

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: P479466

Luminaire Tested: **IFLD-M-SA4D-827-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479466
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-827-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (64) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

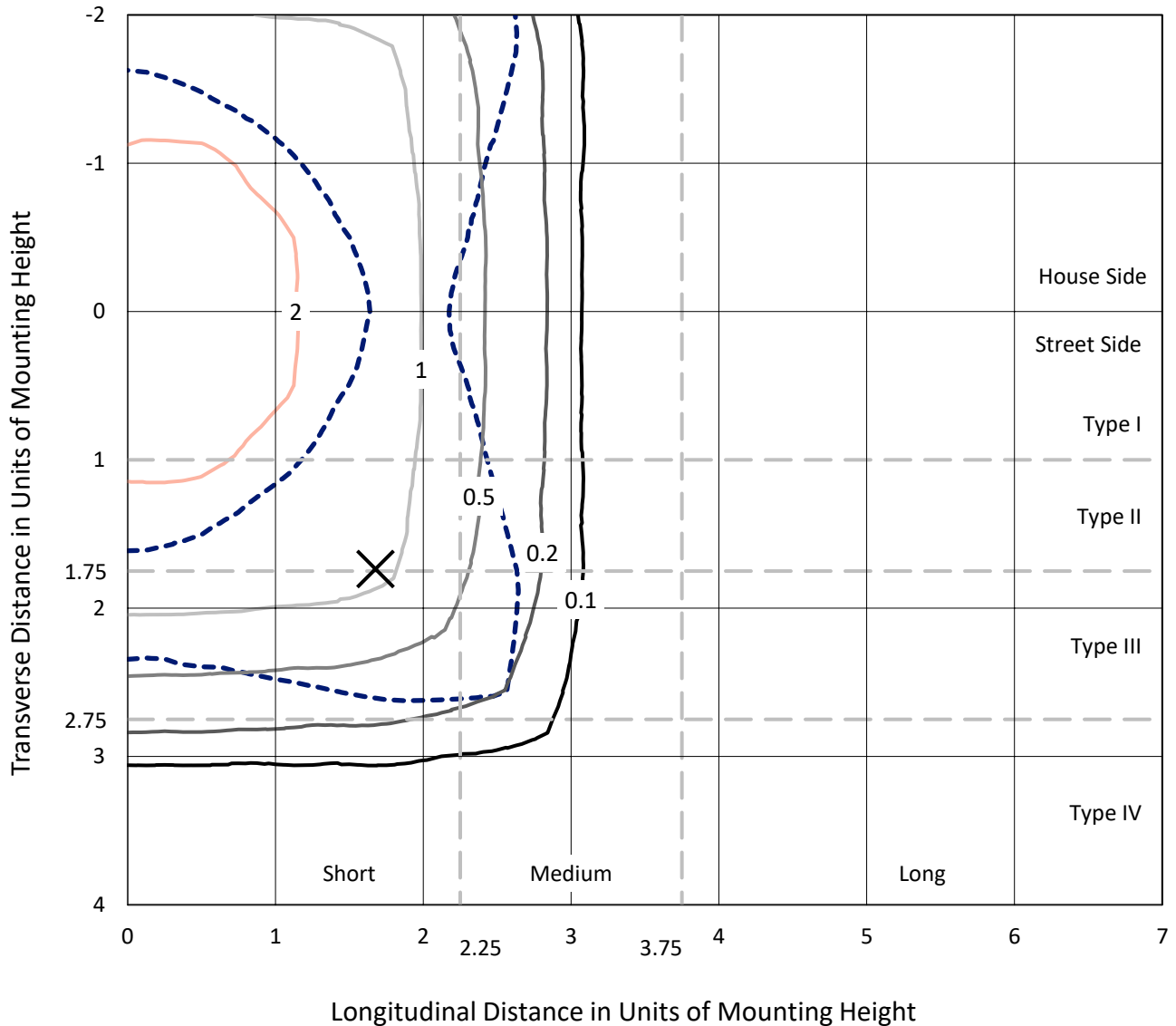
Lumens per Lamp: N/A
Luminaire Lumens: 23213.2 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 249.7
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

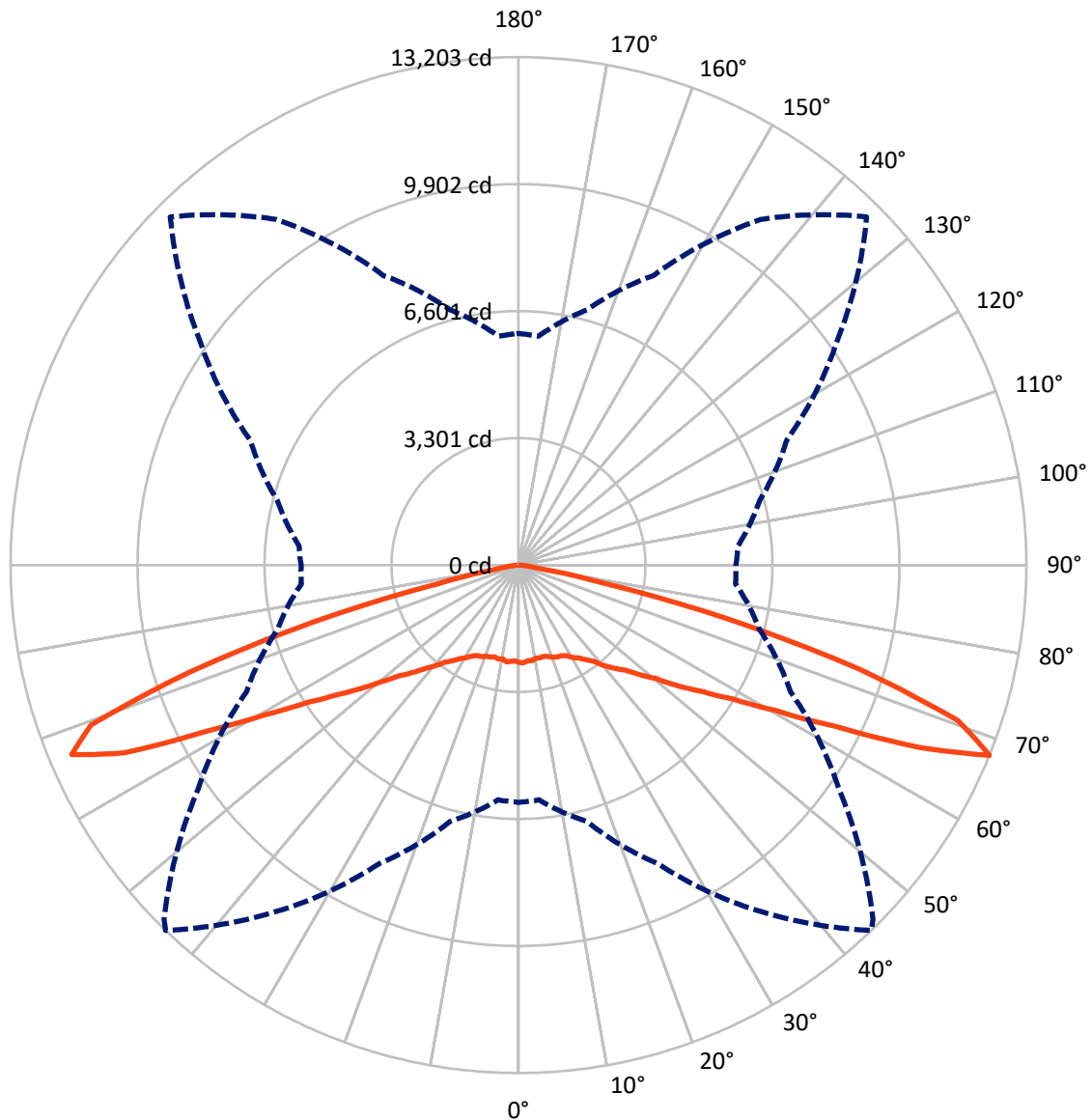
✕ Max cd
 - - - 1/2 Max cd



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	11576.9	0.0	11576.9
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	11636.3	0.0	11636.3
	% Fixture	50.1	0.0	50.1
Total	Lumens	23213.2	0.0	23213.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.9	1.0
10°-20°	701.0	3.0
20°-30°	1192.1	5.1
30°-40°	1890.1	8.1
40°-50°	3082.0	13.3
50°-60°	5263.6	22.7
60°-70°	8005.9	34.5
70°-80°	2698.5	11.6
80°-90°	140.1	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°	23213.2	100.0
0°-180°	23213.2	100.0

Coefficient of Utilization



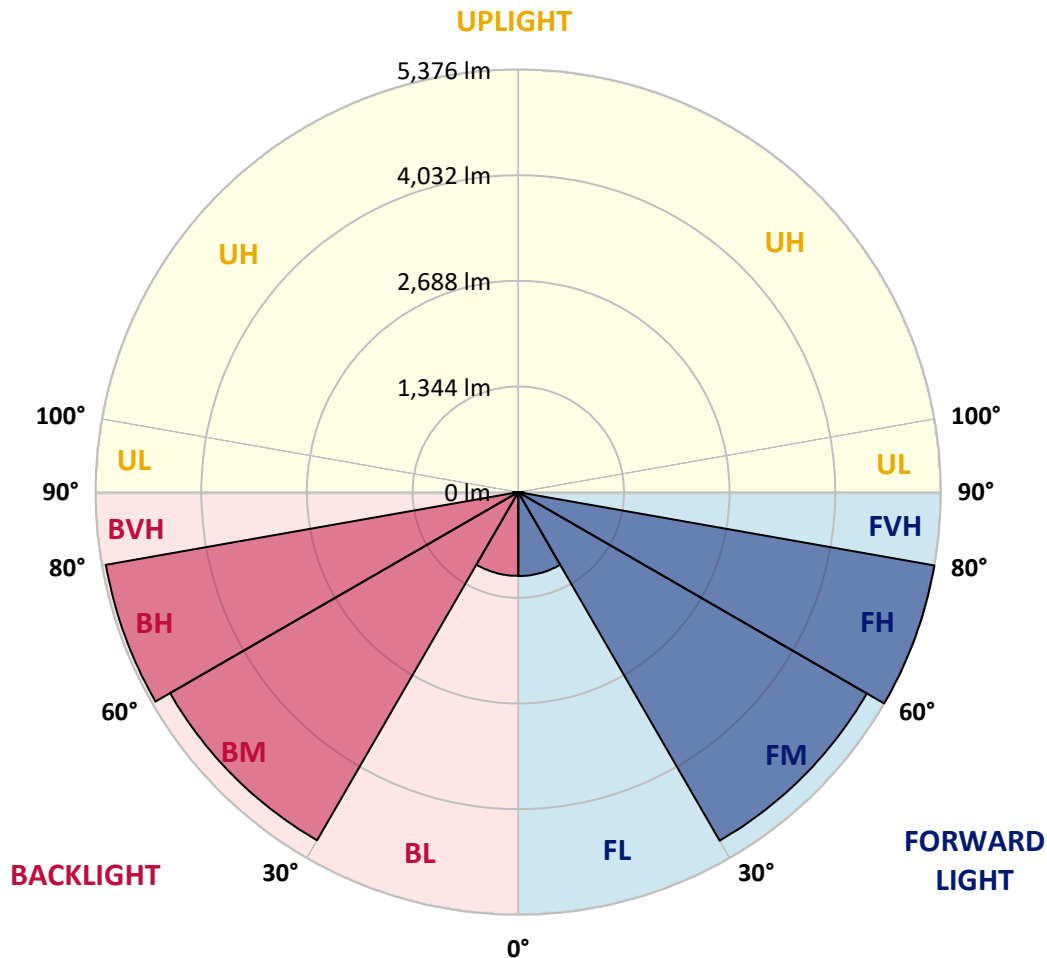
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1067.6	4.6			
FM (30°-60°)	5120.6	22.1			
FH (60°-80°)	5376.4	23.2			G3/7500
FVH (80°-90°)	71.7	0.3			G1/100
BL (0°-30°)	1065.4	4.6	B3/2500		
BM (30°-60°)	5115.1	22.0	B4/8500		
BH (60°-80°)	5327.9	23.0	B5		G3/7500
BVH (80°-90°)	68.4	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°	2535.6	2535.6	2535.6	2535.6	2535.6	2535.6	2535.6	2535.6	2535.6	2535.6	2535.6
2.5°	2477.3	2506.5	2527.7	2525.0	2533.0	2540.9	2530.3	2546.2	2535.6	2554.2	2564.8
5°	2525.0	2517.1	2519.7	2503.8	2540.9	2498.5	2498.5	2519.7	2546.2	2514.4	2533.0
7.5°	2495.9	2490.6	2477.3	2501.2	2509.1	2509.1	2530.3	2490.6	2535.6	2546.2	2548.9
10°	2464.1	2435.0	2474.7	2498.5	2503.8	2461.5	2480.0	2490.6	2477.3	2490.6	2498.5
12.5°	2437.6	2453.5	2453.5	2453.5	2445.6	2474.7	2493.2	2490.6	2464.1	2487.9	2445.6
15°	2435.0	2427.0	2450.9	2472.1	2458.8	2464.1	2472.1	2495.9	2445.6	2456.2	2456.2
17.5°	2432.3	2442.9	2450.9	2448.2	2493.2	2493.2	2485.3	2469.4	2509.1	2487.9	2458.8
20°	2442.9	2435.0	2456.2	2464.1	2495.9	2559.5	2535.6	2522.4	2501.2	2474.7	2474.7
22.5°	2456.2	2450.9	2480.0	2514.4	2575.4	2591.3	2588.6	2572.7	2535.6	2503.8	2498.5
25°	2503.8	2456.2	2487.9	2554.2	2575.4	2607.2	2628.4	2607.2	2556.8	2564.8	2517.1
27.5°	2575.4	2567.4	2609.8	2654.9	2636.3	2665.5	2646.9	2662.8	2665.5	2625.7	2578.0
30°	2660.2	2636.3	2662.8	2750.3	2758.2	2790.0	2758.2	2715.8	2729.1	2694.6	2670.8
32.5°	2782.1	2774.1	2824.4	2882.7	2893.3	2877.4	2861.5	2885.4	2829.7	2803.2	2760.9
35°	2861.5	2896.0	2956.9	3002.0	3036.4	3020.5	3028.5	3004.6	3017.9	2962.2	2943.7
37.5°	3097.3	3084.1	3097.3	3174.2	3182.1	3174.2	3182.1	3208.6	3190.1	3142.4	3094.7
40°	3319.9	3298.7	3330.5	3417.9	3412.6	3439.1	3386.2	3415.3	3415.3	3325.2	3306.7
42.5°	3486.8	3558.4	3595.5	3667.0	3693.5	3669.7	3659.1	3664.4	3722.6	3616.7	3576.9
45°	3831.3	3828.6	3939.9	3979.7	3905.5	3900.2	3879.0	3942.6	3982.3	3921.4	3905.5
47.5°	4204.9	4223.4	4287.0	4302.9	4347.9	4265.8	4265.8	4273.8	4414.2	4271.1	4196.9
50°	4541.4	4565.2	4692.4	4816.9	4732.1	4644.7	4679.1	4721.5	4798.4	4663.2	4599.7
52.5°	4949.4	5079.2	5164.0	5230.3	5291.2	5230.3	5150.8	5198.5	5349.5	5169.3	5089.8
55°	5537.6	5640.9	5720.4	5842.3	5892.6	5810.5	5802.6	5797.3	5882.0	5691.3	5582.6
57.5°	6194.7	6152.3	6279.5	6467.6	6650.4	6570.9	6547.1	6552.4	6573.6	6303.3	6221.2
60°	7010.8	7058.5	7209.5	7373.8	7567.2	7678.5	7522.1	7432.0	7450.6	7082.3	6955.1
62.5°	7477.1	7583.1	7924.9	8489.2	8878.7	9225.8	9249.7	8664.1	8272.0	7556.6	7016.1
65°	7251.9	7236.0	7879.8	8923.8	10399.6	11409.1	11258.0	9837.9	8468.0	7331.4	6605.4
67.5°	6168.2	6125.8	6904.8	8560.8	10998.4	13202.8	13030.6	10169.1	7805.6	6486.2	5664.8
70°	3974.4	3963.8	4809.0	6525.9	9819.3	12121.8	12185.4	9236.4	6353.7	4750.7	3937.3
72.5°	1444.0	1531.5	2021.6	3508.0	6669.0	9273.5	9313.2	6838.5	3653.8	2196.5	1618.9
75°	532.6	548.5	638.5	1139.3	3039.1	5693.9	5842.3	3317.3	1298.3	715.4	582.9
77.5°	307.4	310.0	341.8	423.9	900.9	2223.0	2313.1	1006.8	503.4	381.5	352.4
80°	209.3	206.7	241.1	275.6	360.3	630.6	670.3	421.3	317.9	265.0	222.6
82.5°	121.9	129.8	177.5	196.1	219.9	278.2	283.5	262.3	238.5	196.1	145.7
85°	74.2	60.9	98.0	108.6	127.2	124.5	124.5	143.1	153.7	137.8	82.1
87.5°	18.5	18.5	23.8	26.5	34.4	26.5	29.1	55.6	74.2	68.9	42.4
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°	2535.6	2535.6	2535.6	2535.6	2535.6	2535.6	2535.6	2535.6	2535.6	2535.6	2535.6
2.5°	2540.9	2533.0	2538.3	2567.4	2548.9	2493.2	2506.5	2535.6	2511.8	2498.5	2495.9
5°	2530.3	2546.2	2527.7	2533.0	2551.5	2506.5	2514.4	2551.5	2535.6	2540.9	2511.8
7.5°	2533.0	2540.9	2525.0	2501.2	2501.2	2538.3	2517.1	2522.4	2498.5	2538.3	2485.3
10°	2517.1	2495.9	2477.3	2490.6	2485.3	2474.7	2466.8	2482.6	2458.8	2493.2	2456.2
12.5°	2469.4	2474.7	2469.4	2464.1	2474.7	2501.2	2458.8	2464.1	2427.0	2432.3	2450.9
15°	2450.9	2466.8	2461.5	2490.6	2503.8	2464.1	2495.9	2464.1	2435.0	2419.1	2448.2
17.5°	2458.8	2482.6	2474.7	2495.9	2472.1	2501.2	2506.5	2493.2	2458.8	2445.6	2458.8
20°	2466.8	2458.8	2469.4	2506.5	2540.9	2511.8	2511.8	2503.8	2472.1	2453.5	2453.5
22.5°	2485.3	2472.1	2487.9	2517.1	2527.7	2572.7	2533.0	2514.4	2461.5	2413.8	2458.8
25°	2522.4	2530.3	2540.9	2530.3	2588.6	2583.3	2578.0	2564.8	2482.6	2485.3	2477.3
27.5°	2593.9	2548.9	2562.1	2625.7	2633.7	2654.9	2628.4	2652.2	2564.8	2567.4	2514.4
30°	2681.4	2633.7	2676.1	2731.7	2729.1	2768.8	2755.6	2760.9	2699.9	2665.5	2593.9
32.5°	2776.8	2771.5	2797.9	2832.4	2845.6	2866.8	2864.2	2864.2	2827.1	2737.0	2750.3
35°	2882.7	2919.8	2951.6	2988.7	2994.0	3020.5	2983.4	2988.7	2951.6	2885.4	2906.6
37.5°	3092.1	3089.4	3123.8	3168.9	3174.2	3153.0	3182.1	3168.9	3118.5	3073.5	3039.1
40°	3335.8	3282.8	3314.6	3420.6	3428.5	3391.5	3388.8	3386.2	3349.1	3251.0	3229.8
42.5°	3547.8	3616.7	3611.4	3645.8	3622.0	3603.4	3669.7	3632.6	3603.4	3500.1	3481.5
45°	3820.7	3841.9	3910.8	4022.1	3908.1	3908.1	3953.2	3924.0	3908.1	3831.3	3759.7
47.5°	4159.8	4178.4	4316.2	4324.1	4249.9	4199.6	4340.0	4345.3	4279.1	4220.8	4133.3
50°	4557.3	4565.2	4689.7	4816.9	4734.8	4639.4	4782.5	4838.1	4689.7	4610.3	4501.6
52.5°	4994.4	4970.6	5073.9	5312.4	5232.9	5203.8	5357.4	5370.7	5169.3	5044.8	5073.9
55°	5497.9	5466.1	5746.9	5908.5	5858.2	5805.2	5874.1	5905.9	5744.3	5540.3	5611.8
57.5°	6149.7	6165.6	6306.0	6465.0	6547.1	6560.3	6592.1	6560.3	6396.1	6189.4	6123.2
60°	6801.5	6849.1	7122.0	7421.5	7447.9	7681.1	7638.7	7479.7	7246.6	6952.5	6965.7
62.5°	7042.6	7002.8	7442.6	8173.9	8796.6	9223.2	9035.0	8470.7	7930.2	7395.0	7434.7
65°	6557.7	6655.7	7254.5	8399.1	9750.4	11438.2	10436.7	8876.1	7784.4	7092.9	7016.1
67.5°	5651.5	5725.7	6486.2	7694.4	10092.2	12800.1	10966.6	8303.8	6865.0	5969.5	6017.2
70°	3937.3	3974.4	4718.9	6303.3	9151.6	12079.4	9893.5	6377.5	4740.1	3778.3	3831.3
72.5°	1584.4	1674.5	2164.7	3796.8	6756.4	9178.1	6661.0	3346.4	1966.0	1462.6	1327.4
75°	585.6	588.2	691.5	1306.2	3208.6	5768.1	3004.6	1075.7	627.9	514.0	490.2
77.5°	339.1	336.5	360.3	471.6	930.0	2252.1	853.2	421.3	341.8	307.4	294.1
80°	212.0	209.3	246.4	312.6	408.0	617.4	360.3	262.3	230.5	198.7	198.7
82.5°	135.1	137.8	193.4	230.5	249.1	272.9	209.3	185.5	172.2	113.9	111.3
85°	87.4	79.5	135.1	153.7	137.8	121.9	116.6	98.0	90.1	55.6	60.9
87.5°	39.7	42.4	68.9	76.8	50.3	29.1	29.1	21.2	21.2	13.2	13.2
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)