

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: P483102

Luminaire Tested: **IFLD-L-SA8C-722-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483102
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-722-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (128) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

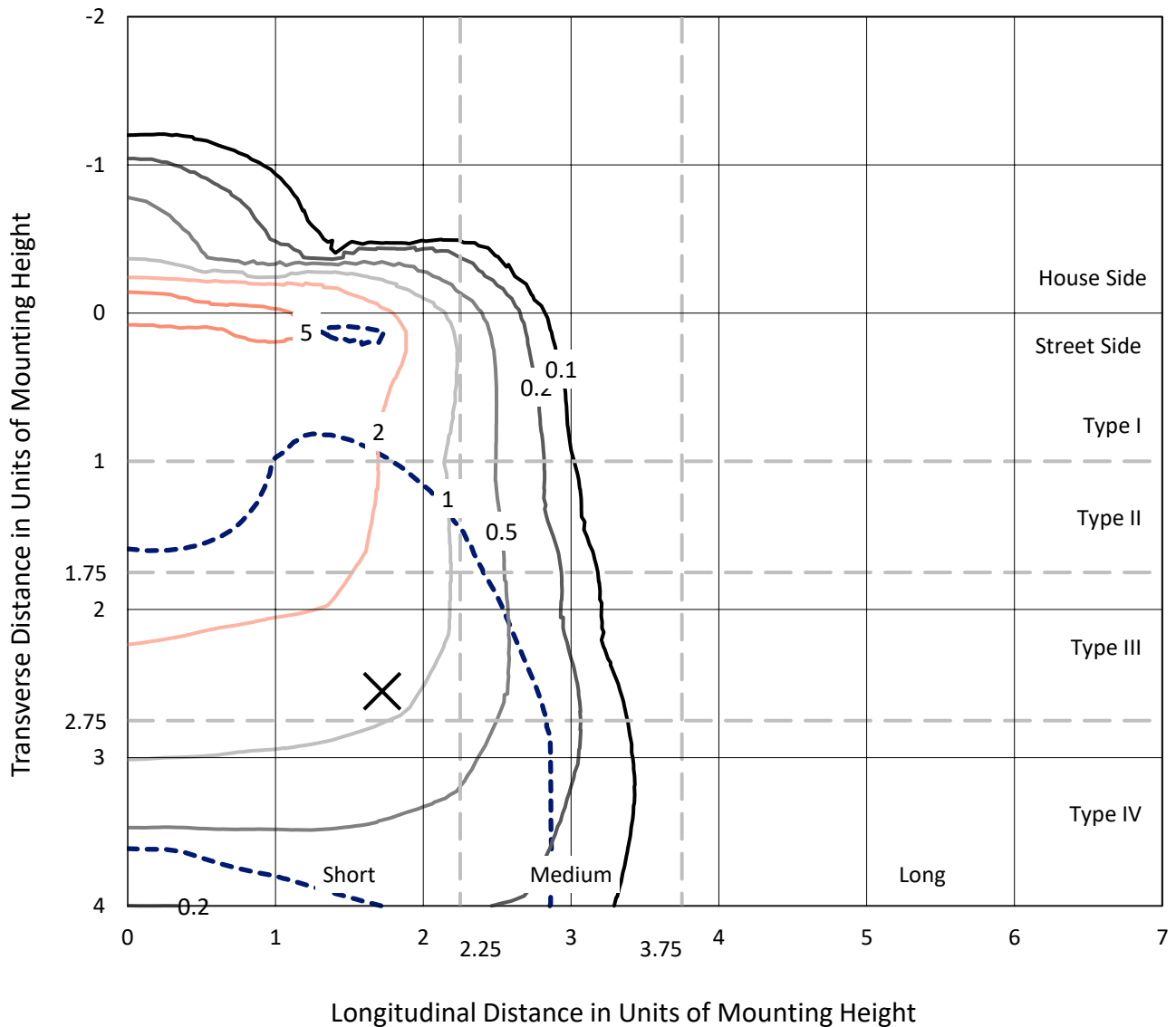
Lumens per Lamp: N/A
Luminaire Lumens: 26984.9 lumens
Efficiency: N/A
Efficacy: 64.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

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

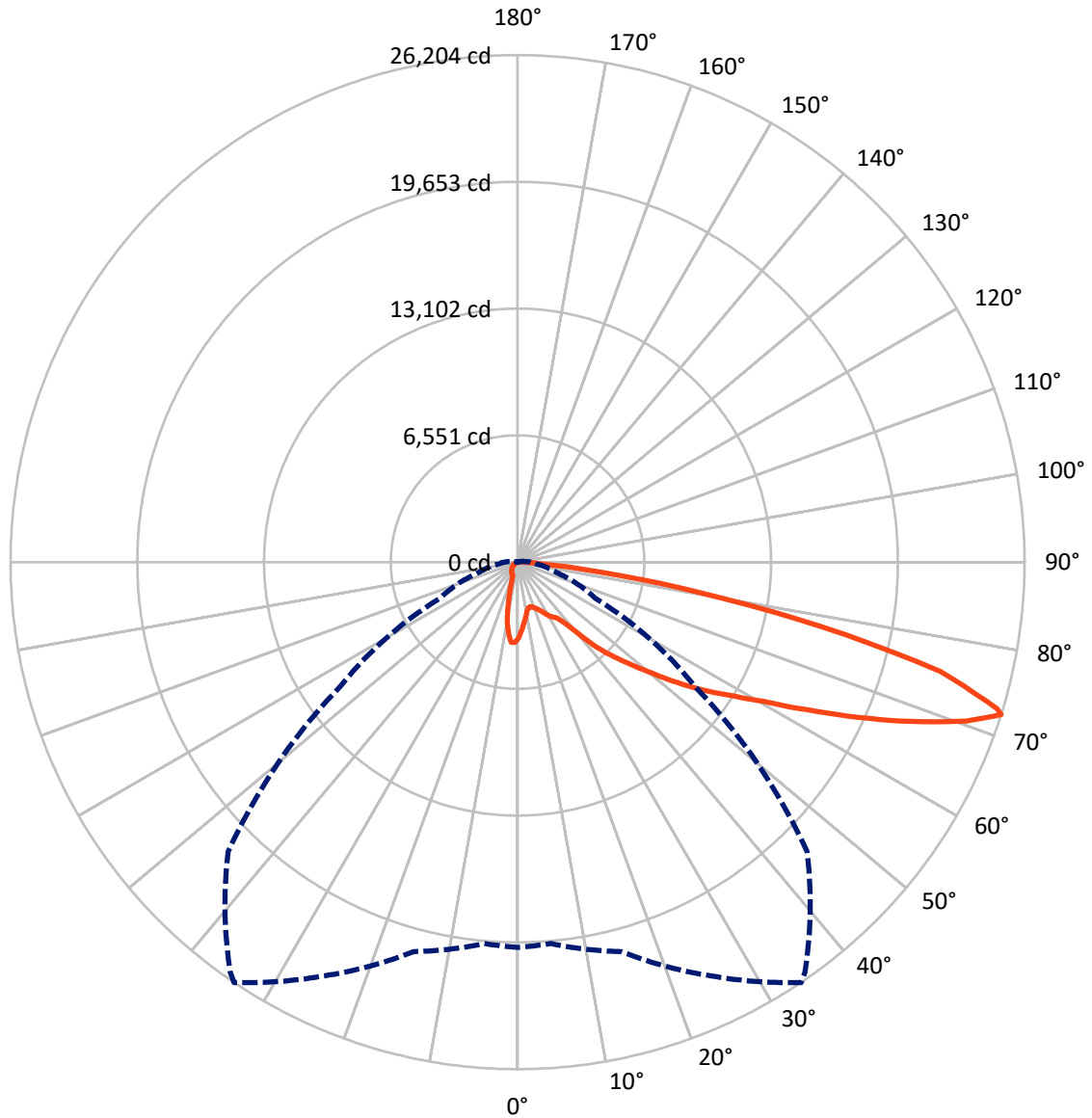
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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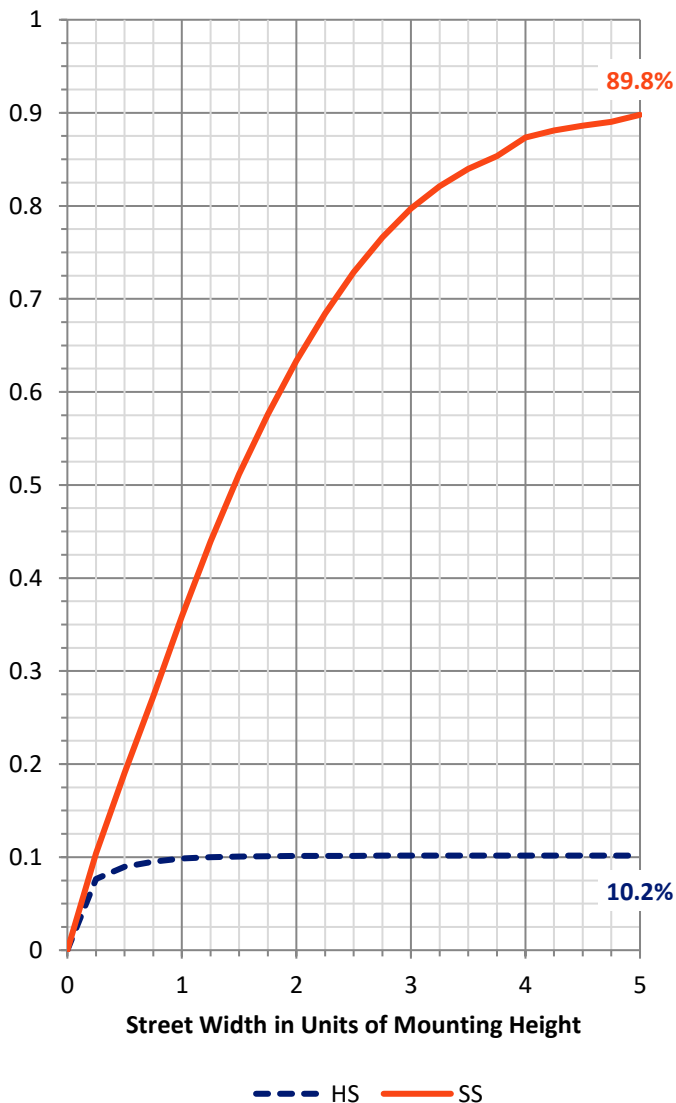
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2762.6	0.0	2762.6
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	24222.3	0.0	24222.3
	% Fixture	89.8	0.0	89.8
Total	Lumens	26984.9	0.0	26984.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.7	1.3
10°-20°	775.9	2.9
20°-30°	1171.1	4.3
30°-40°	1900.5	7.0
40°-50°	3573.8	13.2
50°-60°	5843.3	21.7
60°-70°	7767.8	28.8
70°-80°	5202.1	19.3
80°-90°	407.7	1.5
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°	26984.9	100.0
0°-180°	26984.9	100.0

Coefficient of Utilization

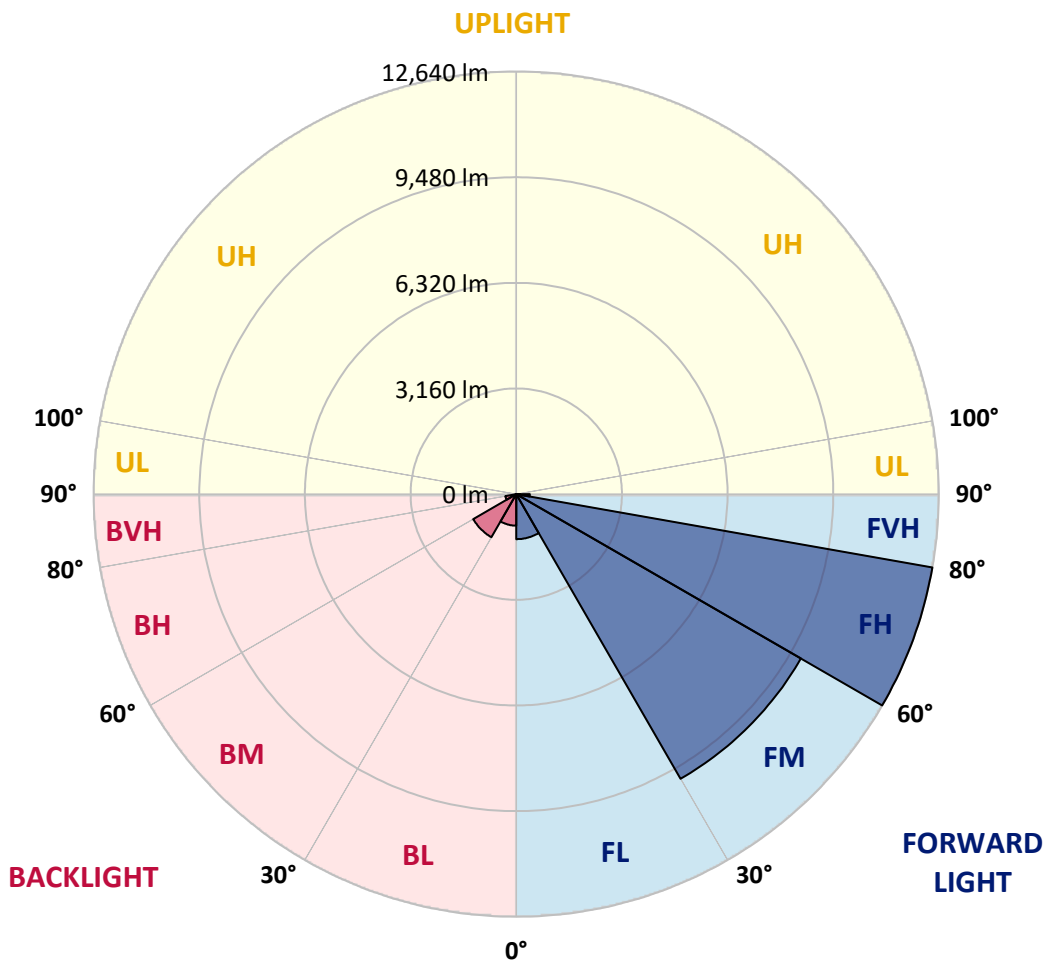


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1347.1	5.0			
FM (30°-60°)	9830.6	36.4			
FH (60°-80°)	12639.5	46.8			G5
FVH (80°-90°)	405.1	1.5			G3/500
BL (0°-30°)	942.6	3.5	B2/1000		
BM (30°-60°)	1487.1	5.5	B2/2500		
BH (60°-80°)	330.3	1.2	B1/500		G1/500
BVH (80°-90°)	2.6	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-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3947.9	3947.9	3947.9	3947.9	3947.9	3947.9	3947.9	3947.9	3947.9	3947.9	3947.9
2.5°	3491.5	3483.7	3507.1	3546.1	3585.1	3569.5	3643.6	3721.7	3776.3	3850.4	3940.1
5°	3050.7	3070.2	3093.6	3171.6	3222.3	3234.0	3370.6	3472.0	3639.7	3811.4	3971.3
7.5°	2648.9	2672.3	2719.1	2804.9	2910.2	2937.5	3074.1	3276.9	3495.4	3721.7	3983.0
10°	2356.3	2379.7	2430.4	2485.0	2625.4	2625.4	2812.7	3093.6	3378.4	3643.6	3986.9
12.5°	2293.9	2305.6	2301.7	2344.6	2434.3	2453.8	2637.1	2945.3	3276.9	3616.3	4049.4
15°	2368.0	2375.8	2336.8	2313.4	2391.4	2410.9	2582.5	2855.6	3210.6	3631.9	4150.8
17.5°	2516.2	2488.9	2410.9	2375.8	2442.1	2453.8	2613.7	2851.7	3202.8	3674.8	4267.8
20°	2602.0	2633.2	2496.7	2430.4	2524.0	2539.6	2711.3	2914.1	3241.8	3749.0	4431.7
22.5°	2754.2	2769.8	2586.4	2543.5	2633.2	2633.2	2828.3	3039.0	3335.4	3869.9	4626.7
25°	2968.7	2949.2	2734.7	2691.8	2777.6	2812.7	3007.8	3237.9	3479.8	3983.0	4806.2
27.5°	3136.5	3148.2	2972.6	2859.5	3003.9	3027.3	3237.9	3452.5	3589.0	4076.7	5024.6
30°	3386.2	3362.8	3175.5	3046.8	3226.2	3230.1	3433.0	3655.3	3799.7	4244.4	5352.3
32.5°	3682.6	3635.8	3421.3	3237.9	3382.3	3417.4	3624.1	3947.9	4127.4	4560.4	5859.5
35°	4310.7	4197.6	3846.5	3561.7	3573.4	3589.0	3908.9	4373.1	4579.9	4962.2	6538.3
37.5°	5227.5	5180.7	4782.8	4240.5	4033.7	3986.9	4345.8	4934.9	5192.4	5492.8	7419.9
40°	6136.4	6070.1	5699.5	5289.9	4915.4	4821.8	5001.2	5680.0	5914.1	6230.1	8325.0
42.5°	7146.8	7029.8	6592.9	6261.3	6027.2	5925.8	5855.6	6616.3	6881.6	7096.1	9210.5
45°	8168.9	7977.8	7345.8	7092.2	6967.4	6912.8	6905.0	7794.4	7954.4	7997.3	10193.6
47.5°	9066.2	8859.4	8286.0	8001.2	7907.5	7891.9	8328.9	9152.0	9027.2	8914.0	11289.8
50°	9756.7	9624.0	9210.5	9109.1	9038.9	9011.6	10033.7	10548.6	9971.2	9772.3	12253.4
52.5°	10825.6	10529.1	10061.0	10096.1	10341.8	10345.7	11761.8	11875.0	10755.4	10361.3	13162.3
55°	11679.9	11484.9	11102.6	11051.8	11699.4	11769.6	13310.6	12881.5	11192.3	10923.1	13497.8
57.5°	12686.4	12596.7	12319.7	12327.5	13006.3	13154.5	14687.7	13731.9	11555.1	11285.9	13548.6
60°	14141.5	13884.0	13739.7	13806.0	14605.8	14750.1	16021.9	14344.4	11730.6	11523.9	13423.7
62.5°	15748.8	15448.4	15292.3	15631.7	16798.2	16821.6	17036.1	14886.6	11621.4	11586.3	12620.1
65°	17683.7	17387.2	17262.4	17945.1	19330.0	19244.2	18460.0	15116.8	11274.2	10958.2	10509.6
67.5°	19610.9	19431.4	19173.9	20262.4	21986.6	21986.6	19938.6	15031.0	10365.2	8797.0	6873.8
70°	20523.7	20648.6	21058.2	22766.9	24596.5	24409.2	21397.6	14044.0	7716.4	4724.2	2703.5
72°	19915.2	19786.4	20843.6	23586.1	26203.7	25895.6	21151.8	11165.0	4459.0	2071.5	940.2
72.5°	18869.7	18990.6	20445.7	23473.0	25903.4	26156.9	20551.0	10298.9	3667.0	1650.2	710.0
75°	11570.7	11777.4	15261.1	19930.8	22571.8	22287.0	15897.0	4907.6	1408.3	702.2	253.6
77.5°	4224.9	4396.5	7404.3	12542.1	16053.1	15873.6	9198.8	1743.8	764.6	522.7	128.7
80°	1100.1	1189.8	2516.2	5785.3	9440.7	9452.4	3850.4	698.3	518.8	429.1	78.0
82.5°	218.5	241.9	772.4	2250.9	4412.2	4353.6	1217.1	374.5	390.1	351.1	54.6
85°	27.3	35.1	163.8	764.6	1427.8	1279.6	300.4	187.3	288.7	273.1	35.1
87.5°	3.9	3.9	39.0	175.5	300.4	292.6	62.4	58.5	128.7	167.7	19.5
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°	3947.9	3947.9	3947.9	3947.9	3947.9	3947.9	3947.9	3947.9	3947.9	3947.9	3947.9
2.5°	3990.8	4006.4	4061.1	4107.9	4162.5	4178.1	4154.7	4193.7	4139.1	4170.3	4178.1
5°	3998.6	4088.4	4189.8	4256.1	4240.5	4201.5	4170.3	4065.0	3990.8	3963.5	4022.0
7.5°	4053.3	4154.7	4263.9	4263.9	4178.1	3975.2	3780.2	3592.9	3436.9	3358.9	3425.2
10°	4123.5	4228.8	4341.9	4193.7	3873.8	3503.2	3226.2	2875.1	2637.1	2512.3	2524.0
12.5°	4217.1	4365.3	4404.4	4061.1	3530.5	2980.4	2477.2	1989.6	1763.3	1583.9	1587.8
15°	4338.0	4482.4	4365.3	3772.4	3093.6	2282.1	1677.5	1213.2	1033.8	940.2	940.2
17.5°	4498.0	4607.2	4353.6	3507.1	2504.5	1560.4	1029.9	819.2	780.2	764.6	764.6
20°	4685.2	4767.2	4240.5	3093.6	1860.8	1002.6	756.8	733.4	737.3	729.5	729.5
22.5°	4895.9	4923.2	4111.8	2613.7	1260.1	741.2	706.1	710.0	713.9	706.1	710.0
25°	5118.3	5044.1	3924.5	2052.0	838.7	674.9	682.7	690.5	694.4	698.3	698.3
27.5°	5367.9	5219.7	3663.1	1501.9	655.4	635.9	659.3	682.7	686.6	686.6	682.7
30°	5734.6	5488.9	3409.6	1018.2	577.4	593.0	632.0	659.3	678.8	678.8	674.9
32.5°	6198.9	5769.7	3054.6	694.4	534.5	542.3	573.5	628.1	671.0	674.9	663.2
35°	6842.5	6109.1	2684.0	554.0	503.2	507.1	526.6	569.6	643.7	667.1	663.2
37.5°	7521.3	6495.3	2223.6	499.3	479.8	475.9	487.6	522.7	589.1	647.6	651.5
40°	8243.0	6901.1	1739.9	472.0	460.3	452.5	456.4	472.0	522.7	596.9	612.5
42.5°	8921.8	7267.8	1306.9	444.7	440.8	433.0	433.0	436.9	464.2	514.9	522.7
45°	9655.2	7568.2	994.8	425.2	413.5	417.4	401.8	394.0	413.5	417.4	413.5
47.5°	10341.8	7868.5	795.8	401.8	390.1	390.1	370.6	355.0	355.0	319.9	316.0
50°	10985.5	8032.4	635.9	370.6	366.7	362.8	335.5	308.2	284.8	241.9	234.1
52.5°	11520.0	8024.6	491.5	331.6	343.3	331.6	288.7	249.7	214.6	175.5	167.7
55°	11679.9	7650.1	370.6	273.1	292.6	277.0	230.2	195.1	156.0	124.8	120.9
57.5°	11543.4	7080.5	280.9	210.7	226.3	210.7	175.5	144.3	109.2	85.8	78.0
60°	11087.0	6413.4	218.5	163.8	171.6	159.9	132.6	109.2	78.0	54.6	46.8
62.5°	10220.9	5578.6	167.7	128.7	124.8	124.8	101.4	81.9	54.6	31.2	27.3
65°	8387.4	4349.7	128.7	89.7	89.7	89.7	78.0	58.5	35.1	15.6	7.8
67.5°	5266.5	2531.8	105.3	70.2	66.3	66.3	54.6	39.0	19.5	3.9	0.0
70°	1981.8	928.5	81.9	54.6	50.7	50.7	39.0	23.4	11.7	0.0	0.0
72°	682.7	355.0	66.3	39.0	39.0	35.1	27.3	19.5	7.8	0.0	0.0
72.5°	561.8	284.8	62.4	39.0	35.1	35.1	27.3	19.5	7.8	0.0	0.0
75°	202.9	117.0	42.9	27.3	23.4	23.4	19.5	11.7	3.9	0.0	0.0
77.5°	101.4	74.1	35.1	23.4	19.5	11.7	11.7	7.8	3.9	0.0	0.0
80°	62.4	46.8	19.5	15.6	11.7	7.8	3.9	3.9	0.0	0.0	0.0
82.5°	42.9	27.3	11.7	11.7	7.8	3.9	0.0	0.0	0.0	0.0	0.0
85°	27.3	11.7	7.8	7.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.7	7.8	3.9	0.0	0.0	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)