5	3891.1	2317.9	958.8	381.7	319.6	307.2	301.0	310.3	304.1
22.5°	4632.8	4735.2	3577.7	1678.7	431.3	254.4	238.9	229.6	235.8	232.7	229.6
25°	4626.6	4679.3	3062.6	961.9	127.2	99.3	90.0	90.0	83.8	86.9	83.8
27.5°	4673.1	4542.8	2485.5	285.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	4697.9	4322.5	1768.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	4710.3	4207.7	1138.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	4806.5	3978.0	487.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	4871.7	3683.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5141.7	3590.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5492.3	3416.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	5979.5	3158.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	6624.9	3006.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	7105.8	2767.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	7717.1	2625.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	8443.2	2631.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	9104.2	2587.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	9442.4	2212.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	9371.0	1790.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	9122.8	1405.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	8952.1	1244.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	8433.9	996.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	6711.8	682.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4269.7	418.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1967.3	192.4	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	617.5	117.9	24.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	161.4	74.5	24.8	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	83.8	52.8	21.7	9.3	6.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	52.8	21.7	9.3	6.2	6.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	46.5	12.4	6.2	6.2	3.1	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)