

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: P482820

Luminaire Tested: **IFLD-M-SA4D-735-U-T3R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482820
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-735-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens with House Side Shield
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

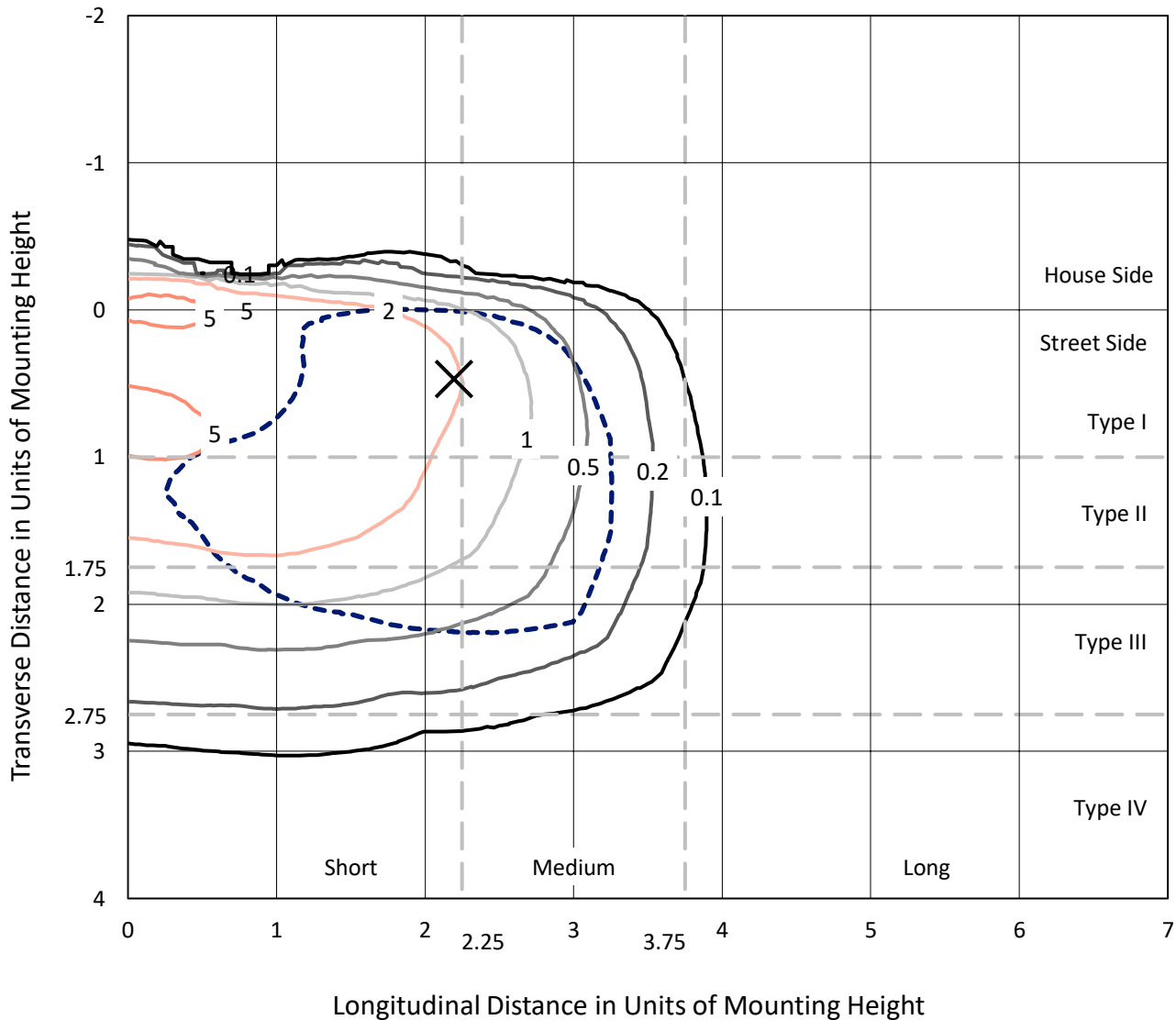
Lumens per Lamp: N/A
Luminaire Lumens: 22117.7 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 249.7
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

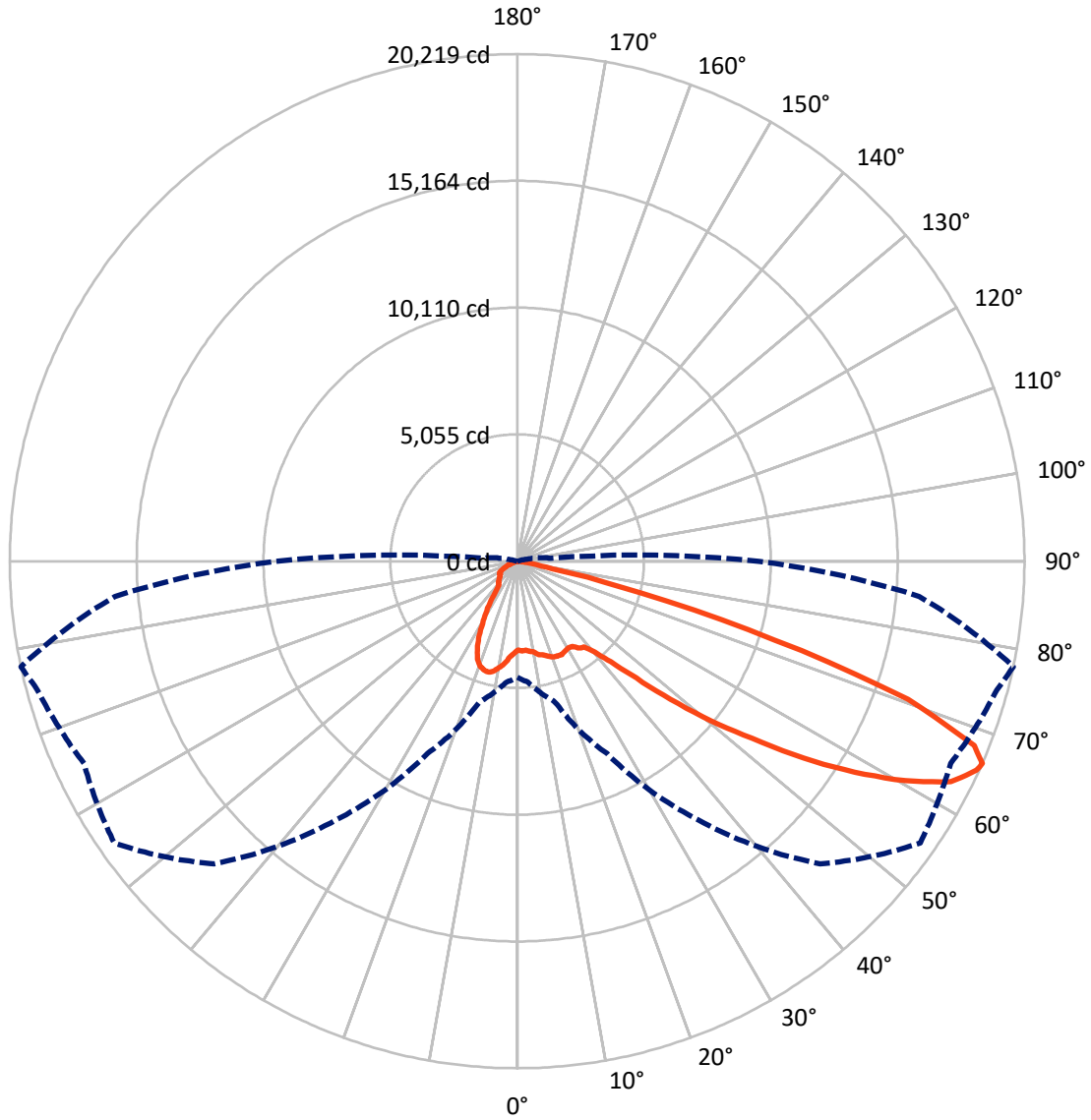
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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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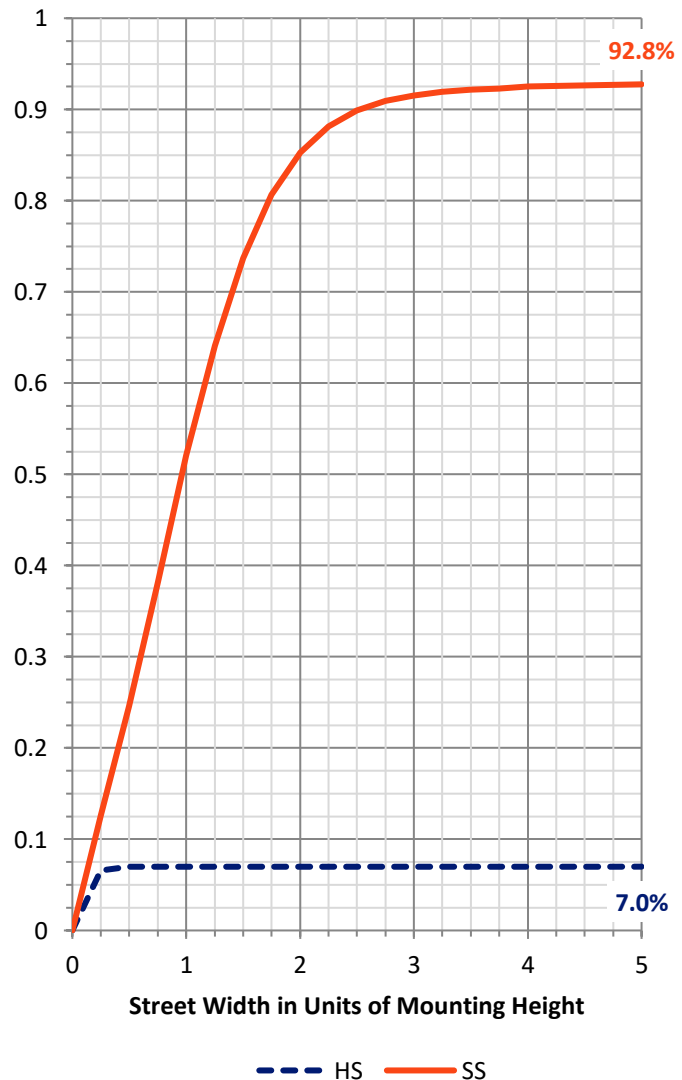
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1555.0	0.0	1555.0
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	20562.7	0.0	20562.7
	% Fixture	93.0	0.0	93.0
Total	Lumens	22117.7	0.0	22117.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.1	1.5
10°-20°	731.6	3.3
20°-30°	1045.7	4.7
30°-40°	1789.9	8.1
40°-50°	3230.6	14.6
50°-60°	5524.7	25.0
60°-70°	6800.0	30.7
70°-80°	2570.8	11.6
80°-90°	100.4	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°	22117.7	100.0
0°-180°	22117.7	100.0

Coefficient of Utilization

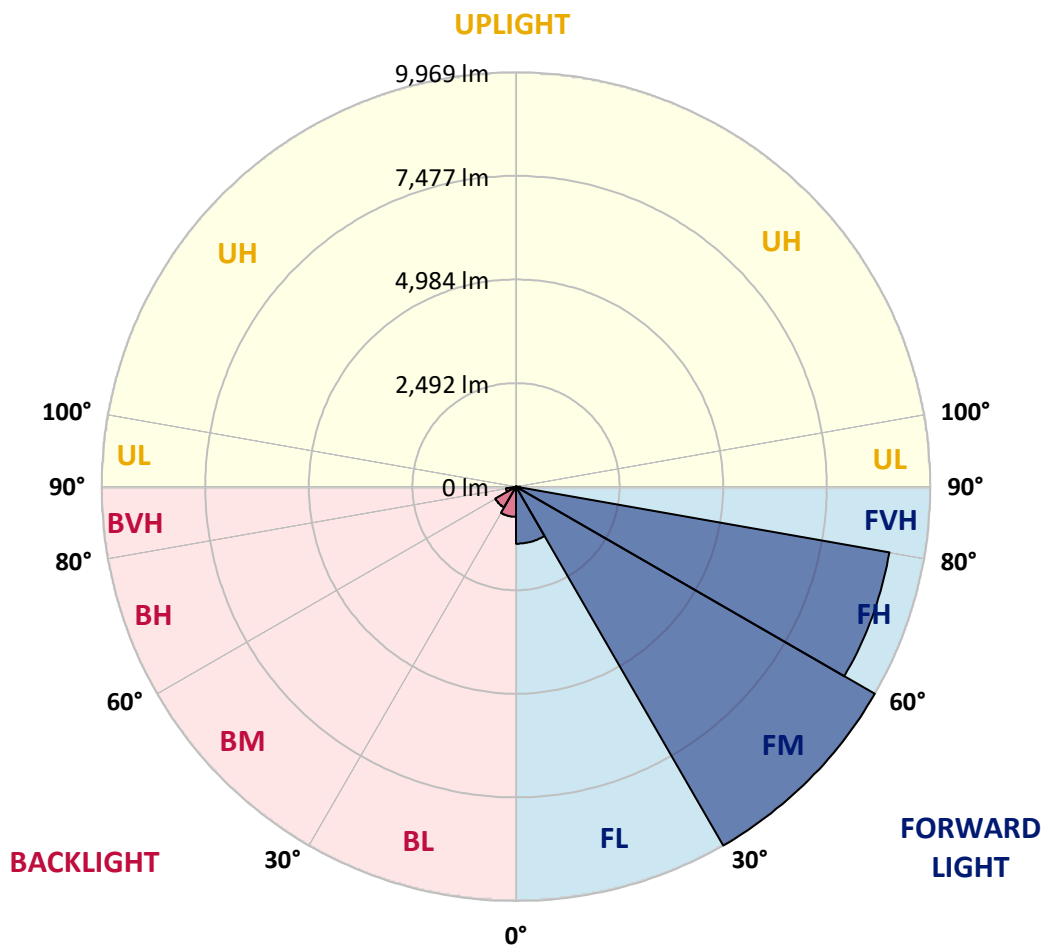


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1373.1	6.2			
FM (30°-60°)	9968.9	45.1			
FH (60°-80°)	9124.4	41.3			G4/12000
FVH (80°-90°)	96.4	0.4			G1/100
BL (0°-30°)	728.3	3.3	B2/1000		
BM (30°-60°)	576.3	2.6	B1/1000		
BH (60°-80°)	246.4	1.1	B1/500		G1/500
BVH (80°-90°)	4.0	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°	3542.5	3542.5	3542.5	3542.5	3542.5	3542.5	3542.5	3542.5	3542.5	3542.5	3542.5
2.5°	3258.5	3228.4	3258.5	3301.9	3325.3	3345.4	3415.5	3475.7	3539.2	3582.6	3569.3
5°	3021.2	3078.0	3084.7	3098.0	3134.8	3255.1	3295.2	3398.8	3555.9	3569.3	3629.4
7.5°	2834.0	2817.3	2860.8	2947.7	3041.2	3111.4	3228.4	3408.9	3572.6	3629.4	3746.4
10°	2563.3	2596.7	2643.5	2730.4	2844.1	3017.8	3225.0	3425.6	3659.5	3679.6	3896.8
12.5°	2416.3	2382.9	2456.4	2546.6	2740.5	2900.9	3154.9	3395.5	3713.0	3823.3	4073.9
15°	2296.0	2312.7	2382.9	2443.0	2603.4	2807.3	3104.7	3469.0	3803.2	3880.1	4261.1
17.5°	2245.8	2235.8	2289.3	2349.4	2546.6	2777.2	3084.7	3472.4	3883.4	3983.7	4388.1
20°	2269.2	2289.3	2272.6	2329.4	2453.0	2687.0	3114.8	3535.9	3943.6	4080.6	4525.1
22.5°	2636.9	2610.1	2476.4	2369.5	2376.2	2650.2	3091.4	3576.0	3997.1	4107.3	4618.7
25°	3596.0	3452.3	3121.4	2710.4	2439.7	2550.0	3064.6	3562.6	3987.0	4124.0	4675.5
27.5°	4561.9	4438.2	4114.0	3475.7	2697.0	2509.9	2971.1	3572.6	3936.9	4063.9	4581.9
30°	5581.2	5648.0	5166.8	4408.1	3372.1	2730.4	2910.9	3519.1	3903.5	4010.4	4602.0
32.5°	6627.2	6600.5	6309.7	5487.6	4337.9	3218.4	3007.8	3572.6	3946.9	4050.5	4718.9
35°	7446.0	7352.4	7058.3	6316.4	5136.7	3953.6	3342.0	3826.6	4137.4	4261.1	4886.0
37.5°	7850.4	7890.5	7720.1	7075.0	6012.3	4635.4	3759.8	3826.6	4197.6	4341.3	5156.7
40°	8164.5	8284.9	8221.4	8014.2	6881.2	5404.0	4221.0	4063.9	4501.7	4772.4	5664.7
42.5°	8542.2	8485.4	8859.7	8669.2	8017.5	6373.2	5029.7	4628.7	5220.2	5480.9	6426.7
45°	8742.7	8959.9	9244.0	9488.0	9070.2	7583.0	6085.8	5628.0	6319.8	6650.6	7559.6
47.5°	9257.4	9344.3	9805.5	10112.9	9925.8	8966.6	7690.0	7088.4	7703.3	8224.7	8856.3
50°	9558.2	9441.2	10086.2	10554.1	10661.0	10112.9	9127.0	8659.2	9347.6	10012.7	10069.5
52.5°	9294.1	9628.4	10273.4	11112.2	11409.6	11135.6	10814.8	10610.9	11095.5	11710.4	11436.4
55°	8368.4	8595.7	10166.4	11723.8	12683.0	12556.0	12853.4	12719.7	13207.7	13859.3	13033.9
57.5°	7623.1	7907.2	9287.5	12041.3	13869.4	14243.7	14618.0	14534.4	15122.6	15874.6	14387.4
60°	7158.6	7322.4	8652.5	11961.1	14571.2	15988.2	16833.7	16245.5	17204.7	17779.5	15446.8
62.5°	6353.2	6456.8	7726.7	10898.3	14781.7	17221.4	18655.1	17856.4	18688.6	19390.4	16208.8
65°	5093.2	5374.0	6423.4	9307.5	13391.5	17448.7	19791.4	18852.3	19657.7	20118.9	16439.4
66°	4635.4	4839.2	5801.7	8465.3	12599.4	17071.0	19600.9	19059.5	19798.1	20219.2	16085.1
67.5°	3846.7	4023.8	4789.1	7265.5	10978.5	16238.9	19734.6	18919.2	19905.1	19647.7	15610.6
70°	2546.6	2660.2	3275.2	4912.8	7646.5	13284.5	18304.2	17823.0	17498.8	16533.0	12205.0
72.5°	1189.8	1353.5	2045.3	2977.7	4485.0	9294.1	14925.4	14280.4	12271.9	10727.9	7700.0
75°	538.1	611.6	1122.9	1707.8	2011.9	4815.8	9628.4	8695.9	6109.2	5073.2	3372.1
77.5°	290.8	330.9	548.1	812.1	731.9	1687.7	4765.7	3963.6	1925.0	1410.3	979.2
80°	223.9	264.0	457.9	464.5	270.7	437.8	1771.3	1226.5	481.3	364.3	233.9
82.5°	117.0	167.1	360.9	300.8	137.0	177.1	548.1	340.9	150.4	120.3	100.3
85°	46.8	73.5	203.9	200.5	80.2	60.2	153.7	103.6	60.2	50.1	46.8
87.5°	3.3	3.3	110.3	76.9	50.1	16.7	23.4	23.4	30.1	26.7	33.4
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°	3542.5	3542.5	3542.5	3542.5	3542.5	3542.5	3542.5	3542.5	3542.5	3542.5	3542.5
2.5°	3629.4	3669.5	3676.2	3786.5	3809.9	3786.5	3846.7	3836.6	3863.4	3843.3	3806.6
5°	3713.0	3769.8	3880.1	3963.6	3963.6	3896.8	3843.3	3773.1	3669.5	3642.8	3622.7
7.5°	3856.7	4037.2	4137.4	4083.9	3977.0	3726.3	3378.8	3124.8	2910.9	2830.7	2793.9
10°	4110.7	4210.9	4327.9	4110.7	3666.2	3134.8	2550.0	2165.6	1864.8	1798.0	1747.9
12.5°	4274.4	4434.9	4501.7	3963.6	3091.4	2299.3	1664.3	1229.9	1019.3	858.9	832.2
15°	4488.3	4672.1	4535.1	3565.9	2436.3	1507.2	862.2	538.1	437.8	411.1	411.1
17.5°	4635.4	4835.9	4398.1	3071.3	1727.8	802.1	427.8	371.0	364.3	367.6	360.9
20°	4892.7	5013.0	4190.9	2496.5	1032.7	411.1	344.2	330.9	324.2	334.2	327.5
22.5°	4989.6	5099.9	3853.3	1808.0	464.5	274.0	257.3	247.3	254.0	250.7	247.3
25°	4982.9	5039.8	3298.6	1036.0	137.0	106.9	96.9	96.9	90.2	93.6	90.2
27.5°	5033.1	4892.7	2677.0	307.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	5059.8	4655.4	1904.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	5073.2	4531.8	1226.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	5176.8	4284.5	524.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	5247.0	3967.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5537.7	3866.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5915.4	3679.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	6440.1	3402.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	7135.2	3238.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	7653.2	2981.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	8311.6	2827.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	9093.6	2834.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	9805.5	2787.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	10169.8	2382.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	10092.9	1928.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	9825.5	1513.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	9641.7	1340.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	9083.6	1072.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	7228.8	735.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4598.6	451.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	2118.8	207.2	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	665.1	127.0	26.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	173.8	80.2	26.7	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	90.2	56.8	23.4	10.0	6.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	56.8	23.4	10.0	6.7	6.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	50.1	13.4	6.7	6.7	3.3	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)