

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: P479512

Luminaire Tested: **IFLD-L-SA8A-830-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479512
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-830-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (128) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

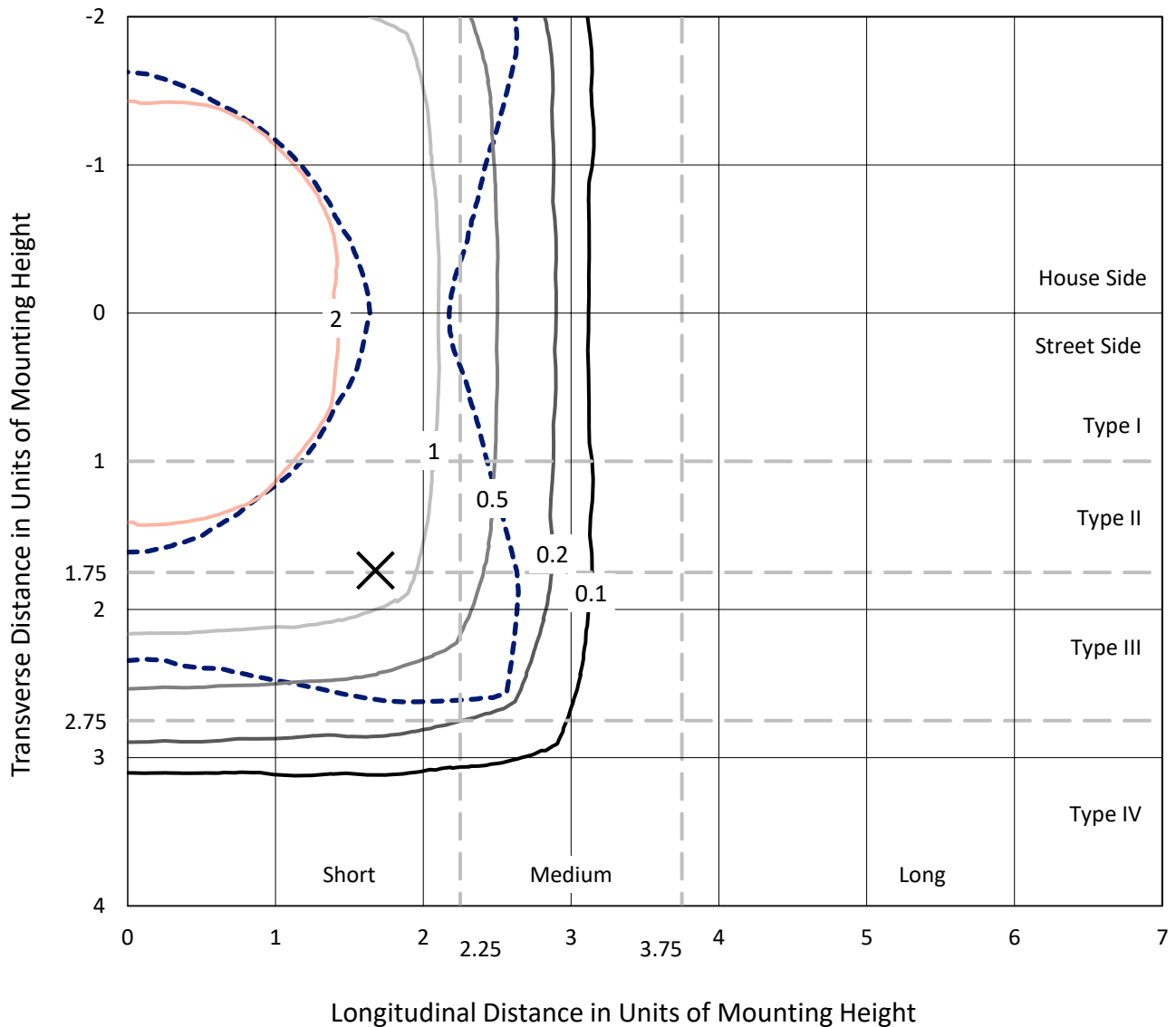
Lumens per Lamp: N/A
Luminaire Lumens: 27476.1 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 247.8
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

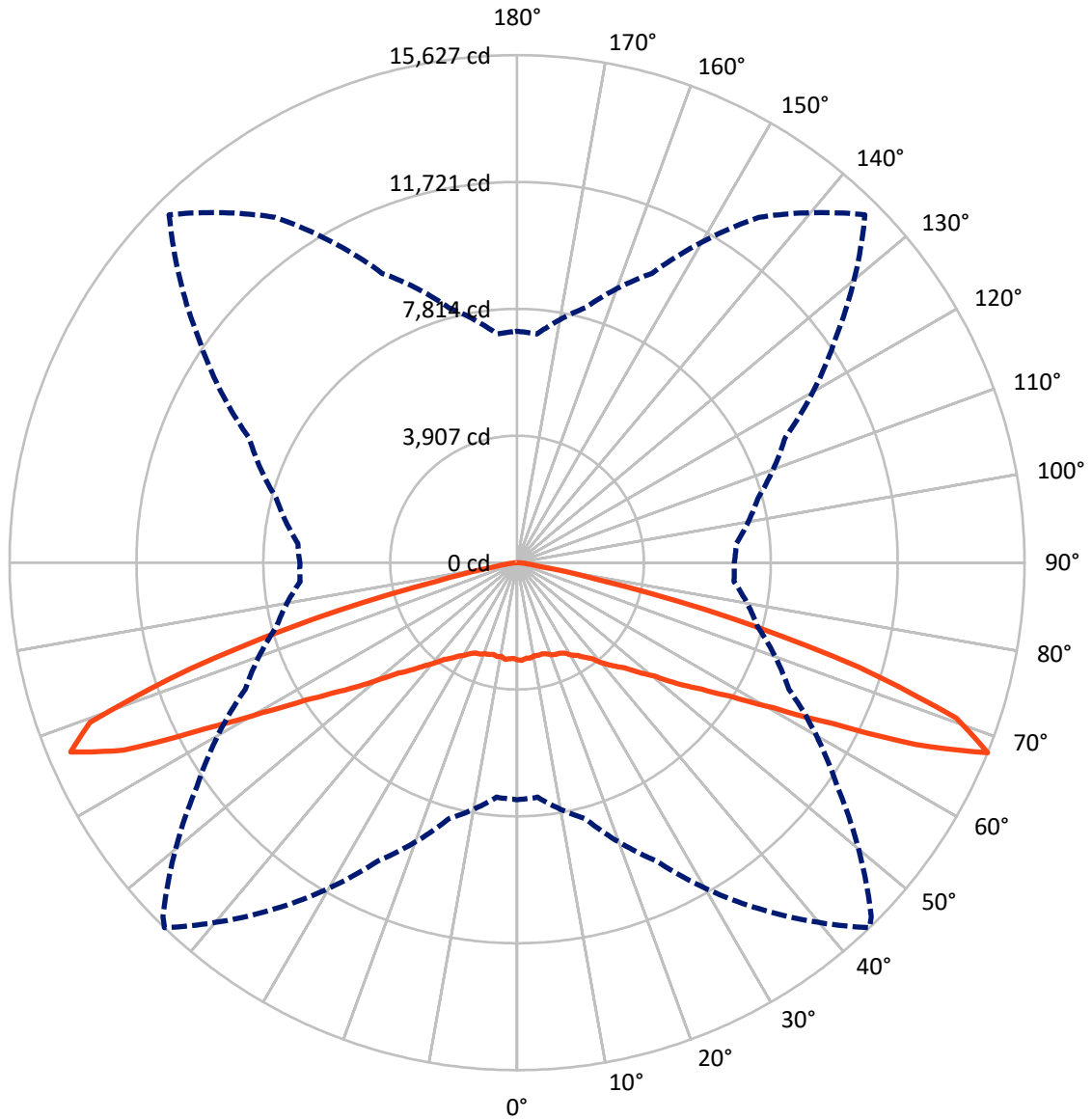
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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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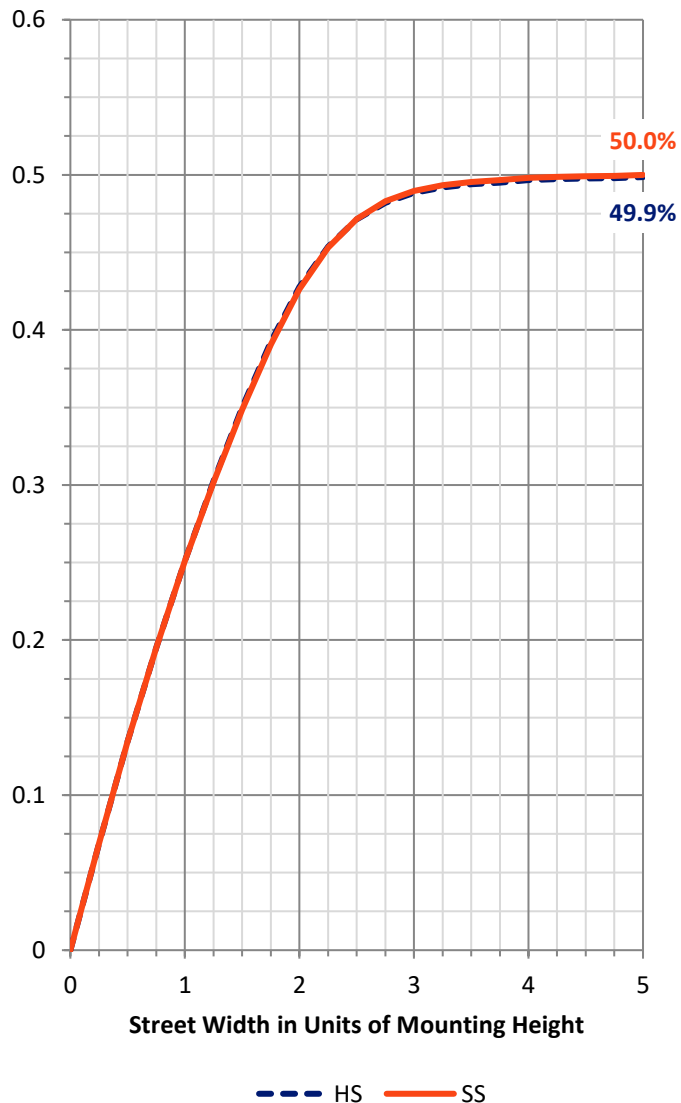
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13702.9	0.0	13702.9
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	13773.2	0.0	13773.2
	% Fixture	50.1	0.0	50.1
Total	Lumens	27476.1	0.0	27476.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.0	1.0
10°-20°	829.7	3.0
20°-30°	1411.0	5.1
30°-40°	2237.2	8.1
40°-50°	3648.0	13.3
50°-60°	6230.2	22.7
60°-70°	9476.1	34.5
70°-80°	3194.0	11.6
80°-90°	165.8	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°	27476.1	100.0
0°-180°	27476.1	100.0

Coefficient of Utilization



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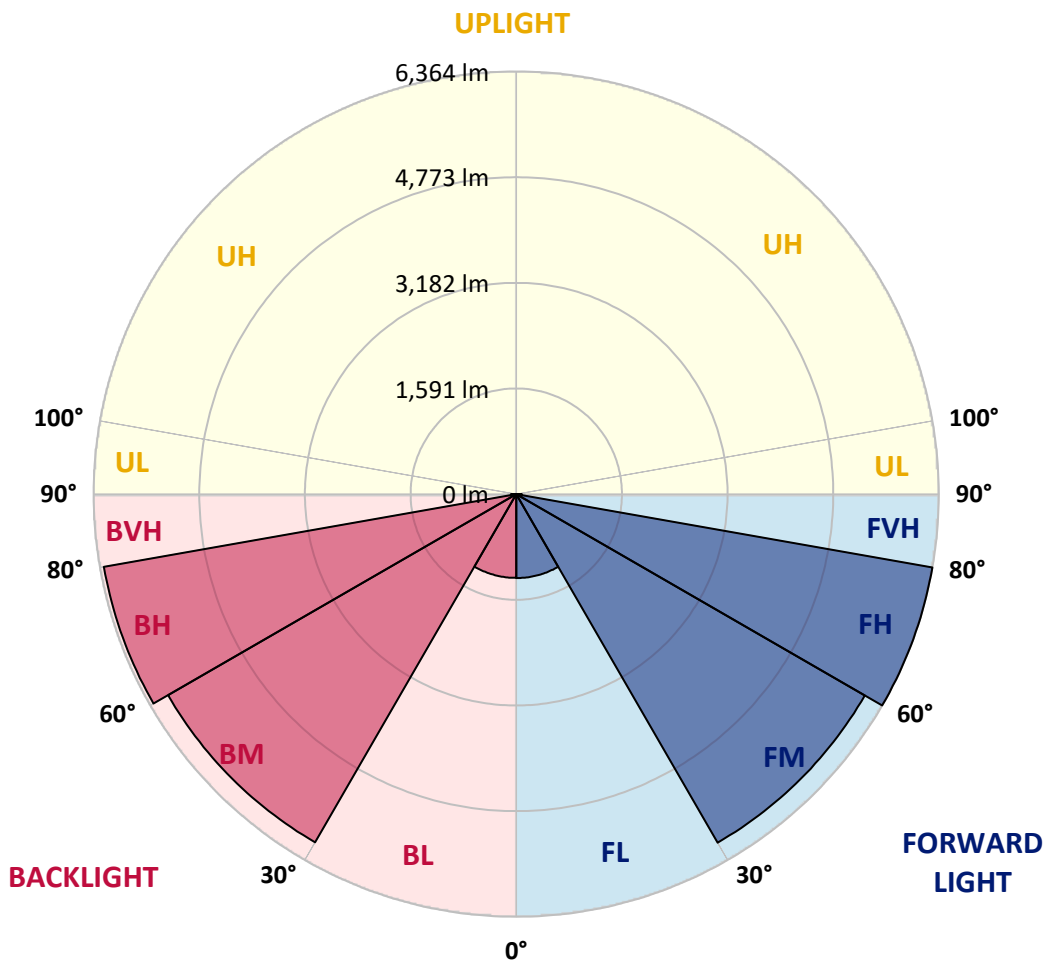
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1263.7	4.6			
FM (30°-60°)	6061.0	22.1			
FH (60°-80°)	6363.8	23.2			G3/7500
FVH (80°-90°)	84.8	0.3			G1/100
BL (0°-30°)	1261.1	4.6	B3/2500		
BM (30°-60°)	6054.4	22.0	B4/8500		
BH (60°-80°)	6306.4	23.0	B5		G3/7500
BVH (80°-90°)	81.0	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°	3001.3	3001.3	3001.3	3001.3	3001.3	3001.3	3001.3	3001.3	3001.3	3001.3	3001.3
2.5°	2932.3	2966.8	2991.9	2988.7	2998.2	3007.6	2995.0	3013.8	3001.3	3023.2	3035.8
5°	2988.7	2979.3	2982.5	2963.7	3007.6	2957.4	2957.4	2982.5	3013.8	2976.2	2998.2
7.5°	2954.2	2948.0	2932.3	2960.5	2969.9	2969.9	2995.0	2948.0	3001.3	3013.8	3017.0
10°	2916.6	2882.1	2929.2	2957.4	2963.7	2913.5	2935.4	2948.0	2932.3	2948.0	2957.4
12.5°	2885.3	2904.1	2904.1	2904.1	2894.7	2929.2	2951.1	2948.0	2916.6	2944.8	2894.7
15°	2882.1	2872.7	2900.9	2926.0	2910.3	2916.6	2926.0	2954.2	2894.7	2907.2	2907.2
17.5°	2879.0	2891.5	2900.9	2897.8	2951.1	2951.1	2941.7	2922.9	2969.9	2944.8	2910.3
20°	2891.5	2882.1	2907.2	2916.6	2954.2	3029.5	3001.3	2985.6	2960.5	2929.2	2929.2
22.5°	2907.2	2900.9	2935.4	2976.2	3048.3	3067.2	3064.0	3045.2	3001.3	2963.7	2957.4
25°	2963.7	2907.2	2944.8	3023.2	3048.3	3086.0	3111.1	3086.0	3026.4	3035.8	2979.3
27.5°	3048.3	3038.9	3089.1	3142.4	3120.5	3155.0	3133.0	3151.8	3155.0	3107.9	3051.5
30°	3148.7	3120.5	3151.8	3255.3	3264.7	3302.4	3264.7	3214.5	3230.2	3189.5	3161.2
32.5°	3293.0	3283.5	3343.1	3412.1	3424.7	3405.9	3387.0	3415.3	3349.4	3318.0	3267.9
35°	3387.0	3427.8	3499.9	3553.3	3594.0	3575.2	3584.6	3556.4	3572.1	3506.2	3484.3
37.5°	3666.2	3650.5	3666.2	3757.1	3766.5	3757.1	3766.5	3797.9	3775.9	3719.5	3663.0
40°	3929.6	3904.5	3942.1	4045.6	4039.4	4070.7	4008.0	4042.5	4042.5	3935.9	3913.9
42.5°	4127.2	4211.8	4255.7	4340.4	4371.8	4343.6	4331.0	4337.3	4406.3	4280.8	4233.8
45°	4534.9	4531.7	4663.4	4710.5	4622.7	4616.4	4591.3	4666.6	4713.6	4641.5	4622.7
47.5°	4977.1	4999.0	5074.3	5093.1	5146.4	5049.2	5049.2	5058.6	5224.8	5055.5	4967.7
50°	5375.4	5403.6	5554.1	5701.5	5601.2	5497.7	5538.4	5588.6	5679.6	5519.6	5444.3
52.5°	5858.3	6012.0	6112.3	6190.8	6262.9	6190.8	6096.7	6153.1	6331.9	6118.6	6024.5
55°	6554.5	6676.9	6770.9	6915.2	6974.8	6877.6	6868.2	6861.9	6962.2	6736.4	6607.9
57.5°	7332.3	7282.1	7432.7	7655.3	7871.7	7777.6	7749.4	7755.7	7780.8	7460.9	7363.7
60°	8298.2	8354.7	8533.5	8727.9	8956.8	9088.6	8903.5	8796.9	8818.8	8382.9	8232.4
62.5°	8850.2	8975.6	9380.2	10048.2	10509.2	10920.1	10948.3	10255.2	9791.0	8944.3	8304.5
65°	8583.6	8564.8	9326.9	10562.5	12309.4	13504.2	13325.5	11644.5	10023.1	8677.7	7818.4
67.5°	7300.9	7250.8	8172.8	10132.9	13018.1	15627.4	15423.6	12036.5	9239.1	7677.3	6705.1
70°	4704.2	4691.7	5692.1	7724.3	11622.6	14347.9	14423.1	10932.6	7520.5	5623.1	4660.3
72.5°	1709.2	1812.7	2392.9	4152.3	7893.7	10976.5	11023.6	8094.4	4324.7	2599.9	1916.2
75°	630.4	649.2	755.8	1348.5	3597.2	6739.6	6915.2	3926.5	1536.7	846.8	690.0
77.5°	363.8	366.9	404.6	501.8	1066.3	2631.2	2737.9	1191.7	595.9	451.6	417.1
80°	247.8	244.6	285.4	326.2	426.5	746.4	793.4	498.6	376.3	313.6	263.4
82.5°	144.3	153.7	210.1	232.1	260.3	329.3	335.6	310.5	282.3	232.1	172.5
85°	87.8	72.1	116.0	128.6	150.5	147.4	147.4	169.4	181.9	163.1	97.2
87.5°	22.0	22.0	28.2	31.4	40.8	31.4	34.5	65.9	87.8	81.5	50.2
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°	3001.3	3001.3	3001.3	3001.3	3001.3	3001.3	3001.3	3001.3	3001.3	3001.3	3001.3
2.5°	3007.6	2998.2	3004.4	3038.9	3017.0	2951.1	2966.8	3001.3	2973.1	2957.4	2954.2
5°	2995.0	3013.8	2991.9	2998.2	3020.1	2966.8	2976.2	3020.1	3001.3	3007.6	2973.1
7.5°	2998.2	3007.6	2988.7	2960.5	2960.5	3004.4	2979.3	2985.6	2957.4	3004.4	2941.7
10°	2979.3	2954.2	2932.3	2948.0	2941.7	2929.2	2919.8	2938.6	2910.3	2951.1	2907.2
12.5°	2922.9	2929.2	2922.9	2916.6	2929.2	2960.5	2910.3	2916.6	2872.7	2879.0	2900.9
15°	2900.9	2919.8	2913.5	2948.0	2963.7	2916.6	2954.2	2916.6	2882.1	2863.3	2897.8
17.5°	2910.3	2938.6	2929.2	2954.2	2926.0	2960.5	2966.8	2951.1	2910.3	2894.7	2910.3
20°	2919.8	2910.3	2922.9	2966.8	3007.6	2973.1	2973.1	2963.7	2926.0	2904.1	2904.1
22.5°	2941.7	2926.0	2944.8	2979.3	2991.9	3045.2	2998.2	2976.2	2913.5	2857.0	2910.3
25°	2985.6	2995.0	3007.6	2995.0	3064.0	3057.7	3051.5	3035.8	2938.6	2941.7	2932.3
27.5°	3070.3	3017.0	3032.7	3107.9	3117.3	3142.4	3111.1	3139.3	3035.8	3038.9	2976.2
30°	3173.8	3117.3	3167.5	3233.4	3230.2	3277.3	3261.6	3267.9	3195.7	3155.0	3070.3
32.5°	3286.7	3280.4	3311.8	3352.5	3368.2	3393.3	3390.2	3390.2	3346.3	3239.6	3255.3
35°	3412.1	3456.0	3493.7	3537.6	3543.8	3575.2	3531.3	3537.6	3493.7	3415.3	3440.4
37.5°	3659.9	3656.7	3697.5	3750.8	3757.1	3732.0	3766.5	3750.8	3691.2	3637.9	3597.2
40°	3948.4	3885.7	3923.3	4048.8	4058.2	4014.3	4011.1	4008.0	3964.1	3848.1	3823.0
42.5°	4199.3	4280.8	4274.6	4315.3	4287.1	4265.2	4343.6	4299.7	4265.2	4142.8	4120.9
45°	4522.3	4547.4	4629.0	4760.7	4625.8	4625.8	4679.1	4644.6	4625.8	4534.9	4450.2
47.5°	4923.7	4945.7	5108.8	5118.2	5030.4	4970.8	5137.0	5143.3	5064.9	4995.9	4892.4
50°	5394.2	5403.6	5551.0	5701.5	5604.3	5491.4	5660.7	5726.6	5551.0	5456.9	5328.3
52.5°	5911.6	5883.4	6005.7	6288.0	6193.9	6159.4	6341.3	6357.0	6118.6	5971.2	6005.7
55°	6507.5	6469.9	6802.3	6993.6	6934.0	6871.3	6952.8	6990.5	6799.2	6557.7	6642.4
57.5°	7279.0	7297.8	7464.0	7652.2	7749.4	7765.1	7802.7	7765.1	7570.7	7326.0	7247.6
60°	8050.5	8106.9	8430.0	8784.3	8815.7	9091.7	9041.5	8853.3	8577.4	8229.2	8244.9
62.5°	8335.9	8288.8	8809.4	9675.0	10412.0	10916.9	10694.3	10026.3	9386.5	8753.0	8800.0
65°	7762.0	7878.0	8586.8	9941.6	11541.0	13538.7	12353.3	10506.1	9214.0	8395.5	8304.5
67.5°	6689.4	6777.2	7677.3	9107.4	11945.6	15150.7	12980.5	9828.7	8125.8	7065.7	7122.2
70°	4660.3	4704.2	5585.5	7460.9	10832.2	14297.7	11710.4	7548.7	5610.6	4472.1	4534.9
72.5°	1875.4	1982.0	2562.2	4494.1	7997.2	10863.6	7884.3	3961.0	2327.0	1731.2	1571.2
75°	693.1	696.2	818.5	1546.1	3797.9	6827.4	3556.4	1273.3	743.3	608.4	580.2
77.5°	401.4	398.3	426.5	558.2	1100.8	2665.7	1009.8	498.6	404.6	363.8	348.1
80°	250.9	247.8	291.7	370.1	483.0	730.7	426.5	310.5	272.8	235.2	235.2
82.5°	159.9	163.1	228.9	272.8	294.8	323.0	247.8	219.5	203.8	134.9	131.7
85°	103.5	94.1	159.9	181.9	163.1	144.3	138.0	116.0	106.6	65.9	72.1
87.5°	47.0	50.2	81.5	90.9	59.6	34.5	34.5	25.1	25.1	15.7	15.7
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)