

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: P479308

Luminaire Tested: **IFLD-M-SA4B-735-U-5MQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479308  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-735-U-5MQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens  
Light Source: (64) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

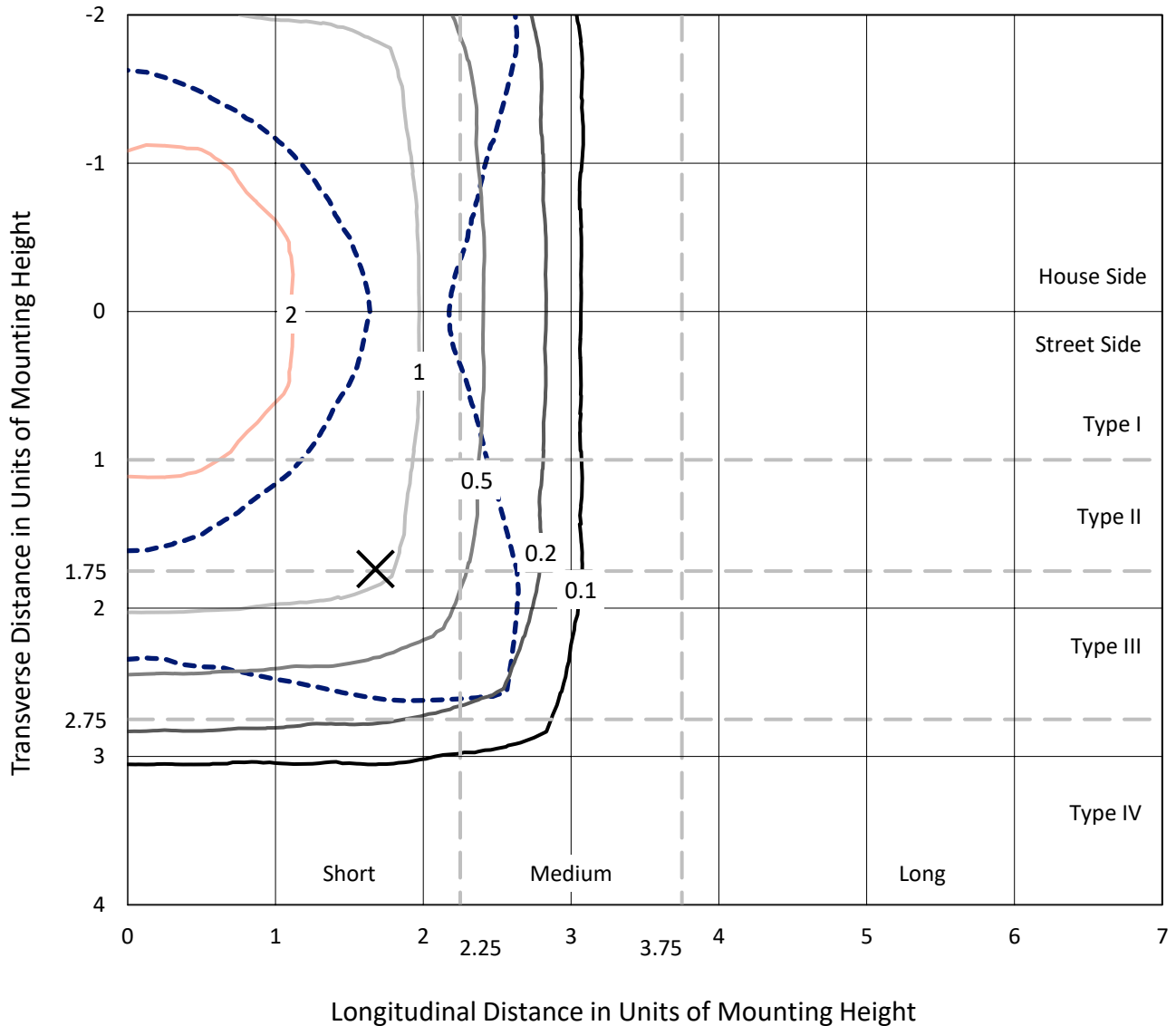
Lumens per Lamp: N/A  
Luminaire Lumens: 22738.5 lumens  
Efficiency: N/A  
Efficacy: 136.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

Input Watts (W): 166.1  
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

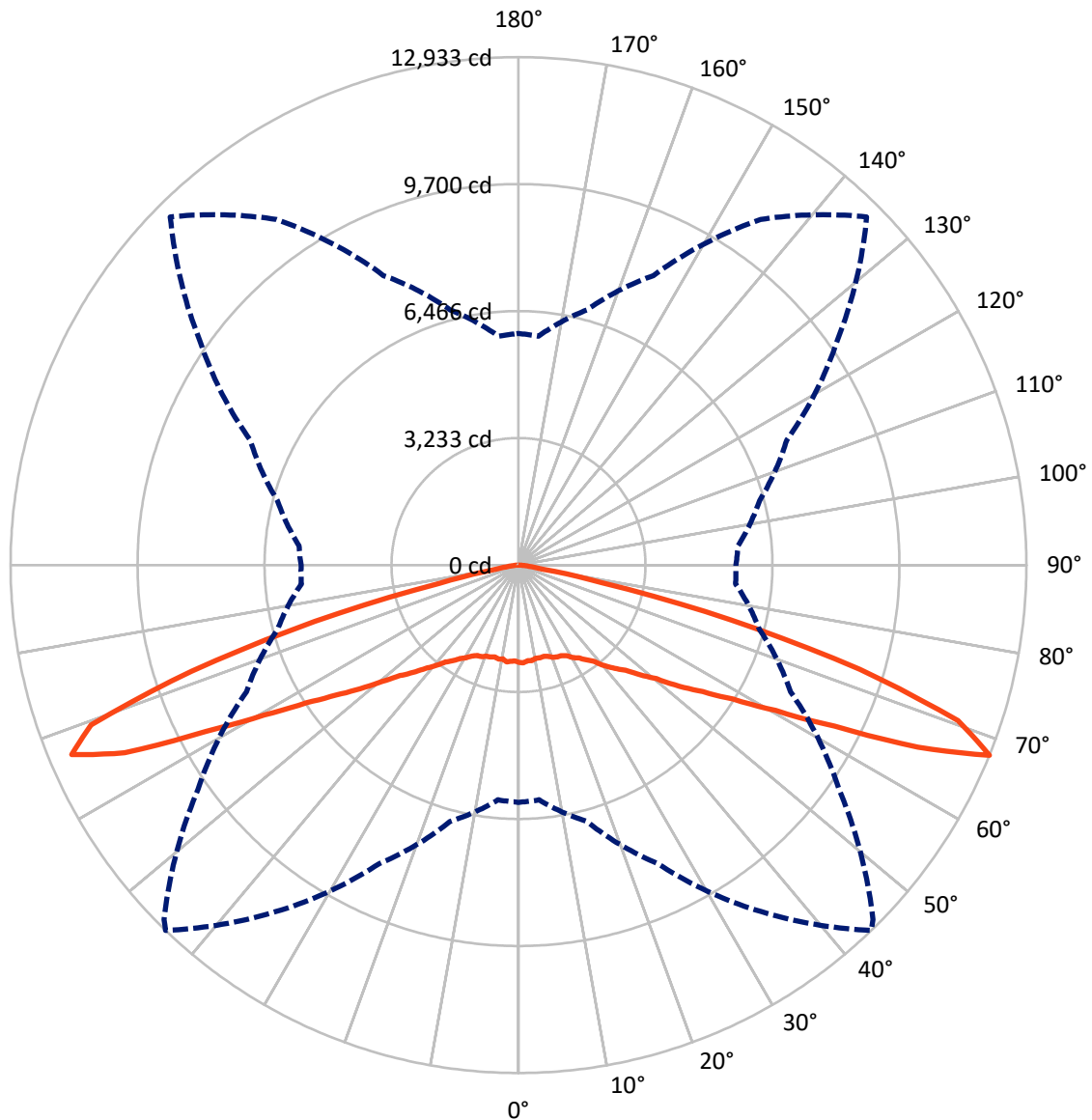
✕ Max cd  
 - - - 1/2 Max cd



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	11340.1	0.0	11340.1
	% Fixture	49.9	0.0	49.9
<b>Street Side</b>	Lumens	11398.4	0.0	11398.4
	% Fixture	50.1	0.0	50.1
<b>Total</b>	Lumens	22738.5	0.0	22738.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	235.0	1.0
10°-20°	686.7	3.0
20°-30°	1167.7	5.1
30°-40°	1851.4	8.1
40°-50°	3019.0	13.3
50°-60°	5156.0	22.7
60°-70°	7842.2	34.5
70°-80°	2643.3	11.6
80°-90°	137.2	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°	22738.5	100.0
0°-180°	22738.5	100.0

**Coefficient of Utilization**



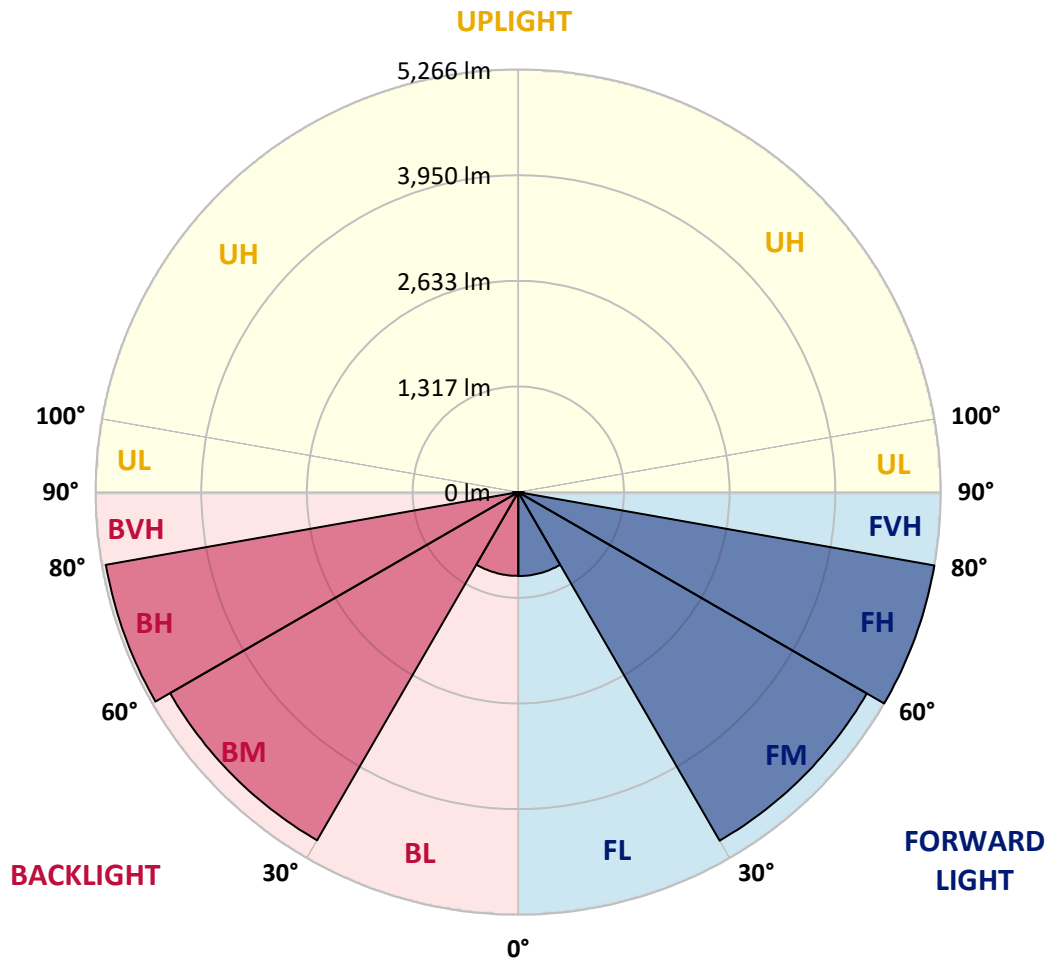
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1045.8	4.6			
FM (30°-60°)	5015.9	22.1			
FH (60°-80°)	5266.5	23.2			G3/7500
FVH (80°-90°)	70.2	0.3			G1/100
BL (0°-30°)	1043.6	4.6	B3/2500		
BM (30°-60°)	5010.5	22.0	B4/8500		
BH (60°-80°)	5219.0	23.0	B5		G3/7500
BVH (80°-90°)	67.0	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°	2483.8	2483.8	2483.8	2483.8	2483.8	2483.8	2483.8	2483.8	2483.8	2483.8	2483.8
2.5°	2426.7	2455.2	2476.0	2473.4	2481.2	2489.0	2478.6	2494.2	2483.8	2502.0	2512.3
5°	2473.4	2465.6	2468.2	2452.6	2489.0	2447.5	2447.5	2468.2	2494.2	2463.0	2481.2
7.5°	2444.9	2439.7	2426.7	2450.0	2457.8	2457.8	2478.6	2439.7	2483.8	2494.2	2496.8
10°	2413.7	2385.2	2424.1	2447.5	2452.6	2411.1	2429.3	2439.7	2426.7	2439.7	2447.5
12.5°	2387.8	2403.3	2403.3	2403.3	2395.5	2424.1	2442.3	2439.7	2413.7	2437.1	2395.5
15°	2385.2	2377.4	2400.7	2421.5	2408.5	2413.7	2421.5	2444.9	2395.5	2405.9	2405.9
17.5°	2382.6	2392.9	2400.7	2398.1	2442.3	2442.3	2434.5	2418.9	2457.8	2437.1	2408.5
20°	2392.9	2385.2	2405.9	2413.7	2444.9	2507.1	2483.8	2470.8	2450.0	2424.1	2424.1
22.5°	2405.9	2400.7	2429.3	2463.0	2522.7	2538.3	2535.7	2520.1	2483.8	2452.6	2447.5
25°	2452.6	2405.9	2437.1	2502.0	2522.7	2553.9	2574.6	2553.9	2504.6	2512.3	2465.6
27.5°	2522.7	2514.9	2556.5	2600.6	2582.4	2611.0	2592.8	2608.4	2611.0	2572.0	2525.3
30°	2605.8	2582.4	2608.4	2694.0	2701.8	2732.9	2701.8	2660.3	2673.3	2639.5	2616.2
32.5°	2725.2	2717.4	2766.7	2823.8	2834.2	2818.6	2803.0	2826.4	2771.9	2745.9	2704.4
35°	2803.0	2836.8	2896.5	2940.6	2974.3	2958.7	2966.5	2943.2	2956.1	2901.6	2883.5
37.5°	3034.0	3021.0	3034.0	3109.3	3117.1	3109.3	3117.1	3143.0	3124.8	3078.1	3031.4
40°	3252.0	3231.3	3262.4	3348.1	3342.9	3368.8	3316.9	3345.5	3345.5	3257.2	3239.0
42.5°	3415.5	3485.6	3521.9	3592.0	3618.0	3594.6	3584.2	3589.4	3646.5	3542.7	3503.8
45°	3752.9	3750.3	3859.3	3898.3	3825.6	3820.4	3799.7	3861.9	3900.9	3841.2	3825.6
47.5°	4118.9	4137.1	4199.3	4214.9	4259.0	4178.6	4178.6	4186.4	4323.9	4183.8	4111.1
50°	4448.5	4471.9	4596.4	4718.4	4635.4	4549.7	4583.5	4625.0	4700.3	4567.9	4505.6
52.5°	4848.2	4975.4	5058.4	5123.3	5183.0	5123.3	5045.4	5092.2	5240.1	5063.6	4985.7
55°	5424.4	5525.6	5603.4	5722.8	5772.1	5691.7	5683.9	5678.7	5761.8	5574.9	5468.5
57.5°	6068.0	6026.5	6151.1	6335.3	6514.4	6436.6	6413.2	6418.4	6439.2	6174.4	6094.0
60°	6867.4	6914.1	7062.1	7223.0	7412.4	7521.4	7368.3	7280.1	7298.2	6937.5	6812.9
62.5°	7324.2	7428.0	7762.8	8315.6	8697.2	9037.1	9060.5	8486.9	8102.8	7402.1	6872.6
65°	7103.6	7088.0	7718.7	8741.3	10186.9	11175.7	11027.8	9636.7	8294.9	7181.4	6470.3
67.5°	6042.1	6000.5	6763.6	8385.7	10773.5	12932.8	12764.1	9961.1	7646.0	6353.5	5548.9
70°	3893.1	3882.7	4710.6	6392.4	9618.5	11873.9	11936.2	9047.5	6223.7	4653.5	3856.7
72.5°	1414.5	1500.1	1980.3	3436.3	6532.6	9083.9	9122.8	6698.7	3579.0	2151.6	1585.8
75°	521.7	537.2	625.5	1116.0	2976.9	5577.5	5722.8	3249.4	1271.7	700.8	571.0
77.5°	301.1	303.7	334.8	415.3	882.4	2177.5	2265.8	986.2	493.1	373.7	345.2
80°	205.0	202.4	236.2	269.9	353.0	617.7	656.6	412.7	311.4	259.5	218.0
82.5°	119.4	127.2	173.9	192.1	215.4	272.5	277.7	256.9	233.6	192.1	142.7
85°	72.7	59.7	96.0	106.4	124.6	122.0	122.0	140.2	150.5	135.0	80.5
87.5°	18.2	18.2	23.4	26.0	33.7	26.0	28.5	54.5	72.7	67.5	41.5
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°	2483.8	2483.8	2483.8	2483.8	2483.8	2483.8	2483.8	2483.8	2483.8	2483.8	2483.8
2.5°	2489.0	2481.2	2486.4	2514.9	2496.8	2442.3	2455.2	2483.8	2460.4	2447.5	2444.9
5°	2478.6	2494.2	2476.0	2481.2	2499.4	2455.2	2463.0	2499.4	2483.8	2489.0	2460.4
7.5°	2481.2	2489.0	2473.4	2450.0	2450.0	2486.4	2465.6	2470.8	2447.5	2486.4	2434.5
10°	2465.6	2444.9	2426.7	2439.7	2434.5	2424.1	2416.3	2431.9	2408.5	2442.3	2405.9
12.5°	2418.9	2424.1	2418.9	2413.7	2424.1	2450.0	2408.5	2413.7	2377.4	2382.6	2400.7
15°	2400.7	2416.3	2411.1	2439.7	2452.6	2413.7	2444.9	2413.7	2385.2	2369.6	2398.1
17.5°	2408.5	2431.9	2424.1	2444.9	2421.5	2450.0	2455.2	2442.3	2408.5	2395.5	2408.5
20°	2416.3	2408.5	2418.9	2455.2	2489.0	2460.4	2460.4	2452.6	2421.5	2403.3	2403.3
22.5°	2434.5	2421.5	2437.1	2465.6	2476.0	2520.1	2481.2	2463.0	2411.1	2364.4	2408.5
25°	2470.8	2478.6	2489.0	2478.6	2535.7	2530.5	2525.3	2512.3	2431.9	2434.5	2426.7
27.5°	2540.9	2496.8	2509.7	2572.0	2579.8	2600.6	2574.6	2598.0	2512.3	2514.9	2463.0
30°	2626.5	2579.8	2621.3	2675.8	2673.3	2712.2	2699.2	2704.4	2644.7	2611.0	2540.9
32.5°	2720.0	2714.8	2740.7	2774.5	2787.4	2808.2	2805.6	2805.6	2769.3	2681.0	2694.0
35°	2823.8	2860.1	2891.3	2927.6	2932.8	2958.7	2922.4	2927.6	2891.3	2826.4	2847.1
37.5°	3028.8	3026.2	3060.0	3104.1	3109.3	3088.5	3117.1	3104.1	3054.8	3010.7	2976.9
40°	3267.6	3215.7	3246.8	3350.6	3358.4	3322.1	3319.5	3316.9	3280.6	3184.5	3163.8
42.5°	3475.2	3542.7	3537.5	3571.3	3547.9	3529.7	3594.6	3558.3	3529.7	3428.5	3410.3
45°	3742.6	3763.3	3830.8	3939.8	3828.2	3828.2	3872.3	3843.8	3828.2	3752.9	3682.9
47.5°	4074.8	4092.9	4227.9	4235.7	4163.0	4113.7	4251.2	4256.4	4191.6	4134.5	4048.8
50°	4464.1	4471.9	4593.8	4718.4	4638.0	4544.5	4684.7	4739.2	4593.8	4516.0	4409.6
52.5°	4892.3	4869.0	4970.2	5203.8	5125.9	5097.3	5247.9	5260.9	5063.6	4941.6	4970.2
55°	5385.4	5354.3	5629.4	5787.7	5738.4	5686.5	5754.0	5785.1	5626.8	5427.0	5497.0
57.5°	6023.9	6039.5	6177.0	6332.8	6413.2	6426.2	6457.3	6426.2	6265.3	6062.8	5997.9
60°	6662.4	6709.1	6976.4	7269.7	7295.6	7524.0	7482.5	7326.8	7098.4	6810.3	6823.3
62.5°	6898.5	6859.6	7290.4	8006.8	8616.7	9034.6	8850.3	8297.5	7768.0	7243.7	7282.7
65°	6423.6	6519.6	7106.2	8227.4	9551.0	11204.3	10223.2	8694.6	7625.3	6947.9	6872.6
67.5°	5536.0	5608.6	6353.5	7537.0	9885.8	12538.3	10742.3	8134.0	6724.7	5847.4	5894.1
70°	3856.7	3893.1	4622.4	6174.4	8964.5	11832.4	9691.2	6247.1	4643.2	3701.0	3752.9
72.5°	1552.0	1640.3	2120.4	3719.2	6618.2	8990.4	6524.8	3278.0	1925.8	1432.7	1300.3
75°	573.6	576.2	677.4	1279.5	3143.0	5650.2	2943.2	1053.7	615.1	503.5	480.1
77.5°	332.2	329.6	353.0	462.0	911.0	2206.1	835.7	412.7	334.8	301.1	288.1
80°	207.6	205.0	241.4	306.3	399.7	604.7	353.0	256.9	225.8	194.7	194.7
82.5°	132.4	135.0	189.5	225.8	244.0	267.3	205.0	181.7	168.7	111.6	109.0
85°	85.6	77.9	132.4	150.5	135.0	119.4	114.2	96.0	88.2	54.5	59.7
87.5°	38.9	41.5	67.5	75.3	49.3	28.5	28.5	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)