

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: P479507

Luminaire Tested: **IFLD-L-SA7A-830-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479507
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-830-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

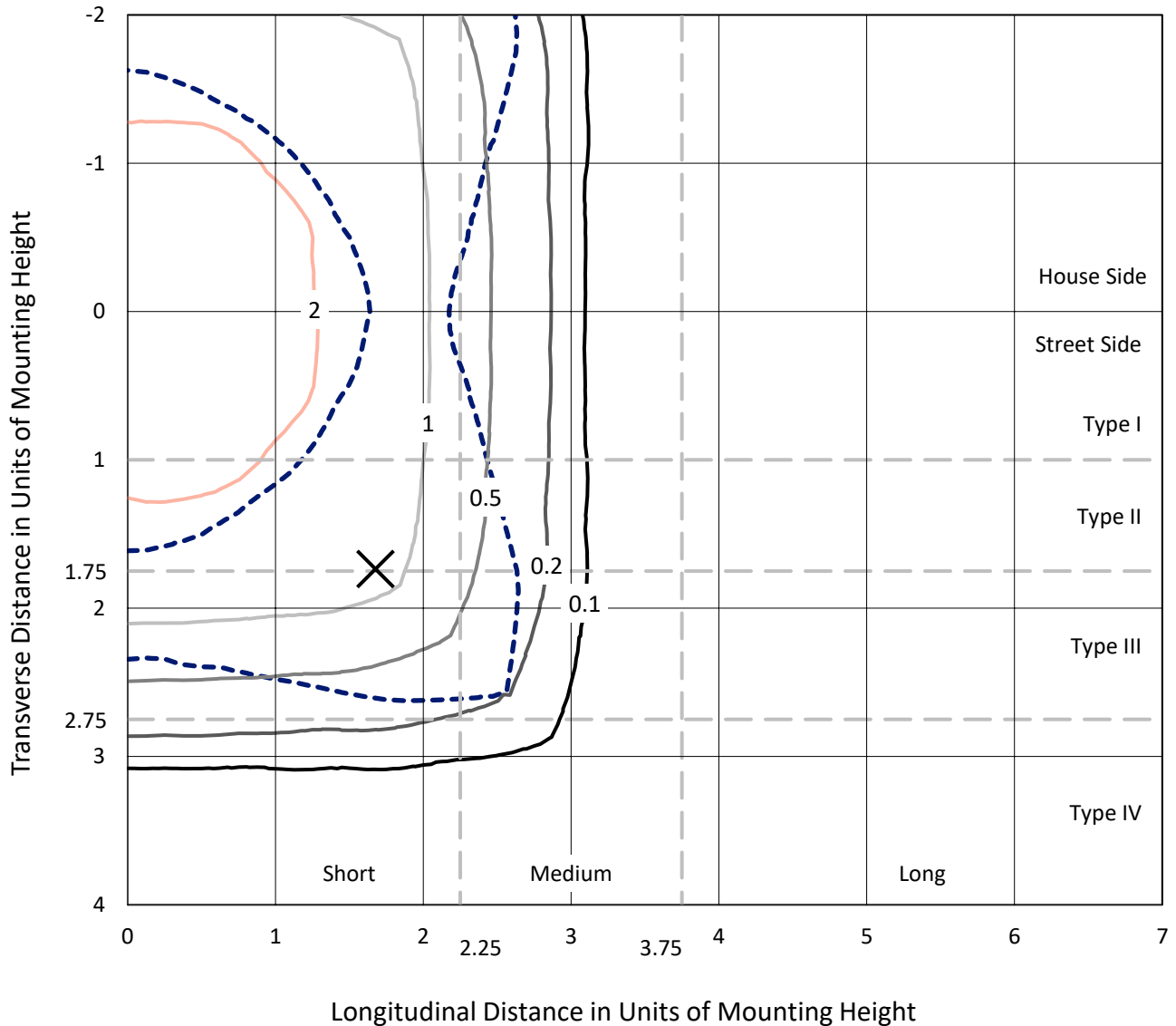
Lumens per Lamp: N/A
Luminaire Lumens: 25105.4 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

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

REPORT NUMBER: P479507
 CATALOG NUMBER: IFLD-L-SA7A-830-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

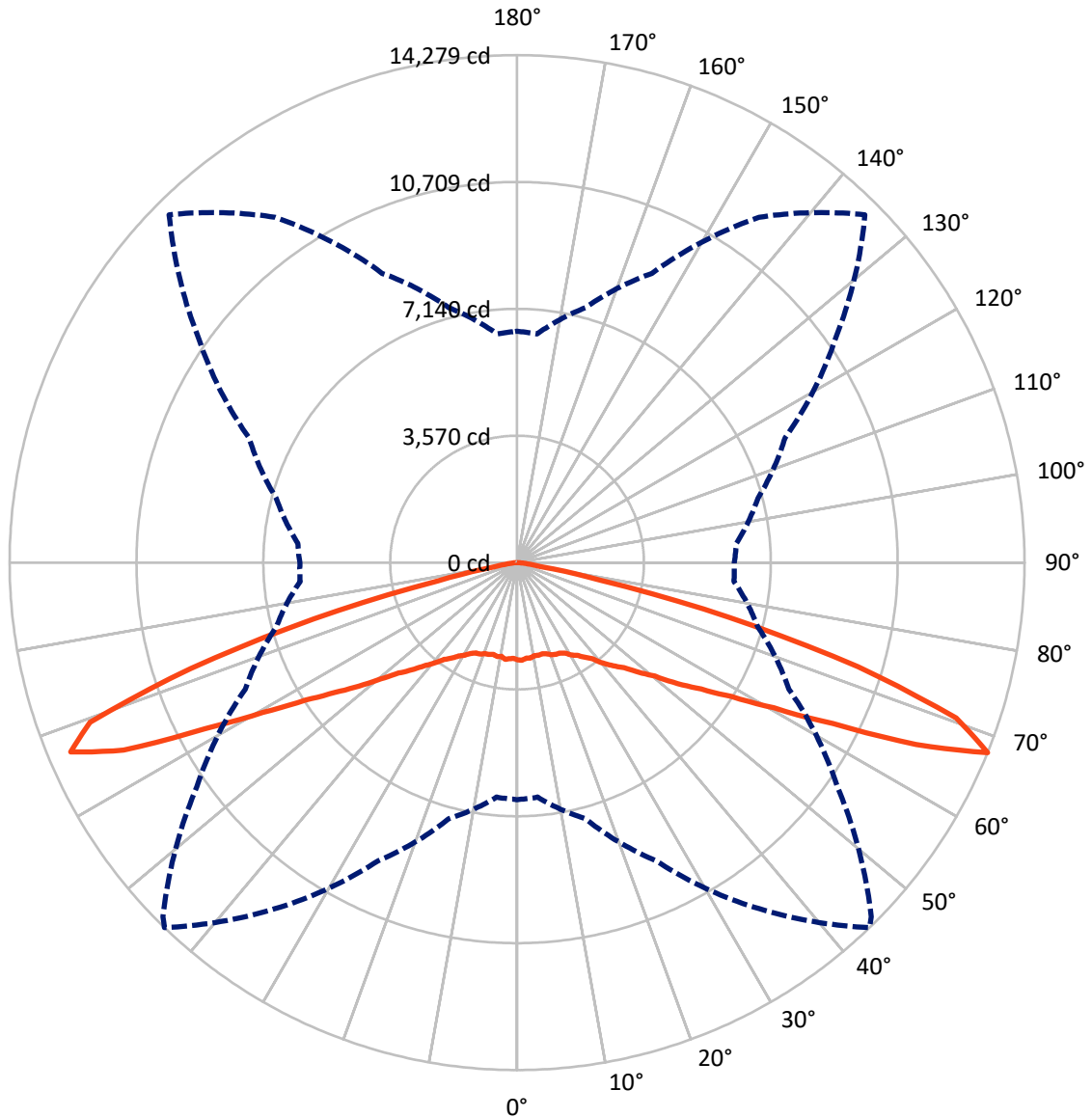
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type V - Short - N/A

REPORT NUMBER: P479507
CATALOG NUMBER: IFLD-L-SA7A-830-U-5MQ

Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P479507

CATALOG NUMBER: IFLD-L-SA7A-830-U-5MQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12520.5	0.0	12520.5
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	12584.9	0.0	12584.9
	% Fixture	50.1	0.0	50.1
Total	Lumens	25105.4	0.0	25105.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.5	1.0
10°-20°	758.1	3.0
20°-30°	1289.3	5.1
30°-40°	2044.2	8.1
40°-50°	3333.2	13.3
50°-60°	5692.7	22.7
60°-70°	8658.5	34.5
70°-80°	2918.4	11.6
80°-90°	151.5	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°	25105.4	100.0
0°-180°	25105.4	100.0

Coefficient of Utilization



REPORT NUMBER: P479507

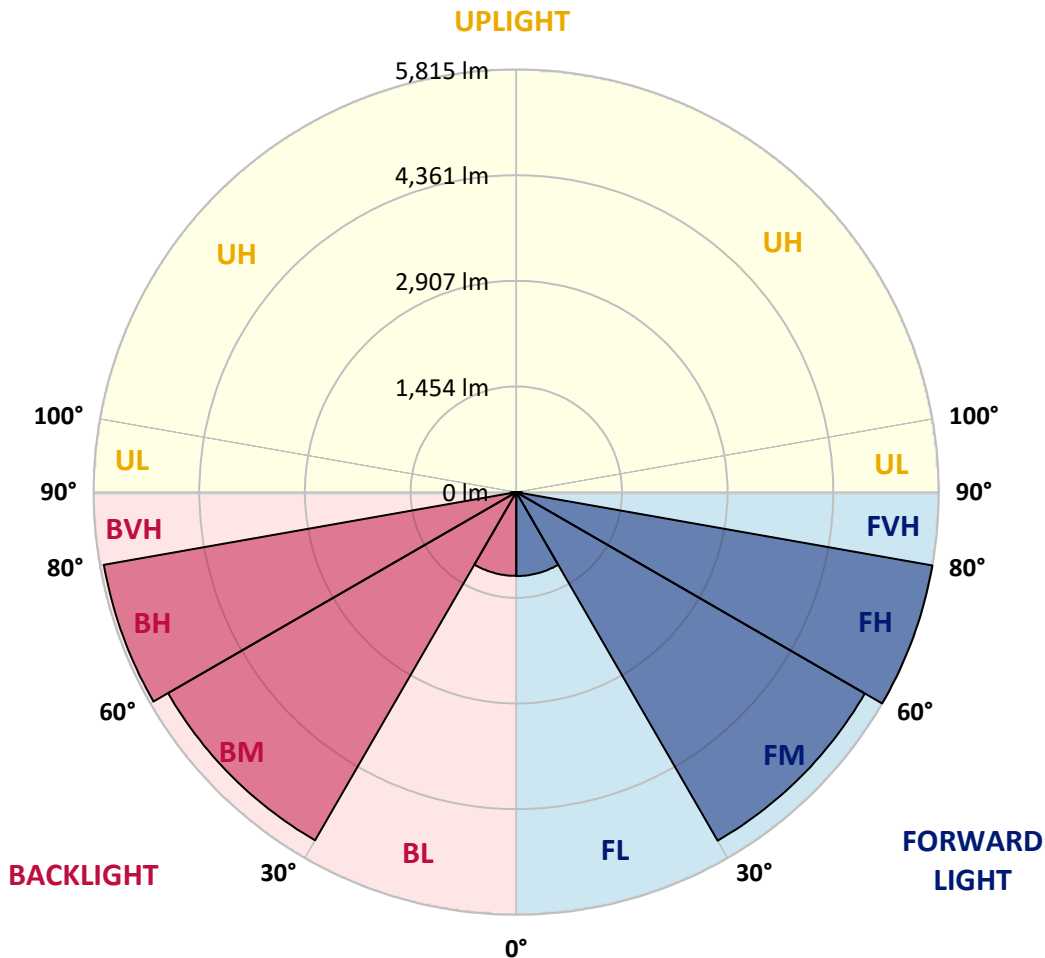
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1154.6	4.6			
FM (30°-60°)	5538.0	22.1			
FH (60°-80°)	5814.7	23.2			G3/7500
FVH (80°-90°)	77.5	0.3			G1/100
BL (0°-30°)	1152.3	4.6	B3/2500		
BM (30°-60°)	5532.0	22.0	B4/8500		
BH (60°-80°)	5762.2	23.0	B5		G3/7500
BVH (80°-90°)	74.0	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





REPORT NUMBER: P479507
 CATALOG NUMBER: IFLD-L-SA7A-830-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2742.3	2742.3	2742.3	2742.3	2742.3	2742.3	2742.3	2742.3	2742.3	2742.3	2742.3
2.5°	2679.3	2710.8	2733.7	2730.9	2739.5	2748.1	2736.6	2753.8	2742.3	2762.4	2773.9
5°	2730.9	2722.3	2725.1	2707.9	2748.1	2702.2	2702.2	2725.1	2753.8	2719.4	2739.5
7.5°	2699.3	2693.6	2679.3	2705.1	2713.7	2713.7	2736.6	2693.6	2742.3	2753.8	2756.7
10°	2665.0	2633.4	2676.4	2702.2	2707.9	2662.1	2682.2	2693.6	2679.3	2693.6	2702.2
12.5°	2636.3	2653.5	2653.5	2653.5	2644.9	2676.4	2696.5	2693.6	2665.0	2690.8	2644.9
15°	2633.4	2624.8	2650.6	2673.6	2659.2	2665.0	2673.6	2699.3	2644.9	2656.4	2656.4
17.5°	2630.6	2642.0	2650.6	2647.8	2696.5	2696.5	2687.9	2670.7	2713.7	2690.8	2659.2
20°	2642.0	2633.4	2656.4	2665.0	2699.3	2768.1	2742.3	2728.0	2705.1	2676.4	2676.4
22.5°	2656.4	2650.6	2682.2	2719.4	2785.3	2802.5	2799.6	2782.5	2742.3	2707.9	2702.2
25°	2707.9	2656.4	2690.8	2762.4	2785.3	2819.7	2842.6	2819.7	2765.3	2773.9	2722.3
27.5°	2785.3	2776.7	2822.6	2871.3	2851.2	2882.7	2862.7	2879.9	2882.7	2839.8	2788.2
30°	2877.0	2851.2	2879.9	2974.4	2983.0	3017.4	2983.0	2937.2	2951.5	2914.3	2888.5
32.5°	3008.8	3000.2	3054.7	3117.7	3129.2	3112.0	3094.8	3120.6	3060.4	3031.8	2985.9
35°	3094.8	3132.0	3198.0	3246.7	3283.9	3266.7	3275.3	3249.5	3263.9	3203.7	3183.6
37.5°	3349.8	3335.5	3349.8	3432.9	3441.5	3432.9	3441.5	3470.2	3450.1	3398.5	3347.0
40°	3590.5	3567.6	3602.0	3696.6	3690.8	3719.5	3662.2	3693.7	3693.7	3596.3	3576.2
42.5°	3771.1	3848.4	3888.6	3965.9	3994.6	3968.8	3957.3	3963.1	4026.1	3911.5	3868.5
45°	4143.6	4140.7	4261.1	4304.1	4223.8	4218.1	4195.2	4263.9	4306.9	4241.0	4223.8
47.5°	4547.6	4567.7	4636.5	4653.7	4702.4	4613.5	4613.5	4622.1	4774.0	4619.3	4539.0
50°	4911.6	4937.3	5074.9	5209.6	5117.9	5023.3	5060.6	5106.4	5189.5	5043.4	4974.6
52.5°	5352.8	5493.3	5585.0	5656.6	5722.5	5656.6	5570.6	5622.2	5785.5	5590.7	5504.7
55°	5989.0	6100.8	6186.7	6318.5	6373.0	6284.2	6275.6	6269.8	6361.5	6155.2	6037.7
57.5°	6699.7	6653.8	6791.4	6994.8	7192.5	7106.6	7080.8	7086.5	7109.4	6817.1	6728.3
60°	7582.2	7633.8	7797.2	7974.8	8184.0	8304.4	8135.3	8037.9	8057.9	7659.6	7522.1
62.5°	8086.6	8201.2	8570.9	9181.2	9602.5	9977.8	10003.6	9370.4	8946.3	8172.6	7588.0
65°	7843.0	7825.8	8522.1	9651.2	11247.3	12339.1	12175.7	10639.8	9158.3	7929.0	7143.8
67.5°	6671.0	6625.2	7467.6	9258.6	11894.9	14279.0	14092.8	10998.0	8441.9	7014.9	6126.5
70°	4298.3	4286.9	5201.0	7057.9	10619.7	13109.9	13178.7	9989.3	6871.6	5137.9	4258.2
72.5°	1561.7	1656.3	2186.4	3794.0	7212.6	10029.4	10072.4	7396.0	3951.6	2375.5	1750.9
75°	576.0	593.2	690.6	1232.2	3286.8	6158.1	6318.5	3587.7	1404.1	773.7	630.4
77.5°	332.4	335.3	369.7	458.5	974.3	2404.2	2501.6	1088.9	544.5	412.6	381.1
80°	226.4	223.5	260.8	298.0	389.7	682.0	725.0	455.6	343.9	286.6	240.7
82.5°	131.8	140.4	192.0	212.1	237.8	300.9	306.6	283.7	257.9	212.1	157.6
85°	80.2	65.9	106.0	117.5	137.5	134.7	134.7	154.7	166.2	149.0	88.8
87.5°	20.1	20.1	25.8	28.7	37.3	28.7	31.5	60.2	80.2	74.5	45.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P479507
 CATALOG NUMBER: IFLD-L-SA7A-830-U-5MQ

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2742.3	2742.3	2742.3	2742.3	2742.3	2742.3	2742.3	2742.3	2742.3	2742.3	2742.3
2.5°	2748.1	2739.5	2745.2	2776.7	2756.7	2696.5	2710.8	2742.3	2716.5	2702.2	2699.3
5°	2736.6	2753.8	2733.7	2739.5	2759.5	2710.8	2719.4	2759.5	2742.3	2748.1	2716.5
7.5°	2739.5	2748.1	2730.9	2705.1	2705.1	2745.2	2722.3	2728.0	2702.2	2745.2	2687.9
10°	2722.3	2699.3	2679.3	2693.6	2687.9	2676.4	2667.8	2685.0	2659.2	2696.5	2656.4
12.5°	2670.7	2676.4	2670.7	2665.0	2676.4	2705.1	2659.2	2665.0	2624.8	2630.6	2650.6
15°	2650.6	2667.8	2662.1	2693.6	2707.9	2665.0	2699.3	2665.0	2633.4	2616.2	2647.8
17.5°	2659.2	2685.0	2676.4	2699.3	2673.6	2705.1	2710.8	2696.5	2659.2	2644.9	2659.2
20°	2667.8	2659.2	2670.7	2710.8	2748.1	2716.5	2716.5	2707.9	2673.6	2653.5	2653.5
22.5°	2687.9	2673.6	2690.8	2722.3	2733.7	2782.5	2739.5	2719.4	2662.1	2610.5	2659.2
25°	2728.0	2736.6	2748.1	2736.6	2799.6	2793.9	2788.2	2773.9	2685.0	2687.9	2679.3
27.5°	2805.4	2756.7	2771.0	2839.8	2848.4	2871.3	2842.6	2868.4	2773.9	2776.7	2719.4
30°	2899.9	2848.4	2894.2	2954.4	2951.5	2994.5	2980.2	2985.9	2920.0	2882.7	2805.4
32.5°	3003.1	2997.4	3026.0	3063.3	3077.6	3100.5	3097.7	3097.7	3057.5	2960.1	2974.4
35°	3117.7	3157.8	3192.2	3232.3	3238.1	3266.7	3226.6	3232.3	3192.2	3120.6	3143.5
37.5°	3344.1	3341.2	3378.5	3427.2	3432.9	3410.0	3441.5	3427.2	3372.8	3324.0	3286.8
40°	3607.7	3550.4	3584.8	3699.4	3708.0	3667.9	3665.0	3662.2	3622.1	3516.0	3493.1
42.5°	3837.0	3911.5	3905.7	3943.0	3917.2	3897.1	3968.8	3928.7	3897.1	3785.4	3765.3
45°	4132.1	4155.0	4229.6	4349.9	4226.7	4226.7	4275.4	4243.9	4226.7	4143.6	4066.2
47.5°	4498.9	4519.0	4668.0	4676.6	4596.3	4541.9	4693.8	4699.5	4627.9	4564.8	4470.3
50°	4928.7	4937.3	5072.0	5209.6	5120.7	5017.6	5172.3	5232.5	5072.0	4986.1	4868.6
52.5°	5401.6	5375.8	5487.5	5745.4	5659.5	5627.9	5794.1	5808.5	5590.7	5456.0	5487.5
55°	5946.0	5911.6	6215.4	6390.2	6335.7	6278.4	6352.9	6387.3	6212.5	5991.9	6069.2
57.5°	6650.9	6668.1	6820.0	6991.9	7080.8	7095.1	7129.5	7095.1	6917.4	6693.9	6622.3
60°	7355.9	7407.4	7702.6	8026.4	8055.1	8307.2	8261.4	8089.5	7837.3	7519.2	7533.5
62.5°	7616.6	7573.7	8049.3	8840.2	9513.6	9975.0	9771.5	9161.2	8576.6	7997.8	8040.7
65°	7092.2	7198.3	7845.9	9083.8	10545.2	12370.6	11287.4	9599.6	8419.0	7671.1	7588.0
67.5°	6112.2	6192.5	7014.9	8321.6	10914.9	13843.5	11860.5	8980.6	7424.6	6456.1	6507.7
70°	4258.2	4298.3	5103.5	6817.1	9897.6	13064.0	10700.0	6897.4	5126.5	4086.3	4143.6
72.5°	1713.6	1811.0	2341.2	4106.3	7307.2	9926.3	7204.0	3619.2	2126.2	1581.8	1435.6
75°	633.3	636.2	747.9	1412.7	3470.2	6238.3	3249.5	1163.4	679.1	555.9	530.1
77.5°	366.8	363.9	389.7	510.1	1005.8	2435.7	922.7	455.6	369.7	332.4	318.1
80°	229.2	226.4	266.5	338.1	441.3	667.7	389.7	283.7	249.3	214.9	214.9
82.5°	146.1	149.0	209.2	249.3	269.4	295.2	226.4	200.6	186.3	123.2	120.4
85°	94.6	86.0	146.1	166.2	149.0	131.8	126.1	106.0	97.4	60.2	65.9
87.5°	43.0	45.8	74.5	83.1	54.4	31.5	31.5	22.9	22.9	14.3	14.3
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)