

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: P482822

Luminaire Tested: **IFLD-L-SA7A-735-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482822
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-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

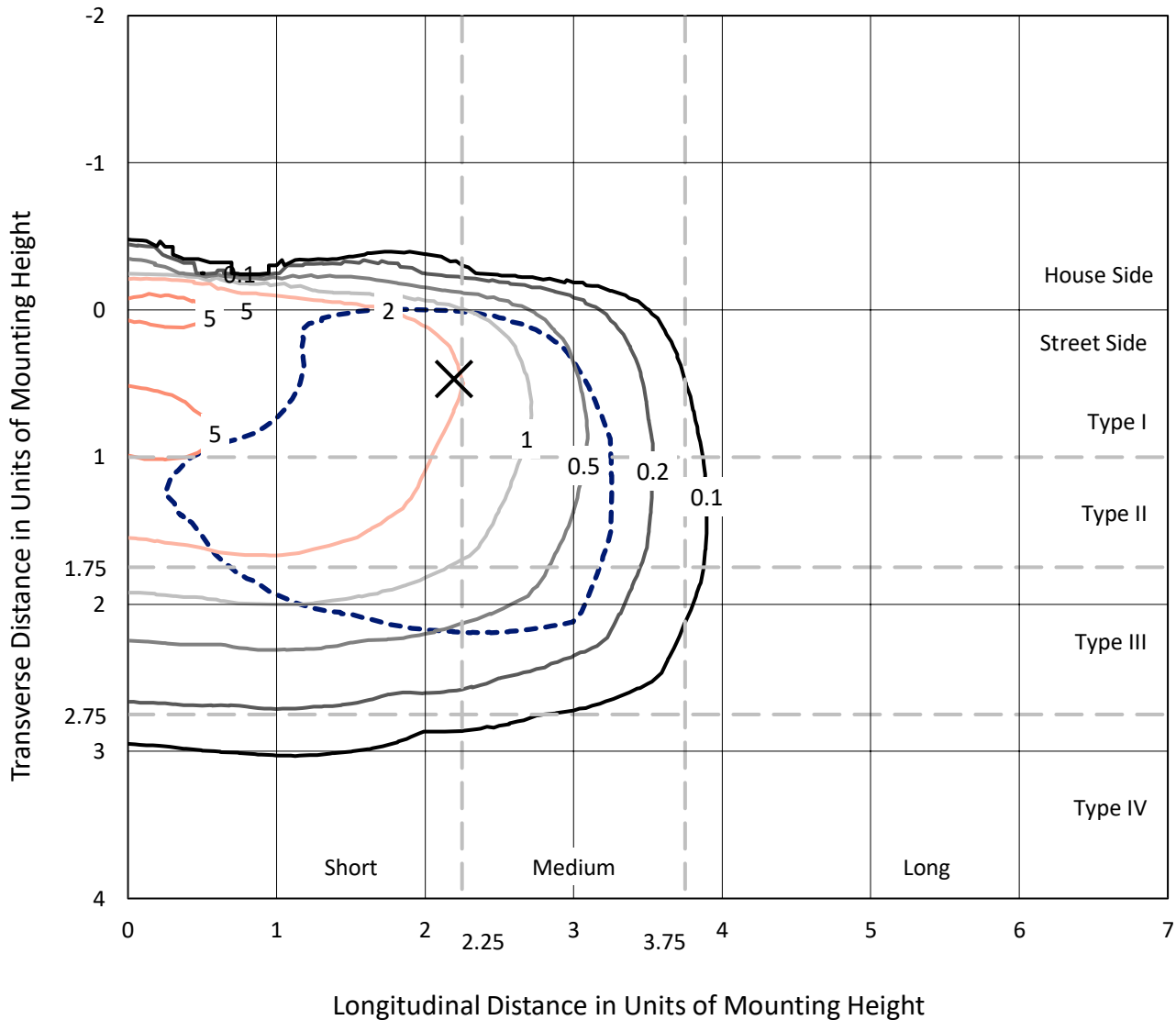
Lumens per Lamp: N/A
Luminaire Lumens: 22129.4 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 217.6
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

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Iso-Footcandle Lines of Horizontal Illumination

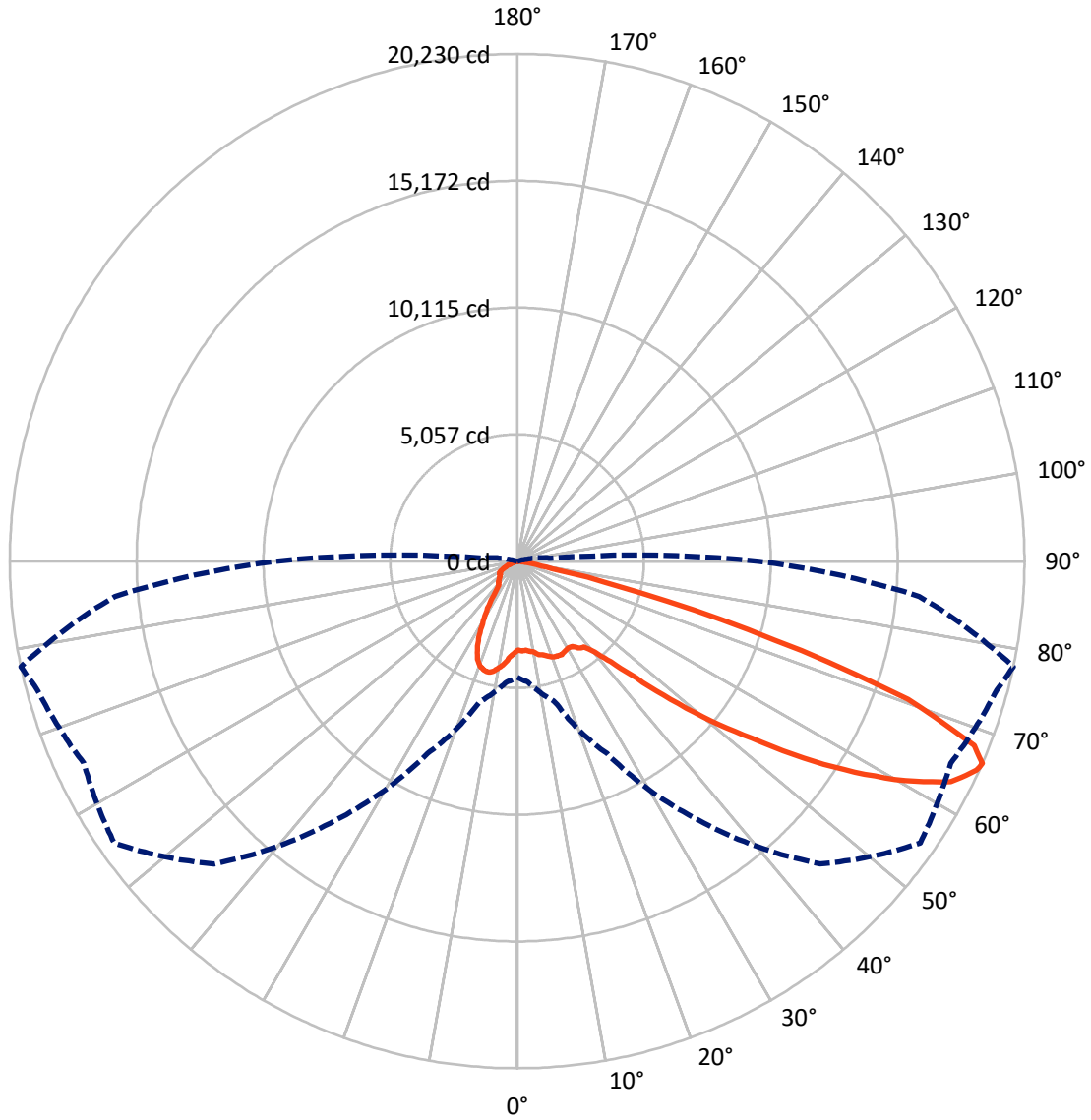
✕ Max cd
 - - - 1/2 Max cd



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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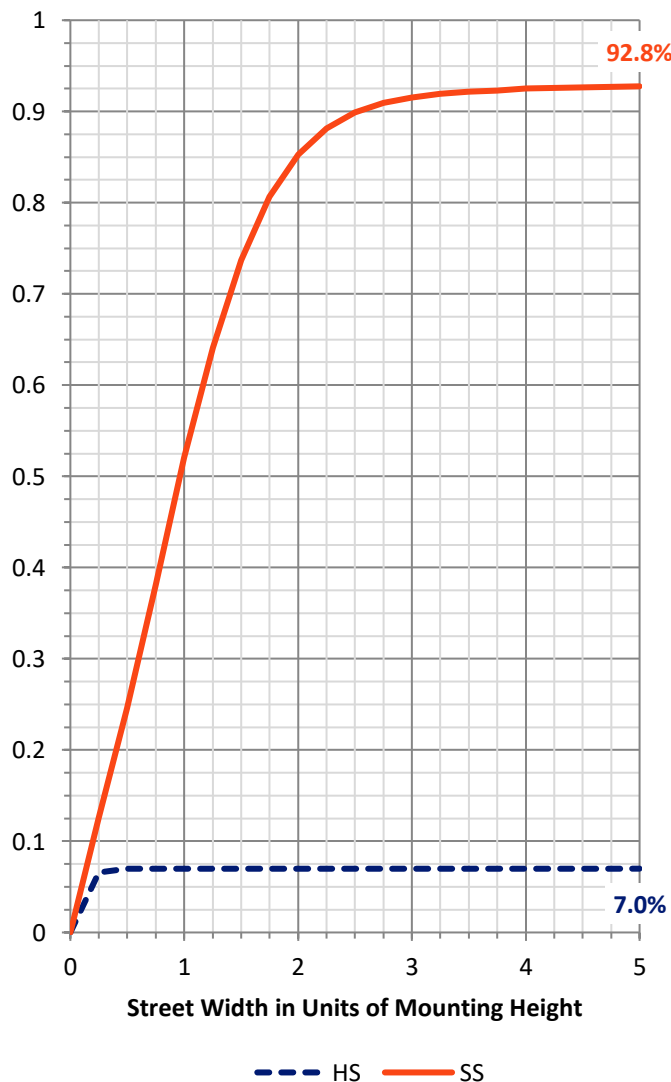
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1555.8	0.0	1555.8
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	20573.6	0.0	20573.6
	% Fixture	93.0	0.0	93.0
Total	Lumens	22129.4	0.0	22129.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.3	1.5
10°-20°	732.0	3.3
20°-30°	1046.2	4.7
30°-40°	1790.9	8.1
40°-50°	3232.3	14.6
50°-60°	5527.7	25.0
60°-70°	6803.6	30.7
70°-80°	2572.1	11.6
80°-90°	100.5	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°	22129.4	100.0
0°-180°	22129.4	100.0

Coefficient of Utilization

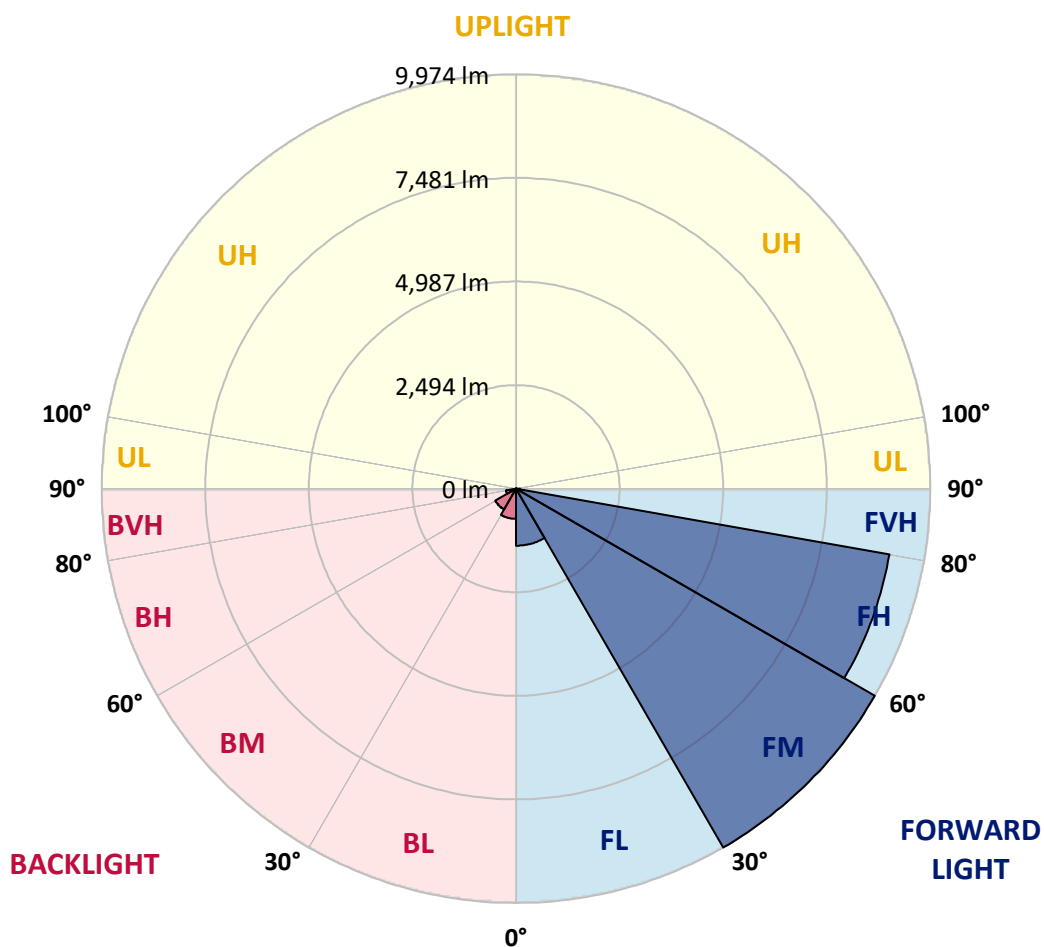


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1373.8	6.2			
FM (30°-60°)	9974.2	45.1			
FH (60°-80°)	9129.2	41.3			G4/12000
FVH (80°-90°)	96.4	0.4			G1/100
BL (0°-30°)	728.6	3.3	B2/1000		
BM (30°-60°)	576.6	2.6	B1/1000		
BH (60°-80°)	246.5	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°	3544.4	3544.4	3544.4	3544.4	3544.4	3544.4	3544.4	3544.4	3544.4	3544.4	3544.4
2.5°	3260.2	3230.1	3260.2	3303.7	3327.1	3347.1	3417.4	3477.5	3541.1	3584.5	3571.2
5°	3022.8	3079.6	3086.3	3099.7	3136.5	3256.9	3297.0	3400.6	3557.8	3571.2	3631.4
7.5°	2835.5	2818.8	2862.3	2949.2	3042.8	3113.1	3230.1	3410.7	3574.5	3631.4	3748.4
10°	2564.7	2598.1	2644.9	2731.9	2845.6	3019.4	3226.8	3427.4	3661.4	3681.5	3898.9
12.5°	2417.6	2384.1	2457.7	2548.0	2741.9	2902.4	3156.5	3397.3	3715.0	3825.3	4076.1
15°	2297.2	2313.9	2384.1	2444.3	2604.8	2808.8	3106.4	3470.9	3805.2	3882.1	4263.3
17.5°	2247.0	2237.0	2290.5	2350.7	2548.0	2778.7	3086.3	3474.2	3885.5	3985.8	4390.4
20°	2270.4	2290.5	2273.8	2330.6	2454.3	2688.4	3116.4	3537.7	3945.7	4082.8	4527.5
22.5°	2638.2	2611.5	2477.7	2370.7	2377.4	2651.6	3093.0	3577.9	3999.2	4109.5	4621.1
25°	3597.9	3454.1	3123.1	2711.8	2441.0	2551.3	3066.3	3564.5	3989.1	4126.2	4678.0
27.5°	4564.3	4440.6	4116.2	3477.5	2698.4	2511.2	2972.6	3574.5	3939.0	4066.0	4584.3
30°	5584.1	5651.0	5169.5	4410.5	3373.9	2731.9	2912.4	3521.0	3905.5	4012.5	4604.4
32.5°	6630.7	6604.0	6313.1	5490.5	4340.2	3220.1	3009.4	3574.5	3949.0	4052.7	4721.4
35°	7450.0	7356.3	7062.1	6319.8	5139.4	3955.7	3343.8	3828.6	4139.6	4263.3	4888.6
37.5°	7854.6	7894.7	7724.2	7078.8	6015.5	4637.8	3761.8	3828.6	4199.8	4343.6	5159.5
40°	8168.9	8289.3	8225.7	8018.4	6884.9	5406.9	4223.2	4066.0	4504.1	4774.9	5667.7
42.5°	8546.7	8489.9	8864.4	8673.8	8021.8	6376.6	5032.4	4631.1	5223.0	5483.8	6430.1
45°	8747.4	8964.7	9248.9	9493.0	9075.0	7587.1	6089.0	5630.9	6323.1	6654.1	7563.7
47.5°	9262.3	9349.2	9810.7	10118.3	9931.1	8971.4	7694.1	7092.2	7707.4	8229.1	8861.0
50°	9563.2	9446.2	10091.6	10559.7	10666.7	10118.3	9131.9	8663.8	9352.6	10018.0	10074.8
52.5°	9299.1	9633.5	10278.8	11118.1	11415.7	11141.5	10820.5	10616.5	11101.4	11716.6	11442.4
55°	8372.8	8600.2	10171.8	11730.0	12689.7	12562.6	12860.2	12726.5	13214.7	13866.7	13040.8
57.5°	7627.2	7911.4	9292.4	12047.7	13876.7	14251.2	14625.7	14542.1	15130.6	15883.0	14395.0
60°	7162.4	7326.2	8657.1	11967.4	14578.9	15996.7	16842.7	16254.2	17213.8	17789.0	15455.0
62.5°	6356.5	6460.2	7730.8	10904.1	14789.6	17230.5	18665.0	17865.9	18698.5	19400.7	16217.4
65°	5095.9	5376.8	6426.8	9312.5	13398.6	17457.9	19801.9	18862.3	19668.2	20129.6	16448.1
66°	4637.8	4841.8	5804.8	8469.8	12606.1	17080.1	19611.3	19069.6	19808.6	20229.9	16093.7
67.5°	3848.7	4025.9	4791.7	7269.4	10984.3	16247.5	19745.1	18929.2	19915.6	19658.1	15618.8
70°	2548.0	2661.7	3276.9	4915.4	7650.6	13291.6	18313.9	17832.4	17508.1	16541.7	12211.5
72.5°	1190.4	1354.2	2046.4	2979.3	4487.4	9299.1	14933.4	14288.0	12278.4	10733.6	7704.1
75°	538.4	611.9	1123.5	1708.7	2013.0	4818.4	9633.5	8700.5	6112.4	5075.9	3373.9
77.5°	290.9	331.0	548.4	812.5	732.3	1688.6	4768.2	3965.7	1926.0	1411.1	979.7
80°	224.0	264.2	458.1	464.8	270.8	438.0	1772.2	1227.2	481.5	364.5	234.1
82.5°	117.0	167.2	361.1	300.9	137.1	177.2	548.4	341.1	150.5	120.4	100.3
85°	46.8	73.6	204.0	200.6	80.3	60.2	153.8	103.7	60.2	50.2	46.8
87.5°	3.3	3.3	110.3	76.9	50.2	16.7	23.4	23.4	30.1	26.8	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°	3544.4	3544.4	3544.4	3544.4	3544.4	3544.4	3544.4	3544.4	3544.4	3544.4	3544.4
2.5°	3631.4	3671.5	3678.2	3788.5	3811.9	3788.5	3848.7	3838.7	3865.4	3845.4	3808.6
5°	3715.0	3771.8	3882.1	3965.7	3965.7	3898.9	3845.4	3775.1	3671.5	3644.7	3624.7
7.5°	3858.7	4039.3	4139.6	4086.1	3979.1	3728.3	3380.6	3126.4	2912.4	2832.2	2795.4
10°	4112.9	4213.2	4330.2	4112.9	3668.1	3136.5	2551.3	2166.8	1865.8	1799.0	1748.8
12.5°	4276.7	4437.2	4504.1	3965.7	3093.0	2300.5	1665.2	1230.5	1019.9	859.4	832.6
15°	4490.7	4674.6	4537.5	3567.8	2437.6	1508.0	862.7	538.4	438.0	411.3	411.3
17.5°	4637.8	4838.5	4400.4	3072.9	1728.7	802.5	428.0	371.2	364.5	367.8	361.1
20°	4895.3	5015.7	4193.1	2497.8	1033.2	411.3	344.4	331.0	324.3	334.4	327.7
22.5°	4992.3	5102.6	3855.4	1809.0	464.8	274.2	257.5	247.4	254.1	250.8	247.4
25°	4985.6	5042.4	3300.3	1036.6	137.1	107.0	97.0	97.0	90.3	93.6	90.3
27.5°	5035.7	4895.3	2678.4	307.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	5062.5	4657.9	1906.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	5075.9	4534.2	1227.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	5179.5	4286.7	525.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	5249.7	3969.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5540.7	3868.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5918.5	3681.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	6443.5	3404.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	7139.0	3240.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	7657.3	2982.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	8316.0	2828.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	9098.5	2835.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	9810.7	2788.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	10175.2	2384.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	10098.2	1929.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	9830.7	1514.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	9646.8	1340.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	9088.4	1073.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	7232.6	735.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4601.1	451.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	2120.0	207.3	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	665.4	127.1	26.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	173.9	80.3	26.8	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	90.3	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°	50.2	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)