

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: P481241

Luminaire Tested: **IFLD-S-SA3E-735-U-RW**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481241  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3E-735-U-RW  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens  
Light Source: (48) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

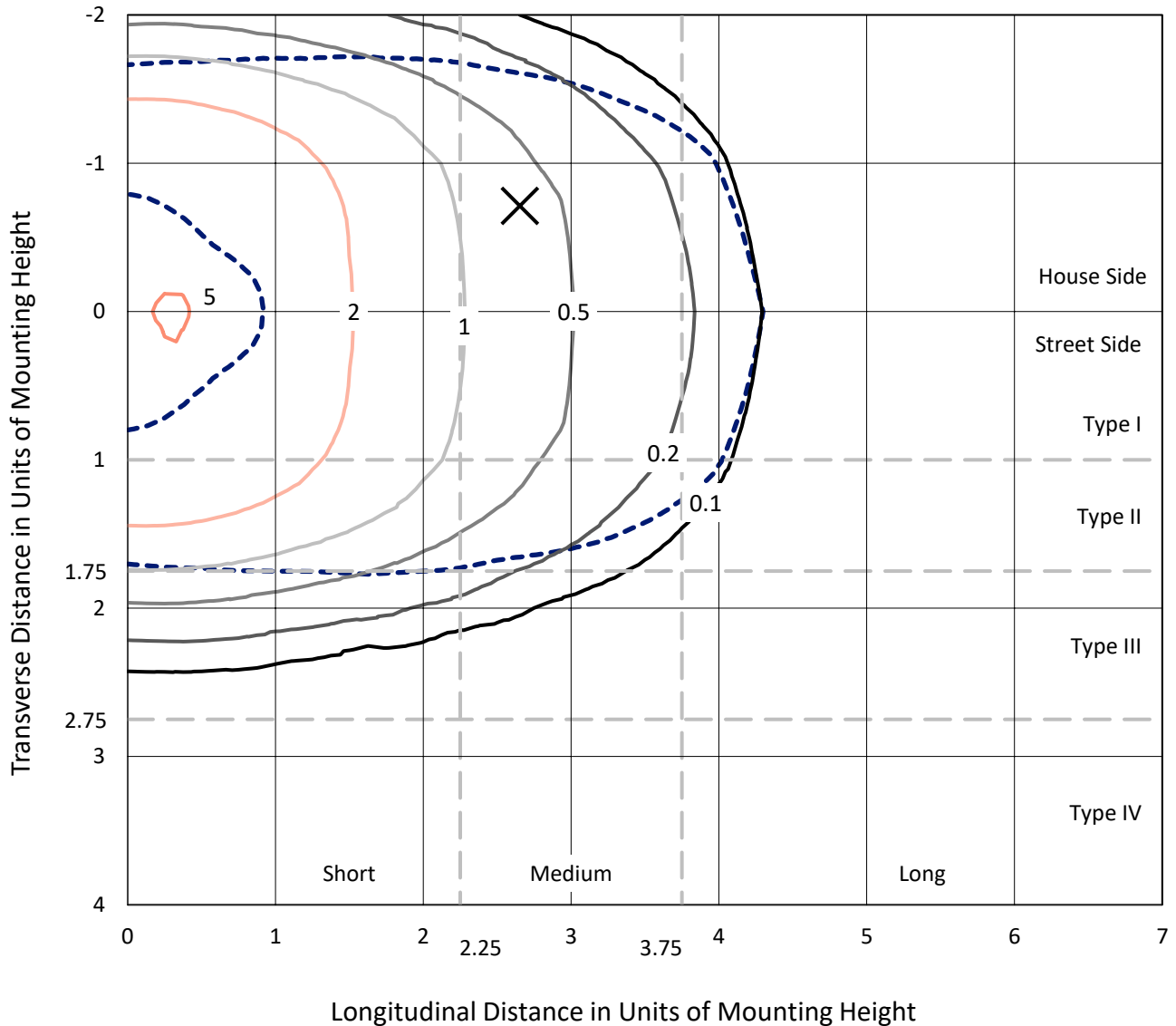
Lumens per Lamp: N/A  
Luminaire Lumens: 27402.6 lumens  
Efficiency: N/A  
Efficacy: 118.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4

Input Watts (W): 232.1  
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

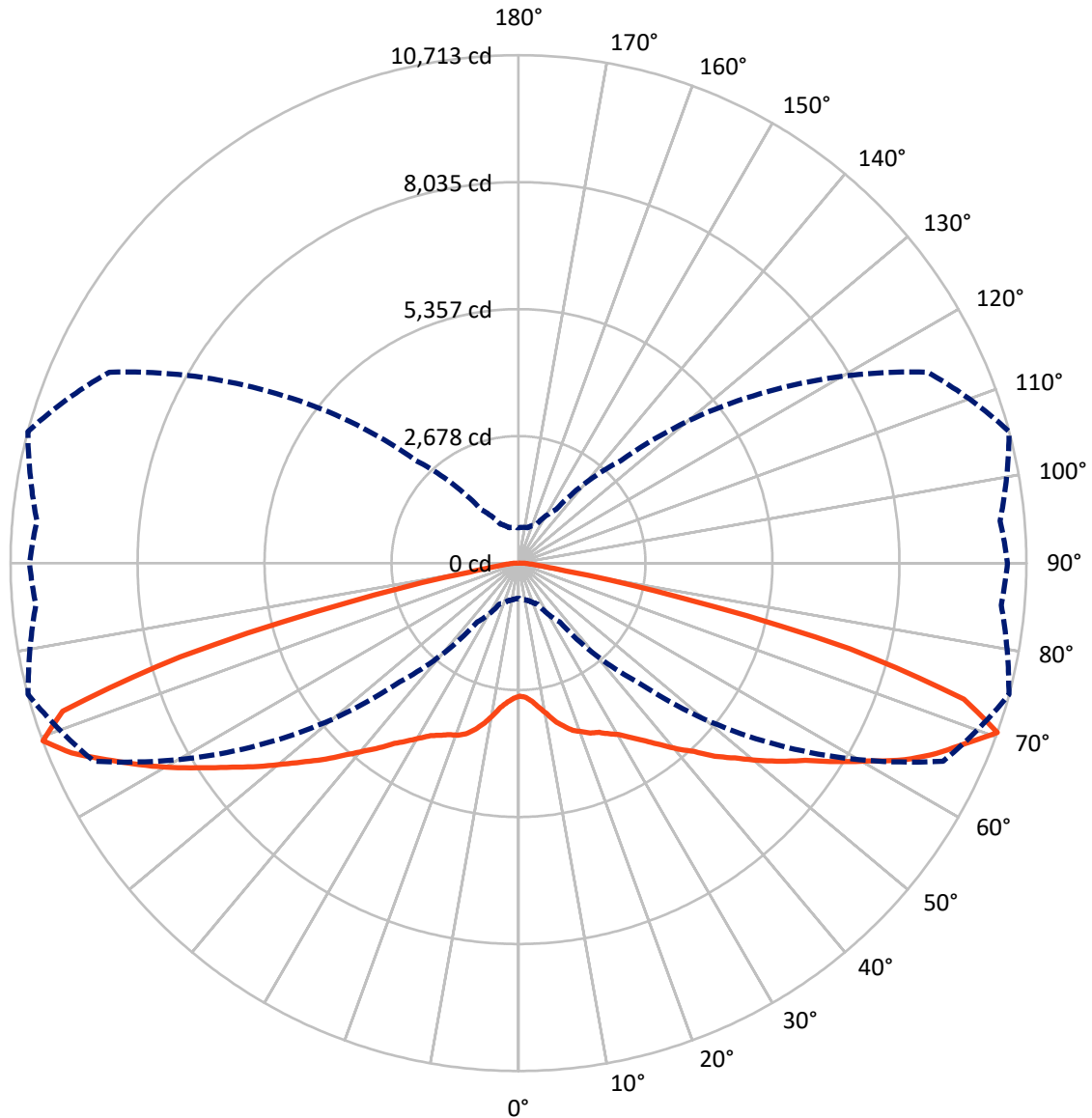
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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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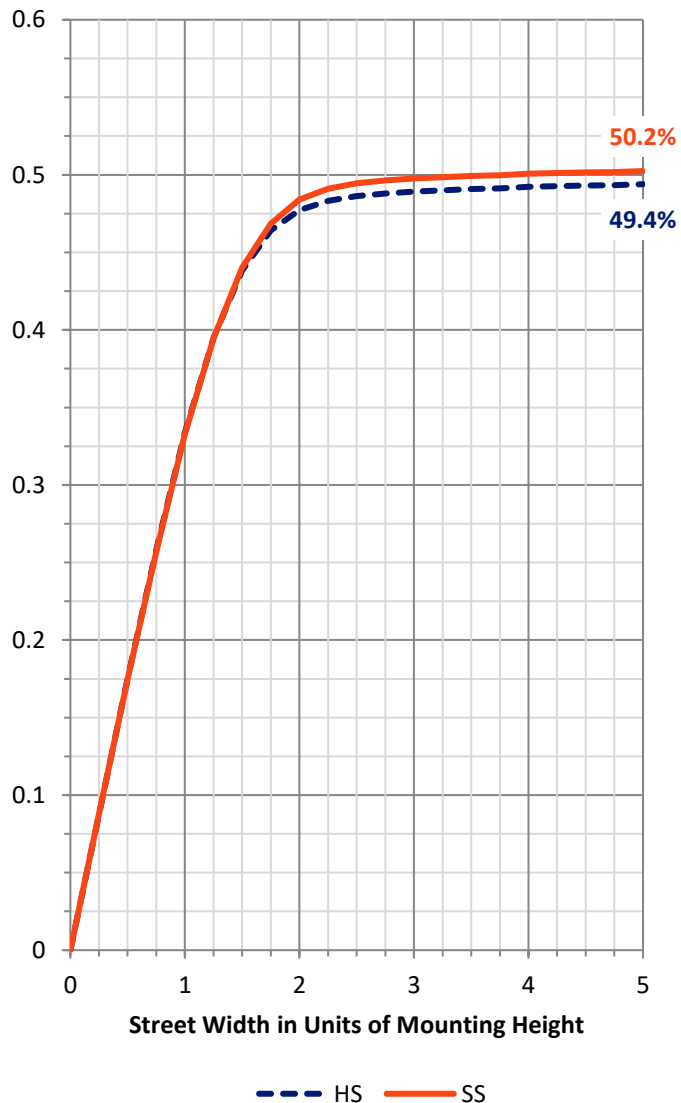
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13603.8	0.0	13603.8
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	13798.8	0.0	13798.8
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	27402.6	0.0	27402.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	279.3	1.0
10°-20°	951.0	3.5
20°-30°	1841.4	6.7
30°-40°	3114.6	11.4
40°-50°	4968.6	18.1
50°-60°	6801.0	24.8
60°-70°	6410.4	23.4
70°-80°	2824.0	10.3
80°-90°	212.5	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°	27402.6	100.0
0°-180°	27402.6	100.0

**Coefficient of Utilization**



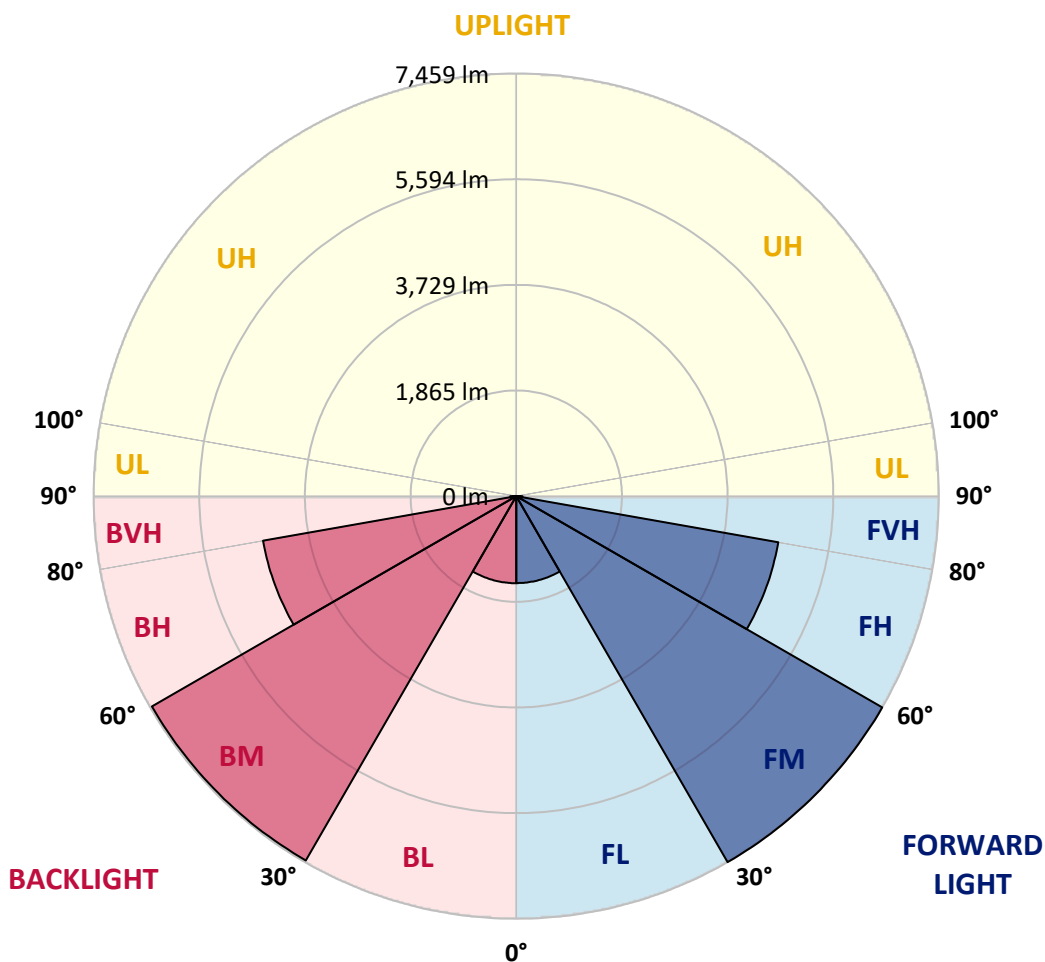
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1535.0	5.6			
FM (30°-60°)	7458.8	27.2			
FH (60°-80°)	4696.5	17.1			G2/5000
FVH (80°-90°)	108.5	0.4			G2/225
BL (0°-30°)	1536.7	5.6	B3/2500		
BM (30°-60°)	7425.4	27.1	B4/8500		
BH (60°-80°)	4537.8	16.6	B4/5000		G4/5000
BVH (80°-90°)	103.9	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°	2806.0	2806.0	2806.0	2806.0	2806.0	2806.0	2806.0	2806.0	2806.0	2806.0	2806.0
2.5°	2788.3	2788.3	2785.3	2800.1	2814.9	2820.8	2832.6	2835.5	2853.3	2838.5	2868.0
5°	2779.4	2776.5	2800.1	2835.5	2835.5	2873.9	2897.6	2930.1	2938.9	2956.6	2962.6
7.5°	2841.4	2835.5	2823.7	2862.1	2894.6	2953.7	2986.2	3042.3	3063.0	3086.6	3113.2
10°	2879.8	2879.8	2868.0	2936.0	2965.5	3045.3	3116.1	3172.3	3252.0	3278.6	3281.5
12.5°	2885.8	2894.6	2930.1	3018.7	3101.4	3204.8	3257.9	3364.3	3444.0	3494.2	3511.9
15°	2974.4	2956.6	2995.0	3116.1	3237.2	3328.8	3423.3	3500.1	3615.3	3680.3	3721.6
17.5°	3054.1	3036.4	3107.3	3252.0	3376.1	3517.8	3600.5	3683.3	3766.0	3825.0	3828.0
20°	3181.1	3195.9	3257.9	3414.5	3576.9	3701.0	3795.5	3810.3	3851.6	3937.3	3922.5
22.5°	3337.7	3325.9	3455.8	3627.1	3804.4	3907.7	3960.9	3922.5	3901.8	3993.4	4014.1
25°	3494.2	3529.7	3647.8	3807.3	4020.0	4158.8	4173.6	4067.2	3990.4	4022.9	4014.1
27.5°	3733.5	3739.4	3863.4	4052.5	4268.1	4389.2	4380.3	4229.7	4082.0	4085.0	4090.9
30°	4040.6	4011.1	4147.0	4318.3	4531.0	4640.2	4655.0	4439.4	4241.5	4182.4	4197.2
32.5°	4336.0	4371.5	4489.6	4684.6	4841.1	4903.1	4870.6	4678.6	4421.7	4341.9	4350.8
35°	4714.1	4708.2	4870.6	5036.0	5154.2	5166.0	5139.4	4858.8	4616.6	4513.2	4471.9
37.5°	5118.7	5171.9	5278.2	5414.1	5538.2	5544.1	5399.3	5174.9	4876.5	4705.2	4755.4
40°	5570.7	5629.7	5706.5	5904.4	5996.0	5901.5	5753.8	5449.6	5139.4	4988.8	5012.4
42.5°	5969.4	5996.0	6152.5	6385.9	6430.2	6388.8	6170.3	5801.0	5440.7	5275.3	5287.1
45°	6335.7	6371.1	6574.9	6784.6	6888.0	6817.1	6563.1	6211.6	5792.2	5650.4	5594.3
47.5°	6672.4	6743.3	6941.2	7156.8	7316.3	7322.2	7009.1	6583.8	6140.7	5954.6	5951.7
50°	6899.8	7003.2	7198.1	7443.3	7676.6	7768.2	7455.1	6997.3	6521.7	6323.8	6303.2
52.5°	7023.9	7130.2	7325.1	7706.2	7966.1	8107.9	7960.2	7384.2	6967.8	6761.0	6728.5
55°	6873.2	6944.1	7263.1	7797.7	8199.4	8432.8	8335.3	7918.8	7410.8	7242.4	7272.0
57.5°	6232.3	6380.0	6772.8	7440.3	8193.5	8766.5	8757.7	8423.9	7921.8	7762.3	7768.2
60°	5130.6	5254.6	5739.0	6672.4	7862.7	8902.4	9215.5	8914.2	8494.8	8308.7	8302.8
62.5°	3621.2	3777.8	4339.0	5358.0	6888.0	8713.4	9741.3	9531.6	9056.0	8920.1	8970.4
65°	2026.2	2120.7	2640.6	3562.1	5248.7	7673.7	9835.8	10172.5	9626.1	9419.3	9428.2
67.5°	1084.0	1119.4	1361.7	1869.7	3210.7	5916.2	8881.7	10541.7	10243.4	9886.0	9829.9
70°	744.3	756.1	818.2	957.0	1518.2	3538.5	6699.0	9883.0	10707.1	10219.8	10314.3
72.5°	629.1	623.2	638.0	652.8	794.5	1583.2	3931.4	7605.7	10107.5	9924.4	9889.0
75°	546.4	543.5	549.4	534.6	552.3	697.1	1739.7	4740.7	7399.0	8258.5	8391.4
77.5°	451.9	454.9	457.8	443.1	437.1	460.8	700.0	2082.4	3641.9	4020.0	4336.0
80°	342.6	348.5	372.2	357.4	333.8	336.7	413.5	697.1	1045.6	948.1	977.7
82.5°	233.3	236.3	286.5	268.8	251.1	227.4	265.8	360.4	407.6	310.1	271.7
85°	165.4	162.5	186.1	171.3	159.5	115.2	159.5	203.8	245.2	153.6	138.8
87.5°	38.4	38.4	76.8	62.0	59.1	47.3	62.0	79.7	106.3	67.9	62.0
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°	2806.0	2806.0	2806.0	2806.0	2806.0	2806.0	2806.0	2806.0	2806.0	2806.0
2.5°	2859.2	2832.6	2832.6	2826.7	2803.1	2797.1	2776.5	2782.4	2767.6	2752.8
5°	2959.6	2924.2	2924.2	2873.9	2826.7	2820.8	2797.1	2797.1	2773.5	2779.4
7.5°	3098.4	3065.9	3012.8	2968.5	2903.5	2876.9	2832.6	2826.7	2820.8	2809.0
10°	3263.8	3222.5	3169.3	3077.7	3024.6	2974.4	2930.1	2868.0	2853.3	2856.2
12.5°	3488.3	3423.3	3308.1	3228.4	3160.4	3095.5	3030.5	2938.9	2918.2	2927.1
15°	3647.8	3565.1	3449.9	3420.4	3328.8	3249.1	3142.7	3039.3	3003.9	2995.0
17.5°	3777.8	3709.8	3641.9	3597.6	3523.8	3426.3	3278.6	3160.4	3080.7	3071.8
20°	3884.1	3795.5	3780.7	3807.3	3715.7	3650.8	3470.6	3325.9	3219.5	3175.2
22.5°	3949.1	3893.0	3934.3	3957.9	3952.0	3842.7	3656.7	3488.3	3355.4	3314.0
25°	4020.0	3955.0	4102.7	4182.4	4203.1	4022.9	3878.2	3656.7	3526.7	3500.1
27.5°	4055.4	4079.0	4250.4	4418.7	4404.0	4265.1	4070.2	3872.3	3768.9	3721.6
30°	4158.8	4197.2	4457.1	4646.2	4649.1	4513.2	4365.6	4141.1	4025.9	4005.2
32.5°	4344.9	4392.1	4669.8	4870.6	4906.1	4802.7	4655.0	4516.2	4398.0	4350.8
35°	4486.7	4607.8	4920.8	5104.0	5198.5	5136.5	5053.8	4909.0	4785.0	4743.6
37.5°	4690.5	4858.8	5160.1	5408.2	5514.5	5508.6	5446.6	5290.1	5186.7	5151.2
40°	4982.9	5151.2	5425.9	5753.8	5951.7	5942.8	5907.4	5786.3	5632.7	5615.0
42.5°	5293.0	5431.8	5789.2	6164.3	6447.9	6418.4	6323.8	6182.1	6075.7	6052.1
45°	5594.3	5809.9	6140.7	6622.2	6834.8	6908.7	6796.4	6554.2	6433.1	6418.4
47.5°	5972.4	6143.7	6557.2	6988.4	7304.5	7316.3	7124.3	6899.8	6678.3	6725.6
50°	6309.1	6536.5	6955.9	7428.5	7806.6	7670.7	7425.6	7145.0	6985.5	6923.4
52.5°	6669.4	6947.1	7434.4	7915.9	8125.6	7989.7	7591.0	7277.9	7035.7	7009.1
55°	7195.2	7339.9	7977.9	8347.1	8415.1	8128.6	7540.8	7097.7	6784.6	6707.8
57.5°	7729.8	7898.2	8456.4	8775.4	8704.5	8051.8	7215.9	6530.6	6120.0	6010.8
60°	8270.3	8477.1	8946.7	9239.1	8872.9	7523.0	6297.3	5414.1	4935.6	4838.1
62.5°	8872.9	9141.7	9561.1	9664.5	8373.7	6477.4	4997.6	3907.7	3423.3	3260.9
65°	9407.5	9682.2	10199.1	9575.9	7313.3	4832.2	3231.3	2233.0	1875.6	1745.6
67.5°	9847.6	10157.7	10411.8	8474.1	5355.0	2829.6	1683.6	1175.6	1042.7	995.4
70°	10196.1	10713.0	9525.6	6229.3	3060.0	1379.4	909.7	773.9	756.1	744.3
72.5°	9891.9	9824.0	7112.5	3594.6	1341.0	759.1	658.7	638.0	635.0	638.0
75°	8090.2	7215.9	4253.3	1562.5	673.4	549.4	546.4	537.6	552.3	552.3
77.5°	3925.5	3432.2	1778.1	670.5	443.1	431.2	446.0	446.0	446.0	446.0
80°	909.7	1007.2	635.0	407.6	322.0	322.0	354.4	357.4	342.6	336.7
82.5°	310.1	413.5	348.5	257.0	212.7	239.2	268.8	274.7	227.4	230.4
85°	153.6	242.2	189.0	147.7	109.3	147.7	174.3	183.1	156.5	150.6
87.5°	70.9	106.3	70.9	50.2	38.4	53.2	50.2	41.4	23.6	23.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)