

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: P482829

Luminaire Tested: **IFLD-L-SA8C-735-U-T3R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482829
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-735-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens with House Side Shield
Light Source: (128) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

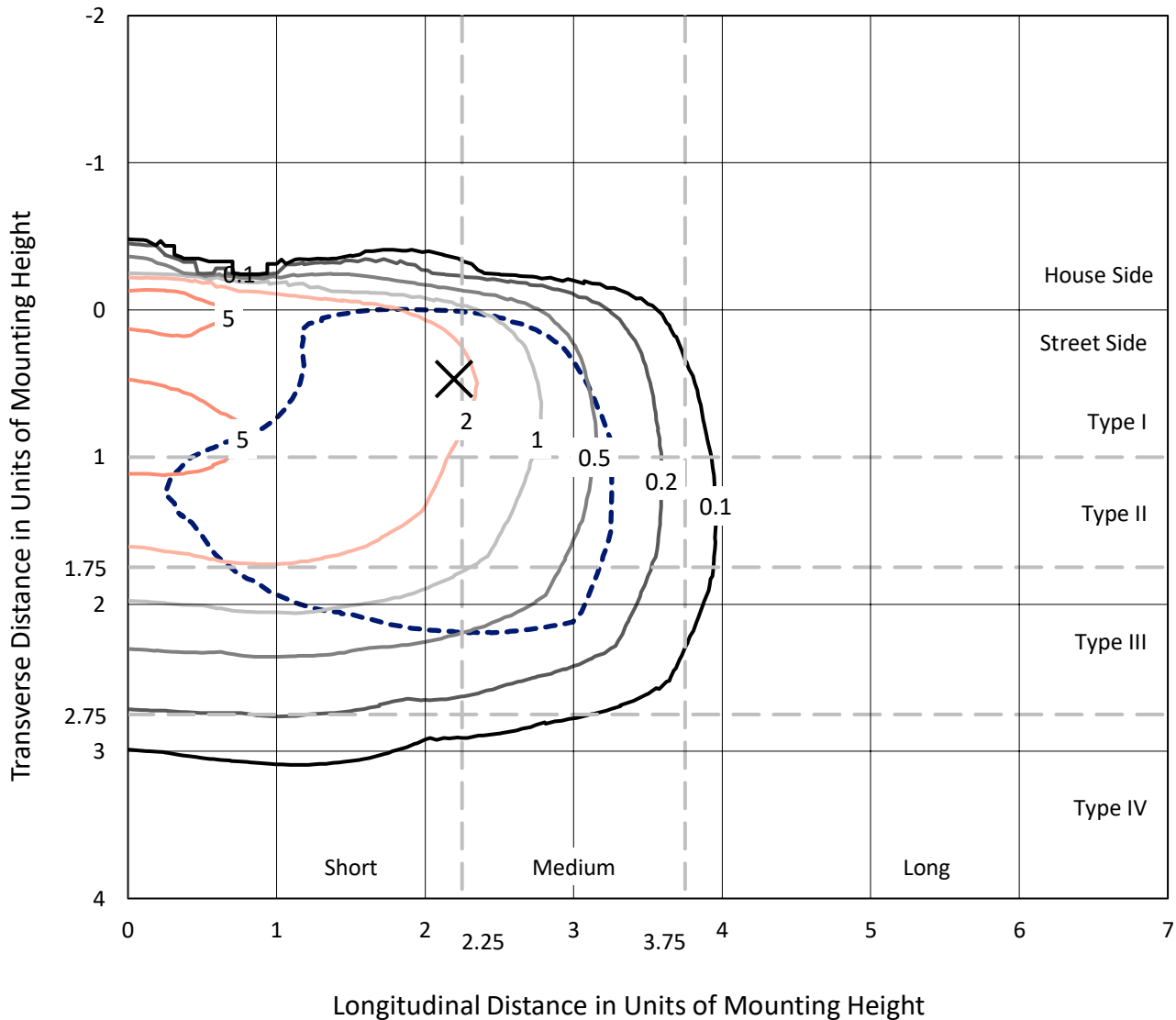
Lumens per Lamp: N/A
Luminaire Lumens: 35819.4 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 420.3
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

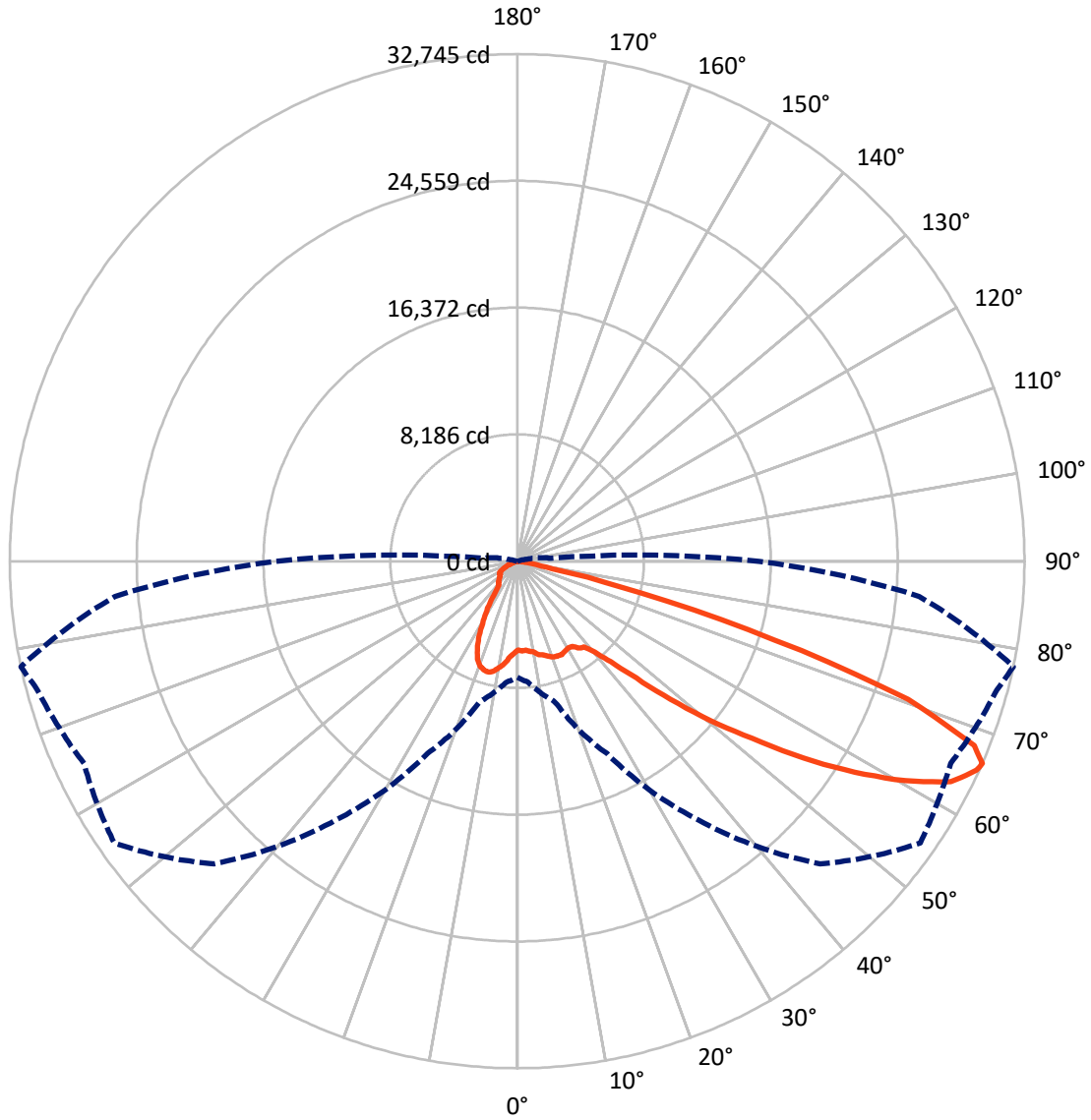
✕ Max cd
 - - - 1/2 Max cd



Based on 30 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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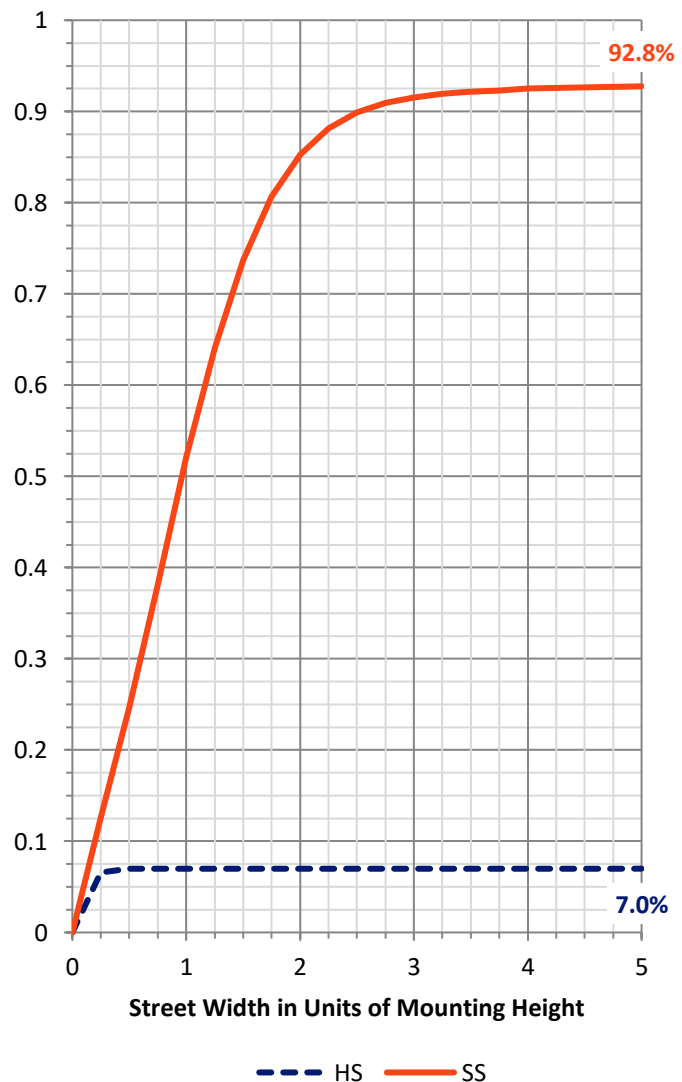
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2518.3	0.0	2518.3
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	33301.1	0.0	33301.1
	% Fixture	93.0	0.0	93.0
Total	Lumens	35819.4	0.0	35819.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	524.9	1.5
10°-20°	1184.8	3.3
20°-30°	1693.4	4.7
30°-40°	2898.8	8.1
40°-50°	5231.9	14.6
50°-60°	8947.2	25.0
60°-70°	11012.5	30.7
70°-80°	4163.3	11.6
80°-90°	162.6	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°	35819.4	100.0
0°-180°	35819.4	100.0

Coefficient of Utilization

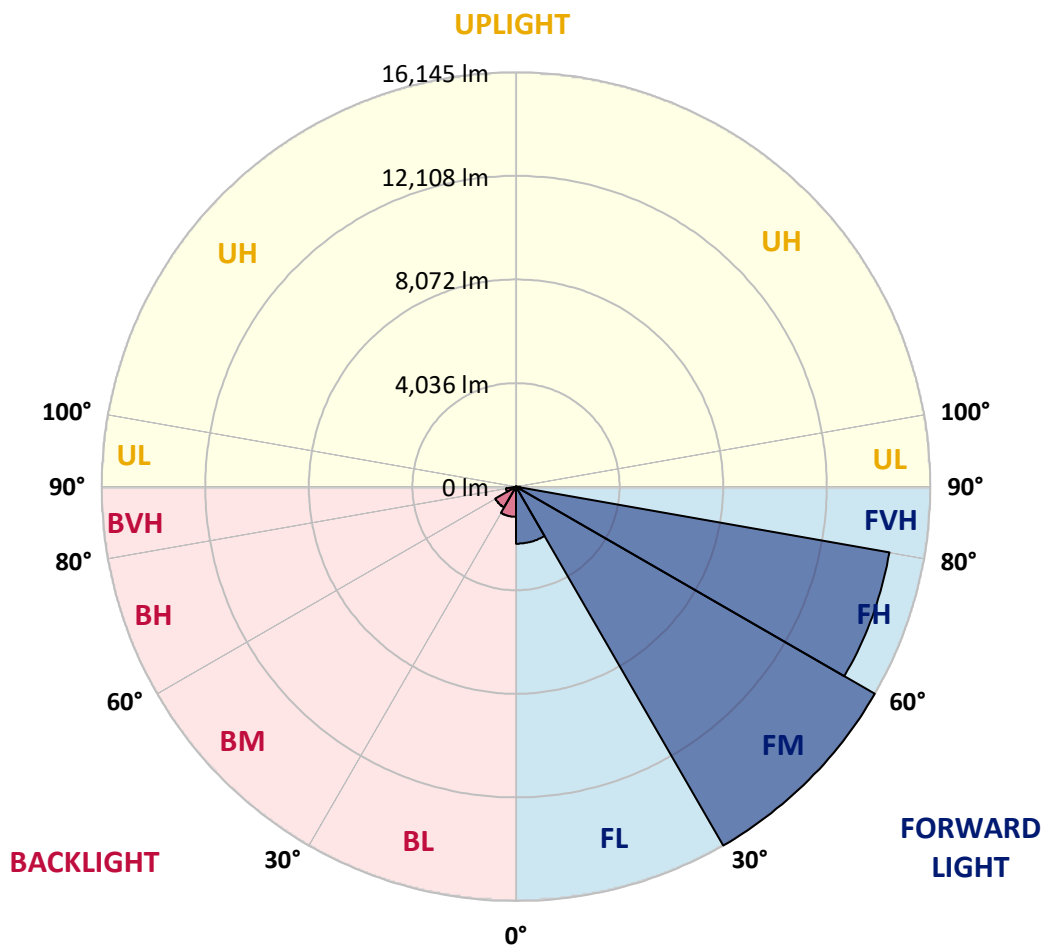


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2223.7	6.2			
FM (30°-60°)	16144.5	45.1			
FH (60°-80°)	14776.8	41.3			G5
FVH (80°-90°)	156.1	0.4			G2/225
BL (0°-30°)	1179.4	3.3	B3/2500		
BM (30°-60°)	933.4	2.6	B1/1000		
BH (60°-80°)	399.0	1.1	B1/500		G1/500
BVH (80°-90°)	6.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	5737.1	5737.1	5737.1	5737.1	5737.1	5737.1	5737.1	5737.1	5737.1	5737.1	5737.1
2.5°	5277.1	5228.3	5277.1	5347.4	5385.3	5417.8	5531.4	5628.9	5731.7	5802.0	5780.4
5°	4892.8	4984.8	4995.6	5017.3	5076.8	5271.6	5336.6	5504.4	5758.8	5780.4	5877.8
7.5°	4589.7	4562.6	4633.0	4773.7	4925.2	5038.9	5228.3	5520.6	5785.8	5877.8	6067.3
10°	4151.3	4205.4	4281.2	4421.9	4605.9	4887.4	5222.9	5547.7	5926.5	5959.0	6310.8
12.5°	3913.1	3859.0	3978.1	4124.2	4438.1	4697.9	5109.3	5499.0	6013.1	6191.7	6597.7
15°	3718.3	3745.4	3859.0	3956.4	4216.2	4546.4	5028.1	5618.0	6159.3	6283.7	6900.8
17.5°	3637.1	3620.9	3707.5	3804.9	4124.2	4497.7	4995.6	5623.4	6289.2	6451.5	7106.4
20°	3675.0	3707.5	3680.4	3772.4	3972.7	4351.5	5044.3	5726.3	6386.6	6608.5	7328.3
22.5°	4270.4	4227.1	4010.6	3837.4	3848.2	4292.0	5006.4	5791.2	6473.2	6651.8	7479.9
25°	5823.7	5591.0	5055.1	4389.4	3951.0	4129.6	4963.1	5769.6	6456.9	6678.9	7571.9
27.5°	7387.9	7187.6	6662.6	5628.9	4367.8	4064.7	4811.6	5785.8	6375.8	6581.4	7420.3
30°	9038.6	9146.9	8367.5	7138.9	5461.1	4421.9	4714.2	5699.2	6321.6	6494.8	7452.8
32.5°	10732.7	10689.4	10218.5	8887.1	7025.2	5212.1	4871.1	5785.8	6392.0	6559.8	7642.3
35°	12058.7	11907.2	11430.9	10229.4	8318.8	6402.8	5412.4	6197.2	6700.5	6900.8	7912.9
37.5°	12713.6	12778.6	12502.5	11458.0	9736.8	7506.9	6088.9	6197.2	6797.9	7030.7	8351.3
40°	13222.4	13417.2	13314.4	12978.8	11144.0	8751.8	6835.8	6581.4	7290.4	7728.8	9173.9
42.5°	13834.0	13742.0	14348.2	14039.7	12984.2	10321.4	8145.6	7496.1	8454.1	8876.3	10408.0
45°	14158.7	14510.5	14970.6	15365.7	14689.1	12280.6	9855.9	9114.4	10234.8	10770.6	12242.8
47.5°	14992.2	15133.0	15879.9	16377.8	16074.7	14521.4	12453.8	11479.6	12475.5	13319.8	14342.8
50°	15479.3	15289.9	16334.5	17092.2	17265.4	16377.8	14781.2	14023.4	15138.4	16215.4	16307.4
52.5°	15051.8	15593.0	16637.6	17996.1	18477.8	18034.0	17514.4	17184.2	17969.0	18964.9	18521.1
55°	13552.5	13920.6	16464.4	18986.6	20539.9	20334.2	20815.9	20599.4	21389.6	22445.1	21108.2
57.5°	12345.6	12805.6	15040.9	19500.7	22461.3	23067.5	23673.7	23538.3	24490.9	25708.7	23300.2
60°	11593.3	11858.5	14012.6	19370.8	23597.9	25892.7	27262.1	26309.5	27862.8	28793.8	25015.9
62.5°	10288.9	10456.7	12513.4	17649.7	23938.9	27889.9	30211.8	28918.2	30265.9	31402.5	26249.9
65°	8248.4	8703.1	10402.6	15073.4	21687.3	28257.9	32052.0	30531.1	31835.5	32582.4	26623.4
66°	7506.9	7837.1	9395.9	13709.5	20404.6	27646.3	31743.5	30866.7	32062.8	32744.8	26049.7
67.5°	6229.6	6516.5	7755.9	11766.5	17779.6	26298.7	31960.0	30639.4	32236.0	31819.3	25281.1
70°	4124.2	4308.2	5304.1	7956.2	12383.5	21514.1	29643.5	28864.1	28339.1	26774.9	19765.9
72.5°	1926.8	2192.0	3312.4	4822.4	7263.4	15051.8	24171.6	23127.0	19874.2	17373.7	12470.1
75°	871.4	990.5	1818.6	2765.7	3258.2	7799.2	15593.0	14083.0	9893.8	8216.0	5461.1
77.5°	470.9	535.8	887.6	1315.2	1185.3	2733.2	7718.0	6419.1	3117.5	2284.0	1585.8
80°	362.6	427.6	741.5	752.3	438.4	709.0	2868.6	1986.3	779.4	589.9	378.9
82.5°	189.4	270.6	584.5	487.1	221.9	286.9	887.6	552.1	243.6	194.8	162.4
85°	75.8	119.1	330.2	324.7	129.9	97.4	249.0	167.8	97.4	81.2	75.8
87.5°	5.4	5.4	178.6	124.5	81.2	27.1	37.9	37.9	48.7	43.3	54.1
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°	5737.1	5737.1	5737.1	5737.1	5737.1	5737.1	5737.1	5737.1	5737.1	5737.1	5737.1
2.5°	5877.8	5942.8	5953.6	6132.2	6170.1	6132.2	6229.6	6213.4	6256.7	6224.2	6164.7
5°	6013.1	6105.1	6283.7	6419.1	6419.1	6310.8	6224.2	6110.6	5942.8	5899.5	5867.0
7.5°	6245.9	6538.1	6700.5	6613.9	6440.7	6034.8	5471.9	5060.6	4714.2	4584.3	4524.7
10°	6657.2	6819.6	7009.0	6657.2	5937.4	5076.8	4129.6	3507.2	3020.1	2911.8	2830.7
12.5°	6922.4	7182.2	7290.4	6419.1	5006.4	3723.7	2695.4	1991.7	1650.8	1391.0	1347.7
15°	7268.8	7566.5	7344.6	5775.0	3945.6	2441.0	1396.4	871.4	709.0	665.7	665.7
17.5°	7506.9	7831.7	7122.7	4974.0	2798.2	1299.0	692.8	600.8	589.9	595.4	584.5
20°	7923.7	8118.5	6787.1	4043.0	1672.4	665.7	557.5	535.8	525.0	541.2	530.4
22.5°	8080.7	8259.3	6240.5	2928.1	752.3	443.8	416.8	400.5	411.3	405.9	400.5
25°	8069.8	8161.8	5342.0	1677.8	221.9	173.2	157.0	157.0	146.1	151.5	146.1
27.5°	8151.0	7923.7	4335.3	497.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	8194.3	7539.4	3085.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	8216.0	7339.2	1986.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	8383.7	6938.6	849.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	8497.4	6424.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	8968.3	6262.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	9579.9	5959.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	10429.6	5509.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	11555.4	5244.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	12394.3	4827.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	13460.5	4578.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	14727.0	4589.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	15879.9	4513.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	16469.8	3859.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	16345.3	3122.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	15912.3	2451.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	15614.7	2170.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	14710.8	1737.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	11706.9	1190.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	7447.4	730.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	3431.4	335.6	10.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1077.1	205.7	43.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	281.4	129.9	43.3	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	146.1	92.0	37.9	16.2	10.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	92.0	37.9	16.2	10.8	10.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	81.2	21.6	10.8	10.8	5.4	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)