

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: P479467

Luminaire Tested: **IFLD-M-SA4E-827-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479467
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-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

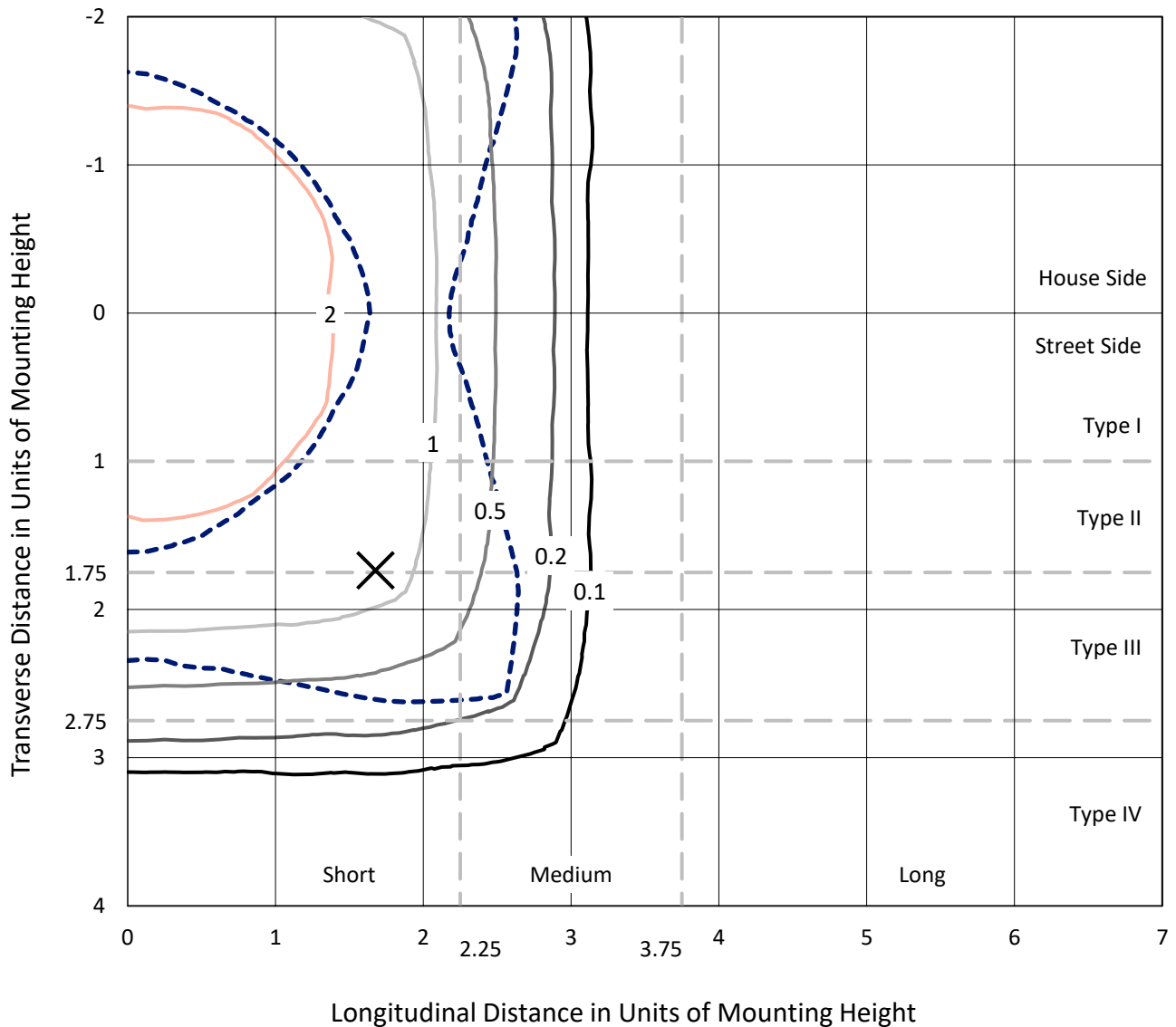
Lumens per Lamp: N/A
Luminaire Lumens: 26864.4 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 314.8
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

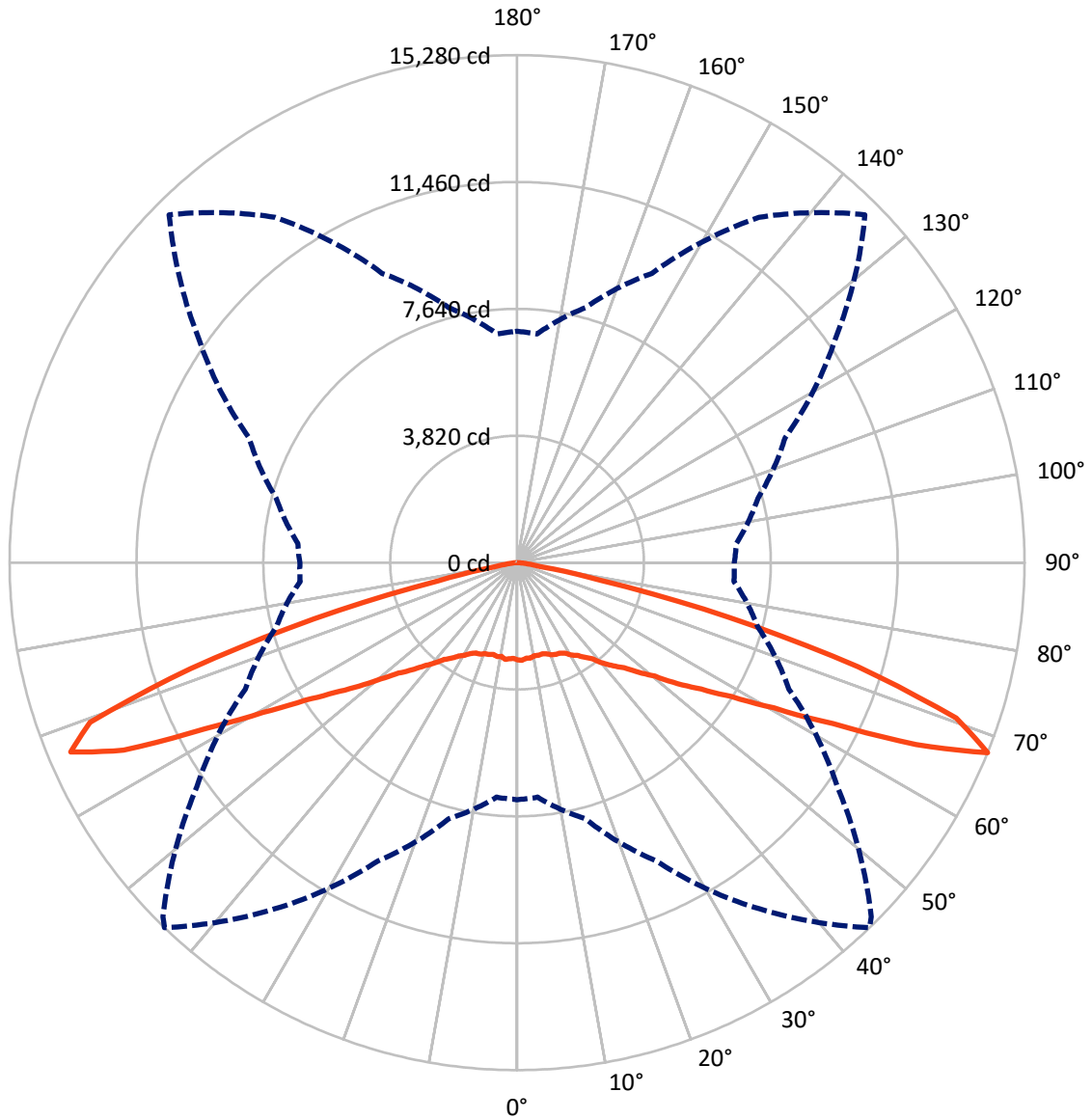
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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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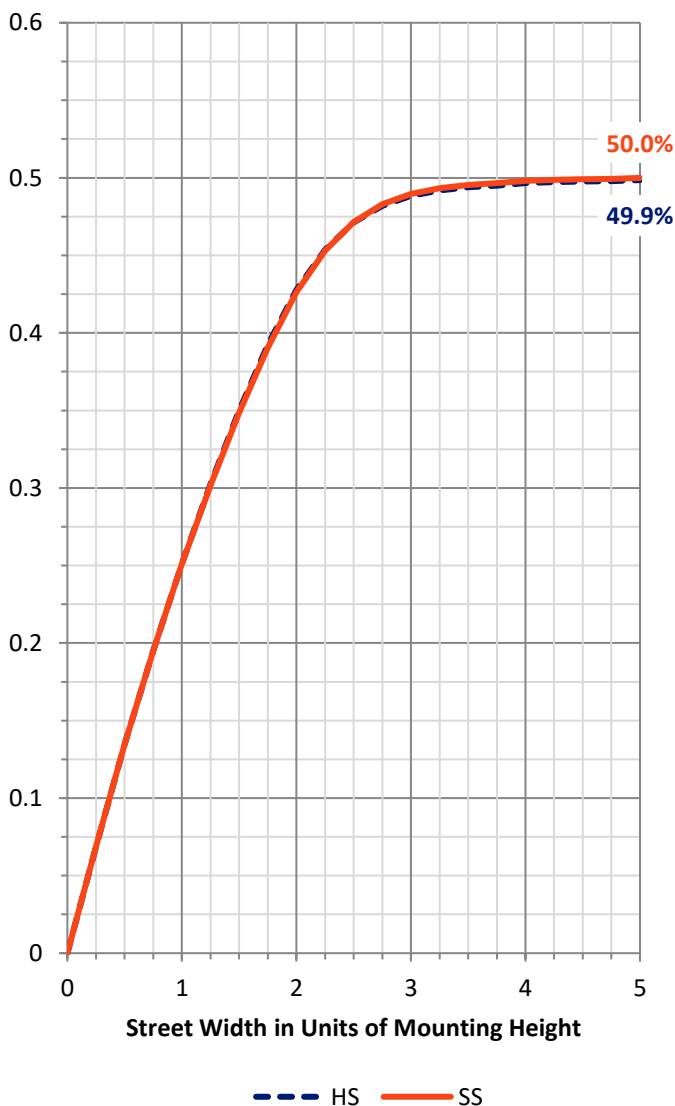
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13397.8	0.0	13397.8
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	13466.6	0.0	13466.6
	% Fixture	50.1	0.0	50.1
Total	Lumens	26864.4	0.0	26864.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.7	1.0
10°-20°	811.3	3.0
20°-30°	1379.6	5.1
30°-40°	2187.4	8.1
40°-50°	3566.7	13.3
50°-60°	6091.5	22.7
60°-70°	9265.1	34.5
70°-80°	3122.9	11.6
80°-90°	162.1	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°	26864.4	100.0
0°-180°	26864.4	100.0

Coefficient of Utilization



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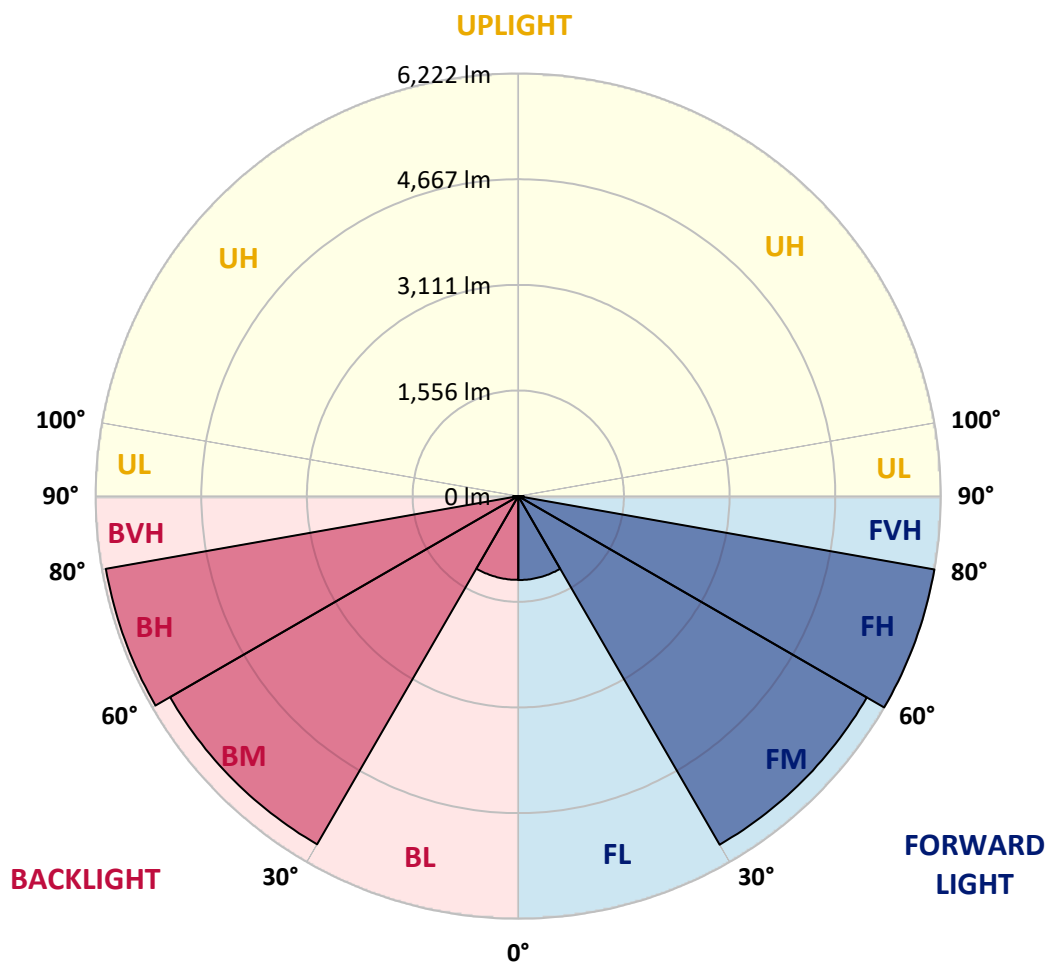
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1235.5	4.6			
FM (30°-60°)	5926.0	22.1			
FH (60°-80°)	6222.1	23.2			G3/7500
FVH (80°-90°)	82.9	0.3			G1/100
BL (0°-30°)	1233.0	4.6	B3/2500		
BM (30°-60°)	5919.6	22.0	B4/8500		
BH (60°-80°)	6166.0	23.0	B5		G3/7500
BVH (80°-90°)	79.2	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°	2934.5	2934.5	2934.5	2934.5	2934.5	2934.5	2934.5	2934.5	2934.5	2934.5	2934.5
2.5°	2867.0	2900.7	2925.3	2922.2	2931.4	2940.6	2928.3	2946.7	2934.5	2955.9	2968.2
5°	2922.2	2913.0	2916.1	2897.7	2940.6	2891.5	2891.5	2916.1	2946.7	2909.9	2931.4
7.5°	2888.5	2882.3	2867.0	2894.6	2903.8	2903.8	2928.3	2882.3	2934.5	2946.7	2949.8
10°	2851.7	2818.0	2863.9	2891.5	2897.7	2848.6	2870.1	2882.3	2867.0	2882.3	2891.5
12.5°	2821.0	2839.4	2839.4	2839.4	2830.2	2863.9	2885.4	2882.3	2851.7	2879.3	2830.2
15°	2818.0	2808.8	2836.3	2860.9	2845.5	2851.7	2860.9	2888.5	2830.2	2842.5	2842.5
17.5°	2814.9	2827.2	2836.3	2833.3	2885.4	2885.4	2876.2	2857.8	2903.8	2879.3	2845.5
20°	2827.2	2818.0	2842.5	2851.7	2888.5	2962.1	2934.5	2919.1	2894.6	2863.9	2863.9
22.5°	2842.5	2836.3	2870.1	2909.9	2980.5	2998.9	2995.8	2977.4	2934.5	2897.7	2891.5
25°	2897.7	2842.5	2879.3	2955.9	2980.5	3017.3	3041.8	3017.3	2959.0	2968.2	2913.0
27.5°	2980.5	2971.3	3020.3	3072.5	3051.0	3084.7	3063.3	3081.7	3084.7	3038.7	2983.5
30°	3078.6	3051.0	3081.7	3182.8	3192.0	3228.8	3192.0	3143.0	3158.3	3118.5	3090.9
32.5°	3219.6	3210.4	3268.7	3336.2	3348.4	3330.0	3311.6	3339.2	3274.8	3244.2	3195.1
35°	3311.6	3351.5	3422.0	3474.1	3514.0	3495.6	3504.8	3477.2	3492.5	3428.2	3406.7
37.5°	3584.5	3569.2	3584.5	3673.5	3682.7	3673.5	3682.7	3713.3	3691.9	3636.7	3581.5
40°	3842.1	3817.6	3854.4	3955.6	3949.4	3980.1	3918.8	3952.5	3952.5	3848.2	3826.8
42.5°	4035.3	4118.1	4161.0	4243.8	4274.5	4246.9	4234.6	4240.7	4308.2	4185.5	4139.5
45°	4433.9	4430.8	4559.6	4605.6	4519.8	4513.6	4489.1	4562.7	4608.7	4538.2	4519.8
47.5°	4866.3	4887.7	4961.3	4979.7	5031.8	4936.8	4936.8	4946.0	5108.5	4942.9	4857.1
50°	5255.7	5283.3	5430.5	5574.6	5476.5	5375.3	5415.1	5464.2	5553.1	5396.7	5323.1
52.5°	5727.9	5878.1	5976.3	6052.9	6123.4	6052.9	5960.9	6016.1	6190.9	5982.4	5890.4
55°	6408.6	6528.2	6620.2	6761.2	6819.5	6724.4	6715.2	6709.1	6807.2	6586.5	6460.7
57.5°	7169.1	7120.0	7267.2	7484.9	7696.5	7604.5	7576.9	7583.0	7607.6	7294.8	7199.7
60°	8113.5	8168.7	8343.5	8533.6	8757.4	8886.2	8705.3	8601.0	8622.5	8196.3	8049.1
62.5°	8653.2	8775.8	9171.4	9824.5	10275.3	10676.9	10704.5	10026.9	9573.1	8745.2	8119.6
65°	8392.5	8374.1	9119.2	10327.4	12035.3	13203.6	13028.8	11385.3	9800.0	8484.5	7644.3
67.5°	7138.4	7089.3	7990.8	9907.3	12728.3	15279.5	15080.2	11768.6	9033.4	7506.4	6555.8
70°	4599.5	4587.2	5565.4	7552.4	11363.8	14028.4	14102.0	10689.2	7353.0	5497.9	4556.6
72.5°	1671.1	1772.3	2339.6	4059.8	7717.9	10732.1	10778.1	7914.2	4228.5	2542.0	1873.5
75°	616.3	634.7	739.0	1318.5	3517.1	6589.5	6761.2	3839.0	1502.5	827.9	674.6
77.5°	355.7	358.8	395.6	490.6	1042.6	2572.6	2676.9	1165.2	582.6	441.6	407.8
80°	242.2	239.2	279.0	318.9	417.0	729.8	775.8	487.5	368.0	306.6	257.6
82.5°	141.1	150.2	205.4	226.9	254.5	322.0	328.1	303.6	276.0	226.9	168.6
85°	85.9	70.5	113.5	125.7	147.2	144.1	144.1	165.6	177.8	159.4	95.1
87.5°	21.5	21.5	27.6	30.7	39.9	30.7	33.7	64.4	85.9	79.7	49.1
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°	2934.5	2934.5	2934.5	2934.5	2934.5	2934.5	2934.5	2934.5	2934.5	2934.5	2934.5
2.5°	2940.6	2931.4	2937.5	2971.3	2949.8	2885.4	2900.7	2934.5	2906.9	2891.5	2888.5
5°	2928.3	2946.7	2925.3	2931.4	2952.9	2900.7	2909.9	2952.9	2934.5	2940.6	2906.9
7.5°	2931.4	2940.6	2922.2	2894.6	2894.6	2937.5	2913.0	2919.1	2891.5	2937.5	2876.2
10°	2913.0	2888.5	2867.0	2882.3	2876.2	2863.9	2854.7	2873.1	2845.5	2885.4	2842.5
12.5°	2857.8	2863.9	2857.8	2851.7	2863.9	2894.6	2845.5	2851.7	2808.8	2814.9	2836.3
15°	2836.3	2854.7	2848.6	2882.3	2897.7	2851.7	2888.5	2851.7	2818.0	2799.6	2833.3
17.5°	2845.5	2873.1	2863.9	2888.5	2860.9	2894.6	2900.7	2885.4	2845.5	2830.2	2845.5
20°	2854.7	2845.5	2857.8	2900.7	2940.6	2906.9	2906.9	2897.7	2860.9	2839.4	2839.4
22.5°	2876.2	2860.9	2879.3	2913.0	2925.3	2977.4	2931.4	2909.9	2848.6	2793.4	2845.5
25°	2919.1	2928.3	2940.6	2928.3	2995.8	2989.7	2983.5	2968.2	2873.1	2876.2	2867.0
27.5°	3001.9	2949.8	2965.1	3038.7	3047.9	3072.5	3041.8	3069.4	2968.2	2971.3	2909.9
30°	3103.1	3047.9	3097.0	3161.4	3158.3	3204.3	3189.0	3195.1	3124.6	3084.7	3001.9
32.5°	3213.5	3207.4	3238.0	3277.9	3293.2	3317.8	3314.7	3314.7	3271.8	3167.5	3182.8
35°	3336.2	3379.1	3415.9	3458.8	3464.9	3495.6	3452.7	3458.8	3415.9	3339.2	3363.8
37.5°	3578.4	3575.3	3615.2	3667.3	3673.5	3648.9	3682.7	3667.3	3609.1	3556.9	3517.1
40°	3860.5	3799.2	3836.0	3958.6	3967.8	3924.9	3921.8	3918.8	3875.8	3762.4	3737.8
42.5°	4105.8	4185.5	4179.4	4219.3	4191.7	4170.2	4246.9	4203.9	4170.2	4050.6	4029.1
45°	4421.6	4446.2	4525.9	4654.7	4522.8	4522.8	4575.0	4541.2	4522.8	4433.9	4351.1
47.5°	4814.1	4835.6	4995.0	5004.2	4918.4	4860.1	5022.6	5028.8	4952.1	4884.7	4783.5
50°	5274.1	5283.3	5427.4	5574.6	5479.5	5369.1	5534.7	5599.1	5427.4	5335.4	5209.7
52.5°	5780.0	5752.4	5872.0	6148.0	6056.0	6022.3	6200.1	6215.4	5982.4	5838.3	5872.0
55°	6362.6	6325.8	6650.9	6837.9	6779.6	6718.3	6798.0	6834.8	6647.8	6411.7	6494.5
57.5°	7116.9	7135.3	7297.9	7481.8	7576.9	7592.2	7629.0	7592.2	7402.1	7162.9	7086.3
60°	7871.3	7926.4	8242.3	8588.8	8619.4	8889.3	8840.2	8656.2	8386.4	8046.0	8061.4
62.5°	8150.3	8104.3	8613.3	9459.6	10180.2	10673.9	10456.2	9803.0	9177.5	8558.1	8604.1
65°	7589.2	7702.6	8395.6	9720.2	11284.1	13237.3	12078.3	10272.2	9008.9	8208.5	8119.6
67.5°	6540.5	6626.3	7506.4	8904.6	11679.6	14813.4	12691.5	9609.9	7944.8	6908.4	6963.6
70°	4556.6	4599.5	5461.1	7294.8	10591.1	13979.4	11449.7	7380.6	5485.7	4372.6	4433.9
72.5°	1833.7	1937.9	2505.2	4394.0	7819.1	10621.7	7708.7	3872.8	2275.2	1692.6	1536.2
75°	677.7	680.7	800.3	1511.7	3713.3	6675.4	3477.2	1244.9	726.7	594.9	567.3
77.5°	392.5	389.4	417.0	545.8	1076.3	2606.4	987.4	487.5	395.6	355.7	340.4
80°	245.3	242.2	285.2	361.8	472.2	714.5	417.0	303.6	266.8	230.0	230.0
82.5°	156.4	159.4	223.8	266.8	288.2	315.8	242.2	214.6	199.3	131.9	128.8
85°	101.2	92.0	156.4	177.8	159.4	141.1	134.9	113.5	104.3	64.4	70.5
87.5°	46.0	49.1	79.7	88.9	58.3	33.7	33.7	24.5	24.5	15.3	15.3
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)