

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: P478873

Luminaire Tested: **IFLD-S-SA6A-730-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478873
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-730-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (96) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

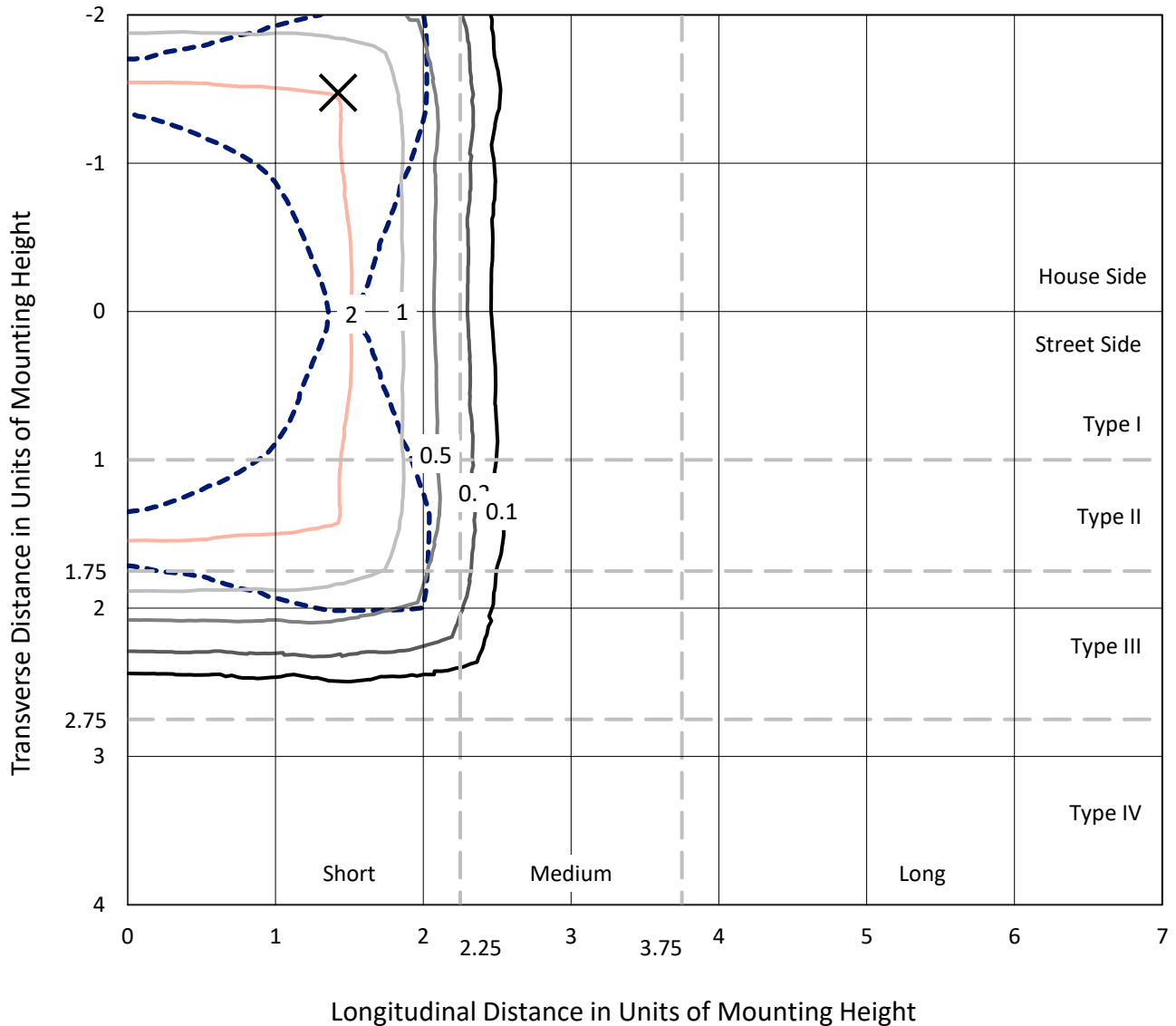
Lumens per Lamp: N/A
Luminaire Lumens: 24512.5 lumens
Efficiency: N/A
Efficacy: 129.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 189.6
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

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Iso-Footcandle Lines of Horizontal Illumination

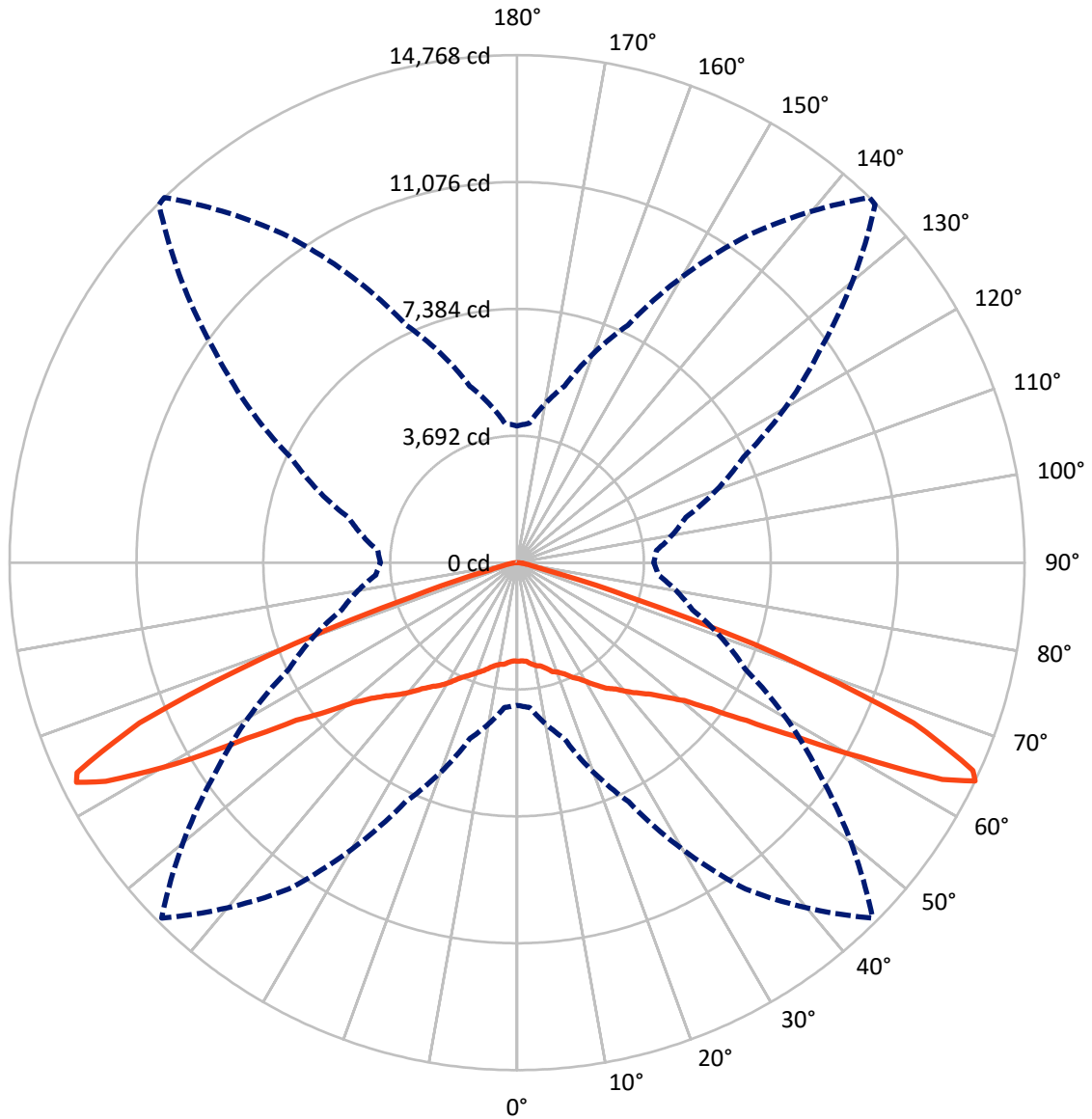
✕ Max cd
 - - - 1/2 Max cd



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 136-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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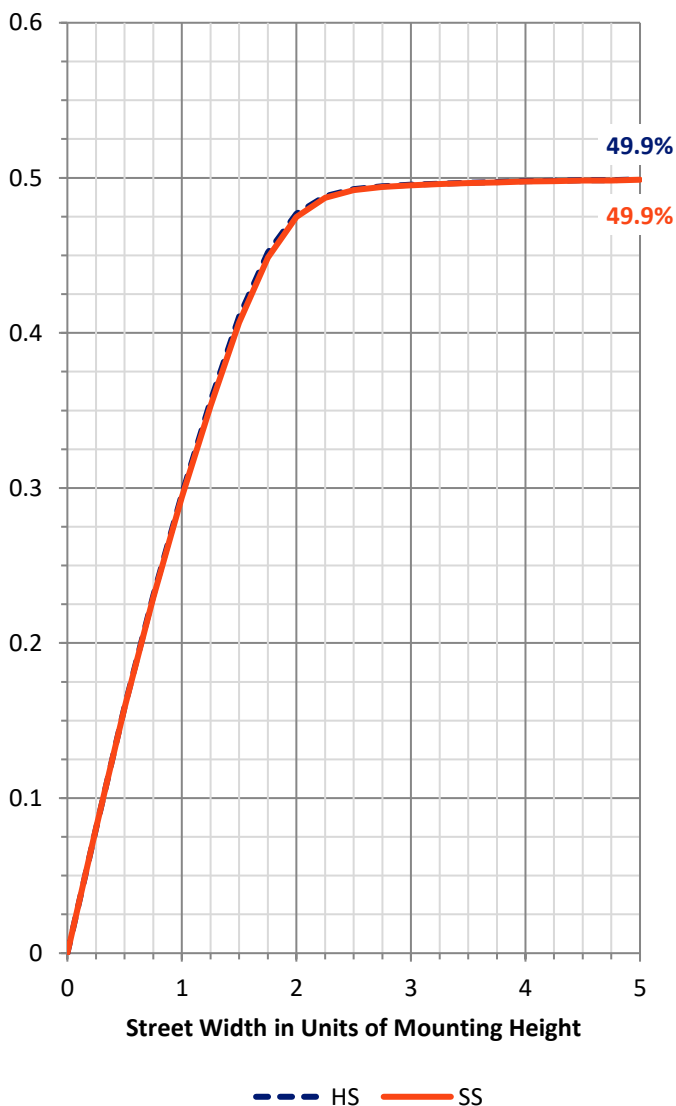
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12267.9	0.0	12267.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12244.6	0.0	12244.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	24512.5	0.0	24512.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.0	1.2
10°-20°	908.9	3.7
20°-30°	1708.1	7.0
30°-40°	2817.0	11.5
40°-50°	4405.5	18.0
50°-60°	7118.3	29.0
60°-70°	6409.6	26.1
70°-80°	759.2	3.1
80°-90°	103.9	0.4
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°	24512.5	100.0
0°-180°	24512.5	100.0

Coefficient of Utilization



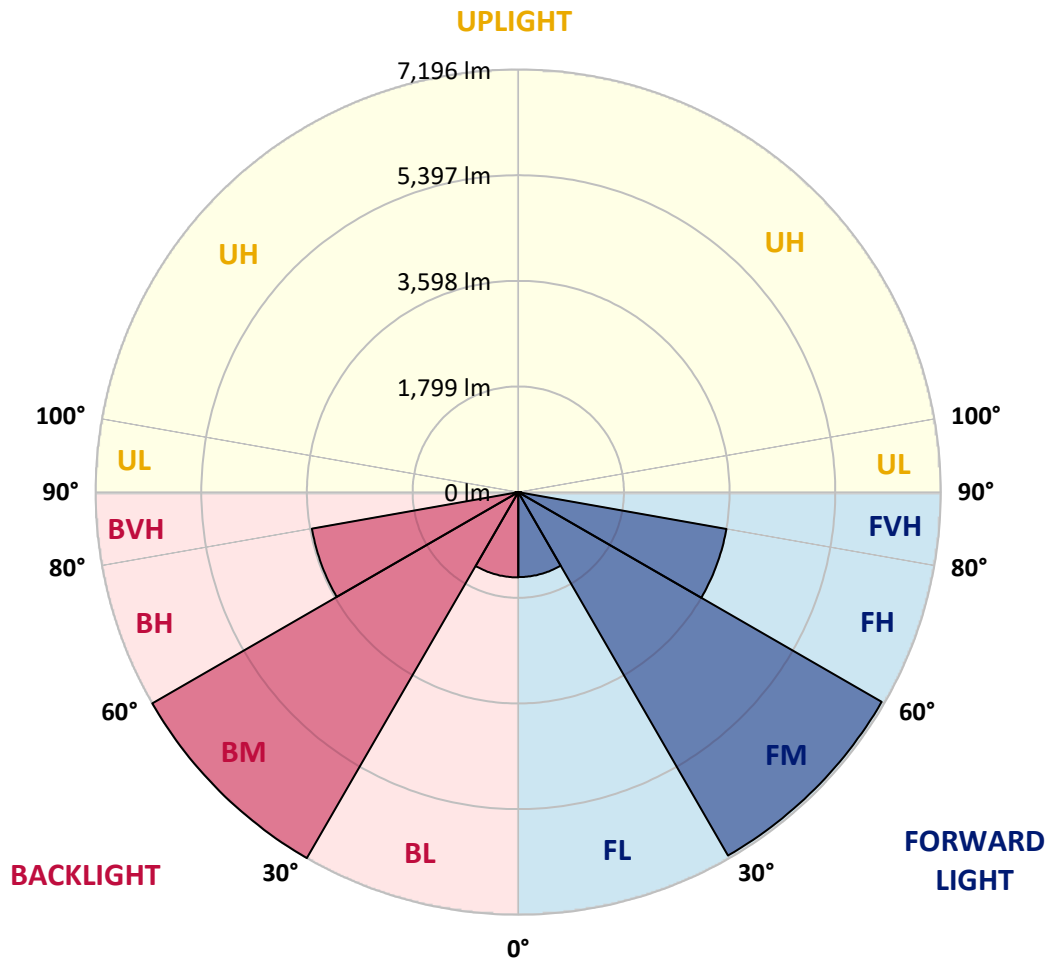
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1446.7	5.9			
FM (30°-60°)	7144.6	29.1			
FH (60°-80°)	3599.9	14.7			G2/5000
FVH (80°-90°)	53.3	0.2			G1/100
BL (0°-30°)	1452.3	5.9	B3/2500		
BM (30°-60°)	7196.2	29.4	B4/8500		
BH (60°-80°)	3568.9	14.6	B4/5000		G2/5000
BVH (80°-90°)	50.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2869.9	2869.9	2869.9	2869.9	2869.9	2869.9	2869.9	2869.9	2869.9	2869.9	2869.9
2.5°	2836.2	2841.8	2892.4	2872.7	2889.6	2858.7	2881.2	2928.9	2872.7	2914.9	2928.9
5°	2867.1	2875.5	2875.5	2895.2	2906.4	2900.8	2914.9	2895.2	2948.6	2926.1	2959.9
7.5°	2979.5	2965.5	2943.0	2959.9	2962.7	2976.7	2990.8	3016.1	3007.6	2988.0	3021.7
10°	2999.2	2988.0	3021.7	3024.5	3010.5	2999.2	3013.3	3013.3	3038.6	3044.2	3044.2
12.5°	3032.9	3044.2	3041.4	3063.9	3066.7	3058.2	3080.7	3122.9	3111.6	3120.1	3100.4
15°	3162.2	3148.2	3145.4	3167.9	3204.4	3151.0	3190.3	3187.5	3176.3	3193.2	3148.2
17.5°	3274.7	3229.7	3249.4	3285.9	3271.9	3283.1	3333.7	3288.7	3300.0	3280.3	3266.2
20°	3373.1	3336.5	3339.3	3353.4	3353.4	3387.1	3406.8	3389.9	3378.7	3375.9	3381.5
22.5°	3482.7	3440.5	3443.3	3502.4	3522.0	3510.8	3496.7	3524.8	3530.5	3508.0	3533.3
25°	3564.2	3609.2	3623.2	3651.3	3609.2	3640.1	3628.8	3682.3	3716.0	3671.0	3701.9
27.5°	3777.8	3758.1	3794.7	3791.9	3825.6	3794.7	3814.4	3831.2	3845.3	3848.1	3834.0
30°	3969.0	3977.4	3940.9	4039.2	3960.5	4011.1	4044.9	4053.3	4070.2	4070.2	4028.0
32.5°	4171.3	4154.5	4213.5	4191.0	4177.0	4216.3	4179.8	4295.0	4227.6	4266.9	4219.1
35°	4399.0	4399.0	4421.5	4483.4	4399.0	4373.7	4441.2	4489.0	4489.0	4418.7	4435.6
37.5°	4654.8	4632.3	4660.4	4739.1	4674.5	4590.2	4713.8	4733.5	4719.5	4699.8	4666.1
40°	4834.7	4829.1	4885.3	4989.3	4896.6	4879.7	4902.2	4955.6	4972.4	4992.1	4947.1
42.5°	5138.3	5163.6	5326.6	5301.3	5225.4	5166.4	5160.8	5360.3	5312.6	5262.0	5236.7
45°	5588.0	5565.5	5649.9	5652.7	5554.3	5425.0	5453.1	5635.8	5717.3	5604.9	5647.1
47.5°	5945.0	5956.3	6015.3	6136.2	5908.5	5773.5	5877.5	6172.7	6147.4	6105.2	6144.6
50°	6422.9	6473.5	6659.0	6616.8	6414.4	6248.6	6476.3	6754.5	6785.5	6630.9	6602.8
52.5°	7083.4	7162.1	7263.3	7297.0	7103.1	7044.1	7058.1	7403.9	7328.0	7179.0	7083.4
55°	7662.5	7699.0	7884.5	8162.8	8148.7	7864.8	8027.9	8157.2	7848.0	7541.6	7566.9
57.5°	7909.8	7926.7	8443.9	9000.4	9332.1	9396.8	9211.3	8775.6	8039.1	7448.8	7412.3
60°	7294.2	7454.5	8078.5	9334.9	10850.0	11597.7	10363.7	8845.8	7592.2	6875.4	6822.0
62.5°	5829.8	5838.2	6765.8	8671.6	11794.5	13753.6	10805.0	8185.3	6400.4	5588.0	5374.4
64°	4151.7	4230.4	5295.7	7676.5	11597.7	14630.6	10751.6	7322.3	5276.0	4123.6	3974.6
65°	2979.5	3089.2	4117.9	6664.6	11136.7	14526.6	10591.4	6580.3	4266.9	3148.2	2996.4
67.5°	1096.2	1141.2	1616.3	3333.7	7997.0	12379.1	8393.3	3617.6	1874.9	1335.2	1200.2
70°	508.8	511.6	598.7	1101.9	3496.7	8278.0	4005.5	1357.7	705.5	559.4	520.0
72.5°	373.8	382.3	418.8	508.8	1028.8	3505.2	1315.5	556.6	413.2	365.4	357.0
75°	303.6	309.2	320.4	368.2	475.0	938.8	534.1	385.1	328.9	295.1	283.9
77.5°	233.3	233.3	258.6	281.1	314.8	438.5	354.2	306.4	267.0	233.3	224.9
80°	168.7	171.5	202.4	219.2	213.6	289.5	255.8	253.0	219.2	182.7	168.7
82.5°	98.4	106.8	146.2	157.4	151.8	171.5	185.5	196.8	171.5	126.5	115.2
85°	56.2	59.0	84.3	87.1	87.1	81.5	106.8	118.1	115.2	78.7	70.3
87.5°	16.9	16.9	22.5	22.5	25.3	28.1	42.2	50.6	56.2	39.4	36.5
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°	136°	145°	155°	165°	175°	180°
0°	2869.9	2869.9	2869.9	2869.9	2869.9	2869.9	2869.9	2869.9	2869.9	2869.9	2869.9
2.5°	2914.9	2872.7	2875.5	2886.8	2850.2	2864.3	2906.4	2875.5	2867.1	2850.2	2841.8
5°	2900.8	2945.8	2928.9	2934.6	2926.1	2886.8	2881.2	2906.4	2920.5	2895.2	2945.8
7.5°	2999.2	2979.5	2957.0	2965.5	2945.8	2979.5	3002.0	2951.4	2976.7	2962.7	2934.6
10°	3055.4	3018.9	3035.8	3030.1	3016.1	3049.8	3027.3	3021.7	2999.2	2968.3	3013.3
12.5°	3075.1	3117.3	3145.4	3097.6	3106.0	3089.2	3075.1	3075.1	3049.8	3041.4	3049.8
15°	3162.2	3198.8	3187.5	3224.1	3176.3	3193.2	3210.0	3167.9	3190.3	3128.5	3176.3
17.5°	3322.5	3291.5	3330.9	3283.1	3300.0	3333.7	3280.3	3280.3	3297.2	3263.4	3221.3
20°	3423.7	3409.6	3395.5	3398.4	3370.2	3401.2	3384.3	3375.9	3350.6	3361.8	3384.3
22.5°	3519.2	3499.5	3505.2	3513.6	3533.3	3519.2	3510.8	3519.2	3457.4	3513.6	3434.9
25°	3637.3	3690.7	3673.8	3710.4	3654.1	3690.7	3687.9	3634.5	3668.2	3645.7	3628.8
27.5°	3834.0	3805.9	3831.2	3786.3	3825.6	3828.4	3794.7	3884.6	3845.3	3839.7	3828.4
30°	4087.0	4067.3	4050.5	4025.2	4056.1	4030.8	4058.9	4067.3	4030.8	4002.7	3949.3
32.5°	4230.4	4283.8	4303.5	4241.6	4244.4	4258.5	4233.2	4207.9	4230.4	4238.8	4230.4
35°	4432.8	4483.4	4494.6	4446.8	4421.5	4491.8	4441.2	4525.5	4452.4	4455.2	4379.4
37.5°	4668.9	4682.9	4778.5	4725.1	4702.6	4668.9	4761.6	4750.4	4767.3	4632.3	4699.8
40°	4935.9	4986.5	5039.9	4905.0	4902.2	4933.1	4927.5	4992.1	4961.2	4941.5	4893.7
42.5°	5228.2	5335.0	5343.5	5253.5	5197.3	5191.7	5219.8	5363.2	5366.0	5236.7	5180.5
45°	5616.1	5734.2	5703.3	5529.0	5467.2	5458.7	5596.5	5658.3	5711.7	5661.1	5613.3
47.5°	6099.6	6178.3	6155.8	5995.6	5796.0	5852.3	5987.2	6181.1	6124.9	6057.4	6001.2
50°	6616.8	6709.6	6661.8	6501.6	6310.4	6310.4	6476.3	6723.6	6706.8	6574.6	6524.1
52.5°	7190.2	7325.2	7434.8	7207.1	7046.9	7072.2	7333.6	7423.5	7381.4	7288.6	7246.4
55°	7617.5	7876.1	8101.0	8112.2	8120.6	8117.8	8185.3	8275.2	7974.5	7825.5	7673.7
57.5°	7513.5	8002.6	8772.8	9295.6	9450.2	9531.7	9509.2	9093.2	8382.0	7893.0	7943.5
60°	6771.4	7569.7	8812.1	10490.2	11614.6	11502.1	11091.7	9447.4	8157.2	7330.8	7226.8
62.5°	5402.5	6363.8	8151.6	10827.5	13925.1	13891.4	11743.9	8629.4	6796.7	5751.1	5686.4
64°	4070.2	5082.1	7271.7	10740.4	14734.6	14768.4	11578.0	7623.1	5318.2	4070.2	3971.8
65°	3114.5	4053.3	6408.8	10560.5	14560.4	14580.0	11117.0	6583.1	4042.0	2889.6	2782.8
67.5°	1239.6	1725.9	3477.1	8008.2	12502.8	12449.4	7932.3	3184.7	1546.0	1006.3	986.6
70°	528.4	657.7	1219.9	3794.7	8370.8	8216.2	3415.2	1034.4	573.4	480.7	477.8
72.5°	362.6	402.0	522.8	1172.1	3479.9	3398.4	972.6	480.7	390.7	359.8	359.8
75°	292.3	320.4	379.5	491.9	922.0	888.2	458.2	354.2	312.0	289.5	286.7
77.5°	227.7	255.8	298.0	340.1	421.6	418.8	306.4	267.0	241.7	224.9	219.2
80°	179.9	208.0	236.1	241.7	275.5	269.8	208.0	210.8	196.8	163.0	160.2
82.5°	123.7	168.7	188.3	171.5	163.0	163.0	149.0	149.0	137.7	101.2	92.8
85°	75.9	112.4	118.1	101.2	75.9	75.9	81.5	78.7	73.1	53.4	50.6
87.5°	39.4	53.4	47.8	39.4	25.3	25.3	22.5	16.9	16.9	14.1	14.1
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)