

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: P478912

Luminaire Tested: **IFLD-S-SA6A-735-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478912
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-735-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

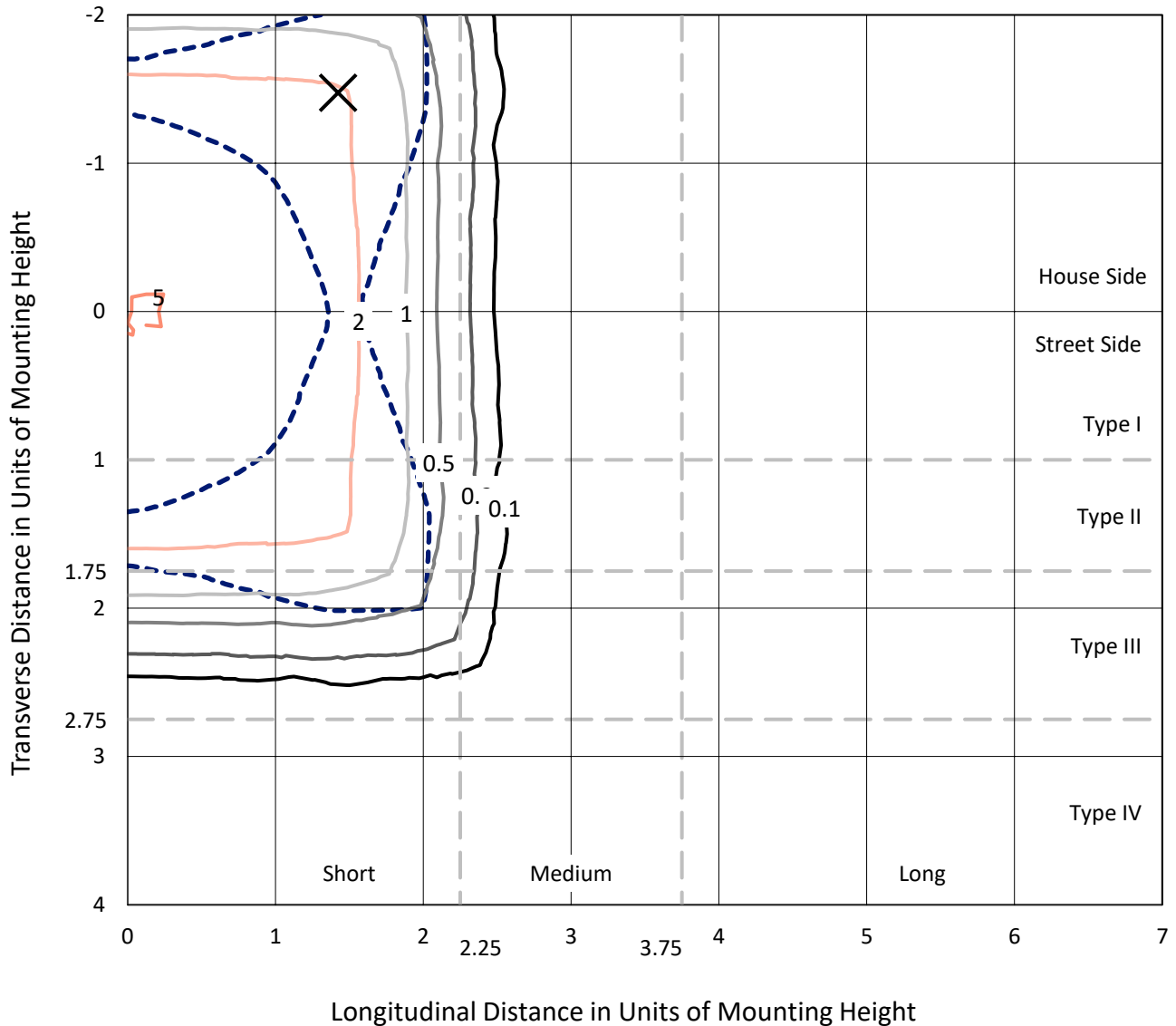
Lumens per Lamp: N/A
Luminaire Lumens: 26550.3 lumens
Efficiency: N/A
Efficacy: 140.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

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

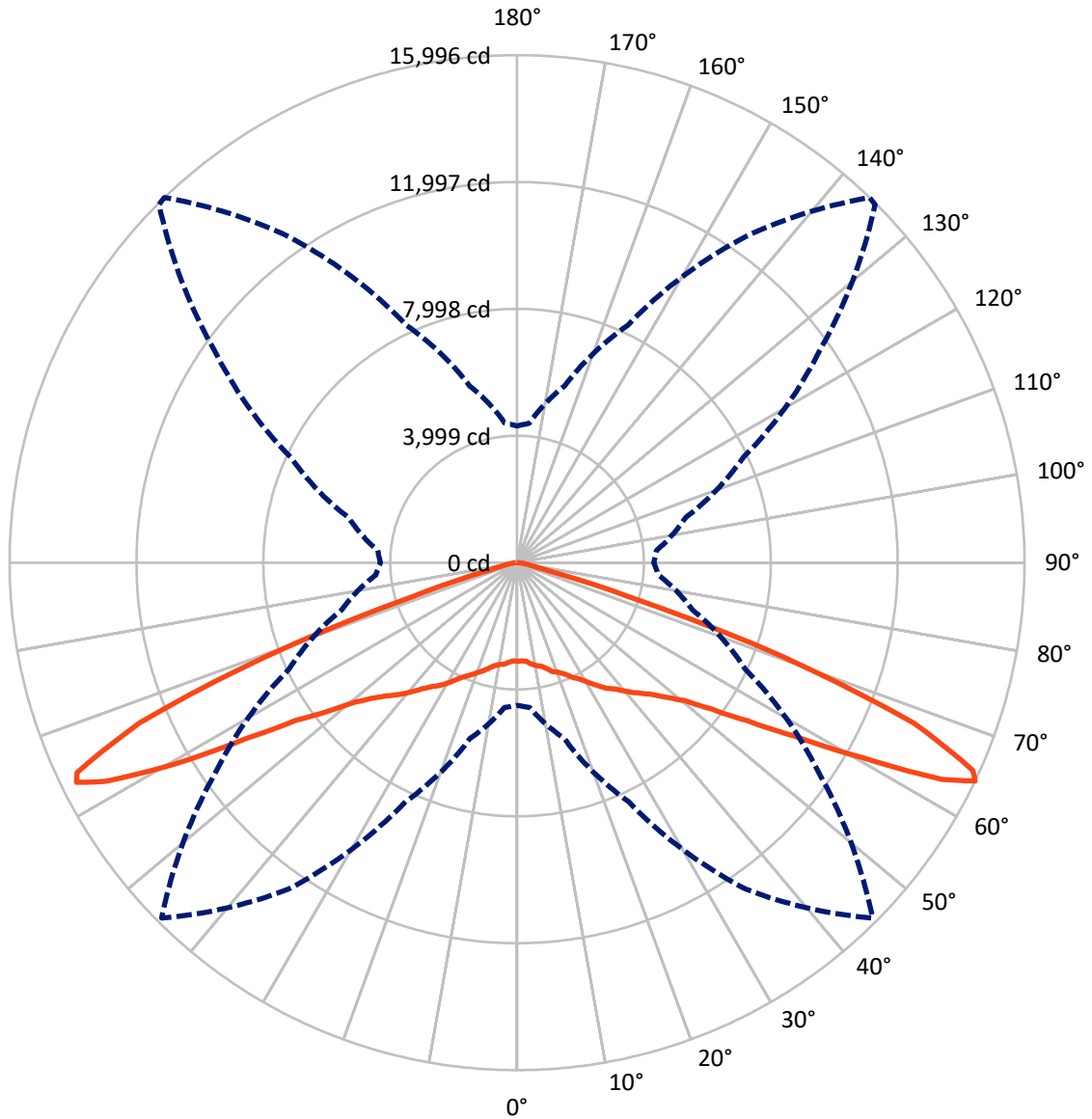
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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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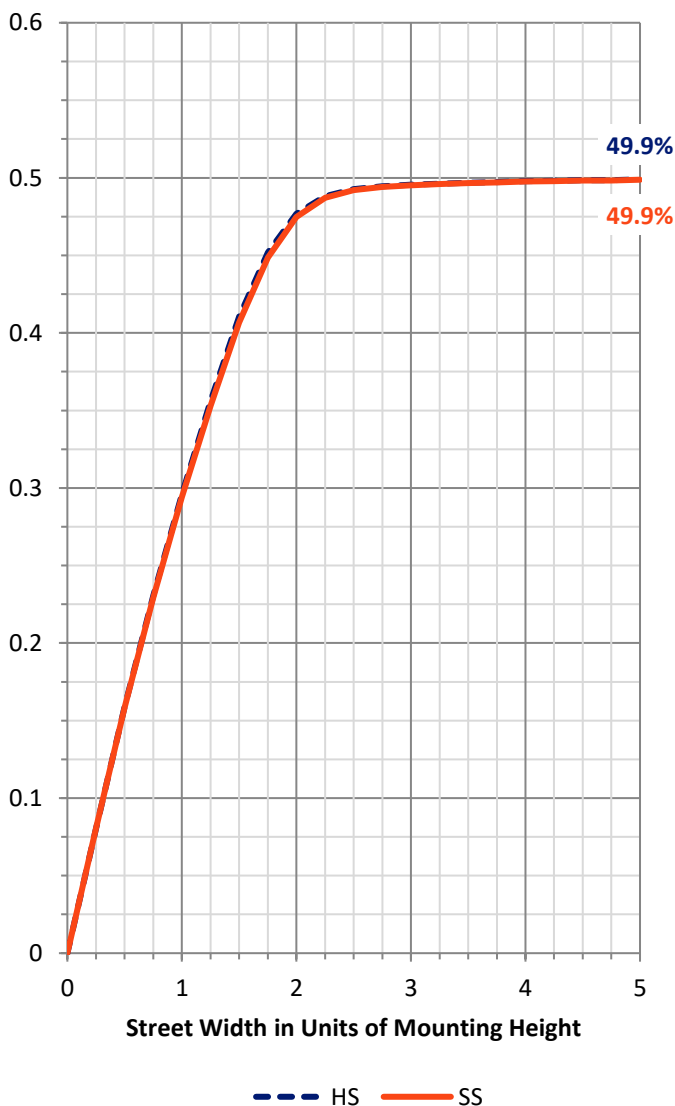
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13287.8	0.0	13287.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13262.5	0.0	13262.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	26550.3	0.0	26550.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.4	1.2
10°-20°	984.4	3.7
20°-30°	1850.1	7.0
30°-40°	3051.1	11.5
40°-50°	4771.8	18.0
50°-60°	7710.1	29.0
60°-70°	6942.4	26.1
70°-80°	822.4	3.1
80°-90°	112.6	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°	26550.3	100.0
0°-180°	26550.3	100.0

Coefficient of Utilization



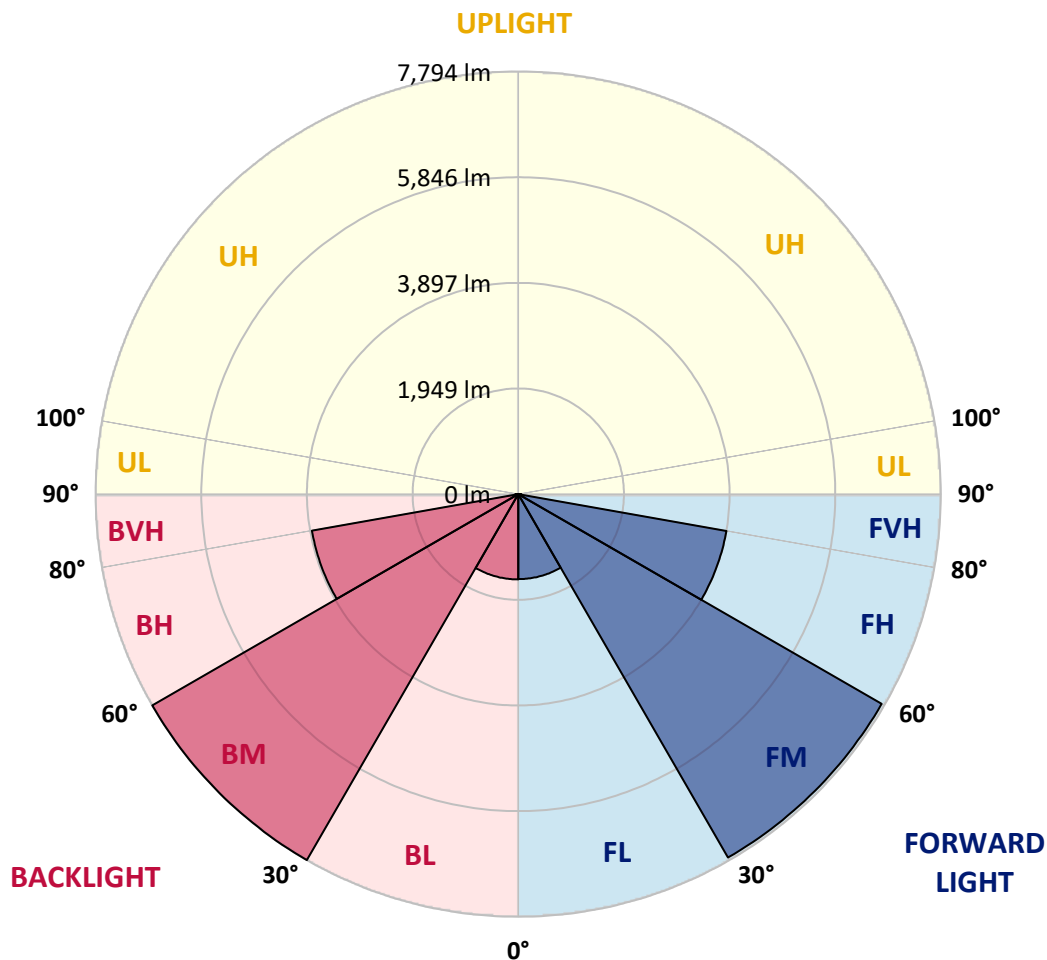
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1567.0	5.9			
FM (30°-60°)	7738.6	29.1			
FH (60°-80°)	3899.2	14.7			G2/5000
FVH (80°-90°)	57.7	0.2			G1/100
BL (0°-30°)	1573.0	5.9	B3/2500		
BM (30°-60°)	7794.4	29.4	B4/8500		
BH (60°-80°)	3865.6	14.6	B4/5000		G2/5000
BVH (80°-90°)	54.8	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°	3108.5	3108.5	3108.5	3108.5	3108.5	3108.5	3108.5	3108.5	3108.5	3108.5	3108.5
2.5°	3072.0	3078.0	3132.8	3111.5	3129.8	3096.3	3120.7	3172.4	3111.5	3157.2	3172.4
5°	3105.4	3114.6	3114.6	3135.9	3148.1	3142.0	3157.2	3135.9	3193.7	3169.4	3205.9
7.5°	3227.2	3212.0	3187.6	3205.9	3209.0	3224.2	3239.4	3266.8	3257.7	3236.4	3272.9
10°	3248.5	3236.4	3272.9	3275.9	3260.7	3248.5	3263.8	3263.8	3291.2	3297.3	3297.3
12.5°	3285.1	3297.3	3294.2	3318.6	3321.6	3312.5	3336.8	3382.5	3370.3	3379.5	3358.1
15°	3425.1	3409.9	3406.9	3431.2	3470.8	3412.9	3455.6	3452.5	3440.3	3458.6	3409.9
17.5°	3546.9	3498.2	3519.5	3559.1	3543.9	3556.0	3610.8	3562.1	3574.3	3553.0	3537.8
20°	3653.5	3613.9	3616.9	3632.2	3632.2	3668.7	3690.0	3671.7	3659.6	3656.5	3662.6
22.5°	3772.2	3726.5	3729.6	3793.5	3814.8	3802.6	3787.4	3817.9	3824.0	3799.6	3827.0
25°	3860.5	3909.2	3924.4	3954.9	3909.2	3942.7	3930.5	3988.4	4024.9	3976.2	4009.7
27.5°	4091.9	4070.6	4110.1	4107.1	4143.6	4110.1	4131.5	4149.7	4164.9	4168.0	4152.8
30°	4298.9	4308.0	4268.5	4375.0	4289.8	4344.6	4381.1	4390.2	4408.5	4408.5	4362.8
32.5°	4518.1	4499.9	4563.8	4539.4	4524.2	4566.8	4527.3	4652.1	4579.0	4621.6	4569.9
35°	4764.7	4764.7	4789.1	4856.1	4764.7	4737.3	4810.4	4862.2	4862.2	4786.0	4804.3
37.5°	5041.8	5017.4	5047.9	5133.1	5063.1	4971.8	5105.7	5127.0	5111.8	5090.5	5054.0
40°	5236.6	5230.5	5291.4	5404.1	5303.6	5285.3	5309.7	5367.5	5385.8	5407.1	5358.4
42.5°	5565.4	5592.8	5769.4	5742.0	5659.8	5595.9	5589.8	5806.0	5754.2	5699.4	5672.0
45°	6052.6	6028.2	6119.6	6122.6	6016.0	5876.0	5906.4	6104.3	6192.6	6070.8	6116.5
47.5°	6439.2	6451.4	6515.3	6646.3	6399.7	6253.5	6366.2	6685.8	6658.4	6612.8	6655.4
50°	6956.8	7011.6	7212.5	7166.9	6947.7	6768.0	7014.7	7316.1	7349.6	7182.1	7151.7
52.5°	7672.3	7757.5	7867.1	7903.7	7693.6	7629.7	7644.9	8019.4	7937.2	7775.8	7672.3
55°	8299.5	8339.0	8540.0	8841.4	8826.2	8518.7	8695.2	8835.3	8500.4	8168.5	8195.9
57.5°	8567.4	8585.6	9145.8	9748.7	10107.9	10177.9	9977.0	9505.1	8707.4	8068.1	8028.5
60°	7900.6	8074.2	8750.0	10111.0	11752.0	12561.8	11225.3	9581.2	8223.3	7447.0	7389.1
62.5°	6314.4	6323.5	7328.2	9392.4	12774.9	14897.0	11703.3	8865.7	6932.4	6052.6	5821.2
64°	4496.8	4582.1	5735.9	8314.7	12561.8	15846.9	11645.4	7931.1	5714.6	4466.4	4305.0
65°	3227.2	3346.0	4460.3	7218.6	12062.5	15734.3	11471.9	7127.3	4621.6	3409.9	3245.5
67.5°	1187.4	1236.1	1750.6	3610.8	8661.8	13408.2	9091.0	3918.3	2030.7	1446.2	1300.0
70°	551.1	554.1	648.5	1193.5	3787.4	8966.2	4338.5	1470.5	764.2	605.9	563.2
72.5°	404.9	414.1	453.6	551.1	1114.3	3796.6	1424.9	602.8	447.5	395.8	386.7
75°	328.8	334.9	347.1	398.8	514.5	1016.9	578.5	417.1	356.2	319.7	307.5
77.5°	252.7	252.7	280.1	304.5	341.0	475.0	383.6	331.9	289.2	252.7	243.6
80°	182.7	185.7	219.2	237.5	231.4	313.6	277.1	274.0	237.5	197.9	182.7
82.5°	106.6	115.7	158.3	170.5	164.4	185.7	200.9	213.1	185.7	137.0	124.8
85°	60.9	63.9	91.3	94.4	94.4	88.3	115.7	127.9	124.8	85.2	76.1
87.5°	18.3	18.3	24.4	24.4	27.4	30.4	45.7	54.8	60.9	42.6	39.6
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°	3108.5	3108.5	3108.5	3108.5	3108.5	3108.5	3108.5	3108.5	3108.5	3108.5	3108.5
2.5°	3157.2	3111.5	3114.6	3126.8	3087.2	3102.4	3148.1	3114.6	3105.4	3087.2	3078.0
5°	3142.0	3190.7	3172.4	3178.5	3169.4	3126.8	3120.7	3148.1	3163.3	3135.9	3190.7
7.5°	3248.5	3227.2	3202.9	3212.0	3190.7	3227.2	3251.6	3196.8	3224.2	3209.0	3178.5
10°	3309.4	3269.9	3288.1	3282.0	3266.8	3303.3	3279.0	3272.9	3248.5	3215.0	3263.8
12.5°	3330.7	3376.4	3406.9	3355.1	3364.2	3346.0	3330.7	3330.7	3303.3	3294.2	3303.3
15°	3425.1	3464.7	3452.5	3492.1	3440.3	3458.6	3476.9	3431.2	3455.6	3388.6	3440.3
17.5°	3598.7	3565.2	3607.8	3556.0	3574.3	3610.8	3553.0	3553.0	3571.3	3534.7	3489.1
20°	3708.3	3693.0	3677.8	3680.9	3650.4	3683.9	3665.6	3656.5	3629.1	3641.3	3665.6
22.5°	3811.8	3790.5	3796.6	3805.7	3827.0	3811.8	3802.6	3811.8	3744.8	3805.7	3720.4
25°	3939.7	3997.5	3979.2	4018.8	3957.9	3997.5	3994.5	3936.6	3973.1	3948.8	3930.5
27.5°	4152.8	4122.3	4149.7	4101.0	4143.6	4146.7	4110.1	4207.6	4164.9	4158.9	4146.7
30°	4426.8	4405.5	4387.2	4359.8	4393.3	4365.9	4396.3	4405.5	4365.9	4335.4	4277.6
32.5°	4582.1	4639.9	4661.2	4594.2	4597.3	4612.5	4585.1	4557.7	4582.1	4591.2	4582.1
35°	4801.3	4856.1	4868.2	4816.5	4789.1	4865.2	4810.4	4901.7	4822.6	4825.6	4743.4
37.5°	5057.0	5072.2	5175.7	5117.9	5093.5	5057.0	5157.5	5145.3	5163.6	5017.4	5090.5
40°	5346.2	5401.0	5458.9	5312.7	5309.7	5343.2	5337.1	5407.1	5373.6	5352.3	5300.6
42.5°	5662.9	5778.6	5787.7	5690.3	5629.4	5623.3	5653.7	5809.0	5812.1	5672.0	5611.1
45°	6083.0	6210.9	6177.4	5988.6	5921.7	5912.5	6061.7	6128.7	6186.5	6131.7	6080.0
47.5°	6606.7	6691.9	6667.6	6494.0	6277.9	6338.8	6484.9	6695.0	6634.1	6561.0	6500.1
50°	7166.9	7267.3	7215.6	7042.1	6835.0	6835.0	7014.7	7282.6	7264.3	7121.2	7066.4
52.5°	7788.0	7934.1	8052.8	7806.2	7632.7	7660.1	7943.2	8040.7	7995.0	7894.5	7848.9
55°	8250.7	8530.8	8774.4	8786.6	8795.7	8792.7	8865.7	8963.2	8637.4	8476.0	8311.6
57.5°	8138.1	8667.8	9502.1	10068.3	10235.8	10324.1	10299.7	9849.1	9078.9	8549.1	8603.9
60°	7334.3	8199.0	9544.7	11362.3	12580.1	12458.3	12013.8	10232.7	8835.3	7940.2	7827.5
62.5°	5851.6	6892.9	8829.2	11727.6	15082.7	15046.2	12720.1	9346.8	7361.7	6229.2	6159.1
64°	4408.5	5504.6	7876.3	11633.2	15959.6	15996.1	12540.5	8256.8	5760.3	4408.5	4302.0
65°	3373.4	4390.2	6941.6	11438.4	15770.8	15792.1	12041.2	7130.3	4378.1	3129.8	3014.1
67.5°	1342.6	1869.4	3766.1	8673.9	13542.2	13484.3	8591.7	3449.5	1674.5	1090.0	1068.6
70°	572.4	712.4	1321.3	4110.1	9066.7	8899.2	3699.1	1120.4	621.1	520.6	517.6
72.5°	392.7	435.4	566.3	1269.6	3769.2	3680.9	1053.4	520.6	423.2	389.7	389.7
75°	316.6	347.1	411.0	532.8	998.6	962.1	496.3	383.6	337.9	313.6	310.5
77.5°	246.6	277.1	322.7	368.4	456.7	453.6	331.9	289.2	261.8	243.6	237.5
80°	194.9	225.3	255.7	261.8	298.4	292.3	225.3	228.3	213.1	176.6	173.5
82.5°	134.0	182.7	204.0	185.7	176.6	176.6	161.4	161.4	149.2	109.6	100.5
85°	82.2	121.8	127.9	109.6	82.2	82.2	88.3	85.2	79.2	57.8	54.8
87.5°	42.6	57.8	51.8	42.6	27.4	27.4	24.4	18.3	18.3	15.2	15.2
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)