

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: P482823

Luminaire Tested: **IFLD-L-SA7B-735-U-T3R-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482823  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7B-735-U-T3R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R  
distribution lens with House Side Shield  
Light Source: (112) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

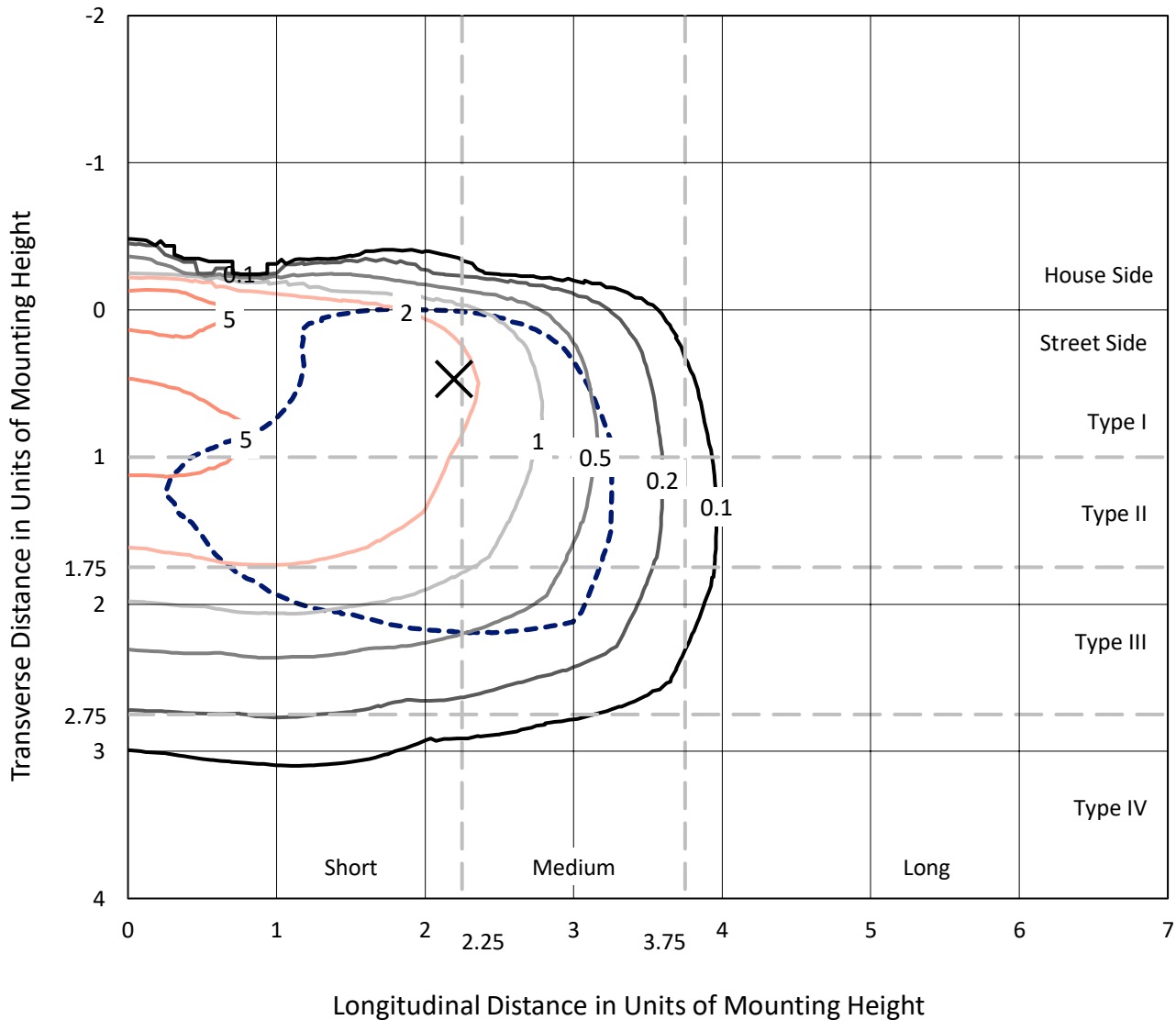
Lumens per Lamp: N/A  
Luminaire Lumens: 25177.7 lumens  
Efficiency: N/A  
Efficacy: 89.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 281  
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

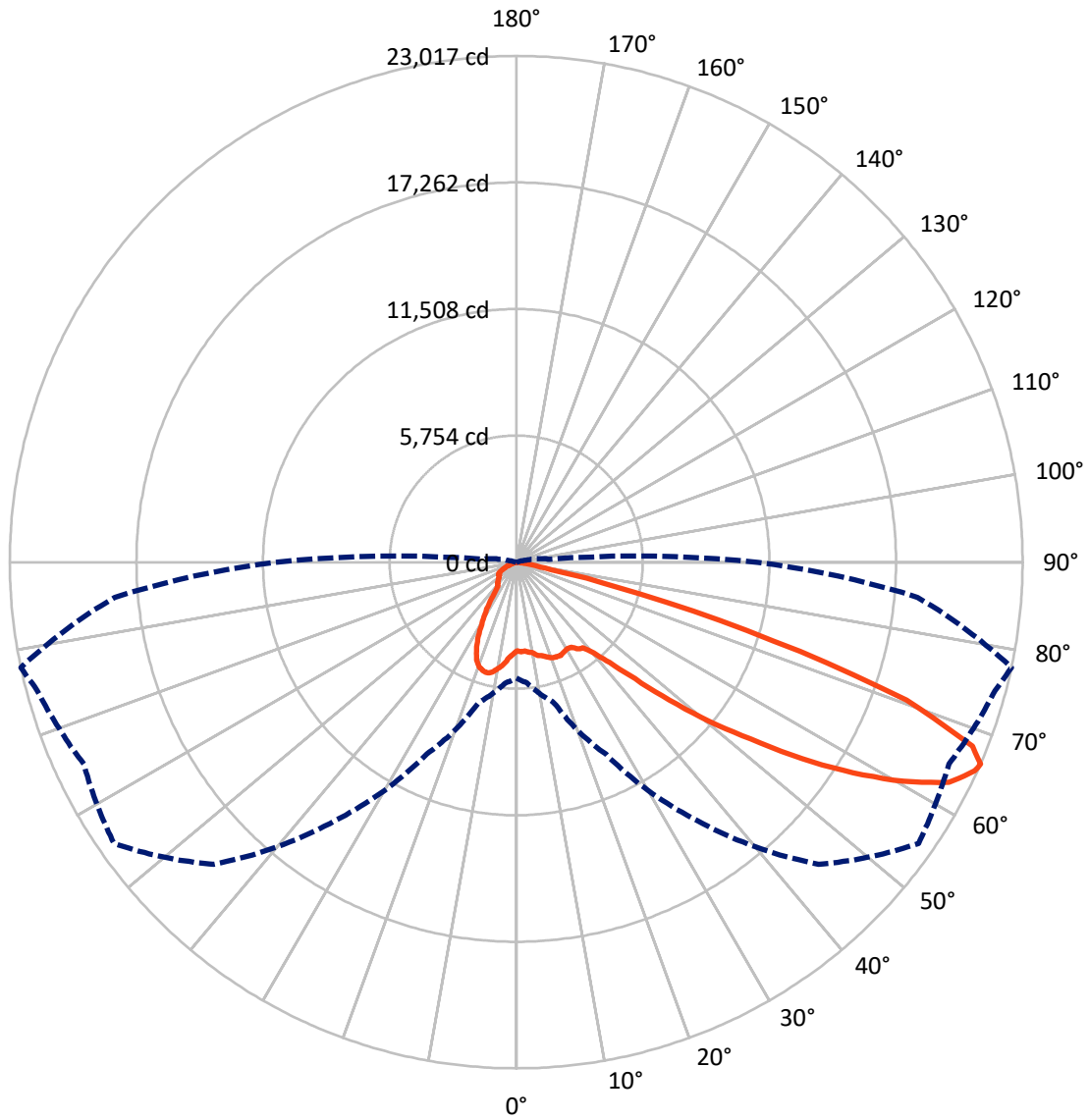
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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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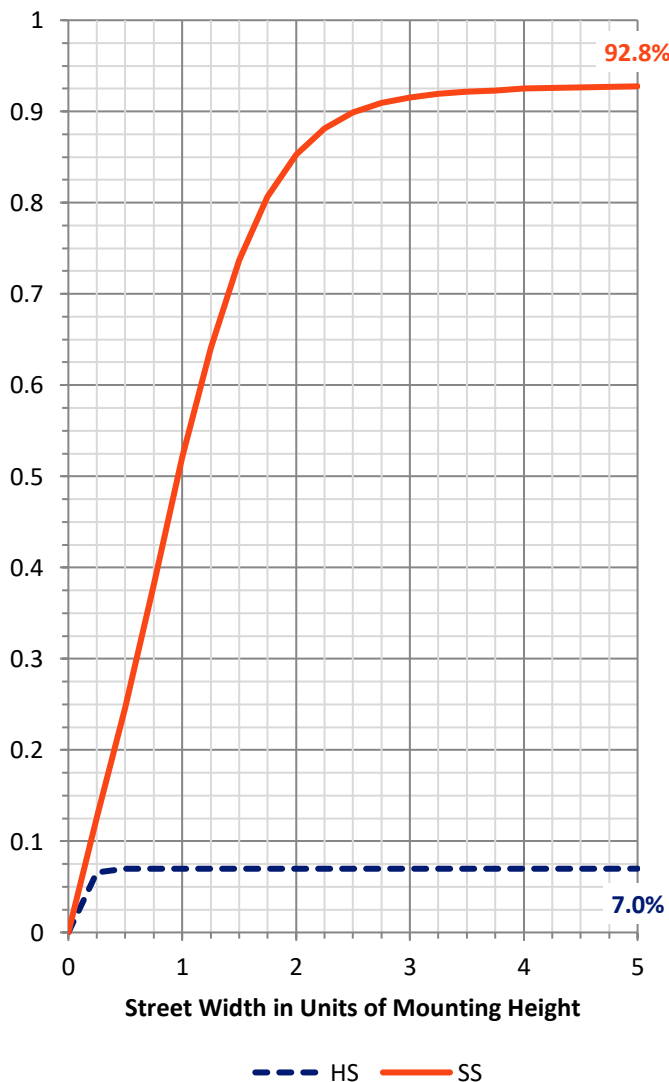
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1770.1	0.0	1770.1
	% Fixture	7.0	0.0	7.0
<b>Street Side</b>	Lumens	23407.6	0.0	23407.6
	% Fixture	93.0	0.0	93.0
<b>Total</b>	Lumens	25177.7	0.0	25177.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	368.9	1.5
10°-20°	832.8	3.3
20°-30°	1190.3	4.7
30°-40°	2037.6	8.1
40°-50°	3677.5	14.6
50°-60°	6289.1	25.0
60°-70°	7740.7	30.7
70°-80°	2926.4	11.6
80°-90°	114.3	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°	25177.7	100.0
0°-180°	25177.7	100.0

**Coefficient of Utilization**

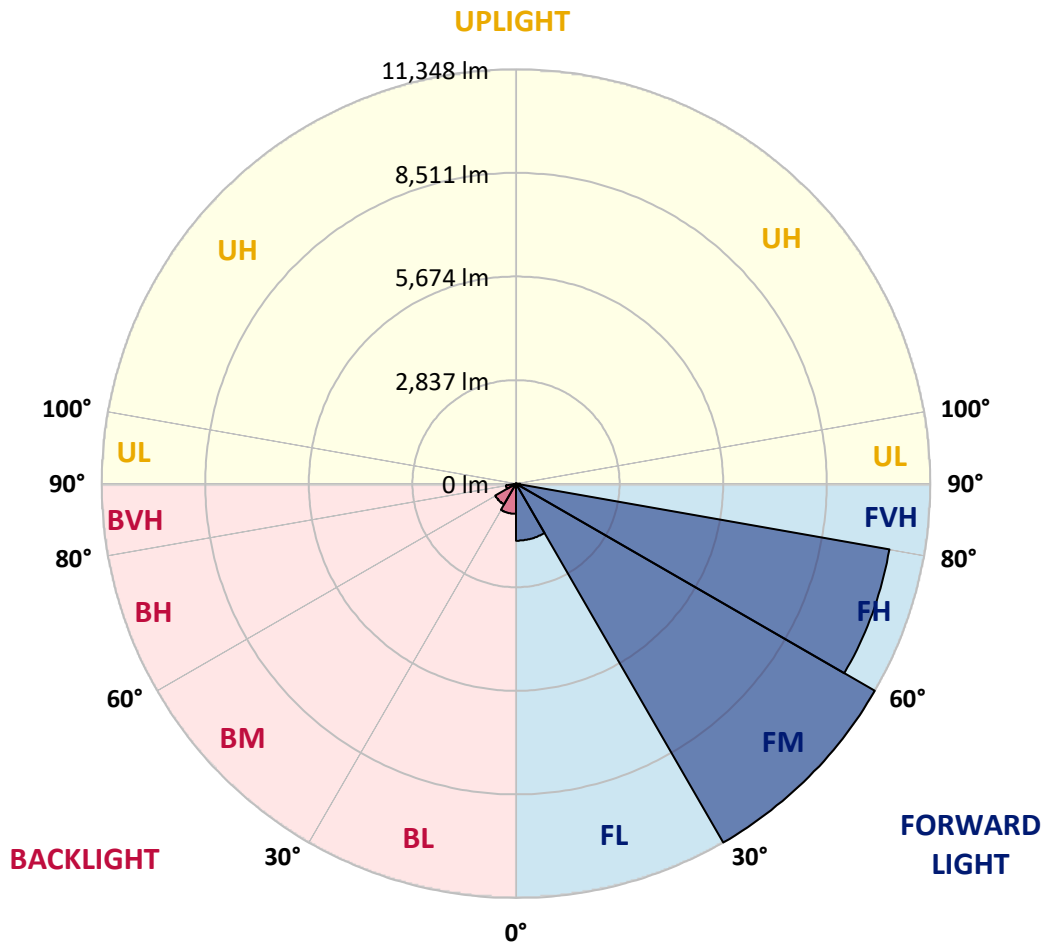


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1563.0	6.2			
FM (30°-60°)	11348.1	45.1			
FH (60°-80°)	10386.7	41.3			G4/12000
FVH (80°-90°)	109.7	0.4			G2/225
BL (0°-30°)	829.0	3.3	B2/1000		
BM (30°-60°)	656.1	2.6	B1/1000		
BH (60°-80°)	280.4	1.1	B1/500		G1/500
BVH (80°-90°)	4.6	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°	4032.7	4032.7	4032.7	4032.7	4032.7	4032.7	4032.7	4032.7	4032.7	4032.7	4032.7
2.5°	3709.3	3675.0	3709.3	3758.7	3785.4	3808.2	3888.1	3956.6	4028.8	4078.3	4063.1
5°	3439.2	3503.8	3511.4	3526.7	3568.5	3705.5	3751.1	3869.1	4047.9	4063.1	4131.6
7.5°	3226.1	3207.1	3256.6	3355.5	3462.0	3541.9	3675.0	3880.5	4066.9	4131.6	4264.7
10°	2918.0	2956.0	3009.3	3108.2	3237.5	3435.4	3671.2	3899.5	4165.8	4188.6	4435.9
12.5°	2750.6	2712.5	2796.2	2898.9	3119.6	3302.2	3591.3	3865.3	4226.7	4352.2	4637.5
15°	2613.6	2632.6	2712.5	2781.0	2963.6	3195.7	3534.3	3949.0	4329.4	4416.9	4850.6
17.5°	2556.5	2545.1	2606.0	2674.5	2898.9	3161.4	3511.4	3952.8	4420.7	4534.8	4995.2
20°	2583.2	2606.0	2587.0	2651.7	2792.4	3058.7	3545.7	4025.0	4489.2	4645.2	5151.1
22.5°	3001.7	2971.2	2819.1	2697.3	2704.9	3016.9	3519.1	4070.7	4550.0	4675.6	5257.7
25°	4093.5	3929.9	3553.3	3085.4	2777.2	2902.7	3488.6	4055.5	4538.6	4694.6	5322.3
27.5°	5193.0	5052.2	4683.2	3956.6	3070.1	2857.1	3382.1	4066.9	4481.6	4626.1	5215.8
30°	6353.3	6429.4	5881.6	5018.0	3838.6	3108.2	3313.6	4006.0	4443.5	4565.3	5238.6
32.5°	7544.1	7513.7	7182.7	6246.8	4938.1	3663.6	3423.9	4066.9	4493.0	4610.9	5371.8
35°	8476.2	8369.7	8034.9	7190.3	5847.3	4500.6	3804.4	4356.0	4709.8	4850.6	5562.0
37.5°	8936.5	8982.2	8788.1	8053.9	6844.1	5276.7	4279.9	4356.0	4778.3	4941.9	5870.2
40°	9294.1	9431.1	9358.8	9122.9	7833.2	6151.7	4804.9	4626.1	5124.5	5432.7	6448.4
42.5°	9724.0	9659.3	10085.4	9868.6	9126.7	7255.0	5725.6	5269.1	5942.5	6239.2	7315.8
45°	9952.3	10199.6	10522.9	10800.7	10325.1	8632.2	6927.8	6406.6	7194.1	7570.7	8605.5
47.5°	10538.2	10637.1	11162.1	11512.1	11299.0	10207.2	8753.9	8069.1	8769.1	9362.6	10081.6
50°	10880.5	10747.4	11481.6	12014.3	12136.0	11512.1	10389.8	9857.2	10640.9	11397.9	11462.6
52.5°	10580.0	10960.4	11694.7	12649.6	12988.2	12676.2	12311.0	12078.9	12630.6	13330.6	13018.6
55°	9526.2	9784.9	11572.9	13345.8	14437.6	14293.1	14631.7	14479.5	15034.9	15776.8	14837.1
57.5°	8677.8	9001.2	10572.4	13707.2	15788.2	16214.3	16640.4	16545.3	17214.9	18070.8	16377.9
60°	8149.0	8335.4	9849.6	13615.9	16587.1	18200.2	19162.7	18493.1	19585.0	20239.3	17583.9
62.5°	7232.1	7350.1	8795.7	12406.1	16826.8	19604.0	21236.1	20326.8	21274.1	22073.1	18451.3
65°	5797.9	6117.5	7312.0	10595.2	15244.2	19862.7	22529.6	21460.5	22377.4	22902.4	18713.8
66°	5276.7	5508.8	6604.4	9636.5	14342.5	19432.8	22312.7	21696.4	22537.2	23016.5	18310.5
67.5°	4378.8	4580.5	5451.7	8270.7	12497.4	18485.5	22464.9	21536.6	22658.9	22366.0	17770.3
70°	2898.9	3028.3	3728.3	5592.4	8704.4	15122.4	20836.6	20288.8	19919.8	18820.3	13893.6
72.5°	1354.4	1540.8	2328.3	3389.7	5105.5	10580.0	16990.4	16256.1	13969.7	12212.1	8765.3
75°	612.5	696.2	1278.3	1944.0	2290.2	5482.1	10960.4	9899.0	6954.4	5775.1	3838.6
77.5°	331.0	376.6	623.9	924.5	833.2	1921.2	5425.1	4512.0	2191.3	1605.5	1114.7
80°	254.9	300.5	521.2	528.8	308.2	498.4	2016.3	1396.2	547.8	414.7	266.3
82.5°	133.2	190.2	410.9	342.4	156.0	201.6	623.9	388.0	171.2	137.0	114.1
85°	53.3	83.7	232.1	228.3	91.3	68.5	175.0	117.9	68.5	57.1	53.3
87.5°	3.8	3.8	125.5	87.5	57.1	19.0	26.6	26.6	34.2	30.4	38.0
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°	4032.7	4032.7	4032.7	4032.7	4032.7	4032.7	4032.7	4032.7	4032.7	4032.7	4032.7
2.5°	4131.6	4177.2	4184.8	4310.4	4337.0	4310.4	4378.8	4367.4	4397.9	4375.0	4333.2
5°	4226.7	4291.3	4416.9	4512.0	4512.0	4435.9	4375.0	4295.2	4177.2	4146.8	4124.0
7.5°	4390.3	4595.7	4709.8	4649.0	4527.2	4241.9	3846.2	3557.1	3313.6	3222.3	3180.5
10°	4679.4	4793.5	4926.7	4679.4	4173.4	3568.5	2902.7	2465.2	2122.8	2046.8	1989.7
12.5°	4865.8	5048.4	5124.5	4512.0	3519.1	2617.4	1894.6	1400.0	1160.3	977.7	947.3
15°	5109.3	5318.5	5162.6	4059.3	2773.4	1715.8	981.5	612.5	498.4	467.9	467.9
17.5°	5276.7	5504.9	5006.6	3496.2	1966.9	913.1	487.0	422.3	414.7	418.5	410.9
20°	5569.6	5706.6	4770.7	2841.9	1175.6	467.9	391.9	376.6	369.0	380.4	372.8
22.5°	5679.9	5805.5	4386.5	2058.2	528.8	312.0	292.9	281.5	289.1	285.3	281.5
25°	5672.3	5737.0	3754.9	1179.4	156.0	121.7	110.3	110.3	102.7	106.5	102.7
27.5°	5729.4	5569.6	3047.3	350.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	5759.8	5299.5	2168.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	5775.1	5158.7	1396.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	5893.0	4877.2	597.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	5972.9	4515.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	6303.9	4401.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	6733.8	4188.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	7331.1	3872.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	8122.4	3686.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	8712.0	3393.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	9461.5	3218.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	10351.7	3226.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	11162.1	3172.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	11576.7	2712.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	11489.2	2195.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	11184.9	1723.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	10975.7	1525.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	10340.3	1221.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	8228.9	837.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5234.8	513.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	2412.0	235.9	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	757.1	144.6	30.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	197.8	91.3	30.4	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	102.7	64.7	26.6	11.4	7.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	64.7	26.6	11.4	7.6	7.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	57.1	15.2	7.6	7.6	3.8	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)