

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: P481221

Luminaire Tested: **IFLD-M-SA4D-730-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481221
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-730-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

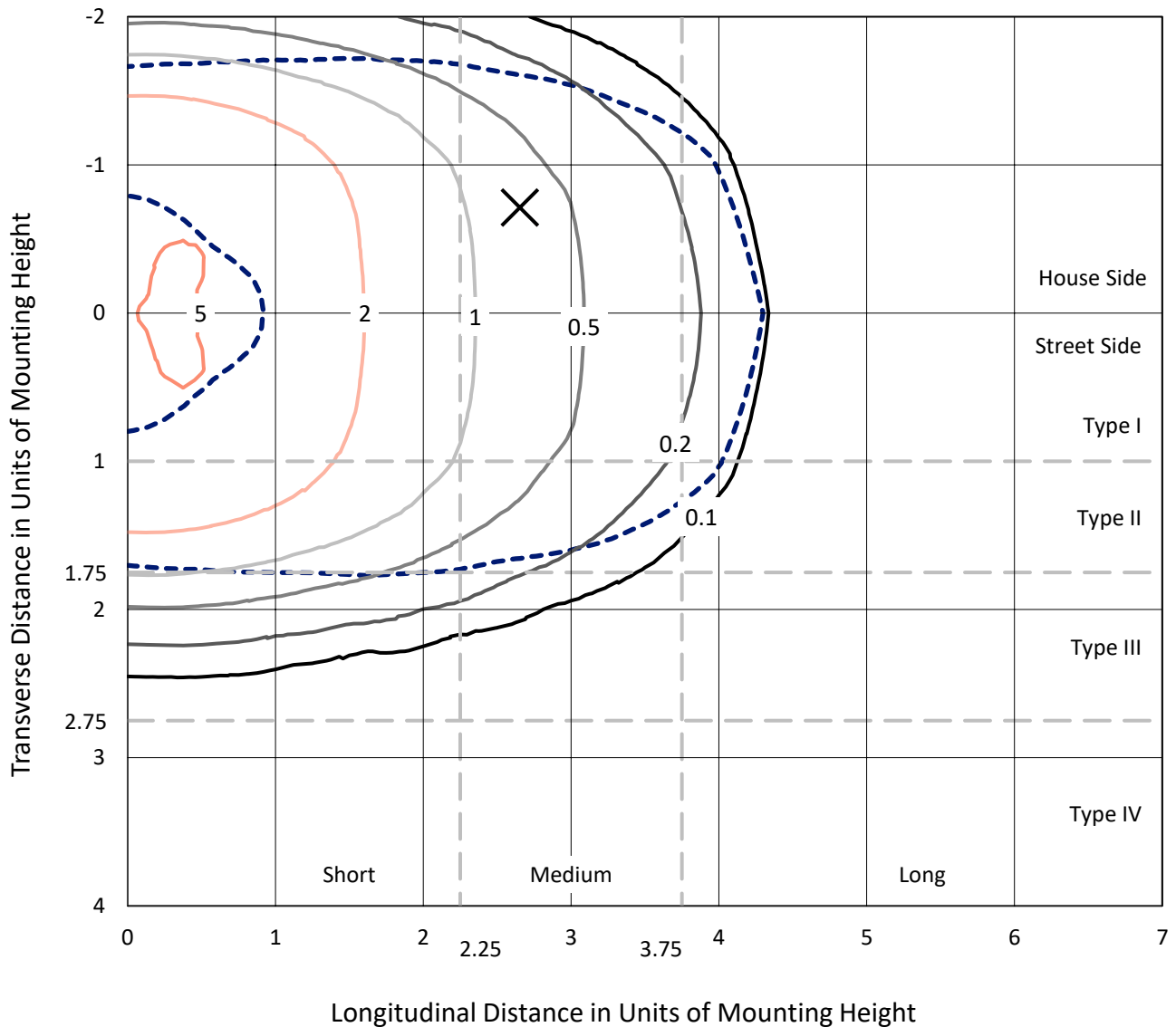
Lumens per Lamp: N/A
Luminaire Lumens: 29342.5 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 249.7
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

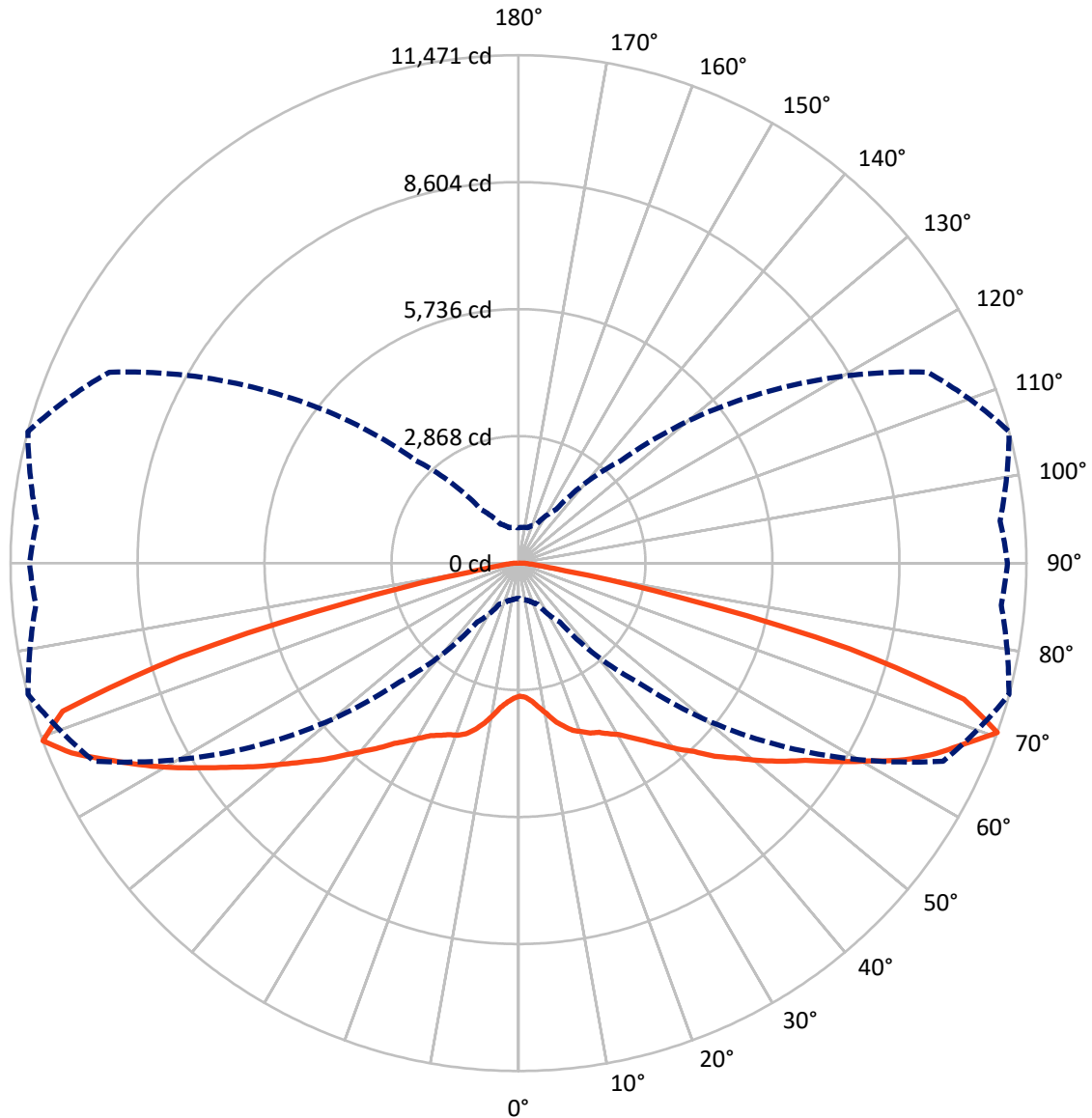
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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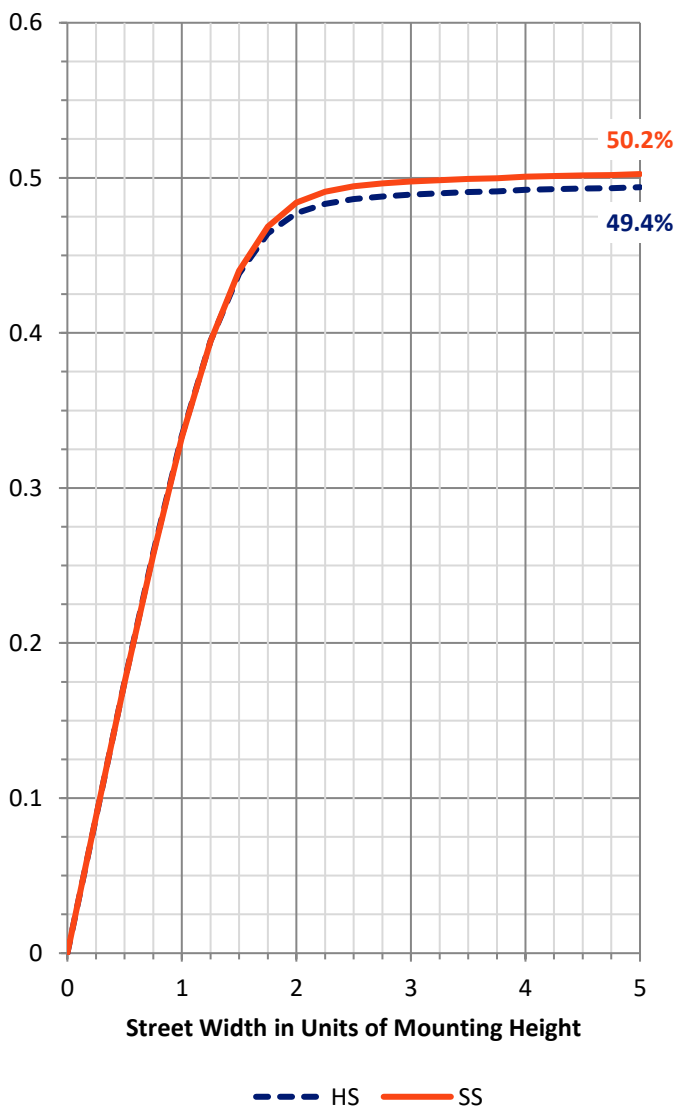
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14566.9	0.0	14566.9
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	14775.6	0.0	14775.6
	% Fixture	50.4	0.0	50.4
Total	Lumens	29342.5	0.0	29342.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.1	1.0
10°-20°	1018.3	3.5
20°-30°	1971.7	6.7
30°-40°	3335.0	11.4
40°-50°	5320.4	18.1
50°-60°	7282.4	24.8
60°-70°	6864.2	23.4
70°-80°	3023.9	10.3
80°-90°	227.5	0.8
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°	29342.5	100.0
0°-180°	29342.5	100.0

Coefficient of Utilization



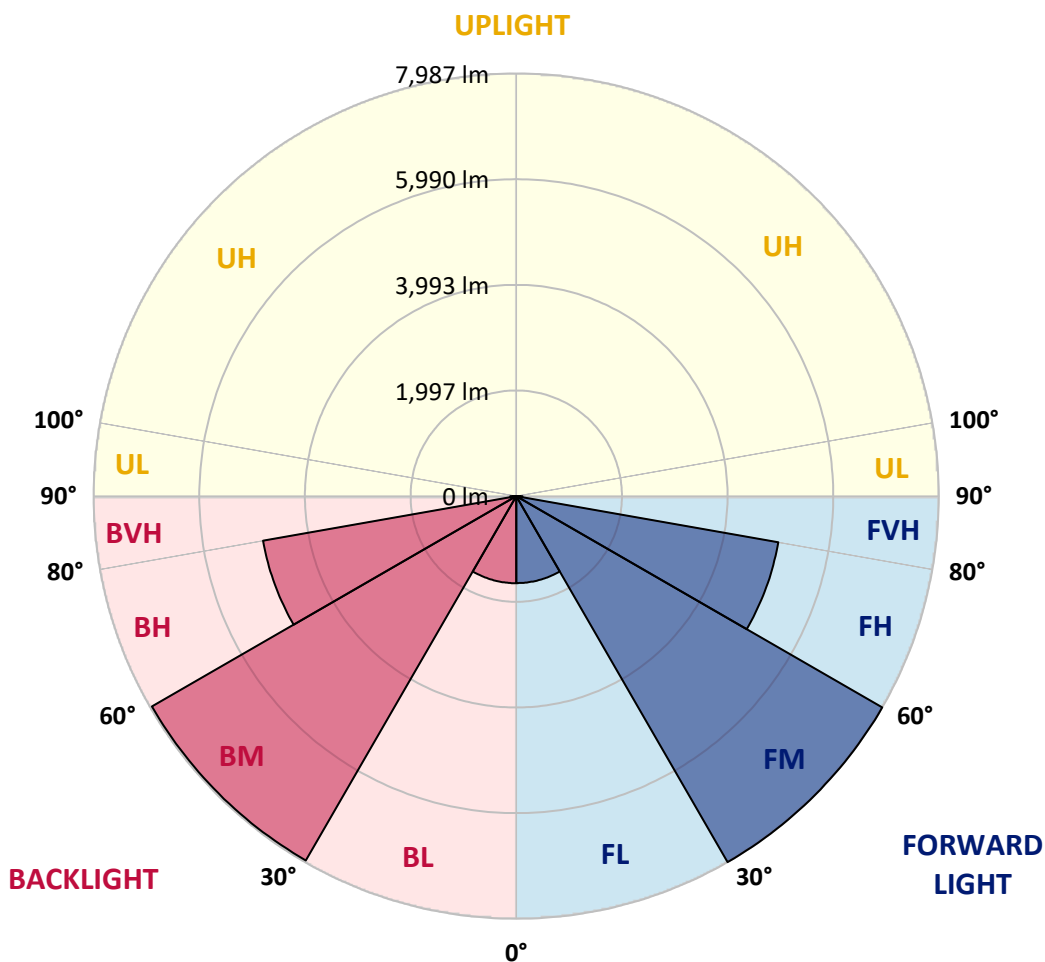
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1643.7	5.6			
FM (30°-60°)	7986.8	27.2			
FH (60°-80°)	5029.0	17.1			G3/7500
FVH (80°-90°)	116.2	0.4			G2/225
BL (0°-30°)	1645.4	5.6	B3/2500		
BM (30°-60°)	7951.1	27.1	B4/8500		
BH (60°-80°)	4859.1	16.6	B4/5000		G4/5000
BVH (80°-90°)	111.3	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3004.6	3004.6	3004.6	3004.6	3004.6	3004.6	3004.6	3004.6	3004.6	3004.6	3004.6
2.5°	2985.7	2985.7	2982.5	2998.3	3014.1	3020.5	3033.1	3036.3	3055.3	3039.4	3071.1
5°	2976.2	2973.0	2998.3	3036.3	3036.3	3077.4	3102.7	3137.5	3147.0	3165.9	3172.3
7.5°	3042.6	3036.3	3023.6	3064.7	3099.5	3162.8	3197.6	3257.7	3279.8	3305.1	3333.6
10°	3083.7	3083.7	3071.1	3143.8	3175.4	3260.8	3336.7	3396.8	3482.2	3510.7	3513.9
12.5°	3090.0	3099.5	3137.5	3232.4	3320.9	3431.6	3488.6	3602.4	3687.8	3741.6	3760.6
15°	3184.9	3165.9	3207.1	3336.7	3466.4	3564.5	3665.7	3747.9	3871.3	3940.8	3985.1
17.5°	3270.3	3251.3	3327.3	3482.2	3615.1	3766.9	3855.4	3944.0	4032.6	4095.8	4099.0
20°	3406.3	3422.1	3488.6	3656.2	3830.1	3963.0	4064.2	4080.0	4124.3	4216.0	4200.2
22.5°	3573.9	3561.3	3700.5	3883.9	4073.7	4184.4	4241.3	4200.2	4178.0	4276.1	4298.2
25°	3741.6	3779.5	3906.0	4076.8	4304.6	4453.2	4469.0	4355.2	4272.9	4307.7	4298.2
27.5°	3997.8	4004.1	4136.9	4339.3	4570.2	4699.9	4690.4	4529.1	4371.0	4374.1	4380.5
30°	4326.7	4295.1	4440.6	4624.0	4851.7	4968.7	4984.6	4753.7	4541.8	4478.5	4494.3
32.5°	4643.0	4680.9	4807.4	5016.2	5183.8	5250.2	5215.4	5009.9	4734.7	4649.3	4658.8
35°	5047.8	5041.5	5215.4	5392.6	5519.1	5531.7	5503.2	5202.8	4943.4	4832.7	4788.5
37.5°	5481.1	5538.0	5651.9	5797.4	5930.2	5936.5	5781.6	5541.2	5221.8	5038.3	5092.1
40°	5965.0	6028.3	6110.5	6322.4	6420.5	6319.2	6161.1	5835.3	5503.2	5341.9	5367.2
42.5°	6392.0	6420.5	6588.1	6837.9	6885.4	6841.1	6607.1	6211.7	5825.9	5648.7	5661.4
45°	6784.2	6822.1	7040.4	7264.9	7375.6	7299.7	7027.7	6651.3	6202.2	6050.4	5990.3
47.5°	7144.7	7220.6	7432.5	7663.4	7834.2	7840.5	7505.3	7049.9	6575.4	6376.2	6373.0
50°	7388.3	7499.0	7707.7	7970.2	8220.1	8318.1	7982.9	7492.6	6983.4	6771.5	6749.4
52.5°	7521.1	7635.0	7843.7	8251.7	8530.0	8681.8	8523.7	7907.0	7461.0	7239.6	7204.8
55°	7359.8	7435.7	7777.3	8349.8	8779.9	9029.8	8925.4	8479.4	7935.4	7755.2	7786.8
57.5°	6673.5	6831.6	7252.3	7967.1	8773.6	9387.1	9377.7	9020.3	8482.6	8311.8	8318.1
60°	5493.8	5626.6	6145.3	7144.7	8419.3	9532.6	9867.9	9545.3	9096.2	8896.9	8890.6
62.5°	3877.6	4045.2	4646.1	5737.3	7375.6	9330.2	10430.9	10206.3	9697.1	9551.6	9605.4
65°	2169.7	2270.9	2827.5	3814.3	5620.3	8216.9	10532.1	10892.6	10307.5	10086.1	10095.6
67.5°	1160.7	1198.7	1458.0	2002.0	3437.9	6335.1	9510.5	11288.0	10968.5	10585.8	10525.8
70°	797.0	809.7	876.1	1024.7	1625.7	3789.0	7173.2	10582.7	11465.1	10943.2	11044.4
72.5°	673.7	667.3	683.2	699.0	850.8	1695.3	4209.7	8144.2	10823.1	10627.0	10589.0
75°	585.1	582.0	588.3	572.5	591.4	746.4	1862.9	5076.3	7922.8	8843.2	8985.5
77.5°	483.9	487.1	490.2	474.4	468.1	493.4	749.6	2229.8	3899.7	4304.6	4643.0
80°	366.9	373.2	398.5	382.7	357.4	360.6	442.8	746.4	1119.6	1015.3	1046.9
82.5°	249.9	253.0	306.8	287.8	268.8	243.5	284.7	385.9	436.5	332.1	291.0
85°	177.1	174.0	199.3	183.4	170.8	123.3	170.8	218.2	262.5	164.5	148.7
87.5°	41.1	41.1	82.2	66.4	63.3	50.6	66.4	85.4	113.9	72.7	66.4
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3004.6	3004.6	3004.6	3004.6	3004.6	3004.6	3004.6	3004.6	3004.6	3004.6
2.5°	3061.6	3033.1	3033.1	3026.8	3001.5	2995.2	2973.0	2979.3	2963.5	2947.7
5°	3169.1	3131.2	3131.2	3077.4	3026.8	3020.5	2995.2	2995.2	2969.9	2976.2
7.5°	3317.8	3283.0	3226.0	3178.6	3109.0	3080.6	3033.1	3026.8	3020.5	3007.8
10°	3494.9	3450.6	3393.7	3295.6	3238.7	3184.9	3137.5	3071.1	3055.3	3058.4
12.5°	3735.3	3665.7	3542.3	3456.9	3384.2	3314.6	3245.0	3147.0	3124.8	3134.3
15°	3906.0	3817.5	3694.1	3662.5	3564.5	3479.1	3365.2	3254.5	3216.6	3207.1
17.5°	4045.2	3972.5	3899.7	3852.3	3773.2	3668.8	3510.7	3384.2	3298.8	3289.3
20°	4159.1	4064.2	4048.4	4076.8	3978.8	3909.2	3716.3	3561.3	3447.4	3400.0
22.5°	4228.6	4168.6	4212.8	4238.1	4231.8	4114.8	3915.5	3735.3	3592.9	3548.6
25°	4304.6	4235.0	4393.1	4478.5	4500.6	4307.7	4152.7	3915.5	3776.4	3747.9
27.5°	4342.5	4367.8	4551.2	4731.5	4715.7	4567.1	4358.3	4146.4	4035.7	3985.1
30°	4453.2	4494.3	4772.6	4975.1	4978.2	4832.7	4674.6	4434.2	4310.9	4288.7
32.5°	4652.5	4703.1	5000.4	5215.4	5253.4	5142.7	4984.6	4835.9	4709.4	4658.8
35°	4804.3	4933.9	5269.2	5465.3	5566.5	5500.1	5411.5	5256.6	5123.7	5079.4
37.5°	5022.5	5202.8	5525.4	5791.1	5904.9	5898.6	5832.2	5664.6	5553.9	5515.9
40°	5335.6	5515.9	5810.0	6161.1	6373.0	6363.5	6325.6	6195.9	6031.4	6012.5
42.5°	5667.7	5816.4	6199.1	6600.7	6904.4	6872.7	6771.5	6619.7	6505.9	6480.5
45°	5990.3	6221.2	6575.4	7091.0	7318.7	7397.8	7277.6	7018.2	6888.5	6872.7
47.5°	6395.2	6578.6	7021.4	7483.2	7821.6	7834.2	7628.6	7388.3	7151.1	7201.7
50°	6755.7	6999.2	7448.4	7954.4	8359.2	8213.8	7951.2	7650.8	7480.0	7413.6
52.5°	7141.6	7438.9	7960.7	8476.3	8700.8	8555.3	8128.4	7793.1	7533.8	7505.3
55°	7704.5	7859.5	8542.7	8938.0	9010.8	8704.0	8074.6	7600.2	7264.9	7182.7
57.5°	8277.0	8457.3	9055.1	9396.6	9320.7	8621.8	7726.7	6992.9	6553.3	6436.3
60°	8855.8	9077.2	9580.1	9893.2	9501.0	8055.6	6743.1	5797.4	5285.0	5180.6
62.5°	9501.0	9788.8	10237.9	10348.6	8966.5	6936.0	5351.4	4184.4	3665.7	3491.7
65°	10073.5	10367.6	10921.1	10253.8	7831.1	5174.3	3460.1	2391.1	2008.4	1869.2
67.5°	10544.7	10876.8	11148.8	9074.0	5734.1	3029.9	1802.8	1258.8	1116.5	1065.9
70°	10917.9	11471.4	10200.0	6670.3	3276.6	1477.0	974.1	828.6	809.7	797.0
72.5°	10592.2	10519.4	7616.0	3849.1	1435.9	812.8	705.3	683.2	680.0	683.2
75°	8662.9	7726.7	4554.4	1673.1	721.1	588.3	585.1	575.6	591.4	591.4
77.5°	4203.3	3675.2	1904.0	718.0	474.4	461.8	477.6	477.6	477.6	477.6
80°	974.1	1078.5	680.0	436.5	344.7	344.7	379.5	382.7	366.9	360.6
82.5°	332.1	442.8	373.2	275.2	227.7	256.2	287.8	294.1	243.5	246.7
85°	164.5	259.3	202.4	158.1	117.0	158.1	186.6	196.1	167.6	161.3
87.5°	75.9	113.9	75.9	53.8	41.1	56.9	53.8	44.3	25.3	25.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)