

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: P479347

Luminaire Tested: **IFLD-M-SA4B-740-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479347
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-740-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (64) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

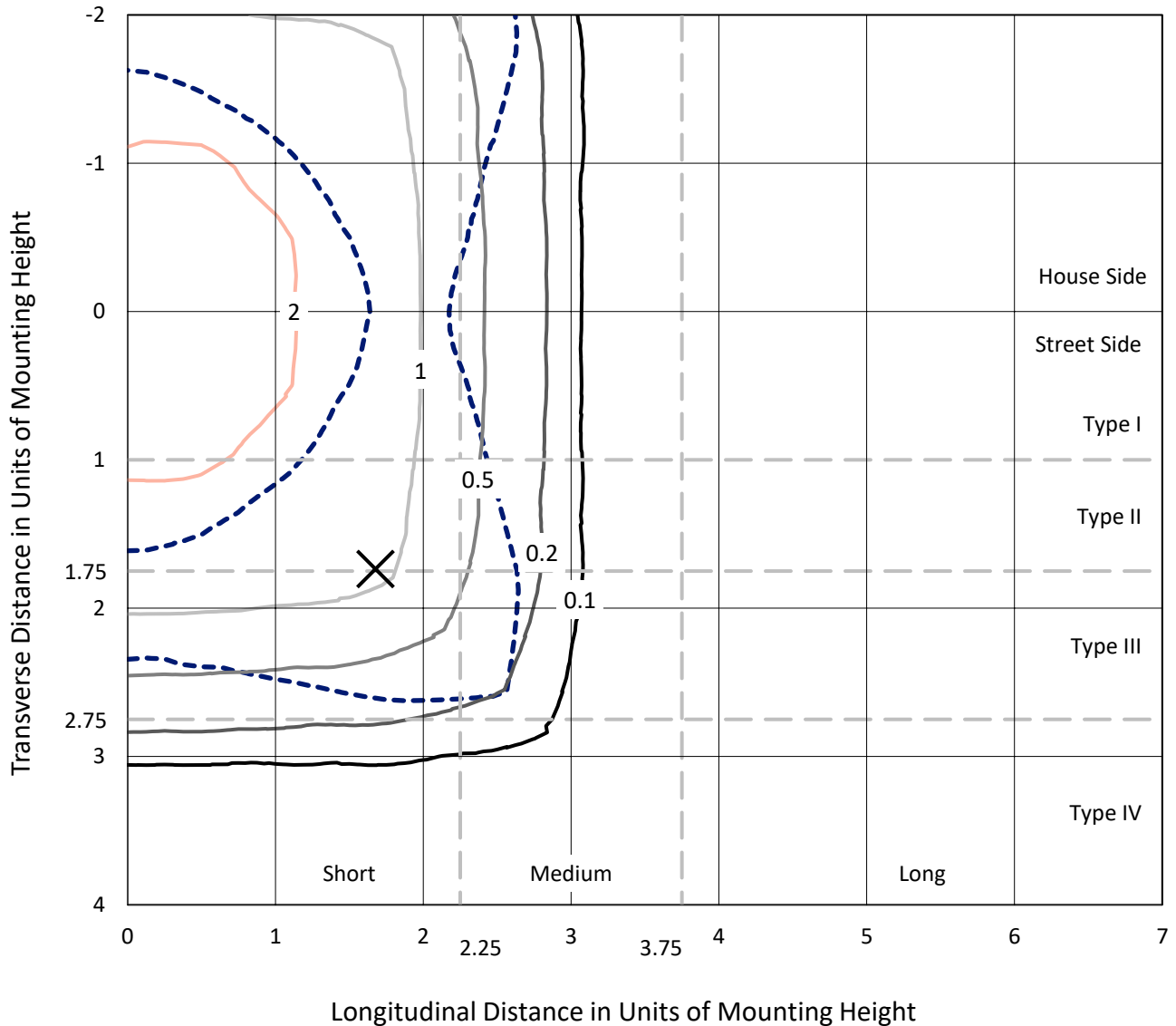
Lumens per Lamp: N/A
Luminaire Lumens: 23054.3 lumens
Efficiency: N/A
Efficacy: 138.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

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

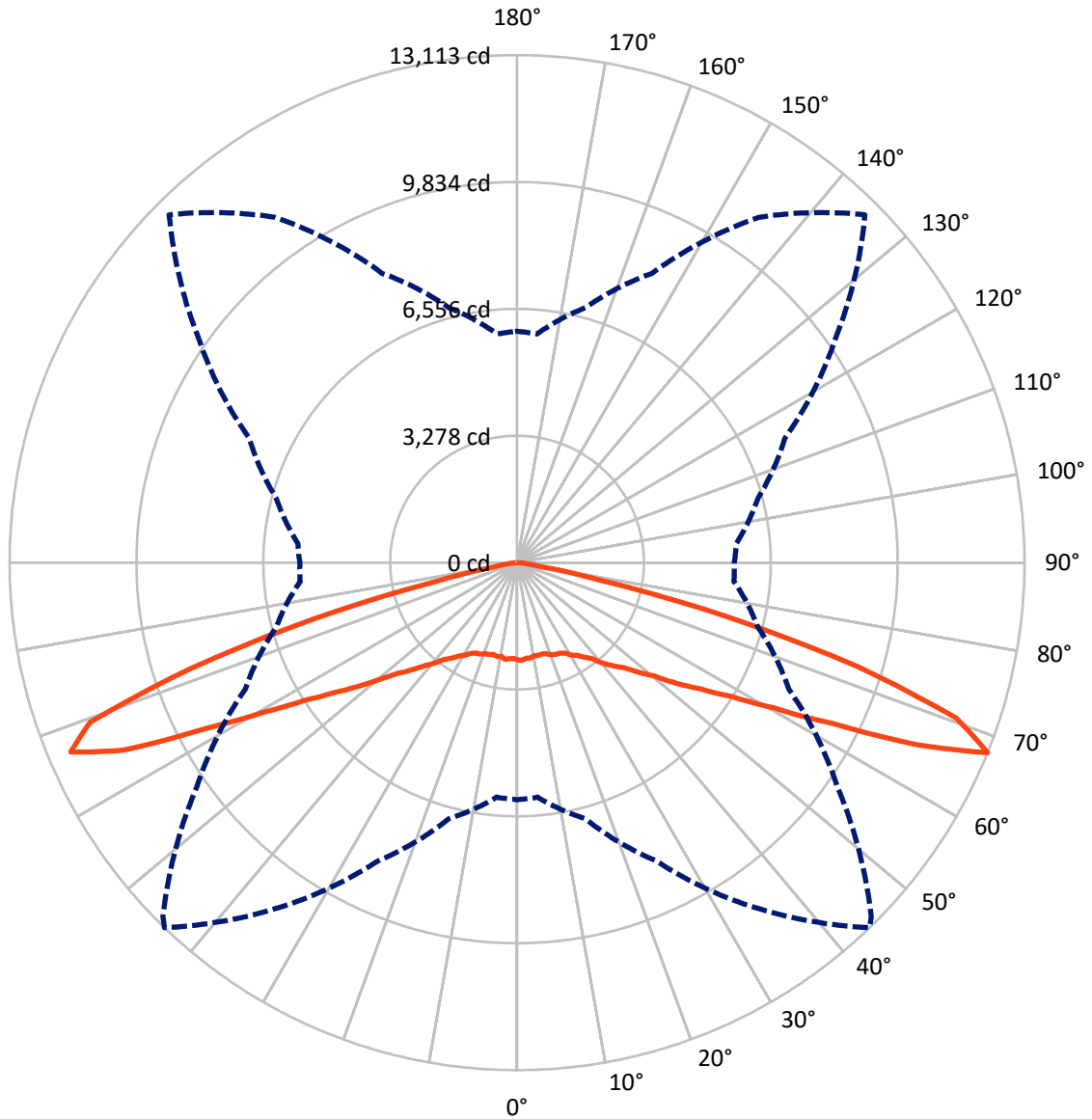
× Max cd
 - - - 1/2 Max cd



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
House Side	Lumens	11497.6	0.0	11497.6
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	11556.7	0.0	11556.7
	% Fixture	50.1	0.0	50.1
Total	Lumens	23054.3	0.0	23054.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.3	1.0
10°-20°	696.2	3.0
20°-30°	1183.9	5.1
30°-40°	1877.2	8.1
40°-50°	3060.9	13.3
50°-60°	5227.6	22.7
60°-70°	7951.1	34.5
70°-80°	2680.0	11.6
80°-90°	139.1	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°	23054.3	100.0
0°-180°	23054.3	100.0

Coefficient of Utilization



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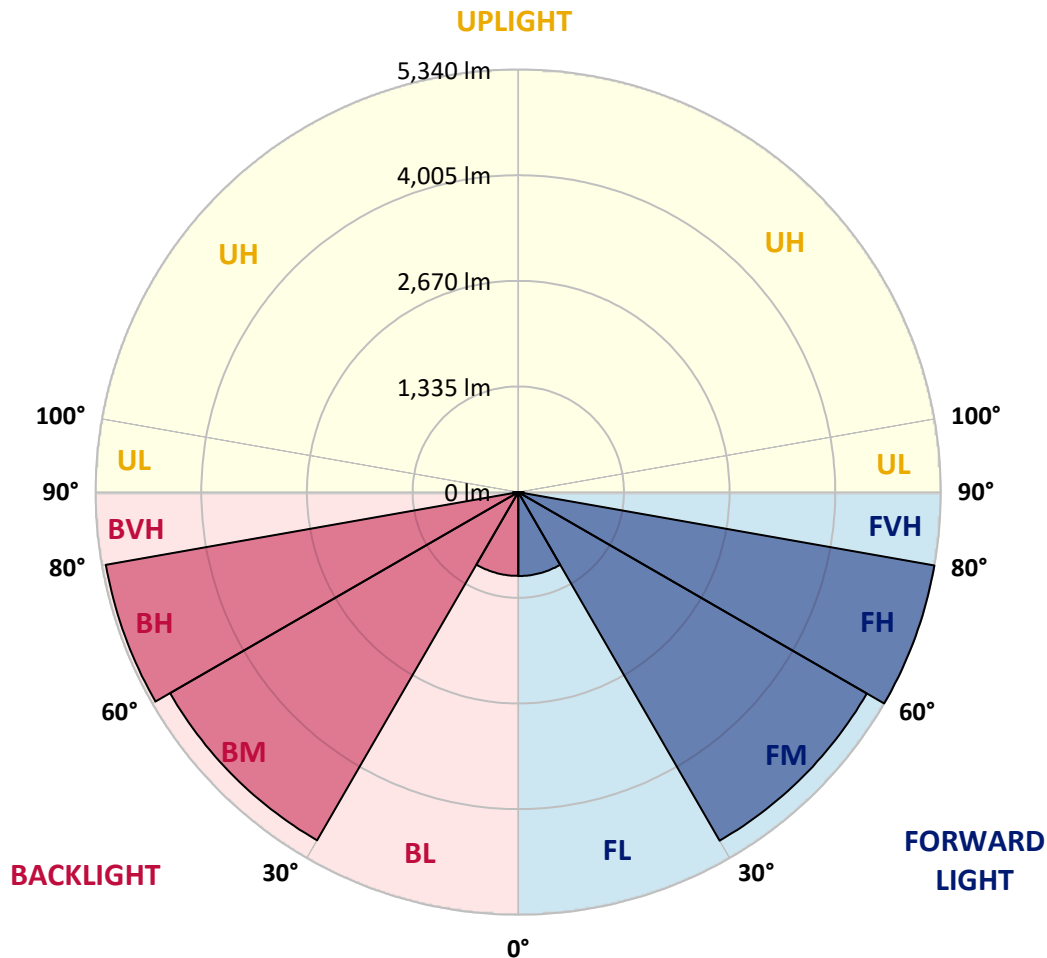
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1060.3	4.6			
FM (30°-60°)	5085.6	22.1			
FH (60°-80°)	5339.6	23.2			G3/7500
FVH (80°-90°)	71.2	0.3			G1/100
BL (0°-30°)	1058.1	4.6	B3/2500		
BM (30°-60°)	5080.1	22.0	B4/8500		
BH (60°-80°)	5291.5	23.0	B5		G3/7500
BVH (80°-90°)	68.0	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°	2518.3	2518.3	2518.3	2518.3	2518.3	2518.3	2518.3	2518.3	2518.3	2518.3	2518.3
2.5°	2460.4	2489.3	2510.4	2507.8	2515.7	2523.6	2513.0	2528.8	2518.3	2536.7	2547.2
5°	2507.8	2499.9	2502.5	2486.7	2523.6	2481.4	2481.4	2502.5	2528.8	2497.2	2515.7
7.5°	2478.8	2473.6	2460.4	2484.1	2492.0	2492.0	2513.0	2473.6	2518.3	2528.8	2531.4
10°	2447.2	2418.3	2457.8	2481.4	2486.7	2444.6	2463.0	2473.6	2460.4	2473.6	2481.4
12.5°	2420.9	2436.7	2436.7	2436.7	2428.8	2457.8	2476.2	2473.6	2447.2	2470.9	2428.8
15°	2418.3	2410.4	2434.1	2455.1	2442.0	2447.2	2455.1	2478.8	2428.8	2439.3	2439.3
17.5°	2415.7	2426.2	2434.1	2431.5	2476.2	2476.2	2468.3	2452.5	2492.0	2470.9	2442.0
20°	2426.2	2418.3	2439.3	2447.2	2478.8	2542.0	2518.3	2505.1	2484.1	2457.8	2457.8
22.5°	2439.3	2434.1	2463.0	2497.2	2557.8	2573.5	2570.9	2555.1	2518.3	2486.7	2481.4
25°	2486.7	2439.3	2470.9	2536.7	2557.8	2589.3	2610.4	2589.3	2539.3	2547.2	2499.9
27.5°	2557.8	2549.9	2592.0	2636.7	2618.3	2647.2	2628.8	2644.6	2647.2	2607.8	2560.4
30°	2642.0	2618.3	2644.6	2731.4	2739.3	2770.9	2739.3	2697.2	2710.4	2676.2	2652.5
32.5°	2763.0	2755.1	2805.1	2863.0	2873.5	2857.7	2842.0	2865.6	2810.4	2784.1	2742.0
35°	2842.0	2876.2	2936.7	2981.4	3015.6	2999.8	3007.7	2984.1	2997.2	2942.0	2923.5
37.5°	3076.2	3063.0	3076.2	3152.5	3160.4	3152.5	3160.4	3186.7	3168.3	3120.9	3073.5
40°	3297.2	3276.1	3307.7	3394.6	3389.3	3415.6	3363.0	3391.9	3391.9	3302.5	3284.0
42.5°	3463.0	3534.0	3570.9	3641.9	3668.2	3644.5	3634.0	3639.3	3697.2	3591.9	3552.4
45°	3805.1	3802.4	3913.0	3952.4	3878.7	3873.5	3852.4	3915.6	3955.1	3894.5	3878.7
47.5°	4176.1	4194.5	4257.7	4273.5	4318.2	4236.6	4236.6	4244.5	4384.0	4241.9	4168.2
50°	4510.3	4534.0	4660.3	4784.0	4699.8	4612.9	4647.1	4689.2	4765.5	4631.3	4568.2
52.5°	4915.5	5044.5	5128.7	5194.5	5255.0	5194.5	5115.5	5162.9	5312.9	5133.9	5055.0
55°	5499.7	5602.3	5681.3	5802.3	5852.3	5770.7	5762.9	5757.6	5841.8	5652.3	5544.4
57.5°	6152.3	6110.2	6236.5	6423.3	6604.9	6526.0	6502.3	6507.6	6528.6	6260.2	6178.6
60°	6962.8	7010.2	7160.1	7323.3	7515.4	7625.9	7470.7	7381.2	7399.6	7033.8	6907.5
62.5°	7425.9	7531.2	7870.6	8431.1	8818.0	9162.7	9186.4	8604.8	8215.4	7504.9	6968.1
65°	7202.3	7186.5	7825.9	8862.7	10328.4	11331.0	11181.0	9770.5	8410.1	7281.2	6560.2
67.5°	6126.0	6083.9	6857.5	8502.2	10923.1	13112.5	12941.4	10099.5	7752.2	6441.8	5626.0
70°	3947.2	3936.6	4776.1	6481.2	9752.1	12038.8	12102.0	9173.2	6310.2	4718.2	3910.3
72.5°	1434.1	1521.0	2007.8	3484.0	6623.3	9210.0	9249.5	6791.7	3628.8	2181.5	1607.8
75°	528.9	544.7	634.2	1131.5	3018.3	5655.0	5802.3	3294.6	1289.4	710.5	578.9
77.5°	305.2	307.9	339.5	421.0	894.7	2207.8	2297.2	999.9	500.0	378.9	350.0
80°	207.9	205.3	239.5	273.7	357.9	626.3	665.8	418.4	315.8	263.1	221.0
82.5°	121.0	128.9	176.3	194.7	218.4	276.3	281.6	260.5	236.8	194.7	144.7
85°	73.7	60.5	97.4	107.9	126.3	123.7	123.7	142.1	152.6	136.8	81.6
87.5°	18.4	18.4	23.7	26.3	34.2	26.3	28.9	55.3	73.7	68.4	42.1
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°	2518.3	2518.3	2518.3	2518.3	2518.3	2518.3	2518.3	2518.3	2518.3	2518.3	2518.3
2.5°	2523.6	2515.7	2520.9	2549.9	2531.4	2476.2	2489.3	2518.3	2494.6	2481.4	2478.8
5°	2513.0	2528.8	2510.4	2515.7	2534.1	2489.3	2497.2	2534.1	2518.3	2523.6	2494.6
7.5°	2515.7	2523.6	2507.8	2484.1	2484.1	2520.9	2499.9	2505.1	2481.4	2520.9	2468.3
10°	2499.9	2478.8	2460.4	2473.6	2468.3	2457.8	2449.9	2465.7	2442.0	2476.2	2439.3
12.5°	2452.5	2457.8	2452.5	2447.2	2457.8	2484.1	2442.0	2447.2	2410.4	2415.7	2434.1
15°	2434.1	2449.9	2444.6	2473.6	2486.7	2447.2	2478.8	2447.2	2418.3	2402.5	2431.5
17.5°	2442.0	2465.7	2457.8	2478.8	2455.1	2484.1	2489.3	2476.2	2442.0	2428.8	2442.0
20°	2449.9	2442.0	2452.5	2489.3	2523.6	2494.6	2494.6	2486.7	2455.1	2436.7	2436.7
22.5°	2468.3	2455.1	2470.9	2499.9	2510.4	2555.1	2515.7	2497.2	2444.6	2397.2	2442.0
25°	2505.1	2513.0	2523.6	2513.0	2570.9	2565.7	2560.4	2547.2	2465.7	2468.3	2460.4
27.5°	2576.2	2531.4	2544.6	2607.8	2615.7	2636.7	2610.4	2634.1	2547.2	2549.9	2497.2
30°	2663.0	2615.7	2657.8	2713.0	2710.4	2749.9	2736.7	2742.0	2681.4	2647.2	2576.2
32.5°	2757.7	2752.5	2778.8	2813.0	2826.2	2847.2	2844.6	2844.6	2807.7	2718.3	2731.4
35°	2863.0	2899.8	2931.4	2968.3	2973.5	2999.8	2963.0	2968.3	2931.4	2865.6	2886.7
37.5°	3070.9	3068.3	3102.5	3147.2	3152.5	3131.4	3160.4	3147.2	3097.2	3052.5	3018.3
40°	3313.0	3260.4	3291.9	3397.2	3405.1	3368.2	3365.6	3363.0	3326.1	3228.8	3207.7
42.5°	3523.5	3591.9	3586.7	3620.9	3597.2	3578.8	3644.5	3607.7	3578.8	3476.1	3457.7
45°	3794.5	3815.6	3884.0	3994.5	3881.4	3881.4	3926.1	3897.2	3881.4	3805.1	3734.0
47.5°	4131.4	4149.8	4286.6	4294.5	4220.8	4170.8	4310.3	4315.6	4249.8	4191.9	4105.0
50°	4526.1	4534.0	4657.6	4784.0	4702.4	4607.7	4749.7	4805.0	4657.6	4578.7	4470.8
52.5°	4960.3	4936.6	5039.2	5276.0	5197.1	5168.1	5320.8	5333.9	5133.9	5010.3	5039.2
55°	5460.2	5428.7	5707.6	5868.1	5818.1	5765.5	5833.9	5865.5	5705.0	5502.3	5573.4
57.5°	6107.6	6123.4	6262.8	6420.7	6502.3	6515.4	6547.0	6515.4	6352.3	6147.0	6081.3
60°	6754.9	6802.3	7073.3	7370.7	7397.0	7628.5	7586.4	7428.6	7197.0	6904.9	6918.1
62.5°	6994.4	6954.9	7391.7	8118.0	8736.4	9160.0	8973.2	8412.7	7875.9	7344.4	7383.8
65°	6512.8	6610.2	7204.9	8341.7	9683.7	11359.9	10365.2	8815.3	7731.2	7044.4	6968.1
67.5°	5612.9	5686.5	6441.8	7641.7	10023.2	12712.5	10891.5	8246.9	6818.1	5928.6	5976.0
70°	3910.3	3947.2	4686.6	6260.2	9089.0	11996.7	9825.8	6333.9	4707.6	3752.4	3805.1
72.5°	1573.6	1663.1	2149.9	3770.9	6710.2	9115.3	6615.4	3323.5	1952.5	1452.6	1318.4
75°	581.5	584.2	686.8	1297.3	3186.7	5728.6	2984.1	1068.4	623.7	510.5	486.8
77.5°	336.8	334.2	357.9	468.4	923.6	2236.7	847.3	418.4	339.5	305.2	292.1
80°	210.5	207.9	244.7	310.5	405.2	613.1	357.9	260.5	228.9	197.4	197.4
82.5°	134.2	136.8	192.1	228.9	247.4	271.0	207.9	184.2	171.0	113.2	110.5
85°	86.8	78.9	134.2	152.6	136.8	121.0	115.8	97.4	89.5	55.3	60.5
87.5°	39.5	42.1	68.4	76.3	50.0	28.9	28.9	21.1	21.1	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)