

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: P482905

Luminaire Tested: **IFLD-L-SA8A-750-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482905
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-750-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens with House Side Shield
Light Source: (128) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

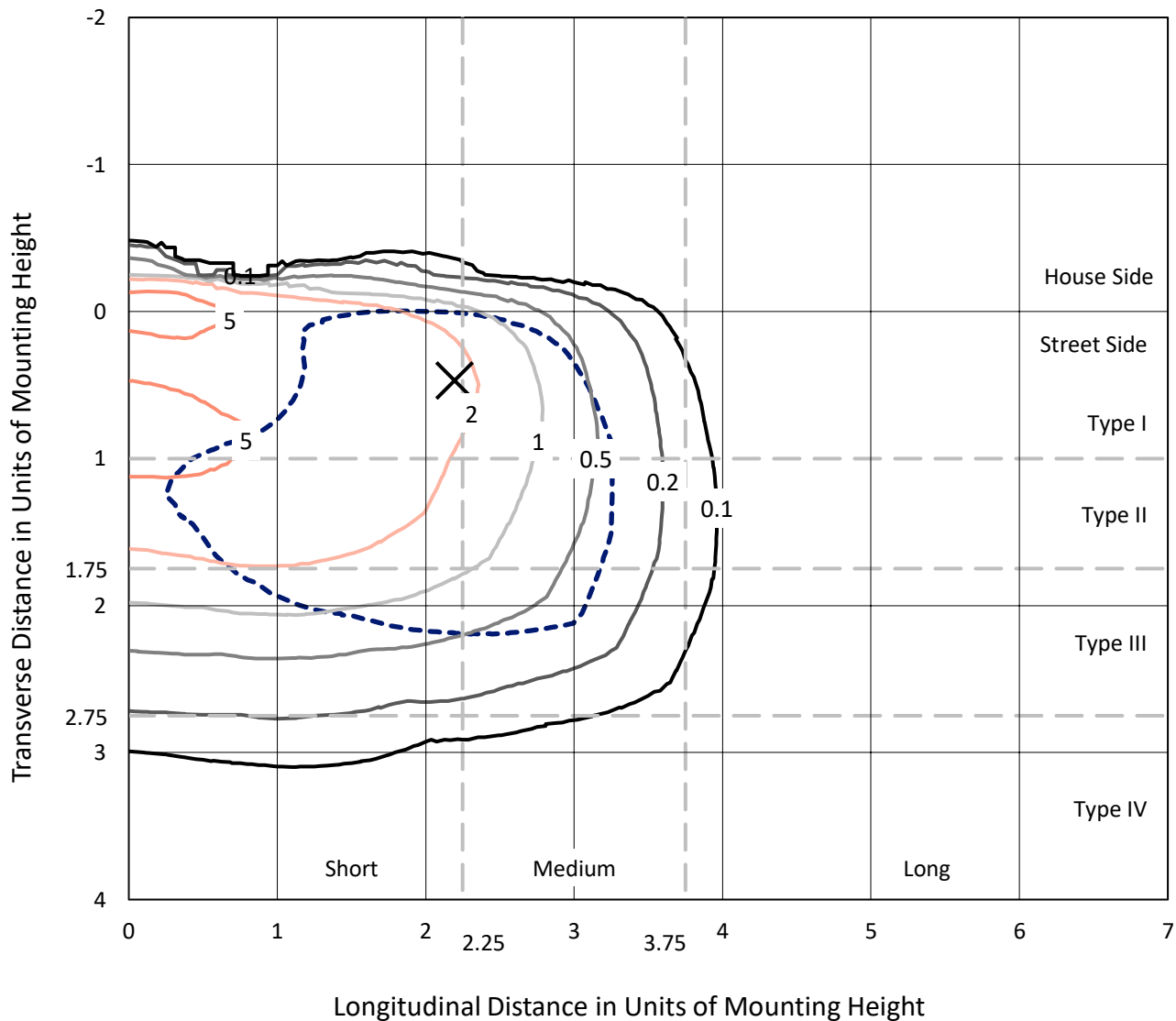
Lumens per Lamp: N/A
Luminaire Lumens: 25117.9 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 247.8
Input Voltage (V): 120
Input Current (A_{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

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Iso-Footcandle Lines of Horizontal Illumination

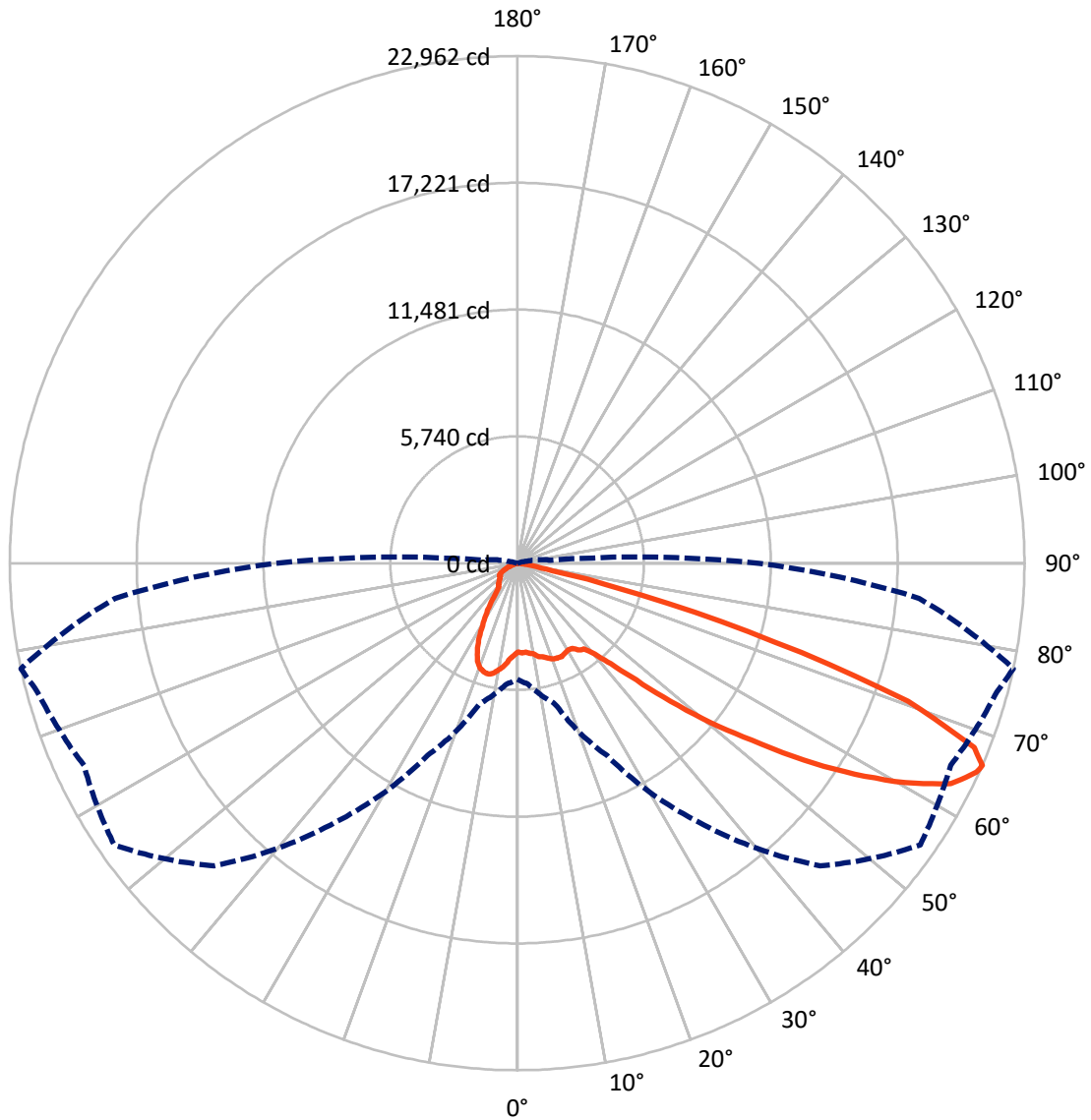
✕ Max cd
 - - - 1/2 Max cd



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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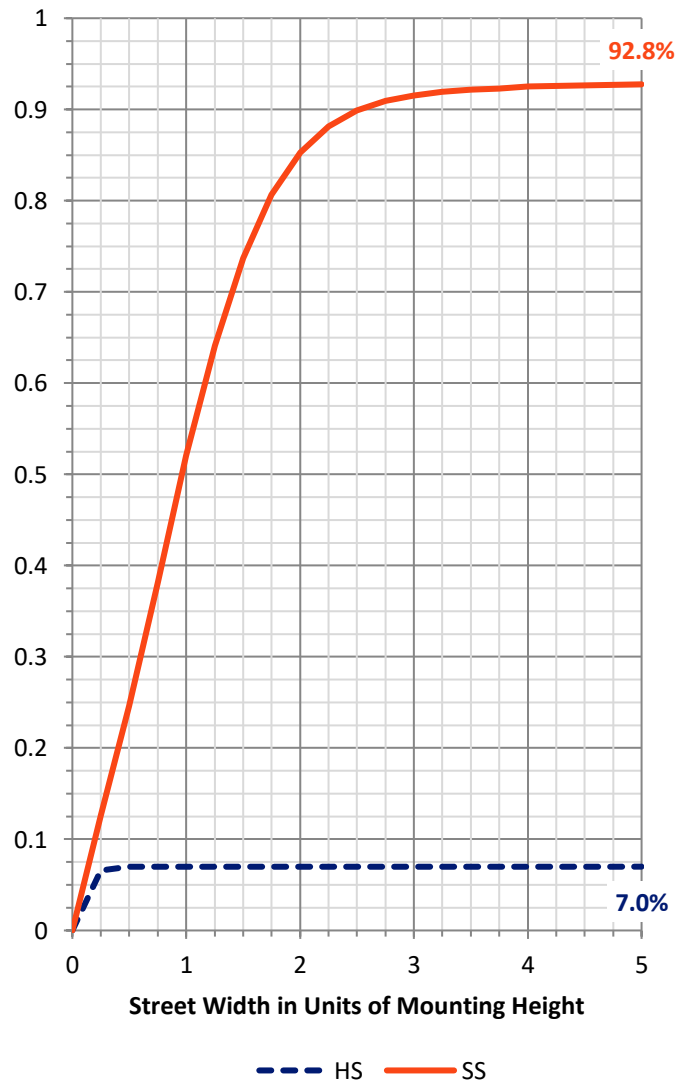
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1765.9	0.0	1765.9
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	23352.0	0.0	23352.0
	% Fixture	93.0	0.0	93.0
Total	Lumens	25117.9	0.0	25117.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.0	1.5
10°-20°	830.8	3.3
20°-30°	1187.5	4.7
30°-40°	2032.7	8.1
40°-50°	3668.8	14.6
50°-60°	6274.1	25.0
60°-70°	7722.3	30.7
70°-80°	2919.5	11.6
80°-90°	114.0	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°	25117.9	100.0
0°-180°	25117.9	100.0

Coefficient of Utilization

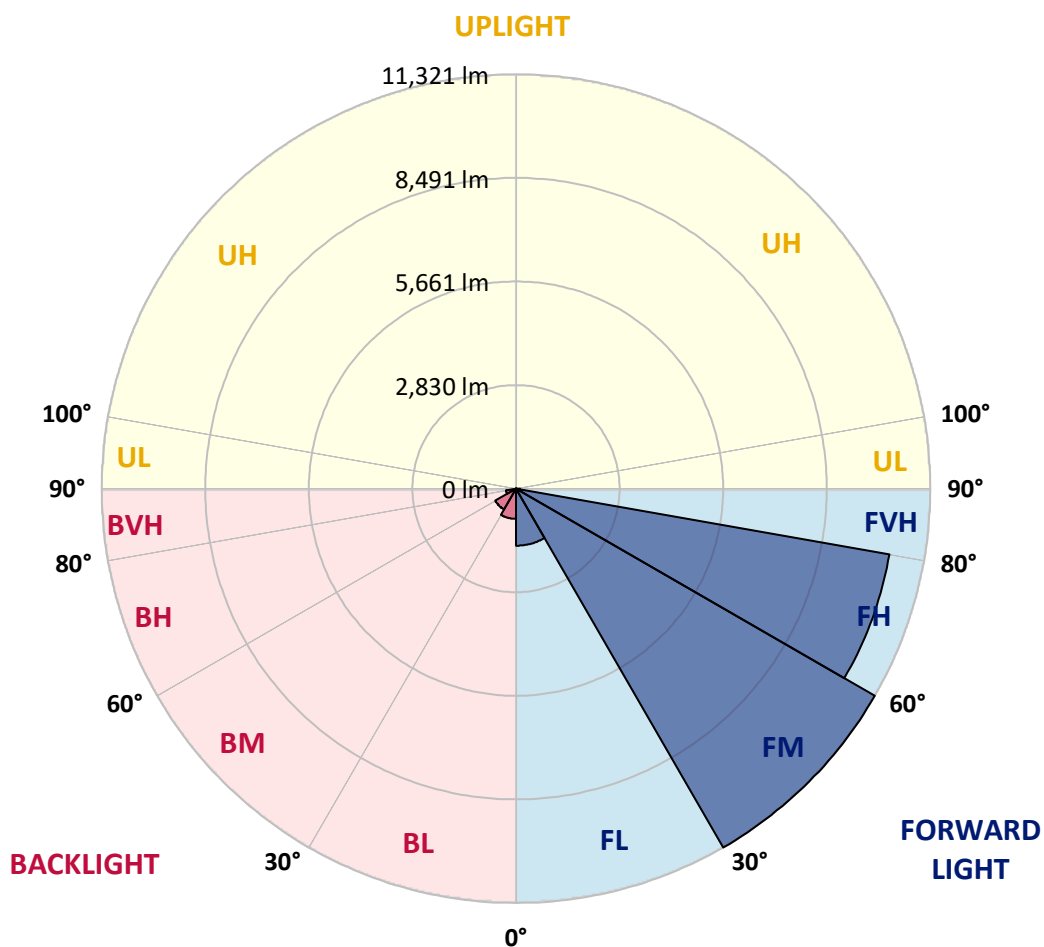


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1559.3	6.2			
FM (30°-60°)	11321.1	45.1			
FH (60°-80°)	10362.0	41.3			G4/12000
FVH (80°-90°)	109.5	0.4			G2/225
BL (0°-30°)	827.0	3.3	B2/1000		
BM (30°-60°)	654.5	2.6	B1/1000		
BH (60°-80°)	279.8	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°	4023.1	4023.1	4023.1	4023.1	4023.1	4023.1	4023.1	4023.1	4023.1	4023.1	4023.1
2.5°	3700.5	3666.3	3700.5	3749.8	3776.4	3799.1	3878.8	3947.2	4019.3	4068.6	4053.4
5°	3431.0	3495.5	3503.1	3518.3	3560.0	3696.7	3742.2	3859.9	4038.2	4053.4	4121.7
7.5°	3218.5	3199.5	3248.8	3347.5	3453.8	3533.5	3666.3	3871.3	4057.2	4121.7	4254.6
10°	2911.0	2949.0	3002.1	3100.8	3229.8	3427.2	3662.5	3890.2	4155.9	4178.7	4425.4
12.5°	2744.0	2706.1	2789.6	2892.1	3112.2	3294.4	3582.8	3856.1	4216.6	4341.9	4626.5
15°	2607.4	2626.4	2706.1	2774.4	2956.6	3188.1	3525.9	3939.6	4319.1	4406.4	4839.1
17.5°	2550.5	2539.1	2599.8	2668.1	2892.1	3153.9	3503.1	3943.4	4410.2	4524.1	4983.3
20°	2577.0	2599.8	2580.8	2645.4	2785.8	3051.5	3537.3	4015.5	4478.5	4634.1	5138.9
22.5°	2994.5	2964.2	2812.4	2690.9	2698.5	3009.7	3510.7	4061.0	4539.2	4664.5	5245.2
25°	4083.8	3920.6	3544.9	3078.0	2770.6	2895.8	3480.3	4045.8	4527.8	4683.5	5309.7
27.5°	5180.6	5040.2	4672.1	3947.2	3062.8	2850.3	3374.1	4057.2	4470.9	4615.1	5203.4
30°	6338.2	6414.1	5867.6	5006.1	3829.5	3100.8	3305.7	3996.5	4433.0	4554.4	5226.2
32.5°	7526.2	7495.8	7165.6	6232.0	4926.4	3654.9	3415.8	4057.2	4482.3	4600.0	5359.0
35°	8456.0	8349.8	8015.8	7173.2	5833.4	4489.9	3795.3	4345.7	4698.6	4839.1	5548.8
37.5°	8915.3	8960.8	8767.2	8034.7	6827.8	5264.1	4269.8	4345.7	4767.0	4930.2	5856.2
40°	9272.0	9408.7	9336.5	9101.2	7814.6	6137.1	4793.5	4615.1	5112.3	5419.8	6433.1
42.5°	9700.9	9636.4	10061.5	9845.1	9105.0	7237.7	5712.0	5256.6	5928.3	6224.4	7298.4
45°	9928.6	10175.3	10497.9	10775.0	10300.6	8611.6	6911.3	6391.4	7177.0	7552.7	8585.1
47.5°	10513.1	10611.8	11135.5	11484.7	11272.2	10182.9	8733.1	8049.9	8748.3	9340.3	10057.7
50°	10854.7	10721.8	11454.3	11985.7	12107.1	11484.7	10365.1	9833.7	10615.6	11370.9	11435.4
52.5°	10554.9	10934.4	11666.9	12619.5	12957.3	12646.1	12281.7	12050.2	12600.5	13298.9	12987.7
55°	9503.5	9761.6	11545.4	13314.1	14403.3	14259.1	14596.9	14445.1	14999.2	15739.3	14801.8
57.5°	8657.2	8979.8	10547.3	13674.6	15750.7	16175.8	16600.8	16506.0	17173.9	18027.9	16339.0
60°	8129.6	8315.6	9826.1	13583.5	16547.7	18156.9	19117.1	18449.2	19538.4	20191.2	17542.1
62.5°	7214.9	7332.6	8774.8	12376.6	16786.8	19557.4	21185.6	20278.5	21223.6	22020.6	18407.4
65°	5784.1	6102.9	7294.7	10570.0	15207.9	19815.5	22476.0	21409.5	22324.2	22848.0	18669.3
66°	5264.1	5495.7	6588.7	9613.6	14308.4	19386.6	22259.7	21644.8	22483.6	22961.8	18267.0
67.5°	4368.4	4569.6	5438.7	8251.1	12467.7	18441.6	22411.5	21485.4	22605.1	22312.8	17728.1
70°	2892.1	3021.1	3719.4	5579.2	8683.7	15086.5	20787.1	20240.6	19872.4	18775.6	13860.6
72.5°	1351.1	1537.1	2322.8	3381.7	5093.4	10554.9	16950.0	16217.5	13936.5	12183.1	8744.5
75°	611.1	694.5	1275.2	1939.4	2284.8	5469.1	10934.4	9875.5	6937.9	5761.3	3829.5
77.5°	330.2	375.7	622.4	922.3	831.2	1916.6	5412.2	4501.3	2186.1	1601.6	1112.0
80°	254.3	299.8	520.0	527.6	307.4	497.2	2011.5	1392.9	546.5	413.7	265.7
82.5°	132.8	189.8	409.9	341.6	155.6	201.2	622.4	387.1	170.8	136.6	113.9
85°	53.1	83.5	231.5	227.7	91.1	68.3	174.6	117.7	68.3	56.9	53.1
87.5°	3.8	3.8	125.2	87.3	56.9	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°	4023.1	4023.1	4023.1	4023.1	4023.1	4023.1	4023.1	4023.1	4023.1	4023.1	4023.1
2.5°	4121.7	4167.3	4174.9	4300.1	4326.7	4300.1	4368.4	4357.1	4387.4	4364.6	4322.9
5°	4216.6	4281.1	4406.4	4501.3	4501.3	4425.4	4364.6	4284.9	4167.3	4136.9	4114.2
7.5°	4379.8	4584.8	4698.6	4637.9	4516.5	4231.8	3837.1	3548.6	3305.7	3214.7	3172.9
10°	4668.3	4782.1	4915.0	4668.3	4163.5	3560.0	2895.8	2459.4	2117.8	2041.9	1985.0
12.5°	4854.2	5036.4	5112.3	4501.3	3510.7	2611.2	1890.1	1396.7	1157.6	975.4	945.0
15°	5097.1	5305.9	5150.3	4049.6	2766.8	1711.7	979.2	611.1	497.2	466.8	466.8
17.5°	5264.1	5491.9	4994.7	3487.9	1962.2	910.9	485.8	421.3	413.7	417.5	409.9
20°	5556.4	5693.0	4759.4	2835.1	1172.8	466.8	390.9	375.7	368.1	379.5	371.9
22.5°	5666.4	5791.7	4376.0	2053.3	527.6	311.2	292.2	280.9	288.4	284.7	280.9
25°	5658.9	5723.4	3746.0	1176.6	155.6	121.5	110.1	110.1	102.5	106.3	102.5
27.5°	5715.8	5556.4	3040.1	349.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	5746.2	5286.9	2163.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	5761.3	5146.5	1392.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	5879.0	4865.6	595.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	5958.7	4505.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	6288.9	4391.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	6717.8	4178.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	7313.6	3863.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	8103.1	3677.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	8691.3	3385.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	9439.0	3210.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	10327.1	3218.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	11135.5	3165.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	11549.2	2706.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	11461.9	2189.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	11158.3	1719.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	10949.6	1521.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	10315.7	1218.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	8209.3	835.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5222.4	512.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	2406.2	235.3	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	755.3	144.2	30.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	197.4	91.1	30.4	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	102.5	64.5	26.6	11.4	7.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	64.5	26.6	11.4	7.6	7.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	56.9	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)