

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: P478796

Luminaire Tested: **IFLD-S-SA6B-722-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478796
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-722-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24522.9 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

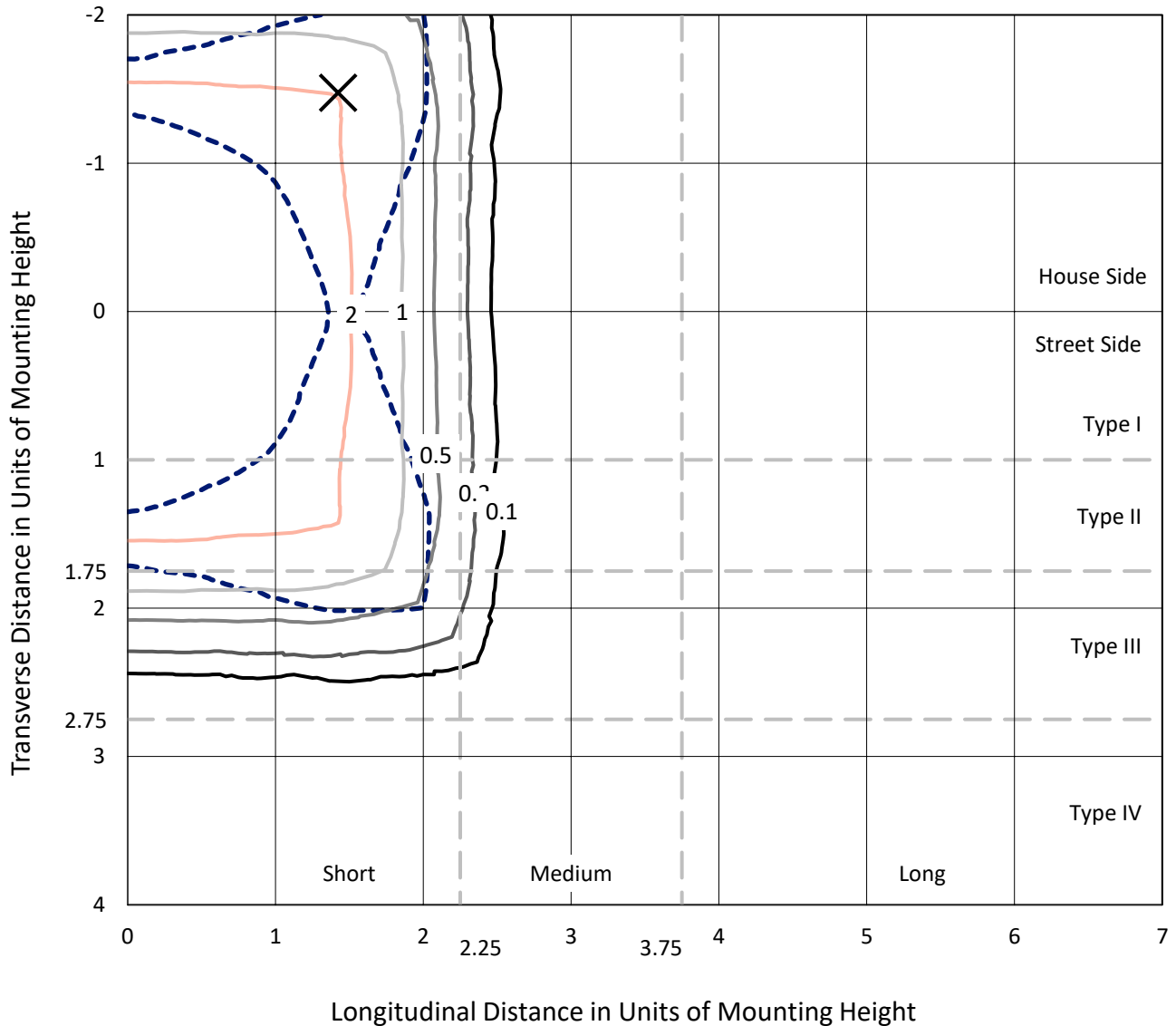
Input Watts (W): 244.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

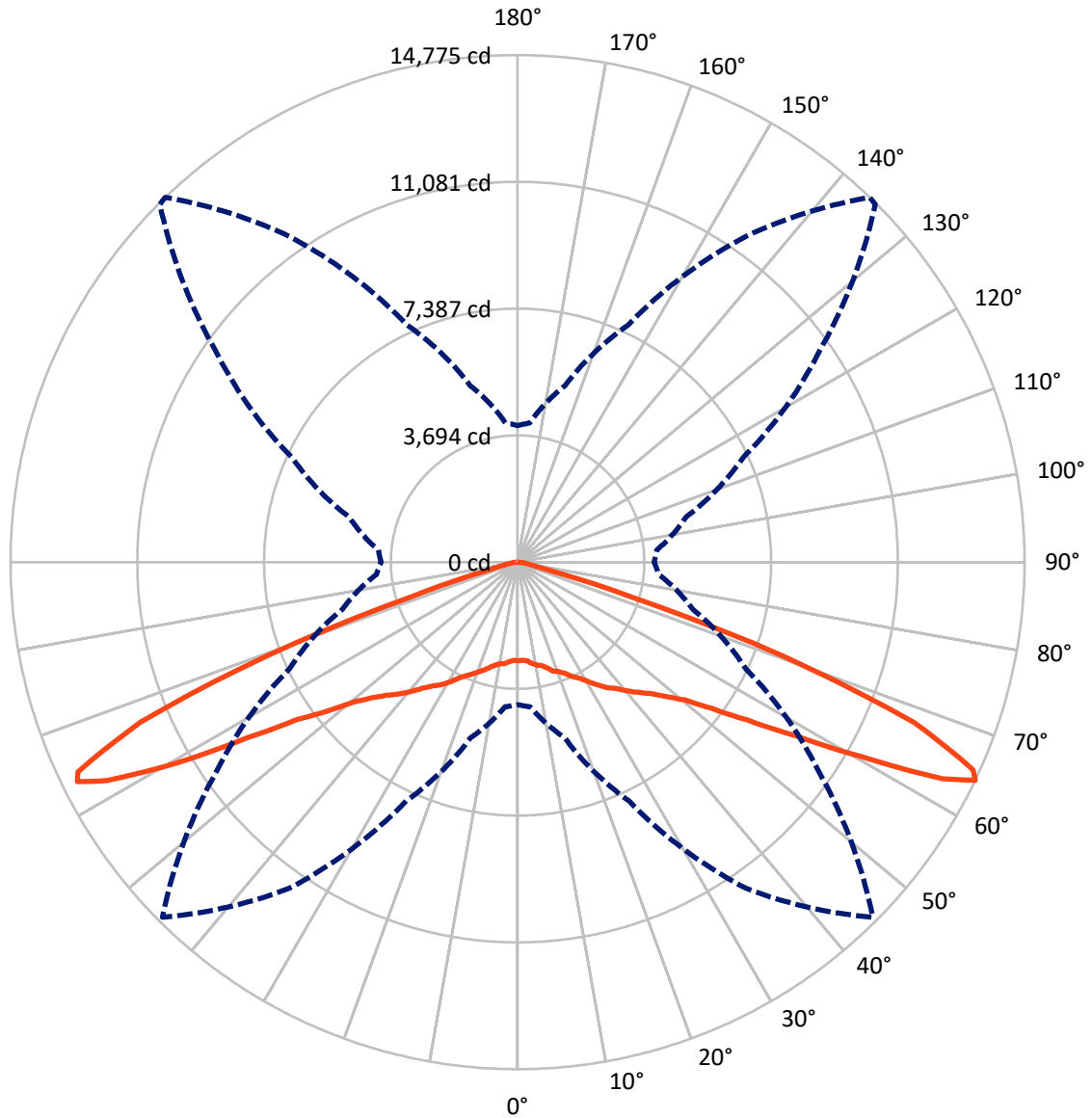
× Max cd
 - - - 1/2 Max cd



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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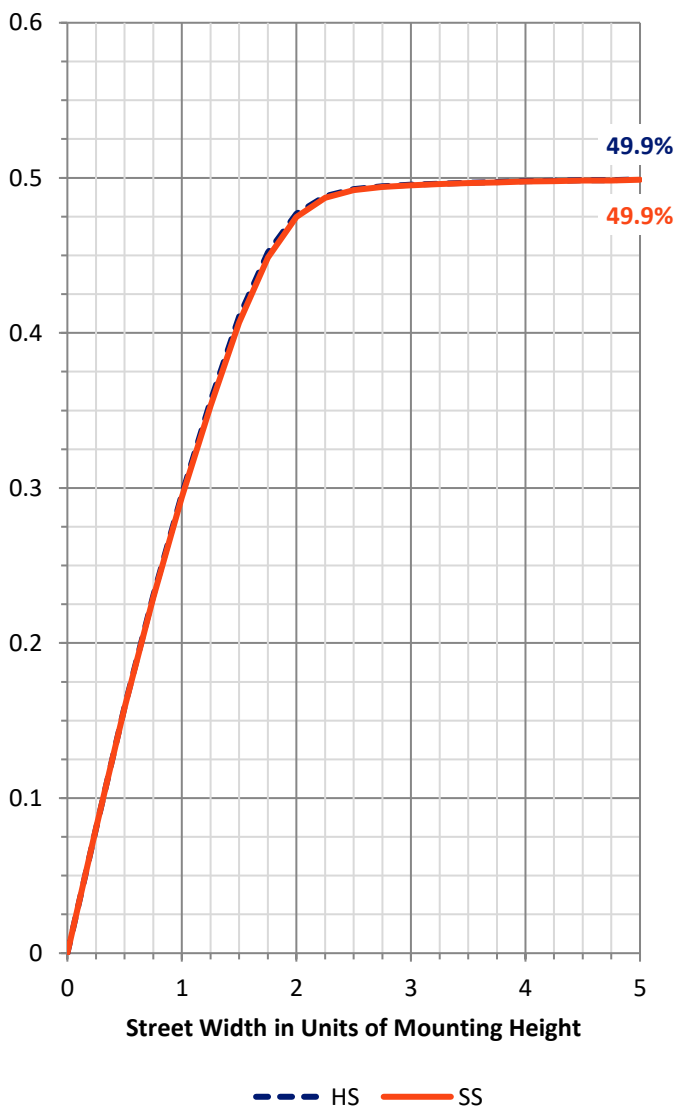
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12273.1	0.0	12273.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12249.8	0.0	12249.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	24522.9	0.0	24522.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.1	1.2
10°-20°	909.2	3.7
20°-30°	1708.8	7.0
30°-40°	2818.2	11.5
40°-50°	4407.4	18.0
50°-60°	7121.3	29.0
60°-70°	6412.3	26.1
70°-80°	759.6	3.1
80°-90°	104.0	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°	24522.9	100.0
0°-180°	24522.9	100.0

Coefficient of Utilization



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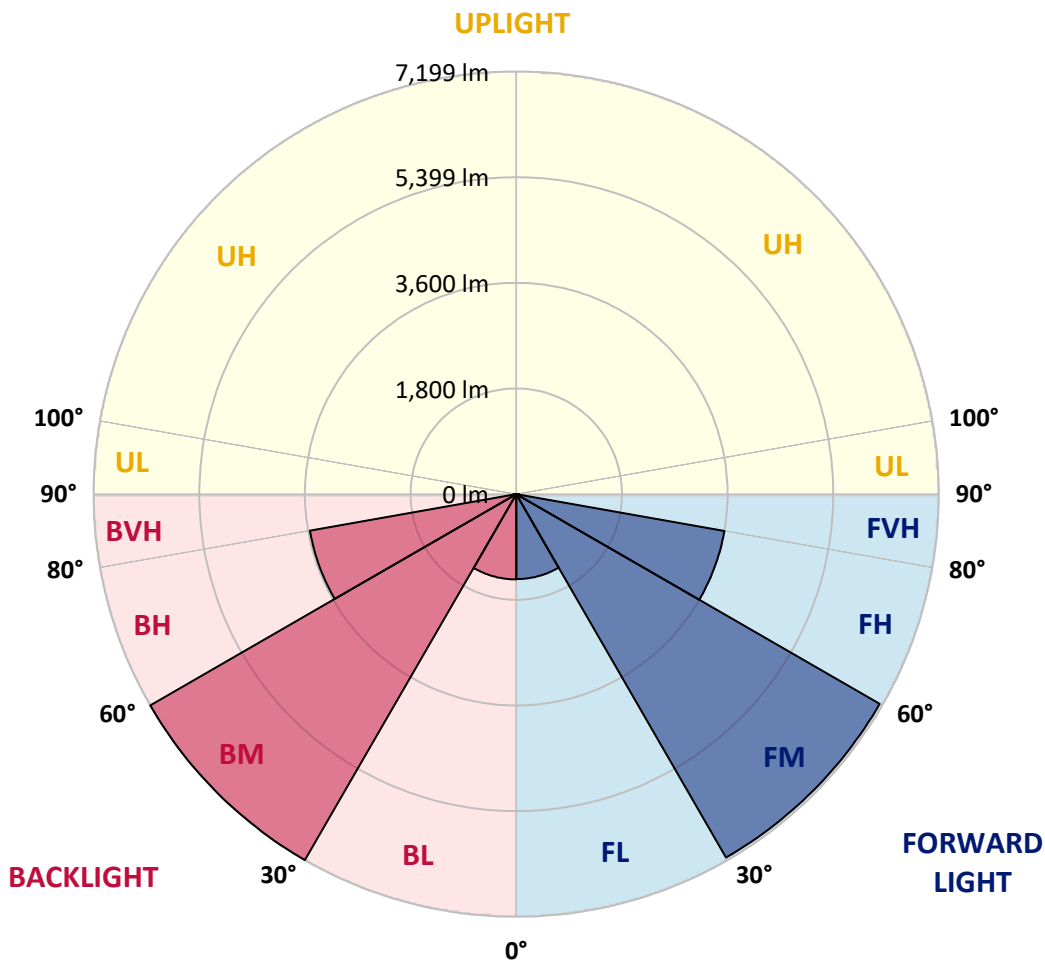
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1447.3	5.9			
FM (30°-60°)	7147.7	29.1			
FH (60°-80°)	3601.5	14.7			G2/5000
FVH (80°-90°)	53.3	0.2			G1/100
BL (0°-30°)	1452.9	5.9	B3/2500		
BM (30°-60°)	7199.2	29.4	B4/8500		
BH (60°-80°)	3570.4	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°	2871.1	2871.1	2871.1	2871.1	2871.1	2871.1	2871.1	2871.1	2871.1	2871.1	2871.1
2.5°	2837.4	2843.0	2893.6	2873.9	2890.8	2859.9	2882.4	2930.2	2873.9	2916.1	2930.2
5°	2868.3	2876.8	2876.8	2896.4	2907.7	2902.1	2916.1	2896.4	2949.9	2927.4	2961.1
7.5°	2980.8	2966.7	2944.2	2961.1	2963.9	2978.0	2992.0	3017.4	3008.9	2989.2	3023.0
10°	3000.5	2989.2	3023.0	3025.8	3011.7	3000.5	3014.5	3014.5	3039.9	3045.5	3045.5
12.5°	3034.2	3045.5	3042.7	3065.2	3068.0	3059.5	3082.0	3124.2	3113.0	3121.4	3101.7
15°	3163.6	3149.5	3146.7	3169.2	3205.8	3152.3	3191.7	3188.9	3177.6	3194.5	3149.5
17.5°	3276.1	3231.1	3250.8	3287.3	3273.3	3284.5	3335.1	3290.1	3301.4	3281.7	3267.6
20°	3374.5	3337.9	3340.7	3354.8	3354.8	3388.5	3408.2	3391.4	3380.1	3377.3	3382.9
22.5°	3484.2	3442.0	3444.8	3503.8	3523.5	3512.3	3498.2	3526.3	3532.0	3509.5	3534.8
25°	3565.7	3610.7	3624.8	3652.9	3610.7	3641.6	3630.4	3683.8	3717.6	3672.6	3703.5
27.5°	3779.4	3759.7	3796.3	3793.5	3827.2	3796.3	3816.0	3832.9	3846.9	3849.7	3835.7
30°	3970.6	3979.1	3942.5	4040.9	3962.2	4012.8	4046.6	4055.0	4071.9	4071.9	4029.7
32.5°	4173.1	4156.2	4215.3	4192.8	4178.7	4218.1	4181.6	4296.8	4229.4	4268.7	4220.9
35°	4400.9	4400.9	4423.4	4485.3	4400.9	4375.6	4443.1	4490.9	4490.9	4420.6	4437.5
37.5°	4656.8	4634.3	4662.4	4741.2	4676.5	4592.1	4715.8	4735.5	4721.5	4701.8	4668.0
40°	4836.8	4831.1	4887.4	4991.4	4898.6	4881.8	4904.3	4957.7	4974.6	4994.2	4949.2
42.5°	5140.5	5165.8	5328.9	5303.6	5227.6	5168.6	5163.0	5362.6	5314.8	5264.2	5238.9
45°	5590.4	5567.9	5652.3	5655.1	5556.7	5427.3	5455.4	5638.2	5719.8	5607.3	5649.5
47.5°	5947.5	5958.8	6017.8	6138.8	5911.0	5776.0	5880.0	6175.3	6150.0	6107.8	6147.2
50°	6425.6	6476.2	6661.8	6619.6	6417.1	6251.2	6479.0	6757.4	6788.3	6633.7	6605.6
52.5°	7086.4	7165.2	7266.4	7300.1	7106.1	7047.1	7061.1	7407.0	7331.1	7182.0	7086.4
55°	7665.7	7702.3	7887.9	8166.3	8152.2	7868.2	8031.3	8160.6	7851.3	7544.8	7570.1
57.5°	7913.2	7930.0	8447.5	9004.3	9336.1	9400.8	9215.2	8779.3	8042.5	7452.0	7415.4
60°	7297.3	7457.6	8081.9	9338.9	10854.6	11602.6	10368.1	8849.6	7595.4	6878.3	6824.9
62.5°	5832.2	5840.7	6768.7	8675.2	11799.5	13759.5	10809.6	8188.8	6403.1	5590.4	5376.7
64°	4153.4	4232.2	5297.9	7679.8	11602.6	14636.8	10756.2	7325.4	5278.3	4125.3	3976.3
65°	2980.8	3090.5	4119.7	6667.4	11141.4	14532.8	10595.9	6583.1	4268.7	3149.5	2997.7
67.5°	1096.7	1141.7	1616.9	3335.1	8000.3	12384.4	8396.8	3619.1	1875.7	1335.7	1200.8
70°	509.0	511.8	599.0	1102.3	3498.2	8281.6	4007.2	1358.2	705.8	559.6	520.2
72.5°	374.0	382.4	419.0	509.0	1029.2	3506.7	1316.0	556.8	413.4	365.6	357.1
75°	303.7	309.3	320.6	368.4	475.2	939.2	534.3	385.3	329.0	295.3	284.0
77.5°	233.4	233.4	258.7	281.2	315.0	438.7	354.3	306.5	267.1	233.4	225.0
80°	168.7	171.5	202.5	219.3	213.7	289.6	255.9	253.1	219.3	182.8	168.7
82.5°	98.4	106.9	146.2	157.5	151.9	171.5	185.6	196.8	171.5	126.5	115.3
85°	56.2	59.1	84.4	87.2	87.2	81.6	106.9	118.1	115.3	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	36.6
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°	2871.1	2871.1	2871.1	2871.1	2871.1	2871.1	2871.1	2871.1	2871.1	2871.1	2871.1
2.5°	2916.1	2873.9	2876.8	2888.0	2851.4	2865.5	2907.7	2876.8	2868.3	2851.4	2843.0
5°	2902.1	2947.1	2930.2	2935.8	2927.4	2888.0	2882.4	2907.7	2921.7	2896.4	2947.1
7.5°	3000.5	2980.8	2958.3	2966.7	2947.1	2980.8	3003.3	2952.7	2978.0	2963.9	2935.8
10°	3056.7	3020.2	3037.0	3031.4	3017.4	3051.1	3028.6	3023.0	3000.5	2969.5	3014.5
12.5°	3076.4	3118.6	3146.7	3098.9	3107.3	3090.5	3076.4	3076.4	3051.1	3042.7	3051.1
15°	3163.6	3200.1	3188.9	3225.4	3177.6	3194.5	3211.4	3169.2	3191.7	3129.8	3177.6
17.5°	3323.9	3292.9	3332.3	3284.5	3301.4	3335.1	3281.7	3281.7	3298.6	3264.8	3222.6
20°	3425.1	3411.0	3397.0	3399.8	3371.7	3402.6	3385.7	3377.3	3352.0	3363.2	3385.7
22.5°	3520.7	3501.0	3506.7	3515.1	3534.8	3520.7	3512.3	3520.7	3458.8	3515.1	3436.4
25°	3638.8	3692.3	3675.4	3711.9	3655.7	3692.3	3689.4	3636.0	3669.8	3647.3	3630.4
27.5°	3835.7	3807.5	3832.9	3787.9	3827.2	3830.0	3796.3	3886.3	3846.9	3841.3	3830.0
30°	4088.8	4069.1	4052.2	4026.9	4057.8	4032.5	4060.6	4069.1	4032.5	4004.4	3951.0
32.5°	4232.2	4285.6	4305.3	4243.4	4246.2	4260.3	4235.0	4209.7	4232.2	4240.6	4232.2
35°	4434.6	4485.3	4496.5	4448.7	4423.4	4493.7	4443.1	4527.4	4454.3	4457.1	4381.2
37.5°	4670.9	4684.9	4780.5	4727.1	4704.6	4670.9	4763.7	4752.4	4769.3	4634.3	4701.8
40°	4938.0	4988.6	5042.0	4907.1	4904.3	4935.2	4929.6	4994.2	4963.3	4943.6	4895.8
42.5°	5230.5	5337.3	5345.7	5255.8	5199.5	5193.9	5222.0	5365.4	5368.2	5238.9	5182.6
45°	5618.5	5736.6	5705.7	5531.3	5469.5	5461.0	5598.8	5660.7	5714.1	5663.5	5615.7
47.5°	6102.2	6180.9	6158.4	5998.2	5798.5	5854.7	5989.7	6183.7	6127.5	6060.0	6003.8
50°	6619.6	6712.4	6664.6	6504.3	6313.1	6313.1	6479.0	6726.5	6709.6	6577.4	6526.8
52.5°	7193.3	7328.3	7437.9	7210.2	7049.9	7075.2	7336.7	7426.7	7384.5	7291.7	7249.5
55°	7620.7	7879.4	8104.4	8115.6	8124.1	8121.3	8188.8	8278.7	7977.8	7828.8	7677.0
57.5°	7516.7	8006.0	8776.5	9299.5	9454.2	9535.7	9513.2	9097.1	8385.6	7896.3	7946.9
60°	6774.3	7572.9	8815.8	10494.7	11619.5	11507.0	11096.4	9451.4	8160.6	7333.9	7229.8
62.5°	5404.8	6366.5	8155.0	10832.1	13931.0	13897.3	11748.8	8633.1	6799.6	5753.5	5688.8
64°	4071.9	5084.2	7274.8	10744.9	14740.9	14774.6	11582.9	7626.3	5320.4	4071.9	3973.5
65°	3115.8	4055.0	6411.5	10565.0	14566.5	14586.2	11121.7	6585.9	4043.8	2890.8	2784.0
67.5°	1240.1	1726.6	3478.5	8011.6	12508.1	12454.7	7935.7	3186.1	1546.6	1006.7	987.0
70°	528.7	658.0	1220.4	3796.3	8374.4	8219.7	3416.7	1034.8	573.7	480.9	478.1
72.5°	362.8	402.1	523.0	1172.6	3481.3	3399.8	973.0	480.9	390.9	359.9	359.9
75°	292.5	320.6	379.6	492.1	922.4	888.6	458.4	354.3	312.1	289.6	286.8
77.5°	227.8	255.9	298.1	340.3	421.8	419.0	306.5	267.1	241.8	225.0	219.3
80°	180.0	208.1	236.2	241.8	275.6	270.0	208.1	210.9	196.8	163.1	160.3
82.5°	123.7	168.7	188.4	171.5	163.1	163.1	149.0	149.0	137.8	101.2	92.8
85°	75.9	112.5	118.1	101.2	75.9	75.9	81.6	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)