

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: P482851

Luminaire Tested: **IFLD-S-SA6A-740-U-T3R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482851
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-740-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens with House Side Shield
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

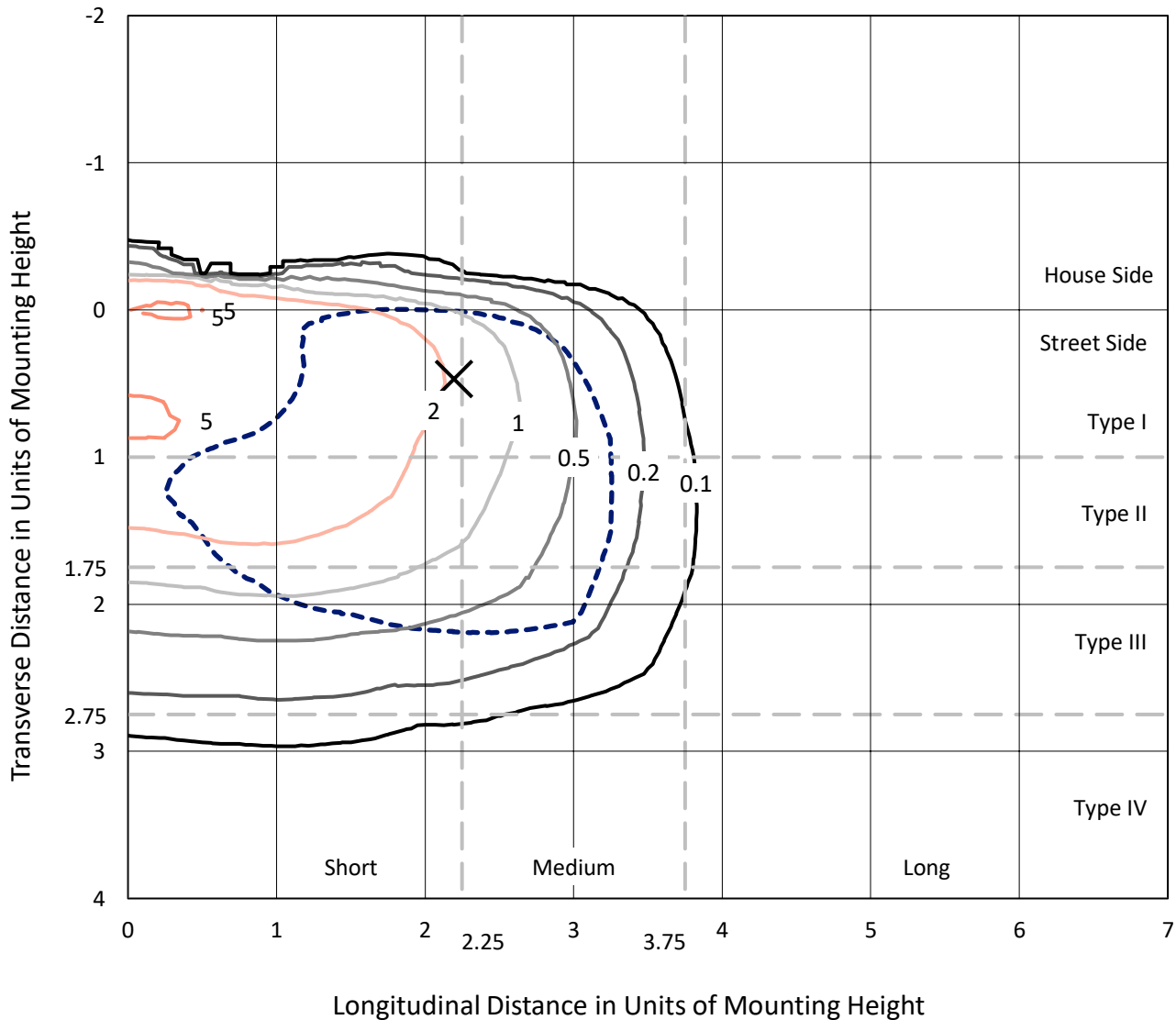
Lumens per Lamp: N/A
Luminaire Lumens: 19346.9 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 189.6
Input Voltage (V): 120
Input Current (A_{in}): 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

REPORT NUMBER: P482851
 CATALOG NUMBER: IFLD-S-SA6A-740-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

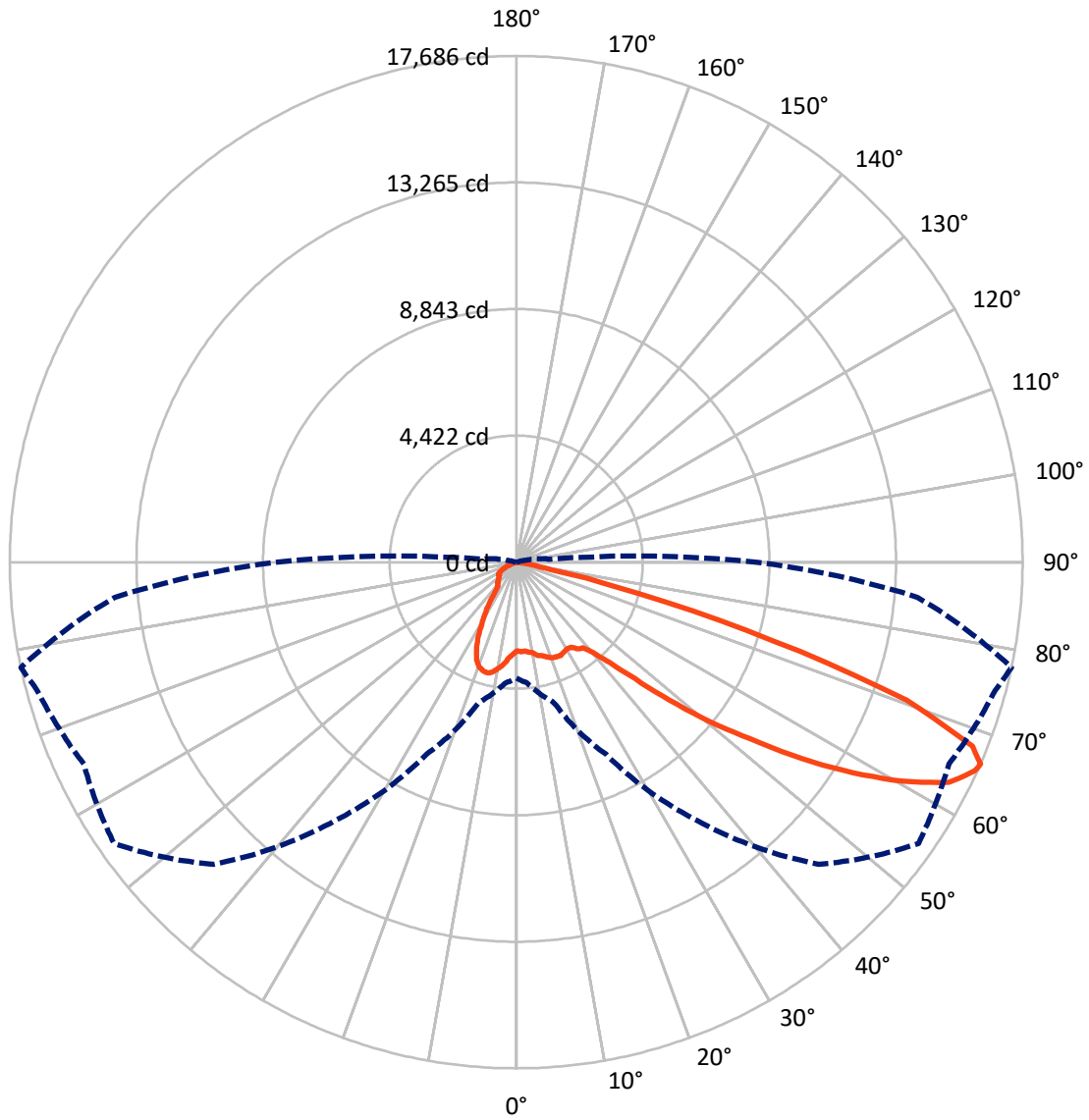
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type III - Short - N/A

REPORT NUMBER: P482851
CATALOG NUMBER: IFLD-S-SA6A-740-U-T3R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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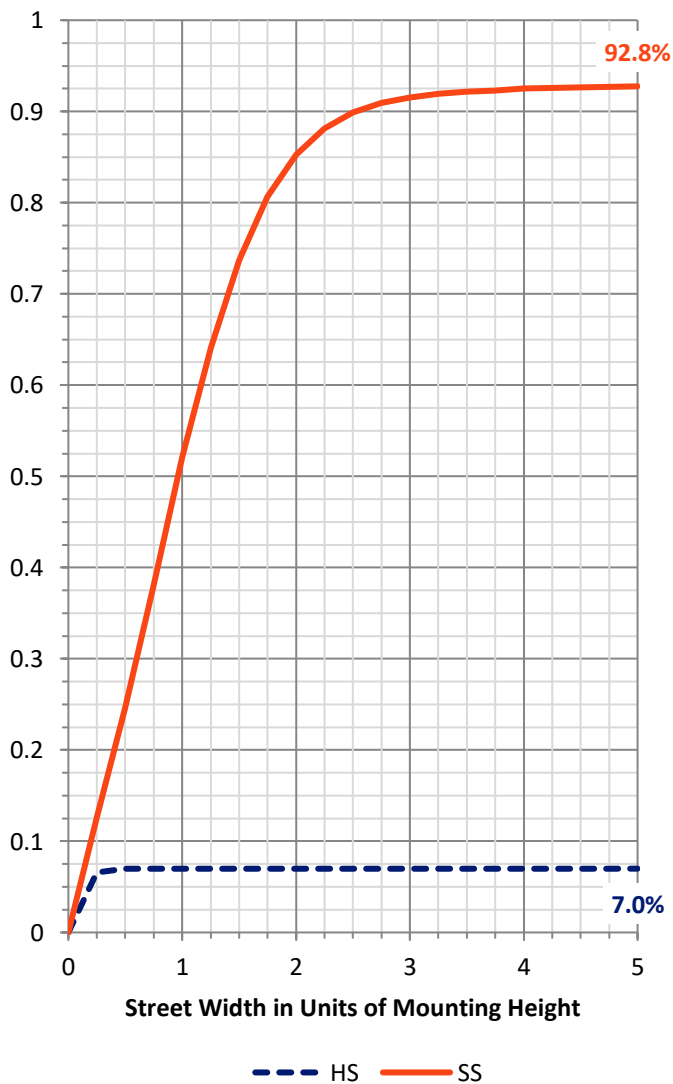
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1360.2	0.0	1360.2
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	17986.7	0.0	17986.7
	% Fixture	93.0	0.0	93.0
Total	Lumens	19346.9	0.0	19346.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.5	1.5
10°-20°	639.9	3.3
20°-30°	914.7	4.7
30°-40°	1565.7	8.1
40°-50°	2825.9	14.6
50°-60°	4832.6	25.0
60°-70°	5948.1	30.7
70°-80°	2248.7	11.6
80°-90°	87.8	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°	19346.9	100.0
0°-180°	19346.9	100.0

Coefficient of Utilization

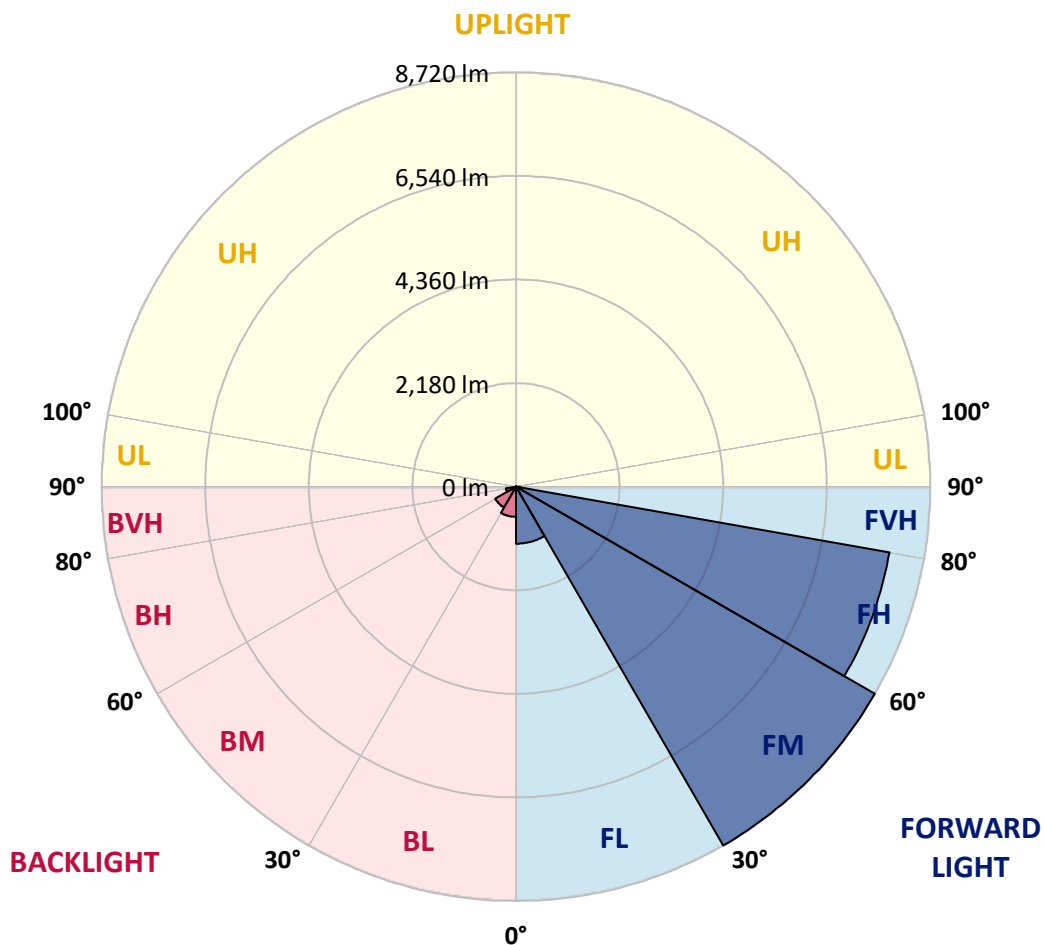


REPORT NUMBER: P482851
 CATALOG NUMBER: IFLD-S-SA6A-740-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1201.1	6.2			
FM (30°-60°)	8720.0	45.1			
FH (60°-80°)	7981.3	41.3			G4/12000
FVH (80°-90°)	84.3	0.4			G1/100
BL (0°-30°)	637.0	3.3	B2/1000		
BM (30°-60°)	504.1	2.6	B1/1000		
BH (60°-80°)	215.5	1.1	B1/500		G1/500
BVH (80°-90°)	3.5	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





REPORT NUMBER: P482851

CATALOG NUMBER: IFLD-S-SA6A-740-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	3098.7	3098.7	3098.7	3098.7	3098.7	3098.7	3098.7	3098.7	3098.7	3098.7	3098.7
2.5°	2850.3	2824.0	2850.3	2888.3	2908.7	2926.3	2987.7	3040.3	3095.8	3133.8	3122.1
5°	2642.7	2692.4	2698.2	2709.9	2742.1	2847.3	2882.4	2973.0	3110.4	3122.1	3174.8
7.5°	2479.0	2464.4	2502.4	2578.4	2660.2	2721.6	2824.0	2981.8	3125.1	3174.8	3277.1
10°	2242.2	2271.4	2312.4	2388.4	2487.8	2639.8	2821.0	2996.4	3201.1	3218.6	3408.6
12.5°	2113.6	2084.3	2148.7	2227.6	2397.1	2537.5	2759.6	2970.1	3247.8	3344.3	3563.6
15°	2008.3	2023.0	2084.3	2137.0	2277.3	2455.6	2715.8	3034.4	3326.8	3394.0	3727.3
17.5°	1964.5	1955.7	2002.5	2055.1	2227.6	2429.3	2698.2	3037.4	3396.9	3484.6	3838.4
20°	1985.0	2002.5	1987.9	2037.6	2145.7	2350.4	2724.6	3092.9	3449.5	3569.4	3958.2
22.5°	2306.5	2283.1	2166.2	2072.7	2078.5	2318.2	2704.1	3128.0	3496.3	3592.8	4040.1
25°	3145.5	3019.8	2730.4	2370.8	2134.0	2230.5	2680.7	3116.3	3487.6	3607.4	4089.8
27.5°	3990.4	3882.2	3598.6	3040.3	2359.1	2195.4	2598.9	3125.1	3443.7	3554.8	4007.9
30°	4882.0	4940.5	4519.5	3855.9	2949.7	2388.4	2546.2	3078.3	3414.5	3508.0	4025.4
32.5°	5797.0	5773.6	5519.3	4800.1	3794.5	2815.2	2631.0	3125.1	3452.5	3543.1	4127.8
35°	6513.2	6431.4	6174.1	5525.1	4493.2	3458.3	2923.3	3347.2	3619.1	3727.3	4273.9
37.5°	6866.9	6902.0	6752.9	6188.7	5259.1	4054.7	3288.8	3347.2	3671.7	3797.4	4510.7
40°	7141.7	7247.0	7191.4	7010.2	6019.2	4727.1	3692.2	3554.8	3937.7	4174.5	4955.1
42.5°	7472.1	7422.4	7749.8	7583.2	7013.1	5574.8	4399.6	4048.8	4566.3	4794.3	5621.6
45°	7647.5	7837.5	8086.0	8299.4	7934.0	6633.1	5323.4	4922.9	5528.0	5817.5	6612.6
47.5°	8097.7	8173.7	8577.1	8846.0	8682.3	7843.3	6726.6	6200.4	6738.3	7194.4	7746.9
50°	8360.8	8258.5	8822.7	9231.9	9325.5	8846.0	7983.7	7574.4	8176.6	8758.3	8808.0
52.5°	8129.8	8422.2	8986.4	9720.1	9980.3	9740.6	9459.9	9281.6	9705.5	10243.4	10003.7
55°	7320.1	7518.8	8892.8	10255.1	11094.1	10983.0	11243.2	11126.3	11553.1	12123.1	11401.1
57.5°	6668.2	6916.6	8124.0	10532.8	12131.9	12459.3	12786.7	12713.6	13228.1	13885.9	12585.0
60°	6261.8	6405.1	7568.5	10462.7	12745.8	13985.3	14724.9	14210.4	15049.4	15552.2	13511.7
62.5°	5557.3	5647.9	6758.8	9533.0	12930.0	15064.0	16318.1	15619.4	16347.4	16961.3	14178.2
65°	4455.2	4700.7	5618.7	8141.5	11713.8	15262.8	17312.1	16490.6	17195.1	17598.5	14379.9
66°	4054.7	4233.0	5074.9	7404.8	11021.0	14932.5	17145.4	16671.8	17317.9	17686.2	14070.1
67.5°	3364.8	3519.7	4189.2	6355.4	9603.2	14204.5	17262.4	16549.1	17411.4	17186.4	13654.9
70°	2227.6	2327.0	2864.9	4297.3	6688.6	11620.3	16011.2	15590.2	15306.6	14461.8	10676.1
72.5°	1040.7	1184.0	1789.1	2604.7	3923.1	8129.8	13055.7	12491.5	10734.5	9383.9	6735.4
75°	470.7	535.0	982.2	1493.8	1759.9	4212.5	8422.2	7606.5	5343.9	4437.6	2949.7
77.5°	254.3	289.4	479.4	710.4	640.2	1476.3	4168.7	3467.1	1683.8	1233.7	856.5
80°	195.9	230.9	400.5	406.3	236.8	383.0	1549.4	1072.9	421.0	318.6	204.6
82.5°	102.3	146.2	315.7	263.1	119.9	154.9	479.4	298.2	131.6	105.2	87.7
85°	40.9	64.3	178.3	175.4	70.2	52.6	134.5	90.6	52.6	43.9	40.9
87.5°	2.9	2.9	96.5	67.2	43.9	14.6	20.5	20.5	26.3	23.4	29.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P482851
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3098.7	3098.7	3098.7	3098.7	3098.7	3098.7	3098.7	3098.7	3098.7	3098.7	3098.7
2.5°	3174.8	3209.8	3215.7	3312.2	3332.6	3312.2	3364.8	3356.0	3379.4	3361.8	3329.7
5°	3247.8	3297.5	3394.0	3467.1	3467.1	3408.6	3361.8	3300.5	3209.8	3186.4	3168.9
7.5°	3373.5	3531.4	3619.1	3572.3	3478.8	3259.5	2955.5	2733.3	2546.2	2476.1	2443.9
10°	3595.7	3683.4	3785.7	3595.7	3206.9	2742.1	2230.5	1894.3	1631.2	1572.8	1528.9
12.5°	3739.0	3879.3	3937.7	3467.1	2704.1	2011.3	1455.8	1075.8	891.6	751.3	727.9
15°	3926.1	4086.8	3967.0	3119.2	2131.1	1318.4	754.2	470.7	383.0	359.6	359.6
17.5°	4054.7	4230.1	3847.1	2686.6	1511.4	701.6	374.2	324.5	318.6	321.6	315.7
20°	4279.8	4385.0	3665.9	2183.7	903.3	359.6	301.1	289.4	283.6	292.3	286.5
22.5°	4364.6	4461.0	3370.6	1581.5	406.3	239.7	225.1	216.3	222.2	219.3	216.3
25°	4358.7	4408.4	2885.3	906.2	119.9	93.5	84.8	84.8	78.9	81.9	78.9
27.5°	4402.6	4279.8	2341.6	268.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	4425.9	4072.2	1666.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	4437.6	3964.1	1072.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	4528.3	3747.7	459.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	4589.7	3470.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4844.0	3382.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5174.3	3218.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	5633.3	2976.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	6241.3	2832.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	6694.5	2607.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	7270.4	2473.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	7954.4	2479.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	8577.1	2438.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	8895.7	2084.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	8828.5	1686.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	8594.6	1324.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	8433.9	1172.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	7945.7	938.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	6323.2	643.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4022.5	394.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1853.4	181.2	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	581.7	111.1	23.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	152.0	70.2	23.4	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	78.9	49.7	20.5	8.8	5.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	49.7	20.5	8.8	5.8	5.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	43.9	11.7	5.8	5.8	2.9	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)