

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: P479213

Luminaire Tested: **IFLD-S-SA3E-727-U-5MQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479213  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3E-727-U-5MQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens  
Light Source: (48) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

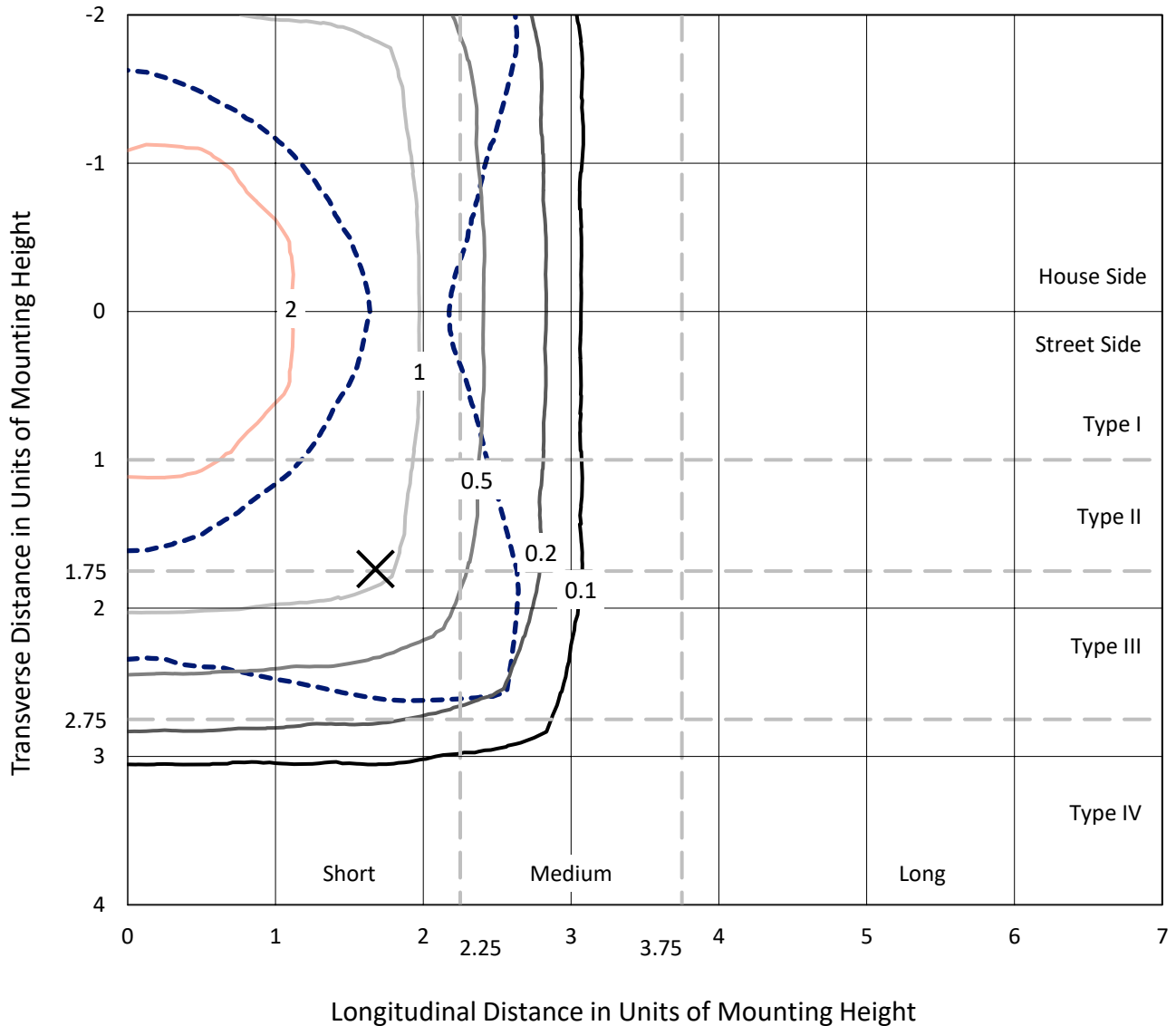
Lumens per Lamp: N/A  
Luminaire Lumens: 22770.1 lumens  
Efficiency: N/A  
Efficacy: 98.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

Input Watts (W): 232.1  
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

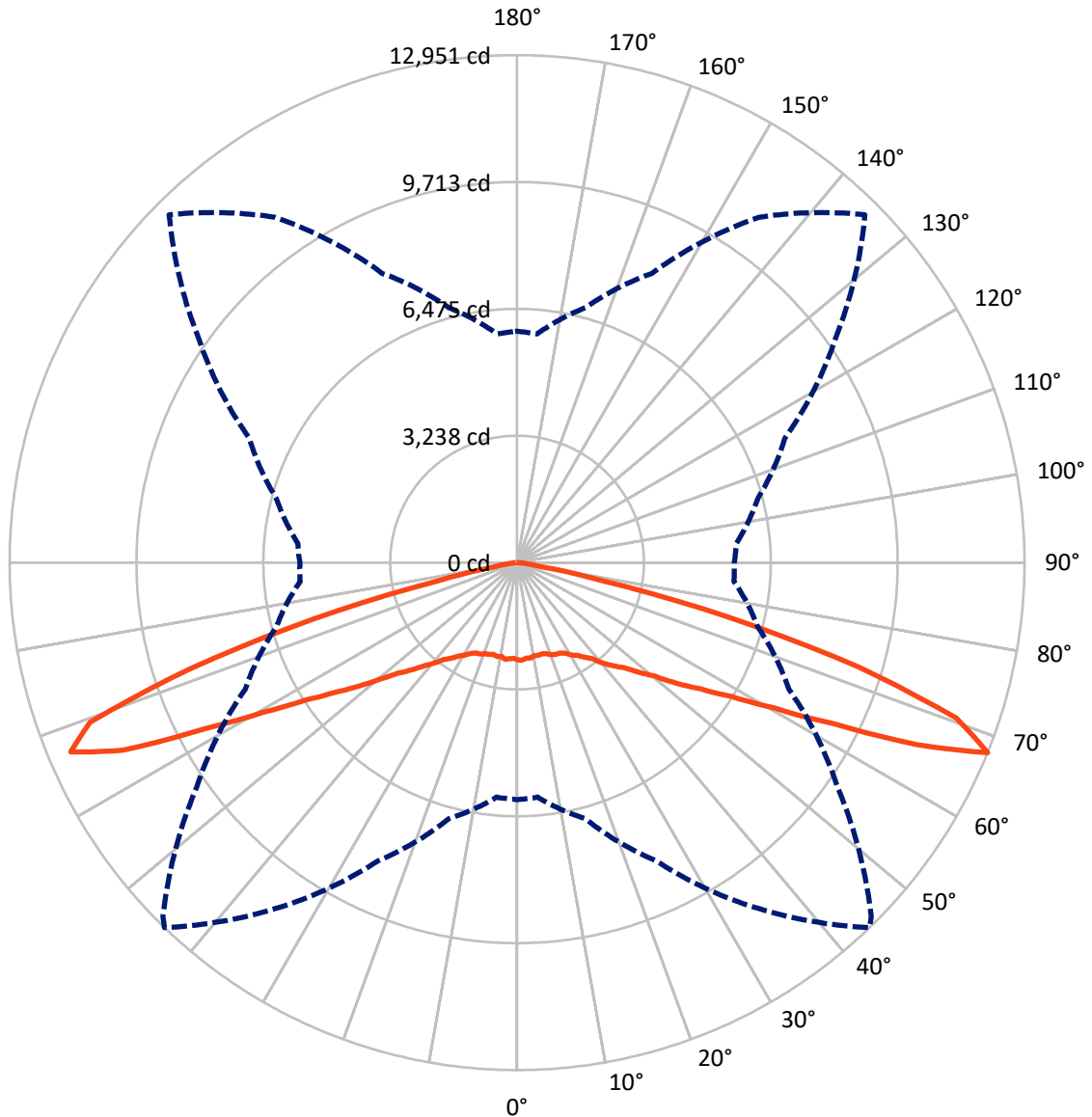
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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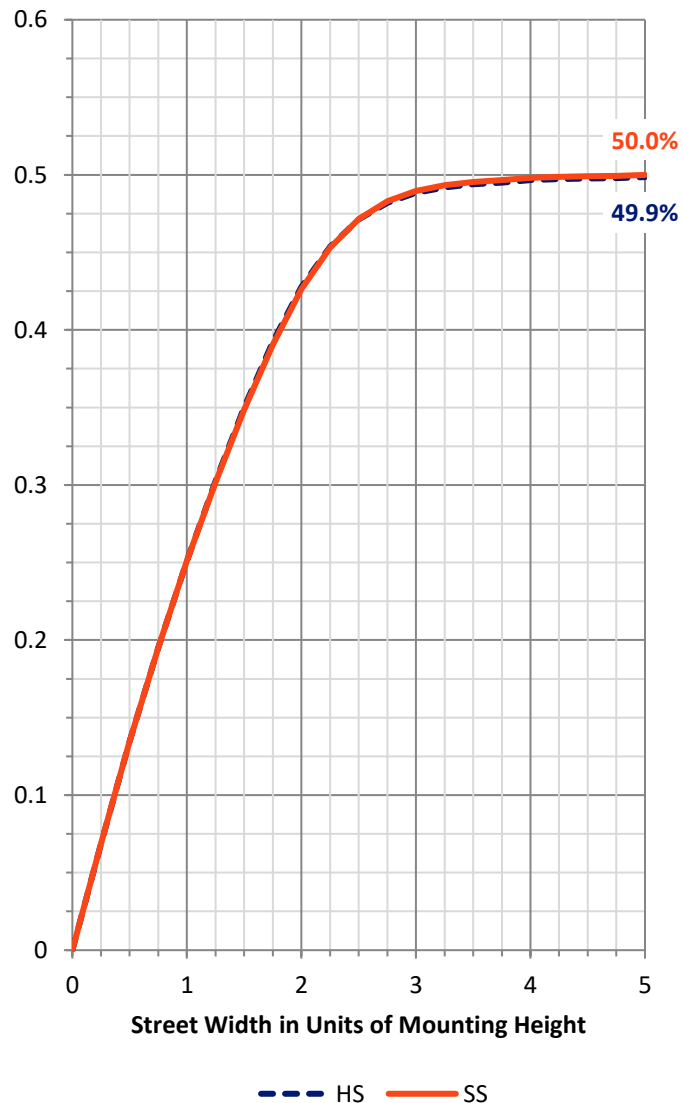
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11355.9	0.0	11355.9
	% Fixture	49.9	0.0	49.9
<b>Street Side</b>	Lumens	11414.2	0.0	11414.2
	% Fixture	50.1	0.0	50.1
<b>Total</b>	Lumens	22770.1	0.0	22770.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	235.4	1.0
10°-20°	687.6	3.0
20°-30°	1169.3	5.1
30°-40°	1854.0	8.1
40°-50°	3023.1	13.3
50°-60°	5163.1	22.7
60°-70°	7853.1	34.5
70°-80°	2647.0	11.6
80°-90°	137.4	0.6
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°	22770.1	100.0
0°-180°	22770.1	100.0

**Coefficient of Utilization**



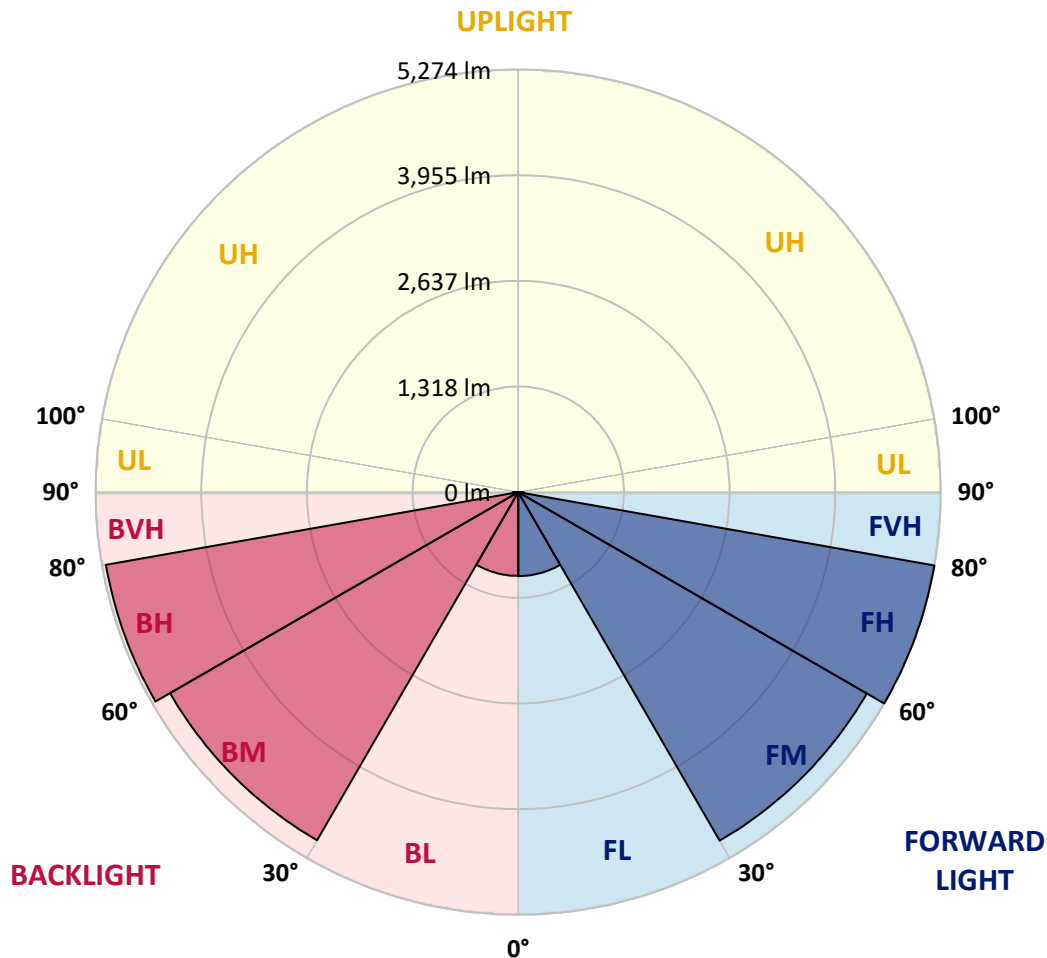
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1047.2	4.6			
FM (30°-60°)	5022.9	22.1			
FH (60°-80°)	5273.8	23.2			G3/7500
FVH (80°-90°)	70.3	0.3			G1/100
BL (0°-30°)	1045.1	4.6	B3/2500		
BM (30°-60°)	5017.4	22.0	B4/8500		
BH (60°-80°)	5226.2	23.0	B5		G3/7500
BVH (80°-90°)	67.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2487.2	2487.2	2487.2	2487.2	2487.2	2487.2	2487.2	2487.2	2487.2	2487.2	2487.2
2.5°	2430.1	2458.6	2479.4	2476.8	2484.6	2492.4	2482.0	2497.6	2487.2	2505.4	2515.8
5°	2476.8	2469.0	2471.6	2456.0	2492.4	2450.8	2450.8	2471.6	2497.6	2466.4	2484.6
7.5°	2448.3	2443.1	2430.1	2453.4	2461.2	2461.2	2482.0	2443.1	2487.2	2497.6	2500.2
10°	2417.1	2388.5	2427.5	2450.8	2456.0	2414.5	2432.7	2443.1	2430.1	2443.1	2450.8
12.5°	2391.1	2406.7	2406.7	2406.7	2398.9	2427.5	2445.7	2443.1	2417.1	2440.5	2398.9
15°	2388.5	2380.7	2404.1	2424.9	2411.9	2417.1	2424.9	2448.3	2398.9	2409.3	2409.3
17.5°	2385.9	2396.3	2404.1	2401.5	2445.7	2445.7	2437.9	2422.3	2461.2	2440.5	2411.9
20°	2396.3	2388.5	2409.3	2417.1	2448.3	2510.6	2487.2	2474.2	2453.4	2427.5	2427.5
22.5°	2409.3	2404.1	2432.7	2466.4	2526.2	2541.8	2539.2	2523.6	2487.2	2456.0	2450.8
25°	2456.0	2409.3	2440.5	2505.4	2526.2	2557.4	2578.2	2557.4	2508.0	2515.8	2469.0
27.5°	2526.2	2518.4	2560.0	2604.2	2586.0	2614.6	2596.4	2612.0	2614.6	2575.6	2528.8
30°	2609.4	2586.0	2612.0	2697.8	2705.6	2736.7	2705.6	2664.0	2677.0	2643.2	2619.8
32.5°	2728.9	2721.1	2770.5	2827.7	2838.1	2822.5	2806.9	2830.3	2775.7	2749.7	2708.1
35°	2806.9	2840.7	2900.5	2944.7	2978.4	2962.9	2970.6	2947.3	2960.3	2905.7	2887.5
37.5°	3038.2	3025.2	3038.2	3113.6	3121.4	3113.6	3121.4	3147.4	3129.2	3082.4	3035.6
40°	3256.5	3235.7	3266.9	3352.7	3347.5	3373.5	3321.5	3350.1	3350.1	3261.7	3243.5
42.5°	3420.3	3490.4	3526.8	3597.0	3623.0	3599.6	3589.2	3594.4	3651.6	3547.6	3508.6
45°	3758.1	3755.5	3864.7	3903.7	3830.9	3825.7	3804.9	3867.3	3906.3	3846.5	3830.9
47.5°	4124.6	4142.8	4205.2	4220.8	4264.9	4184.4	4184.4	4192.2	4329.9	4189.6	4116.8
50°	4454.7	4478.1	4602.8	4725.0	4641.8	4556.0	4589.8	4631.4	4706.8	4574.2	4511.9
52.5°	4854.9	4982.3	5065.4	5130.4	5190.2	5130.4	5052.4	5099.2	5247.4	5070.6	4992.7
55°	5431.9	5533.3	5611.2	5730.8	5780.2	5699.6	5691.8	5686.6	5769.8	5582.6	5476.1
57.5°	6076.4	6034.9	6159.6	6344.1	6523.5	6445.5	6422.1	6427.3	6448.1	6183.0	6102.4
60°	6876.9	6923.7	7071.9	7233.0	7422.7	7531.9	7378.5	7290.2	7308.4	6947.1	6822.4
62.5°	7334.4	7438.3	7773.6	8327.2	8709.2	9049.7	9073.1	8498.7	8114.1	7412.3	6882.1
65°	7113.4	7097.8	7729.4	8753.4	10201.0	11191.3	11043.1	9650.1	8306.4	7191.4	6479.3
67.5°	6050.5	6008.9	6773.0	8397.3	10788.4	12950.8	12781.8	9974.9	7656.6	6362.3	5556.6
70°	3898.5	3888.1	4717.2	6401.3	9631.9	11890.4	11952.8	9060.1	6232.4	4660.0	3862.1
72.5°	1416.5	1502.2	1983.0	3441.1	6541.7	9096.5	9135.5	6708.0	3584.0	2154.6	1588.0
75°	522.4	538.0	626.4	1117.6	2981.0	5585.2	5730.8	3253.9	1273.5	701.7	571.8
77.5°	301.5	304.1	335.3	415.8	883.7	2180.6	2268.9	987.6	493.8	374.3	345.7
80°	205.3	202.7	236.5	270.3	353.5	618.6	657.5	413.2	311.9	259.9	218.3
82.5°	119.6	127.4	174.1	192.3	215.7	272.9	278.1	257.3	233.9	192.3	142.9
85°	72.8	59.8	96.2	106.6	124.8	122.2	122.2	140.3	150.7	135.1	80.6
87.5°	18.2	18.2	23.4	26.0	33.8	26.0	28.6	54.6	72.8	67.6	41.6
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°	2487.2	2487.2	2487.2	2487.2	2487.2	2487.2	2487.2	2487.2	2487.2	2487.2	2487.2
2.5°	2492.4	2484.6	2489.8	2518.4	2500.2	2445.7	2458.6	2487.2	2463.8	2450.8	2448.3
5°	2482.0	2497.6	2479.4	2484.6	2502.8	2458.6	2466.4	2502.8	2487.2	2492.4	2463.8
7.5°	2484.6	2492.4	2476.8	2453.4	2453.4	2489.8	2469.0	2474.2	2450.8	2489.8	2437.9
10°	2469.0	2448.3	2430.1	2443.1	2437.9	2427.5	2419.7	2435.3	2411.9	2445.7	2409.3
12.5°	2422.3	2427.5	2422.3	2417.1	2427.5	2453.4	2411.9	2417.1	2380.7	2385.9	2404.1
15°	2404.1	2419.7	2414.5	2443.1	2456.0	2417.1	2448.3	2417.1	2388.5	2372.9	2401.5
17.5°	2411.9	2435.3	2427.5	2448.3	2424.9	2453.4	2458.6	2445.7	2411.9	2398.9	2411.9
20°	2419.7	2411.9	2422.3	2458.6	2492.4	2463.8	2463.8	2456.0	2424.9	2406.7	2406.7
22.5°	2437.9	2424.9	2440.5	2469.0	2479.4	2523.6	2484.6	2466.4	2414.5	2367.7	2411.9
25°	2474.2	2482.0	2492.4	2482.0	2539.2	2534.0	2528.8	2515.8	2435.3	2437.9	2430.1
27.5°	2544.4	2500.2	2513.2	2575.6	2583.4	2604.2	2578.2	2601.6	2515.8	2518.4	2466.4
30°	2630.2	2583.4	2625.0	2679.6	2677.0	2715.9	2703.0	2708.1	2648.4	2614.6	2544.4
32.5°	2723.7	2718.5	2744.5	2778.3	2791.3	2812.1	2809.5	2809.5	2773.1	2684.8	2697.8
35°	2827.7	2864.1	2895.3	2931.7	2936.9	2962.9	2926.5	2931.7	2895.3	2830.3	2851.1
37.5°	3033.0	3030.4	3064.2	3108.4	3113.6	3092.8	3121.4	3108.4	3059.0	3014.8	2981.0
40°	3272.1	3220.2	3251.3	3355.3	3363.1	3326.7	3324.1	3321.5	3285.1	3189.0	3168.2
42.5°	3480.1	3547.6	3542.4	3576.2	3552.8	3534.6	3599.6	3563.2	3534.6	3433.3	3415.1
45°	3747.7	3768.5	3836.1	3945.3	3833.5	3833.5	3877.7	3849.1	3833.5	3758.1	3688.0
47.5°	4080.4	4098.6	4233.8	4241.6	4168.8	4119.4	4257.1	4262.3	4197.4	4140.2	4054.4
50°	4470.3	4478.1	4600.2	4725.0	4644.4	4550.8	4691.2	4745.8	4600.2	4522.2	4415.7
52.5°	4899.1	4875.7	4977.1	5211.0	5133.0	5104.4	5255.2	5268.2	5070.6	4948.5	4977.1
55°	5392.9	5361.7	5637.2	5795.8	5746.4	5694.4	5762.0	5793.2	5634.6	5434.5	5504.7
57.5°	6032.3	6047.9	6185.6	6341.5	6422.1	6435.1	6466.3	6435.1	6274.0	6071.2	6006.3
60°	6671.6	6718.4	6986.1	7279.8	7305.8	7534.5	7492.9	7337.0	7108.2	6819.8	6832.7
62.5°	6908.1	6869.1	7300.6	8017.9	8628.7	9047.1	8862.6	8309.0	7778.8	7253.8	7292.8
65°	6432.5	6528.7	7116.0	8238.8	9564.3	11219.8	10237.4	8706.6	7635.8	6957.5	6882.1
67.5°	5543.6	5616.4	6362.3	7547.5	9899.6	12555.7	10757.2	8145.2	6734.0	5855.5	5902.3
70°	3862.1	3898.5	4628.8	6183.0	8976.9	11848.8	9704.6	6255.8	4649.6	3706.2	3758.1
72.5°	1554.2	1642.6	2123.4	3724.4	6627.4	9002.9	6533.9	3282.5	1928.5	1434.6	1302.1
75°	574.4	577.0	678.3	1281.3	3147.4	5658.0	2947.3	1055.2	616.0	504.2	480.8
77.5°	332.7	330.1	353.5	462.6	912.2	2209.1	836.9	413.2	335.3	301.5	288.5
80°	207.9	205.3	241.7	306.7	400.2	605.6	353.5	257.3	226.1	194.9	194.9
82.5°	132.5	135.1	189.7	226.1	244.3	267.7	205.3	181.9	168.9	111.8	109.2
85°	85.8	78.0	132.5	150.7	135.1	119.6	114.4	96.2	88.4	54.6	59.8
87.5°	39.0	41.6	67.6	75.4	49.4	28.6	28.6	20.8	20.8	13.0	13.0
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)