

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: P479504

Luminaire Tested: **IFLD-M-SA4C-830-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479504
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-830-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

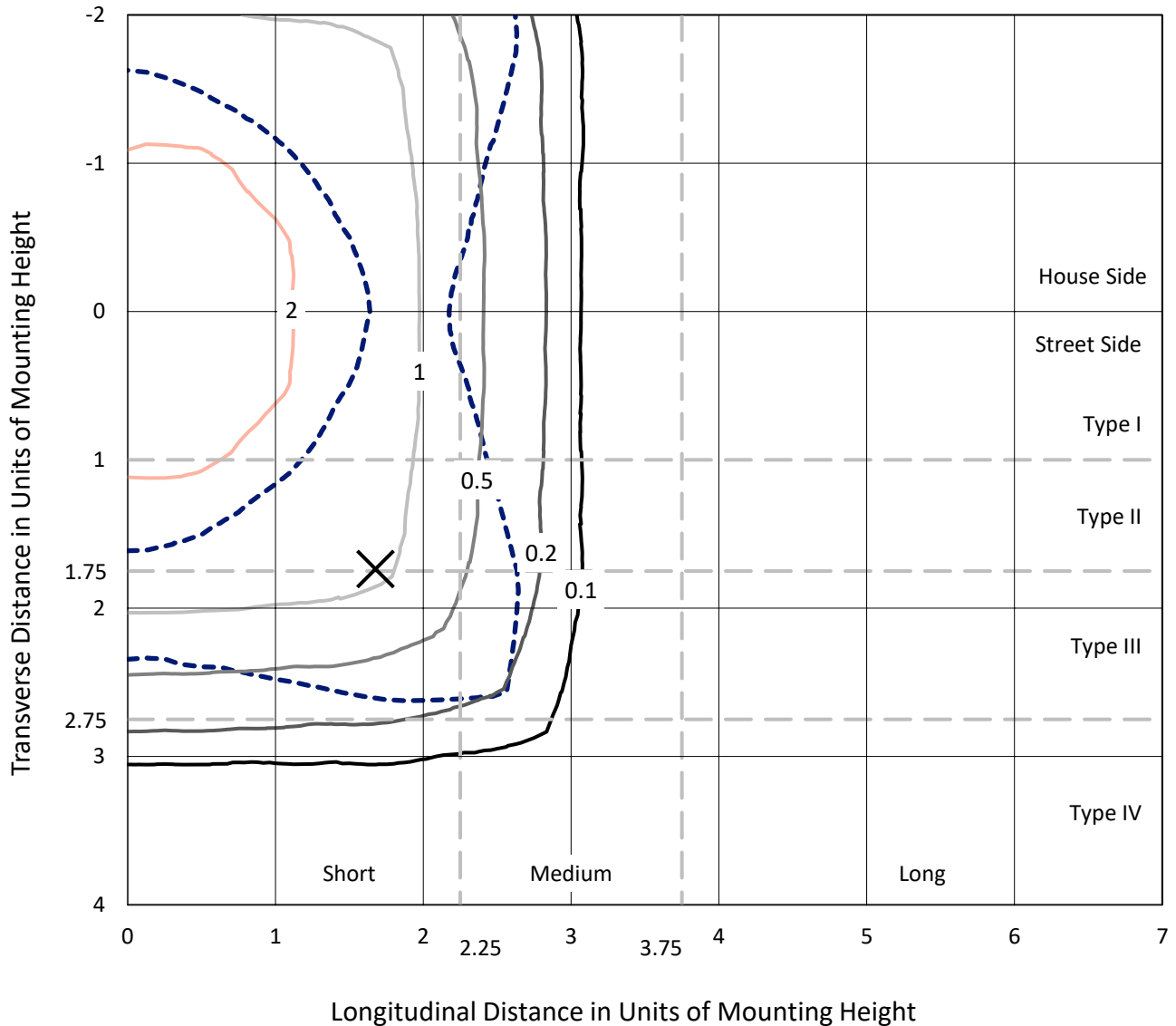
Lumens per Lamp: N/A
Luminaire Lumens: 22804.4 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 218.1
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

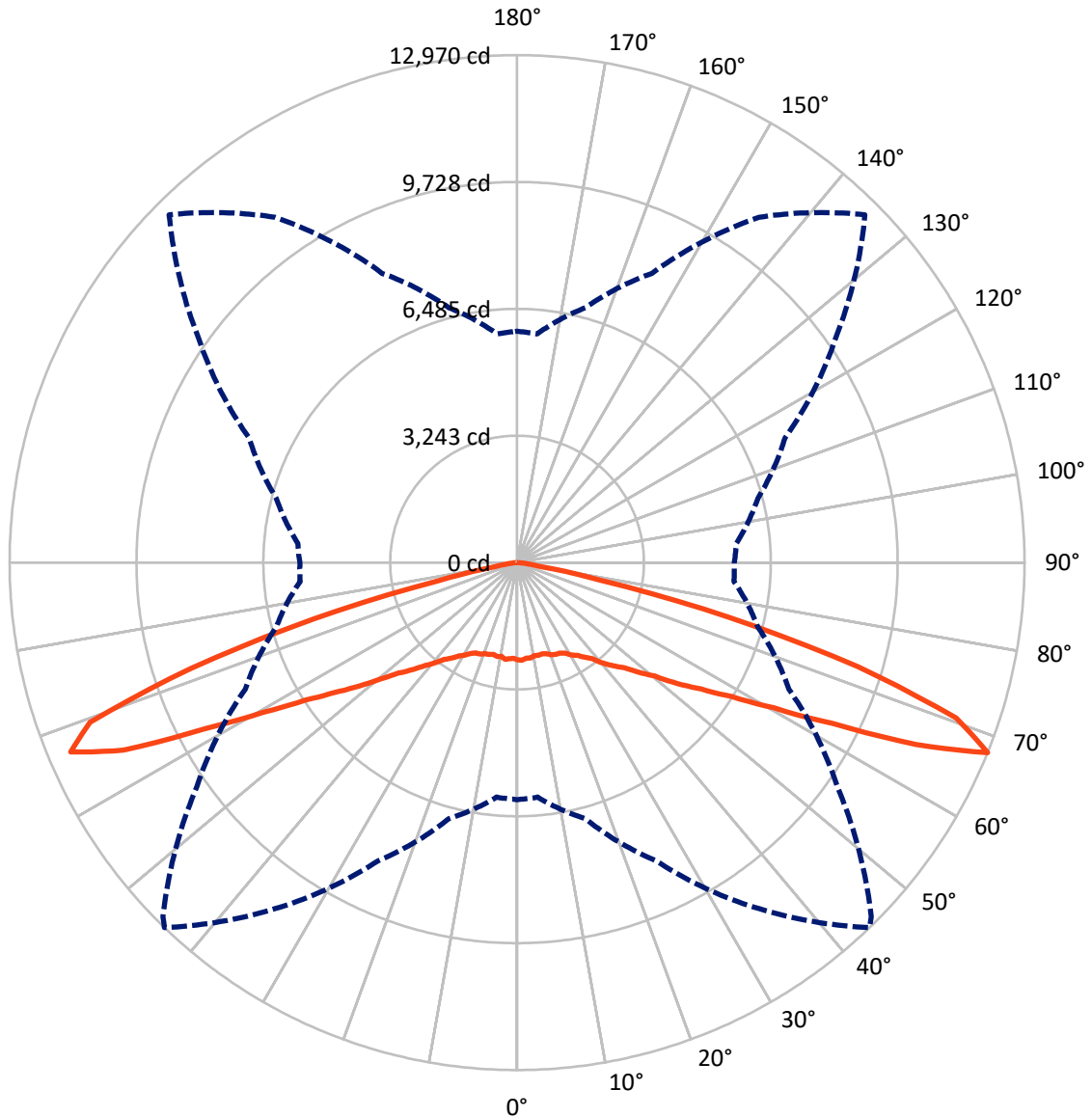
✕ Max cd
 - - - 1/2 Max cd



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
House Side	Lumens	11373.0	0.0	11373.0
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	11431.4	0.0	11431.4
	% Fixture	50.1	0.0	50.1
Total	Lumens	22804.4	0.0	22804.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.7	1.0
10°-20°	688.7	3.0
20°-30°	1171.1	5.1
30°-40°	1856.8	8.1
40°-50°	3027.7	13.3
50°-60°	5170.9	22.7
60°-70°	7864.9	34.5
70°-80°	2651.0	11.6
80°-90°	137.6	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°	22804.4	100.0
0°-180°	22804.4	100.0

Coefficient of Utilization



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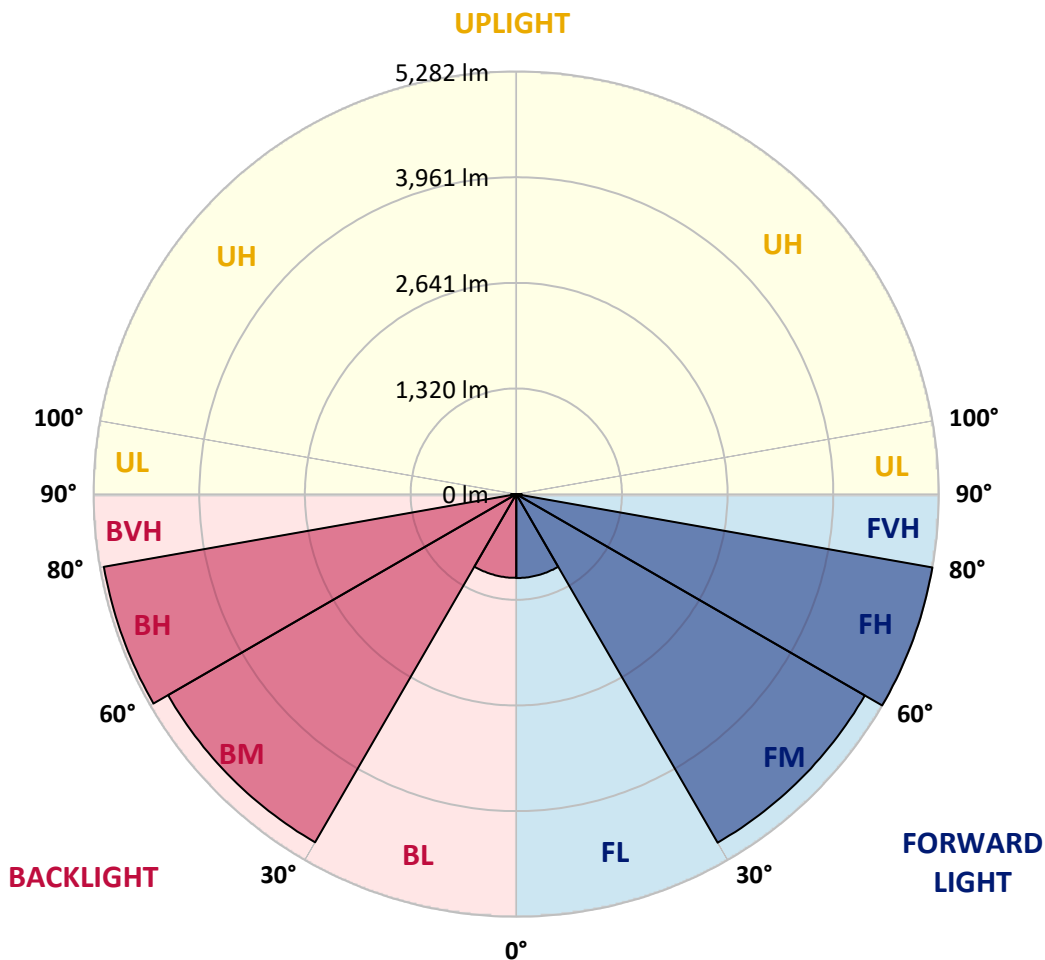
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1048.8	4.6			
FM (30°-60°)	5030.4	22.1			
FH (60°-80°)	5281.7	23.2			G3/7500
FVH (80°-90°)	70.4	0.3			G1/100
BL (0°-30°)	1046.7	4.6	B3/2500		
BM (30°-60°)	5025.0	22.0	B4/8500		
BH (60°-80°)	5234.1	23.0	B5		G3/7500
BVH (80°-90°)	67.2	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°	2491.0	2491.0	2491.0	2491.0	2491.0	2491.0	2491.0	2491.0	2491.0	2491.0	2491.0
2.5°	2433.7	2462.4	2483.2	2480.6	2488.4	2496.2	2485.8	2501.4	2491.0	2509.2	2519.6
5°	2480.6	2472.8	2475.4	2459.7	2496.2	2454.5	2454.5	2475.4	2501.4	2470.2	2488.4
7.5°	2451.9	2446.7	2433.7	2457.1	2465.0	2465.0	2485.8	2446.7	2491.0	2501.4	2504.0
10°	2420.7	2392.1	2431.1	2454.5	2459.7	2418.1	2436.3	2446.7	2433.7	2446.7	2454.5
12.5°	2394.7	2410.3	2410.3	2410.3	2402.5	2431.1	2449.3	2446.7	2420.7	2444.1	2402.5
15°	2392.1	2384.3	2407.7	2428.5	2415.5	2420.7	2428.5	2451.9	2402.5	2412.9	2412.9
17.5°	2389.5	2399.9	2407.7	2405.1	2449.3	2449.3	2441.5	2425.9	2465.0	2444.1	2415.5
20°	2399.9	2392.1	2412.9	2420.7	2451.9	2514.4	2491.0	2478.0	2457.1	2431.1	2431.1
22.5°	2412.9	2407.7	2436.3	2470.2	2530.0	2545.6	2543.0	2527.4	2491.0	2459.7	2454.5
25°	2459.7	2412.9	2444.1	2509.2	2530.0	2561.3	2582.1	2561.3	2511.8	2519.6	2472.8
27.5°	2530.0	2522.2	2563.9	2608.1	2589.9	2618.5	2600.3	2615.9	2618.5	2579.5	2532.6
30°	2613.3	2589.9	2615.9	2701.8	2709.6	2740.9	2709.6	2668.0	2681.0	2647.2	2623.7
32.5°	2733.1	2725.2	2774.7	2832.0	2842.4	2826.8	2811.1	2834.6	2779.9	2753.9	2712.2
35°	2811.1	2845.0	2904.8	2949.1	2982.9	2967.3	2975.1	2951.7	2964.7	2910.1	2891.8
37.5°	3042.8	3029.8	3042.8	3118.3	3126.1	3118.3	3126.1	3152.1	3133.9	3087.1	3040.2
40°	3261.4	3240.6	3271.9	3357.8	3352.5	3378.6	3326.5	3355.2	3355.2	3266.7	3248.4
42.5°	3425.4	3495.7	3532.1	3602.4	3628.5	3605.0	3594.6	3599.8	3657.1	3553.0	3513.9
45°	3763.8	3761.2	3870.5	3909.6	3836.7	3831.5	3810.7	3873.1	3912.2	3852.3	3836.7
47.5°	4130.8	4149.0	4211.5	4227.1	4271.4	4190.7	4190.7	4198.5	4336.4	4195.9	4123.0
50°	4461.4	4484.8	4609.8	4732.1	4648.8	4562.9	4596.7	4638.4	4713.9	4581.1	4518.7
52.5°	4862.2	4989.8	5073.1	5138.1	5198.0	5138.1	5060.1	5106.9	5255.3	5078.3	5000.2
55°	5440.1	5541.6	5619.7	5739.4	5788.9	5708.2	5700.4	5695.2	5778.5	5591.1	5484.3
57.5°	6085.6	6044.0	6168.9	6353.7	6533.3	6455.2	6431.8	6437.0	6457.8	6192.3	6111.6
60°	6887.3	6934.2	7082.5	7243.9	7433.9	7543.2	7389.7	7301.2	7319.4	6957.6	6832.6
62.5°	7345.4	7449.5	7785.3	8339.7	8722.4	9063.3	9086.8	8511.5	8126.3	7423.5	6892.5
65°	7124.2	7108.5	7741.1	8766.6	10216.4	11208.1	11059.8	9664.6	8318.9	7202.3	6489.1
67.5°	6059.6	6017.9	6783.2	8410.0	10804.7	12970.3	12801.1	9990.0	7668.2	6371.9	5565.0
70°	3904.4	3894.0	4724.3	6411.0	9646.4	11908.3	11970.8	9073.7	6241.8	4667.0	3867.9
72.5°	1418.6	1504.5	1986.0	3446.3	6551.5	9110.2	9149.2	6718.1	3589.4	2157.8	1590.4
75°	523.2	538.8	627.3	1119.3	2985.5	5593.7	5739.4	3258.8	1275.4	702.8	572.6
77.5°	301.9	304.5	335.8	416.5	885.0	2183.8	2272.3	989.1	494.6	374.8	346.2
80°	205.6	203.0	236.9	270.7	354.0	619.5	658.5	413.9	312.3	260.3	218.6
82.5°	119.7	127.5	174.4	192.6	216.0	273.3	278.5	257.7	234.3	192.6	143.2
85°	72.9	59.9	96.3	106.7	124.9	122.3	122.3	140.6	151.0	135.4	80.7
87.5°	18.2	18.2	23.4	26.0	33.8	26.0	28.6	54.7	72.9	67.7	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°	2491.0	2491.0	2491.0	2491.0	2491.0	2491.0	2491.0	2491.0	2491.0	2491.0	2491.0
2.5°	2496.2	2488.4	2493.6	2522.2	2504.0	2449.3	2462.4	2491.0	2467.6	2454.5	2451.9
5°	2485.8	2501.4	2483.2	2488.4	2506.6	2462.4	2470.2	2506.6	2491.0	2496.2	2467.6
7.5°	2488.4	2496.2	2480.6	2457.1	2457.1	2493.6	2472.8	2478.0	2454.5	2493.6	2441.5
10°	2472.8	2451.9	2433.7	2446.7	2441.5	2431.1	2423.3	2438.9	2415.5	2449.3	2412.9
12.5°	2425.9	2431.1	2425.9	2420.7	2431.1	2457.1	2415.5	2420.7	2384.3	2389.5	2407.7
15°	2407.7	2423.3	2418.1	2446.7	2459.7	2420.7	2451.9	2420.7	2392.1	2376.5	2405.1
17.5°	2415.5	2438.9	2431.1	2451.9	2428.5	2457.1	2462.4	2449.3	2415.5	2402.5	2415.5
20°	2423.3	2415.5	2425.9	2462.4	2496.2	2467.6	2467.6	2459.7	2428.5	2410.3	2410.3
22.5°	2441.5	2428.5	2444.1	2472.8	2483.2	2527.4	2488.4	2470.2	2418.1	2371.3	2415.5
25°	2478.0	2485.8	2496.2	2485.8	2543.0	2537.8	2532.6	2519.6	2438.9	2441.5	2433.7
27.5°	2548.2	2504.0	2517.0	2579.5	2587.3	2608.1	2582.1	2605.5	2519.6	2522.2	2470.2
30°	2634.1	2587.3	2628.9	2683.6	2681.0	2720.0	2707.0	2712.2	2652.4	2618.5	2548.2
32.5°	2727.8	2722.6	2748.7	2782.5	2795.5	2816.3	2813.7	2813.7	2777.3	2688.8	2701.8
35°	2832.0	2868.4	2899.6	2936.1	2941.3	2967.3	2930.9	2936.1	2899.6	2834.6	2855.4
37.5°	3037.6	3035.0	3068.8	3113.1	3118.3	3097.5	3126.1	3113.1	3063.6	3019.4	2985.5
40°	3277.1	3225.0	3256.2	3360.4	3368.2	3331.7	3329.1	3326.5	3290.1	3193.8	3172.9
42.5°	3485.3	3553.0	3547.8	3581.6	3558.2	3540.0	3605.0	3568.6	3540.0	3438.4	3420.2
45°	3753.4	3774.2	3841.9	3951.2	3839.3	3839.3	3883.5	3854.9	3839.3	3763.8	3693.5
47.5°	4086.6	4104.8	4240.1	4247.9	4175.1	4125.6	4263.6	4268.8	4203.7	4146.4	4060.5
50°	4477.0	4484.8	4607.2	4732.1	4651.4	4557.7	4698.3	4752.9	4607.2	4529.1	4422.3
52.5°	4906.5	4883.1	4984.6	5218.8	5140.7	5112.1	5263.1	5276.1	5078.3	4955.9	4984.6
55°	5401.0	5369.8	5645.7	5804.5	5755.0	5703.0	5770.7	5801.9	5643.1	5442.7	5513.0
57.5°	6041.4	6057.0	6194.9	6351.1	6431.8	6444.8	6476.0	6444.8	6283.4	6080.4	6015.3
60°	6681.7	6728.5	6996.6	7290.8	7316.8	7545.8	7504.2	7348.0	7119.0	6830.0	6843.0
62.5°	6918.5	6879.5	7311.6	8030.0	8641.7	9060.7	8875.9	8321.5	7790.5	7264.7	7303.8
65°	6442.2	6538.5	7126.8	8251.2	9578.7	11236.8	10252.9	8719.7	7647.3	6968.0	6892.5
67.5°	5552.0	5624.9	6371.9	7558.9	9914.5	12574.7	10773.4	8157.5	6744.1	5864.4	5911.2
70°	3867.9	3904.4	4635.8	6192.3	8990.5	11866.7	9719.3	6265.2	4656.6	3711.7	3763.8
72.5°	1556.5	1645.0	2126.6	3730.0	6637.4	9016.5	6543.7	3287.5	1931.4	1436.8	1304.1
75°	575.2	577.8	679.4	1283.2	3152.1	5666.5	2951.7	1056.8	616.9	505.0	481.5
77.5°	333.2	330.6	354.0	463.3	913.6	2212.5	838.1	413.9	335.8	301.9	288.9
80°	208.2	205.6	242.1	307.1	400.8	606.5	354.0	257.7	226.5	195.2	195.2
82.5°	132.7	135.4	190.0	226.5	244.7	268.1	205.6	182.2	169.2	111.9	109.3
85°	85.9	78.1	132.7	151.0	135.4	119.7	114.5	96.3	88.5	54.7	59.9
87.5°	39.0	41.6	67.7	75.5	49.5	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)