

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: P479195

Luminaire Tested: **IFLD-L-SA7A-722-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479195
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-722-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

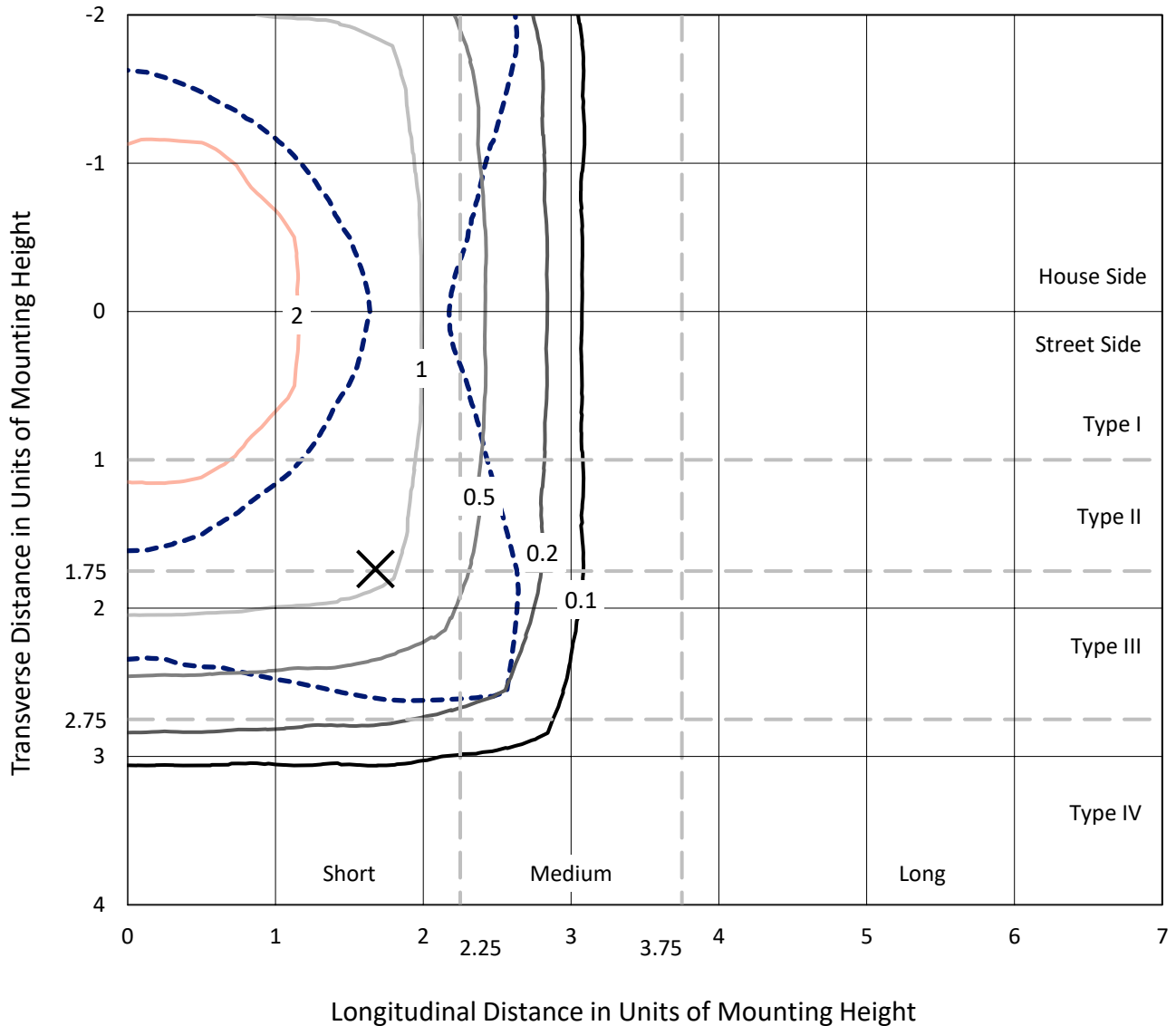
Lumens per Lamp: N/A
Luminaire Lumens: 23272.9 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 217.6
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

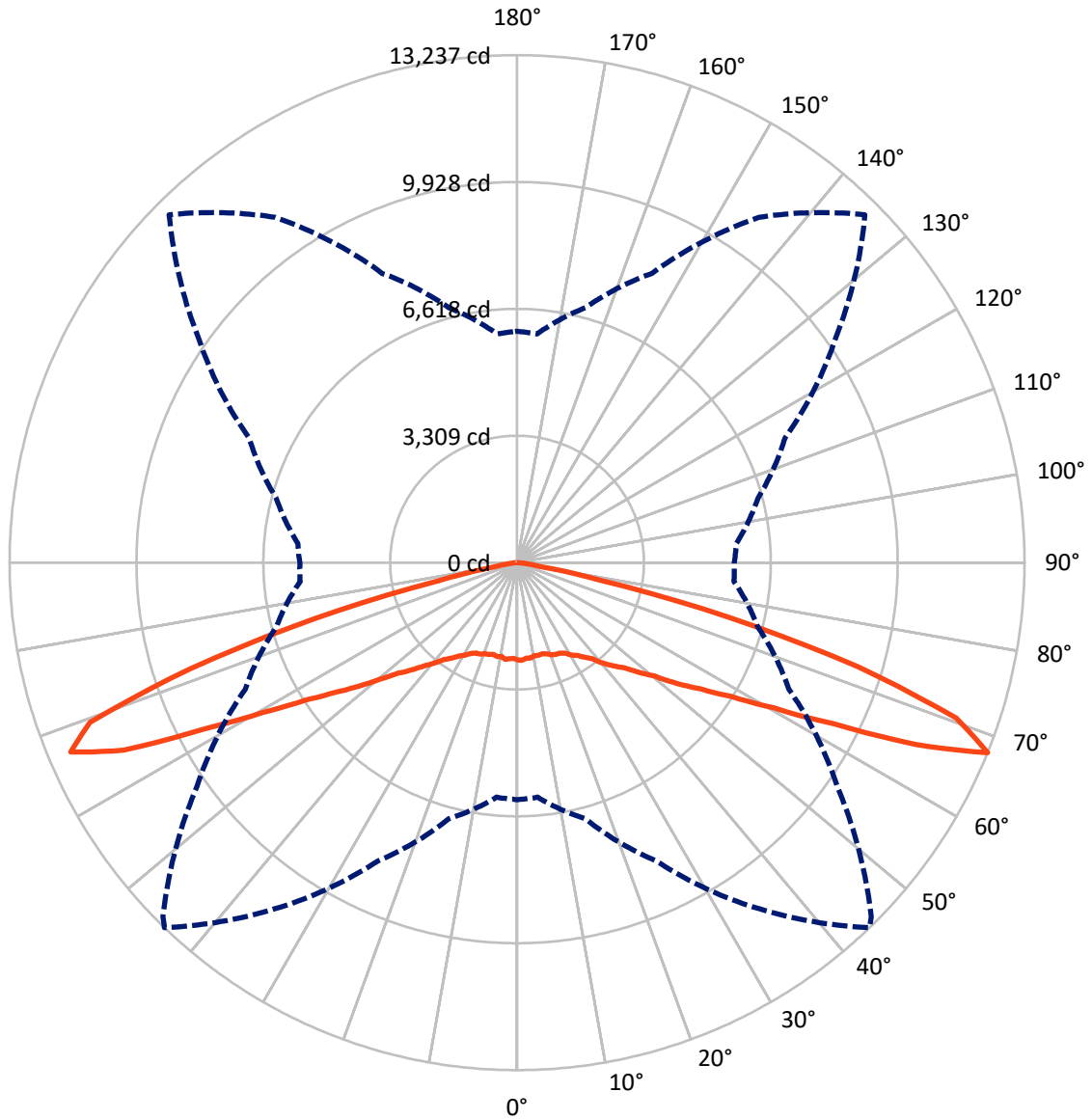
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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
House Side	Lumens	11606.7	0.0	11606.7
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	11666.2	0.0	11666.2
	% Fixture	50.1	0.0	50.1
Total	Lumens	23272.9	0.0	23272.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.6	1.0
10°-20°	702.8	3.0
20°-30°	1195.2	5.1
30°-40°	1895.0	8.1
40°-50°	3089.9	13.3
50°-60°	5277.1	22.7
60°-70°	8026.5	34.5
70°-80°	2705.4	11.6
80°-90°	140.5	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°	23272.9	100.0
0°-180°	23272.9	100.0

Coefficient of Utilization



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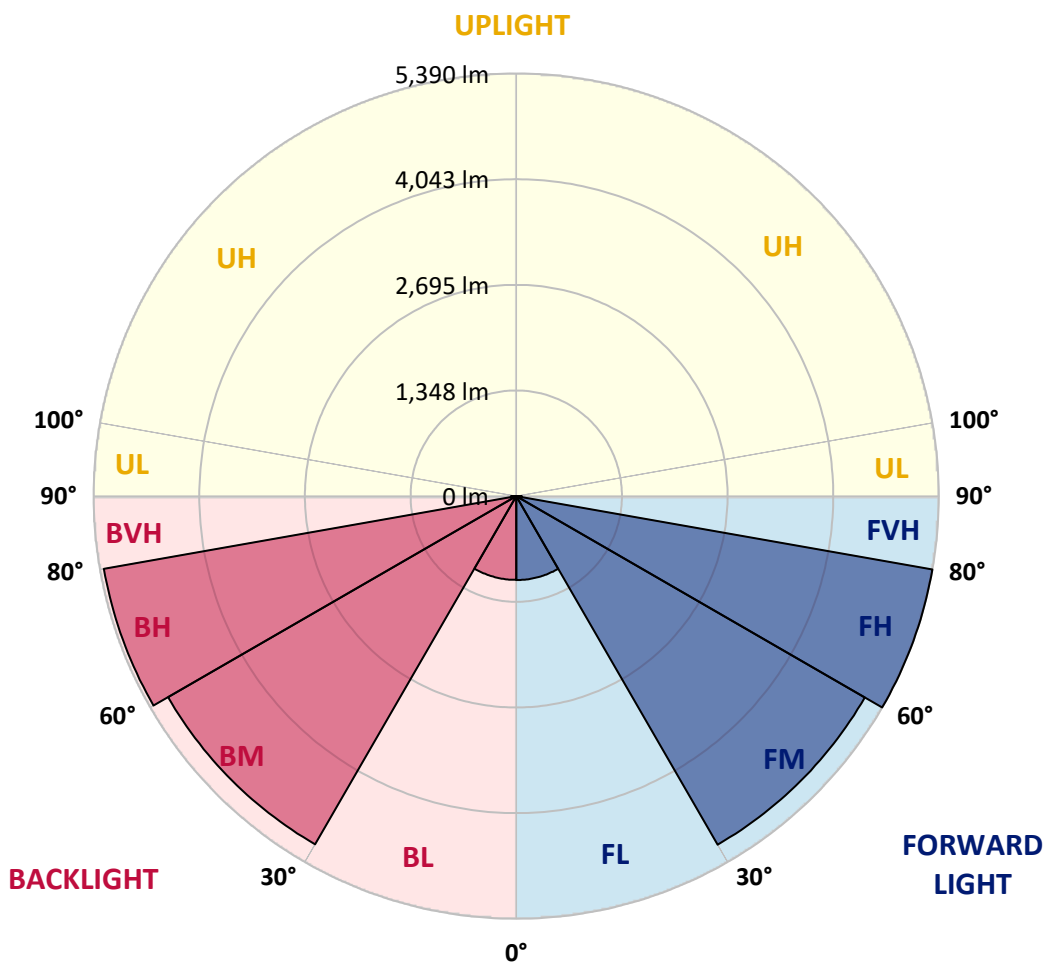
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1070.4	4.6			
FM (30°-60°)	5133.8	22.1			
FH (60°-80°)	5390.3	23.2			G3/7500
FVH (80°-90°)	71.9	0.3			G1/100
BL (0°-30°)	1068.2	4.6	B3/2500		
BM (30°-60°)	5128.2	22.0	B4/8500		
BH (60°-80°)	5341.6	23.0	B5		G3/7500
BVH (80°-90°)	68.6	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°	2542.2	2542.2	2542.2	2542.2	2542.2	2542.2	2542.2	2542.2	2542.2	2542.2	2542.2
2.5°	2483.7	2512.9	2534.2	2531.5	2539.5	2547.5	2536.8	2552.8	2542.2	2560.8	2571.4
5°	2531.5	2523.6	2526.2	2510.3	2547.5	2505.0	2505.0	2526.2	2552.8	2520.9	2539.5
7.5°	2502.3	2497.0	2483.7	2507.6	2515.6	2515.6	2536.8	2497.0	2542.2	2552.8	2555.4
10°	2470.4	2441.2	2481.1	2505.0	2510.3	2467.8	2486.4	2497.0	2483.7	2497.0	2505.0
12.5°	2443.9	2459.8	2459.8	2459.8	2451.8	2481.1	2499.7	2497.0	2470.4	2494.3	2451.8
15°	2441.2	2433.3	2457.2	2478.4	2465.1	2470.4	2478.4	2502.3	2451.8	2462.5	2462.5
17.5°	2438.6	2449.2	2457.2	2454.5	2499.7	2499.7	2491.7	2475.8	2515.6	2494.3	2465.1
20°	2449.2	2441.2	2462.5	2470.4	2502.3	2566.1	2542.2	2528.9	2507.6	2481.1	2481.1
22.5°	2462.5	2457.2	2486.4	2520.9	2582.0	2597.9	2595.3	2579.4	2542.2	2510.3	2505.0
25°	2510.3	2462.5	2494.3	2560.8	2582.0	2613.9	2635.1	2613.9	2563.4	2571.4	2523.6
27.5°	2582.0	2574.0	2616.5	2661.7	2643.1	2672.3	2653.7	2669.7	2672.3	2632.5	2584.7
30°	2667.0	2643.1	2669.7	2757.3	2765.3	2797.2	2765.3	2722.8	2736.1	2701.5	2677.6
32.5°	2789.2	2781.2	2831.7	2890.1	2900.8	2884.8	2868.9	2892.8	2837.0	2810.5	2768.0
35°	2868.9	2903.4	2964.5	3009.7	3044.2	3028.3	3036.3	3012.3	3025.6	2969.8	2951.2
37.5°	3105.3	3092.0	3105.3	3182.4	3190.3	3182.4	3190.3	3216.9	3198.3	3150.5	3102.7
40°	3328.5	3307.2	3339.1	3426.7	3421.4	3448.0	3394.9	3424.1	3424.1	3333.8	3315.2
42.5°	3495.8	3567.5	3604.7	3676.4	3703.0	3679.1	3668.5	3673.8	3732.2	3626.0	3586.1
45°	3841.1	3838.5	3950.0	3989.9	3915.5	3910.2	3889.0	3952.7	3992.5	3931.5	3915.5
47.5°	4215.7	4234.3	4298.0	4314.0	4359.1	4276.8	4276.8	4284.8	4425.5	4282.1	4207.7
50°	4553.0	4577.0	4704.5	4829.3	4744.3	4656.6	4691.2	4733.7	4810.7	4675.2	4611.5
52.5°	4962.1	5092.3	5177.3	5243.7	5304.8	5243.7	5164.0	5211.8	5363.2	5182.6	5102.9
55°	5551.8	5655.4	5735.1	5857.3	5907.8	5825.5	5817.5	5812.2	5897.2	5705.9	5597.0
57.5°	6210.6	6168.1	6295.6	6484.2	6667.5	6587.8	6563.9	6569.2	6590.5	6319.5	6237.2
60°	7028.8	7076.6	7228.0	7392.7	7586.6	7698.2	7541.5	7451.2	7469.8	7100.5	6973.0
62.5°	7496.3	7602.6	7945.3	8511.1	8901.6	9249.5	9273.4	8686.4	8293.2	7576.0	7034.1
65°	7270.5	7254.6	7900.1	8946.7	10426.3	11438.4	11287.0	9863.2	8489.8	7350.2	6622.4
67.5°	6184.1	6141.6	6922.5	8582.8	11026.7	13236.8	13064.1	10195.2	7825.7	6502.8	5679.4
70°	3984.6	3974.0	4821.3	6542.7	9844.6	12153.0	12216.7	9260.2	6370.0	4762.9	3947.4
72.5°	1447.7	1535.4	2026.8	3517.1	6686.1	9297.4	9337.2	6856.1	3663.2	2202.1	1623.1
75°	533.9	549.9	640.2	1142.2	3046.9	5708.6	5857.3	3325.8	1301.6	717.2	584.4
77.5°	308.1	310.8	342.7	425.0	903.2	2228.7	2319.0	1009.4	504.7	382.5	353.3
80°	209.9	207.2	241.7	276.3	361.3	632.2	672.1	422.4	318.8	265.6	223.1
82.5°	122.2	130.2	178.0	196.6	220.5	278.9	284.2	263.0	239.1	196.6	146.1
85°	74.4	61.1	98.3	108.9	127.5	124.9	124.9	143.4	154.1	138.1	82.3
87.5°	18.6	18.6	23.9	26.6	34.5	26.6	29.2	55.8	74.4	69.1	42.5
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°	2542.2	2542.2	2542.2	2542.2	2542.2	2542.2	2542.2	2542.2	2542.2	2542.2	2542.2
2.5°	2547.5	2539.5	2544.8	2574.0	2555.4	2499.7	2512.9	2542.2	2518.3	2505.0	2502.3
5°	2536.8	2552.8	2534.2	2539.5	2558.1	2512.9	2520.9	2558.1	2542.2	2547.5	2518.3
7.5°	2539.5	2547.5	2531.5	2507.6	2507.6	2544.8	2523.6	2528.9	2505.0	2544.8	2491.7
10°	2523.6	2502.3	2483.7	2497.0	2491.7	2481.1	2473.1	2489.0	2465.1	2499.7	2462.5
12.5°	2475.8	2481.1	2475.8	2470.4	2481.1	2507.6	2465.1	2470.4	2433.3	2438.6	2457.2
15°	2457.2	2473.1	2467.8	2497.0	2510.3	2470.4	2502.3	2470.4	2441.2	2425.3	2454.5
17.5°	2465.1	2489.0	2481.1	2502.3	2478.4	2507.6	2512.9	2499.7	2465.1	2451.8	2465.1
20°	2473.1	2465.1	2475.8	2512.9	2547.5	2518.3	2518.3	2510.3	2478.4	2459.8	2459.8
22.5°	2491.7	2478.4	2494.3	2523.6	2534.2	2579.4	2539.5	2520.9	2467.8	2420.0	2465.1
25°	2528.9	2536.8	2547.5	2536.8	2595.3	2590.0	2584.7	2571.4	2489.0	2491.7	2483.7
27.5°	2600.6	2555.4	2568.7	2632.5	2640.4	2661.7	2635.1	2659.0	2571.4	2574.0	2520.9
30°	2688.3	2640.4	2683.0	2738.7	2736.1	2775.9	2762.6	2768.0	2706.9	2672.3	2600.6
32.5°	2783.9	2778.6	2805.1	2839.7	2853.0	2874.2	2871.6	2871.6	2834.4	2744.0	2757.3
35°	2890.1	2927.3	2959.2	2996.4	3001.7	3028.3	2991.1	2996.4	2959.2	2892.8	2914.1
37.5°	3100.0	3097.3	3131.9	3177.0	3182.4	3161.1	3190.3	3177.0	3126.6	3081.4	3046.9
40°	3344.4	3291.3	3323.1	3429.4	3437.4	3400.2	3397.5	3394.9	3357.7	3259.4	3238.1
42.5°	3556.9	3626.0	3620.7	3655.2	3631.3	3612.7	3679.1	3641.9	3612.7	3509.1	3490.5
45°	3830.5	3851.8	3920.8	4032.4	3918.2	3918.2	3963.3	3934.1	3918.2	3841.1	3769.4
47.5°	4170.5	4189.1	4327.3	4335.2	4260.8	4210.4	4351.2	4356.5	4290.1	4231.6	4144.0
50°	4569.0	4577.0	4701.8	4829.3	4747.0	4651.3	4794.8	4850.6	4701.8	4622.1	4513.2
52.5°	5007.3	4983.4	5087.0	5326.1	5246.4	5217.1	5371.2	5384.5	5182.6	5057.8	5087.0
55°	5512.0	5480.1	5761.7	5923.7	5873.3	5820.1	5889.2	5921.1	5759.0	5554.5	5626.2
57.5°	6165.5	6181.4	6322.2	6481.6	6563.9	6577.2	6609.1	6577.2	6412.5	6205.3	6138.9
60°	6818.9	6866.8	7140.4	7440.5	7467.1	7700.9	7658.4	7499.0	7265.2	6970.4	6983.6
62.5°	7060.7	7020.8	7461.8	8195.0	8819.2	9246.9	9058.3	8492.5	7950.6	7414.0	7453.8
65°	6574.6	6672.8	7273.2	8420.7	9775.5	11467.6	10463.5	8898.9	7804.5	7111.1	7034.1
67.5°	5666.1	5740.5	6502.8	7714.1	10118.2	12833.0	10994.8	8325.1	6882.7	5984.8	6032.7
70°	3947.4	3984.6	4731.0	6319.5	9175.2	12110.5	9918.9	6393.9	4752.3	3788.0	3841.1
72.5°	1588.5	1678.8	2170.3	3806.6	6773.8	9201.7	6678.2	3355.0	1971.0	1466.3	1330.8
75°	587.1	589.7	693.3	1309.6	3216.9	5783.0	3012.3	1078.5	629.6	515.3	491.4
77.5°	340.0	337.4	361.3	472.8	932.4	2257.9	855.4	422.4	342.7	308.1	294.9
80°	212.5	209.9	247.0	313.5	409.1	618.9	361.3	263.0	231.1	199.2	199.2
82.5°	135.5	138.1	193.9	231.1	249.7	273.6	209.9	185.9	172.7	114.2	111.6
85°	87.7	79.7	135.5	154.1	138.1	122.2	116.9	98.3	90.3	55.8	61.1
87.5°	39.8	42.5	69.1	77.0	50.5	29.2	29.2	21.3	21.3	13.3	13.3
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)