

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: P479235

Luminaire Tested: **IFLD-L-SA7B-727-U-5MQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479235  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7B-727-U-5MQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens  
Light Source: (112) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

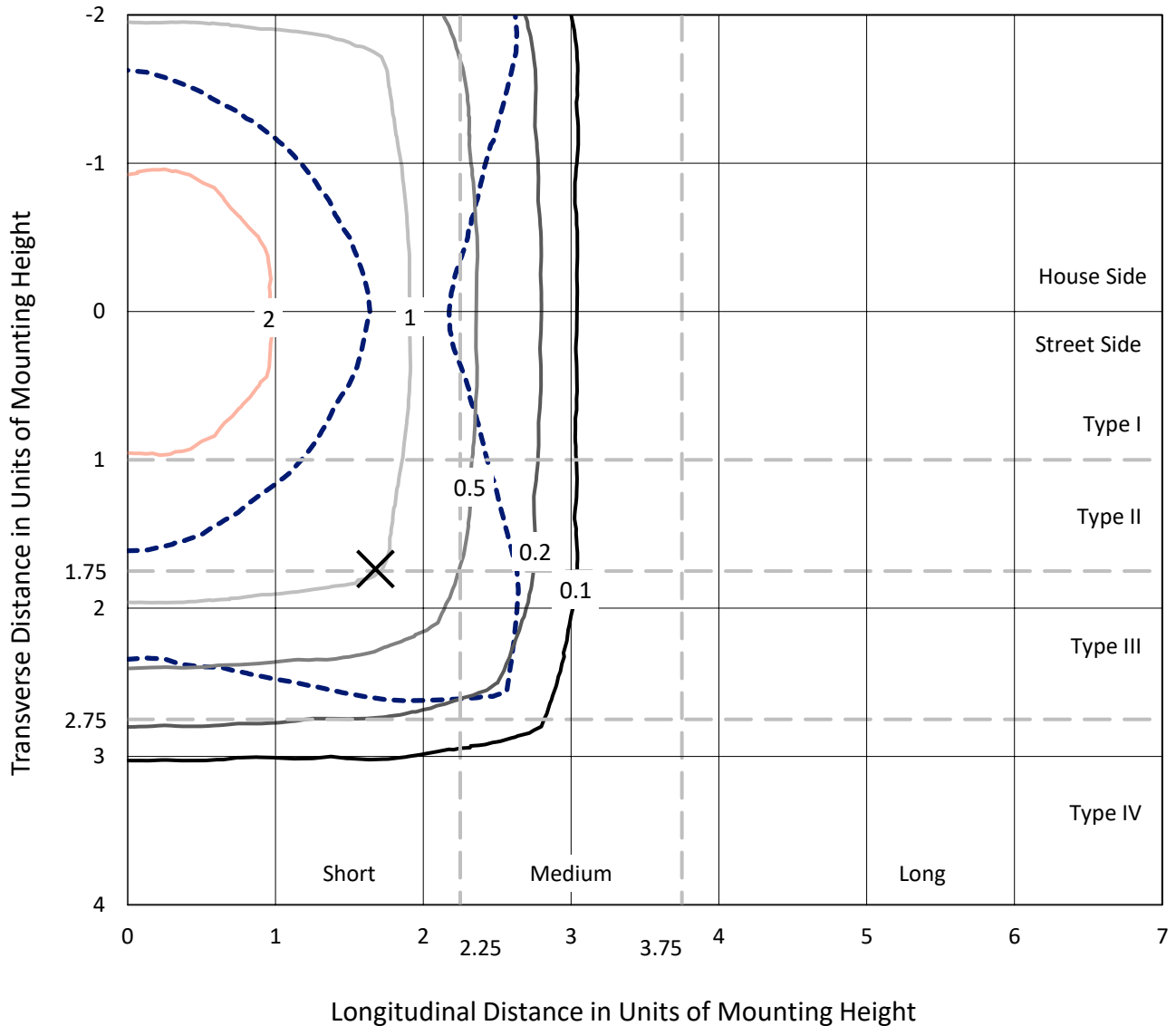
Lumens per Lamp: N/A  
Luminaire Lumens: 30062.6 lumens  
Efficiency: N/A  
Efficacy: 107.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

Input Watts (W): 281  
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

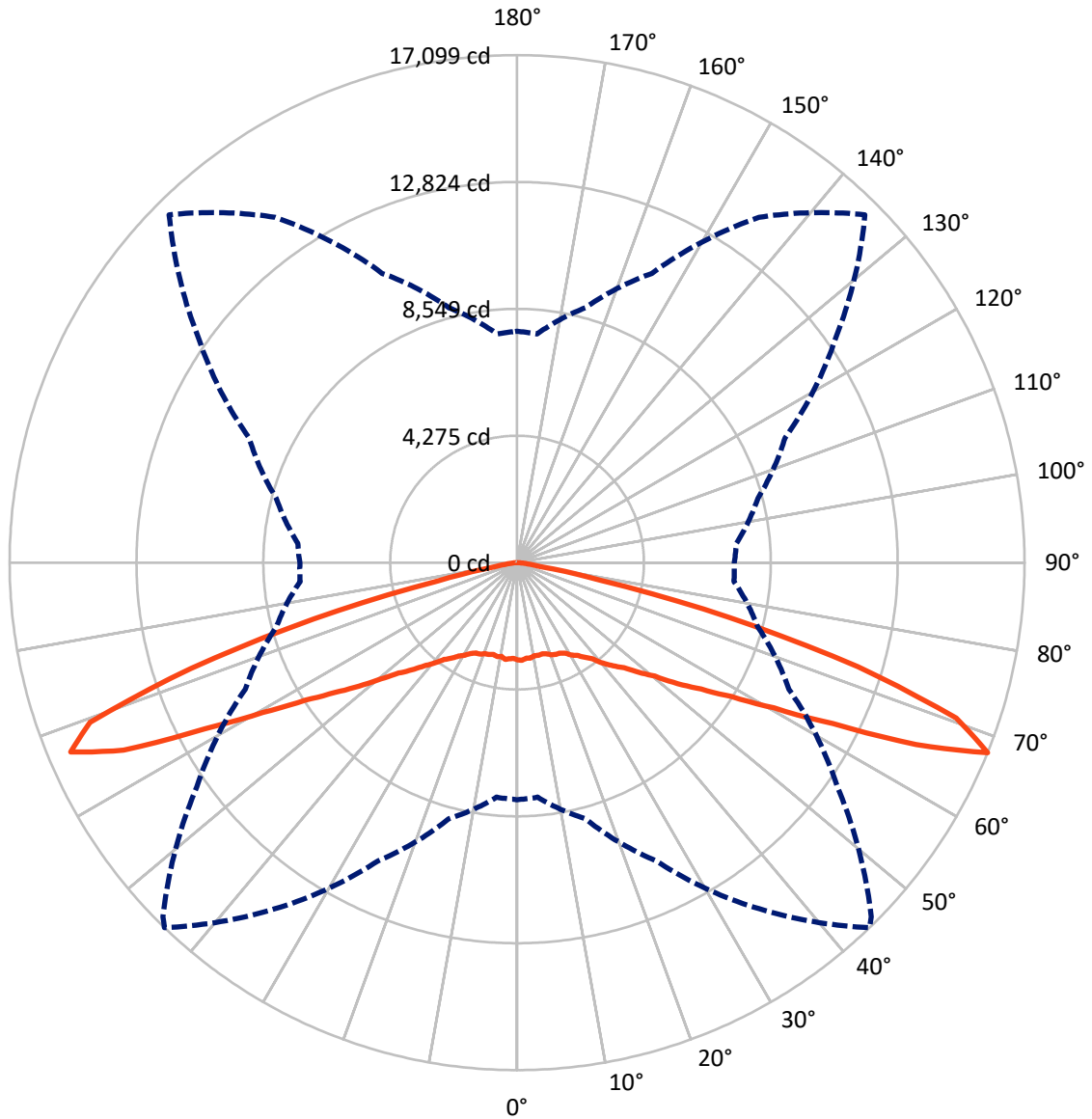
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.6 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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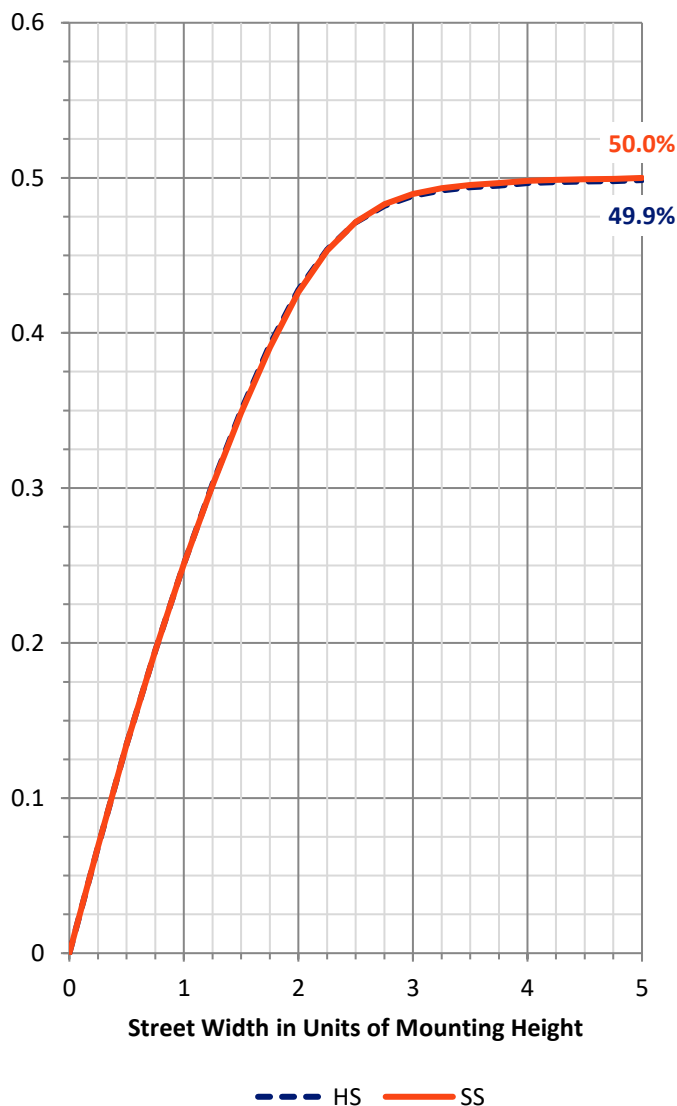
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14992.8	0.0	14992.8
	% Fixture	49.9	0.0	49.9
<b>Street Side</b>	Lumens	15069.8	0.0	15069.8
	% Fixture	50.1	0.0	50.1
<b>Total</b>	Lumens	30062.6	0.0	30062.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	310.7	1.0
10°-20°	907.8	3.0
20°-30°	1543.8	5.1
30°-40°	2447.8	8.1
40°-50°	3991.4	13.3
50°-60°	6816.7	22.7
60°-70°	10368.1	34.5
70°-80°	3494.7	11.6
80°-90°	181.4	0.6
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°	30062.6	100.0
0°-180°	30062.6	100.0

**Coefficient of Utilization**



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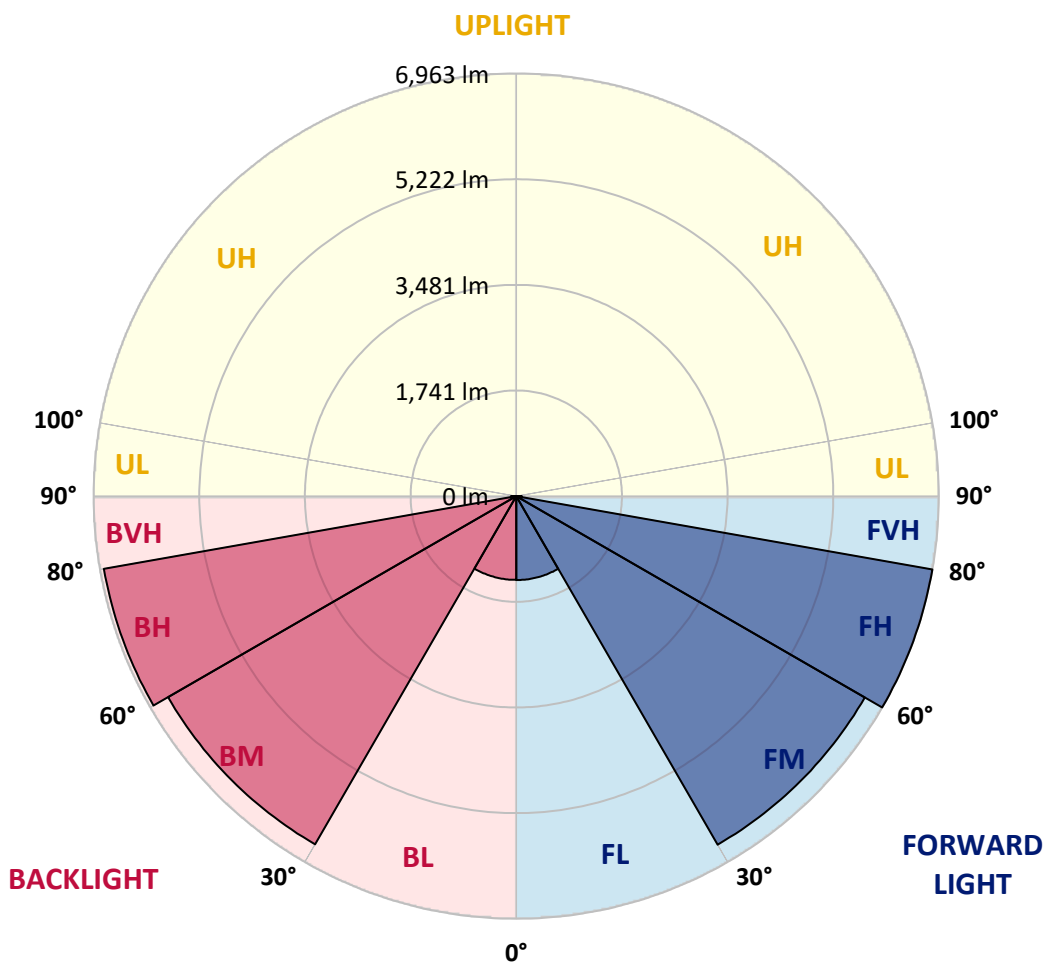
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1382.6	4.6			
FM (30°-60°)	6631.5	22.1			
FH (60°-80°)	6962.8	23.2			G3/7500
FVH (80°-90°)	92.8	0.3			G1/100
BL (0°-30°)	1379.8	4.6	B3/2500		
BM (30°-60°)	6624.4	22.0	B4/8500		
BH (60°-80°)	6900.0	23.0	B5		G3/7500
BVH (80°-90°)	88.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3283.8	3283.8	3283.8	3283.8	3283.8	3283.8	3283.8	3283.8	3283.8	3283.8	3283.8
2.5°	3208.3	3246.1	3273.5	3270.1	3280.4	3290.7	3277.0	3297.5	3283.8	3307.8	3321.6
5°	3270.1	3259.8	3263.2	3242.6	3290.7	3235.8	3235.8	3263.2	3297.5	3256.4	3280.4
7.5°	3232.3	3225.5	3208.3	3239.2	3249.5	3249.5	3277.0	3225.5	3283.8	3297.5	3301.0
10°	3191.2	3153.4	3204.9	3235.8	3242.6	3187.7	3211.8	3225.5	3208.3	3225.5	3235.8
12.5°	3156.9	3177.4	3177.4	3177.4	3167.2	3204.9	3228.9	3225.5	3191.2	3222.1	3167.2
15°	3153.4	3143.1	3174.0	3201.5	3184.3	3191.2	3201.5	3232.3	3167.2	3180.9	3180.9
17.5°	3150.0	3163.7	3174.0	3170.6	3228.9	3228.9	3218.6	3198.0	3249.5	3222.1	3184.3
20°	3163.7	3153.4	3180.9	3191.2	3232.3	3314.7	3283.8	3266.7	3239.2	3204.9	3204.9
22.5°	3180.9	3174.0	3211.8	3256.4	3335.3	3355.9	3352.4	3331.9	3283.8	3242.6	3235.8
25°	3242.6	3180.9	3222.1	3307.8	3335.3	3376.5	3403.9	3376.5	3311.3	3321.6	3259.8
27.5°	3335.3	3325.0	3379.9	3438.2	3414.2	3452.0	3427.9	3448.5	3452.0	3400.5	3338.7
30°	3445.1	3414.2	3448.5	3561.8	3572.1	3613.2	3572.1	3517.2	3534.3	3489.7	3458.8
32.5°	3602.9	3592.6	3657.8	3733.3	3747.1	3726.5	3705.9	3736.8	3664.7	3630.4	3575.5
35°	3705.9	3750.5	3829.4	3887.7	3932.3	3911.8	3922.1	3891.2	3908.3	3836.3	3812.3
37.5°	4011.3	3994.1	4011.3	4110.8	4121.1	4110.8	4121.1	4155.4	4131.4	4069.6	4007.8
40°	4299.5	4272.1	4313.2	4426.5	4419.6	4453.9	4385.3	4423.0	4423.0	4306.4	4282.3
42.5°	4515.7	4608.3	4656.4	4749.0	4783.3	4752.4	4738.7	4745.6	4821.1	4683.8	4632.3
45°	4961.8	4958.3	5102.4	5153.9	5057.8	5051.0	5023.5	5105.9	5157.3	5078.4	5057.8
47.5°	5445.6	5469.6	5552.0	5572.5	5630.9	5524.5	5524.5	5534.8	5716.7	5531.4	5435.3
50°	5881.4	5912.2	6077.0	6238.2	6128.4	6015.2	6059.8	6114.7	6214.2	6039.2	5956.9
52.5°	6409.8	6577.9	6687.7	6773.5	6852.4	6773.5	6670.6	6732.3	6927.9	6694.6	6591.7
55°	7171.6	7305.4	7408.3	7566.2	7631.4	7525.0	7514.7	7507.8	7617.6	7370.6	7229.9
57.5°	8022.5	7967.6	8132.3	8376.0	8612.7	8509.8	8478.9	8485.8	8513.2	8163.2	8056.9
60°	9079.4	9141.2	9336.8	9549.5	9800.0	9944.1	9741.7	9625.0	9649.0	9172.0	9007.3
62.5°	9683.3	9820.6	10263.2	10994.1	11498.5	11948.0	11978.9	11220.6	10712.7	9786.3	9086.3
65°	9391.7	9371.1	10204.9	11556.9	13468.1	14775.5	14579.9	12740.7	10966.7	9494.6	8554.4
67.5°	7988.2	7933.3	8942.1	11086.8	14243.6	17098.5	16875.5	13169.6	10108.8	8400.0	7336.3
70°	5147.1	5133.3	6227.9	8451.5	12716.7	15698.5	15780.9	11961.8	8228.4	6152.4	5099.0
72.5°	1870.1	1983.3	2618.1	4543.1	8636.8	12009.8	12061.3	8856.4	4731.9	2844.6	2096.6
75°	689.7	710.3	827.0	1475.5	3935.8	7374.0	7566.2	4296.1	1681.4	926.5	754.9
77.5°	398.0	401.5	442.6	549.0	1166.7	2878.9	2995.6	1303.9	652.0	494.1	456.4
80°	271.1	267.6	312.3	356.9	466.7	816.7	868.1	545.6	411.8	343.1	288.2
82.5°	157.8	168.1	229.9	253.9	284.8	360.3	367.2	339.7	308.8	253.9	188.7
85°	96.1	78.9	127.0	140.7	164.7	161.3	161.3	185.3	199.0	178.4	106.4
87.5°	24.0	24.0	30.9	34.3	44.6	34.3	37.7	72.1	96.1	89.2	54.9
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3283.8	3283.8	3283.8	3283.8	3283.8	3283.8	3283.8	3283.8	3283.8	3283.8	3283.8
2.5°	3290.7	3280.4	3287.3	3325.0	3301.0	3228.9	3246.1	3283.8	3252.9	3235.8	3232.3
5°	3277.0	3297.5	3273.5	3280.4	3304.4	3246.1	3256.4	3304.4	3283.8	3290.7	3252.9
7.5°	3280.4	3290.7	3270.1	3239.2	3239.2	3287.3	3259.8	3266.7	3235.8	3287.3	3218.6
10°	3259.8	3232.3	3208.3	3225.5	3218.6	3204.9	3194.6	3215.2	3184.3	3228.9	3180.9
12.5°	3198.0	3204.9	3198.0	3191.2	3204.9	3239.2	3184.3	3191.2	3143.1	3150.0	3174.0
15°	3174.0	3194.6	3187.7	3225.5	3242.6	3191.2	3232.3	3191.2	3153.4	3132.8	3170.6
17.5°	3184.3	3215.2	3204.9	3232.3	3201.5	3239.2	3246.1	3228.9	3184.3	3167.2	3184.3
20°	3194.6	3184.3	3198.0	3246.1	3290.7	3252.9	3252.9	3242.6	3201.5	3177.4	3177.4
22.5°	3218.6	3201.5	3222.1	3259.8	3273.5	3331.9	3280.4	3256.4	3187.7	3126.0	3184.3
25°	3266.7	3277.0	3290.7	3277.0	3352.4	3345.6	3338.7	3321.6	3215.2	3218.6	3208.3
27.5°	3359.3	3301.0	3318.1	3400.5	3410.8	3438.2	3403.9	3434.8	3321.6	3325.0	3256.4
30°	3472.5	3410.8	3465.7	3537.7	3534.3	3585.8	3568.6	3575.5	3496.6	3452.0	3359.3
32.5°	3596.1	3589.2	3623.5	3668.1	3685.3	3712.7	3709.3	3709.3	3661.3	3544.6	3561.8
35°	3733.3	3781.4	3822.5	3870.6	3877.4	3911.8	3863.7	3870.6	3822.5	3736.8	3764.2
37.5°	4004.4	4001.0	4045.6	4103.9	4110.8	4083.3	4121.1	4103.9	4038.7	3980.4	3935.8
40°	4320.1	4251.5	4292.6	4429.9	4440.2	4392.2	4388.7	4385.3	4337.3	4210.3	4182.8
42.5°	4594.6	4683.8	4677.0	4721.6	4690.7	4666.7	4752.4	4704.4	4666.7	4532.8	4508.8
45°	4948.0	4975.5	5064.7	5208.8	5061.3	5061.3	5119.6	5081.9	5061.3	4961.8	4869.1
47.5°	5387.2	5411.3	5589.7	5600.0	5503.9	5438.7	5620.6	5627.4	5541.7	5466.2	5352.9
50°	5902.0	5912.2	6073.5	6238.2	6131.9	6008.3	6193.6	6265.7	6073.5	5970.6	5829.9
52.5°	6468.1	6437.2	6571.1	6879.9	6777.0	6739.2	6938.2	6955.4	6694.6	6533.3	6571.1
55°	7120.1	7078.9	7442.6	7652.0	7586.8	7518.1	7607.3	7648.5	7439.2	7175.0	7267.6
57.5°	7964.2	7984.8	8166.7	8372.5	8478.9	8496.1	8537.2	8496.1	8283.3	8015.7	7929.9
60°	8808.3	8870.1	9223.5	9611.3	9645.6	9947.5	9892.6	9686.8	9384.8	9003.9	9021.1
62.5°	9120.6	9069.1	9638.7	10585.8	11392.1	11944.6	11701.0	10970.1	10270.1	9577.0	9628.4
65°	8492.6	8619.6	9395.1	10877.4	12627.4	14813.2	13516.2	11495.1	10081.4	9185.8	9086.3
67.5°	7319.1	7415.2	8400.0	9964.7	13070.1	16576.9	14202.4	10753.9	8890.7	7730.9	7792.6
70°	5099.0	5147.1	6111.3	8163.2	11851.9	15643.6	12812.7	8259.3	6138.7	4893.1	4961.8
72.5°	2052.0	2168.6	2803.4	4917.2	8750.0	11886.3	8626.5	4333.8	2546.1	1894.1	1719.1
75°	758.3	761.8	895.6	1691.7	4155.4	7470.1	3891.2	1393.1	813.2	665.7	634.8
77.5°	439.2	435.8	466.7	610.8	1204.4	2916.7	1104.9	545.6	442.6	398.0	380.9
80°	274.5	271.1	319.1	404.9	528.4	799.5	466.7	339.7	298.5	257.4	257.4
82.5°	175.0	178.4	250.5	298.5	322.5	353.4	271.1	240.2	223.0	147.5	144.1
85°	113.2	102.9	175.0	199.0	178.4	157.8	151.0	127.0	116.7	72.1	78.9
87.5°	51.5	54.9	89.2	99.5	65.2	37.7	37.7	27.5	27.5	17.2	17.2
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)