

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: P479233

Luminaire Tested: **IFLD-M-SA4E-727-U-5MQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479233  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4E-727-U-5MQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens  
Light Source: (64) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

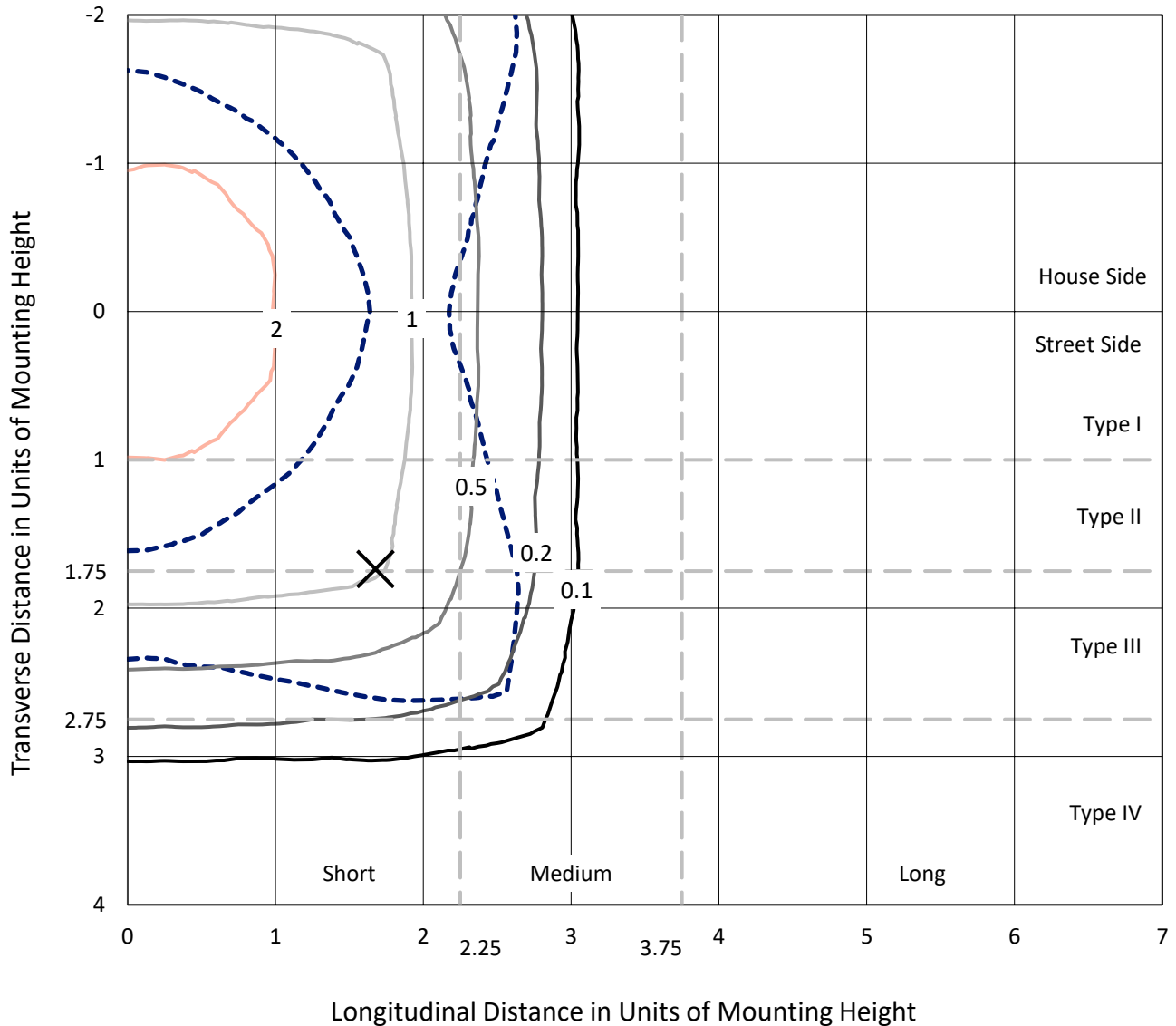
Lumens per Lamp: N/A  
Luminaire Lumens: 30562.8 lumens  
Efficiency: N/A  
Efficacy: 97.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

Input Watts (W): 314.8  
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

REPORT NUMBER: P479233  
 CATALOG NUMBER: IFLD-M-SA4E-727-U-5MQ

### Iso-Footcandle Lines of Horizontal Illumination

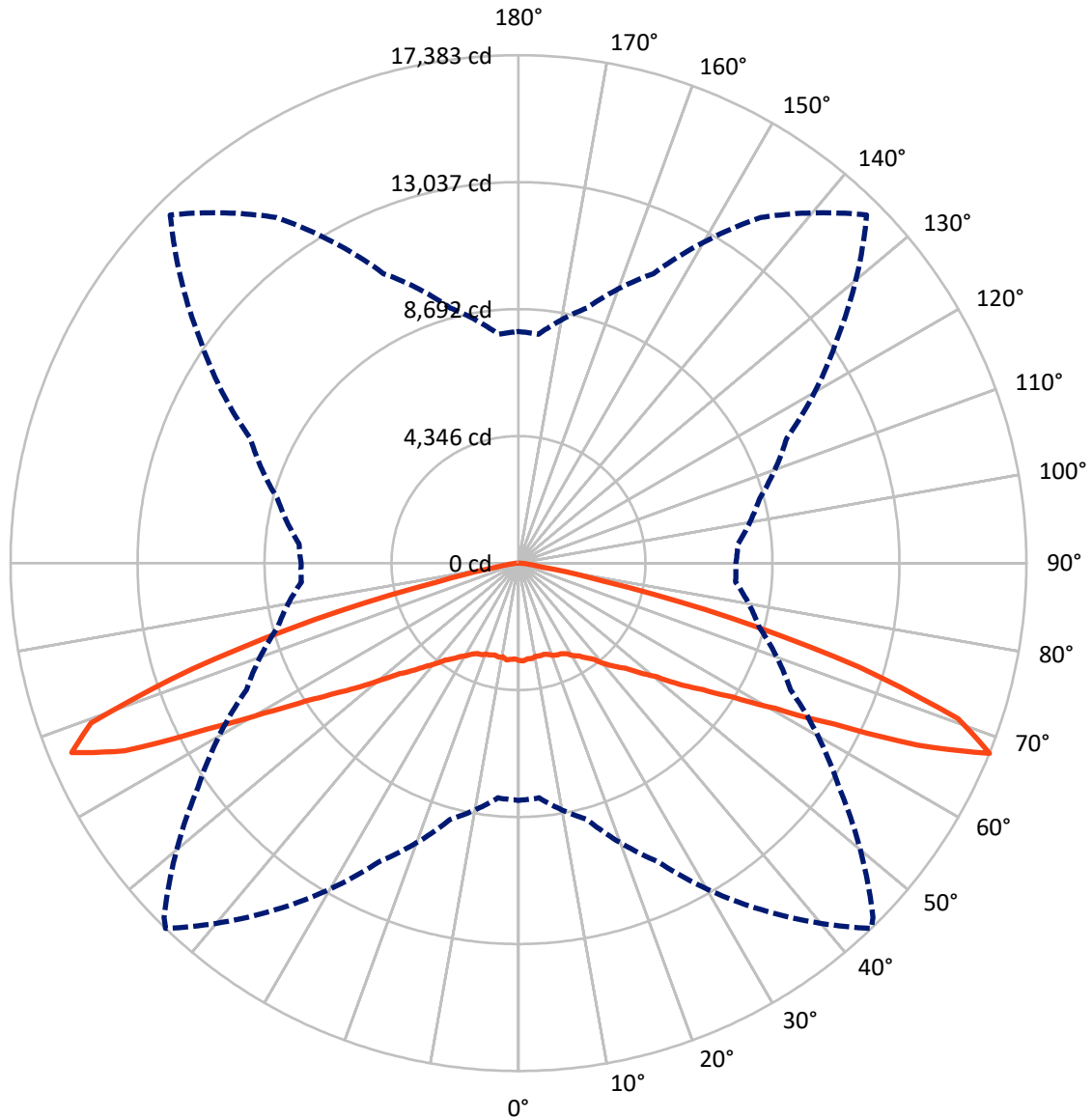
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.7 fc  
 Type V - Short - N/A

REPORT NUMBER: P479233  
CATALOG NUMBER: IFLD-M-SA4E-727-U-5MQ

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P479233

CATALOG NUMBER: IFLD-M-SA4E-727-U-5MQ

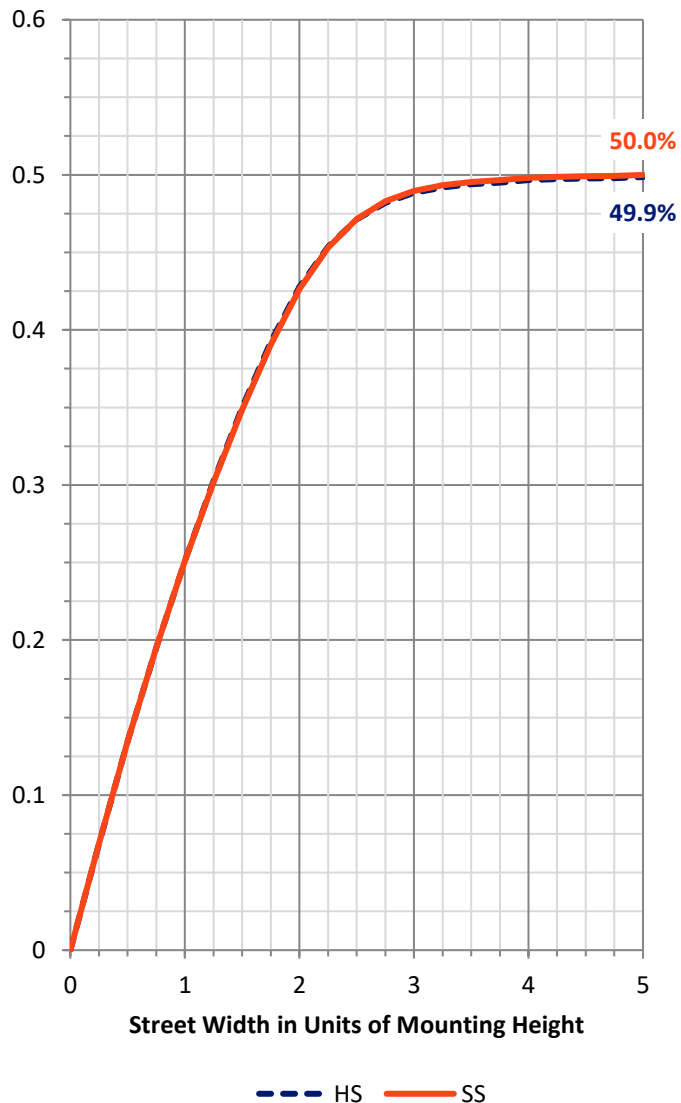
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15242.2	0.0	15242.2
	% Fixture	49.9	0.0	49.9
<b>Street Side</b>	Lumens	15320.5	0.0	15320.5
	% Fixture	50.1	0.0	50.1
<b>Total</b>	Lumens	30562.8	0.0	30562.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	315.9	1.0
10°-20°	922.9	3.0
20°-30°	1569.5	5.1
30°-40°	2488.5	8.1
40°-50°	4057.8	13.3
50°-60°	6930.1	22.7
60°-70°	10540.6	34.5
70°-80°	3552.8	11.6
80°-90°	184.5	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°	30562.8	100.0
0°-180°	30562.8	100.0

**Coefficient of Utilization**



REPORT NUMBER: P479233

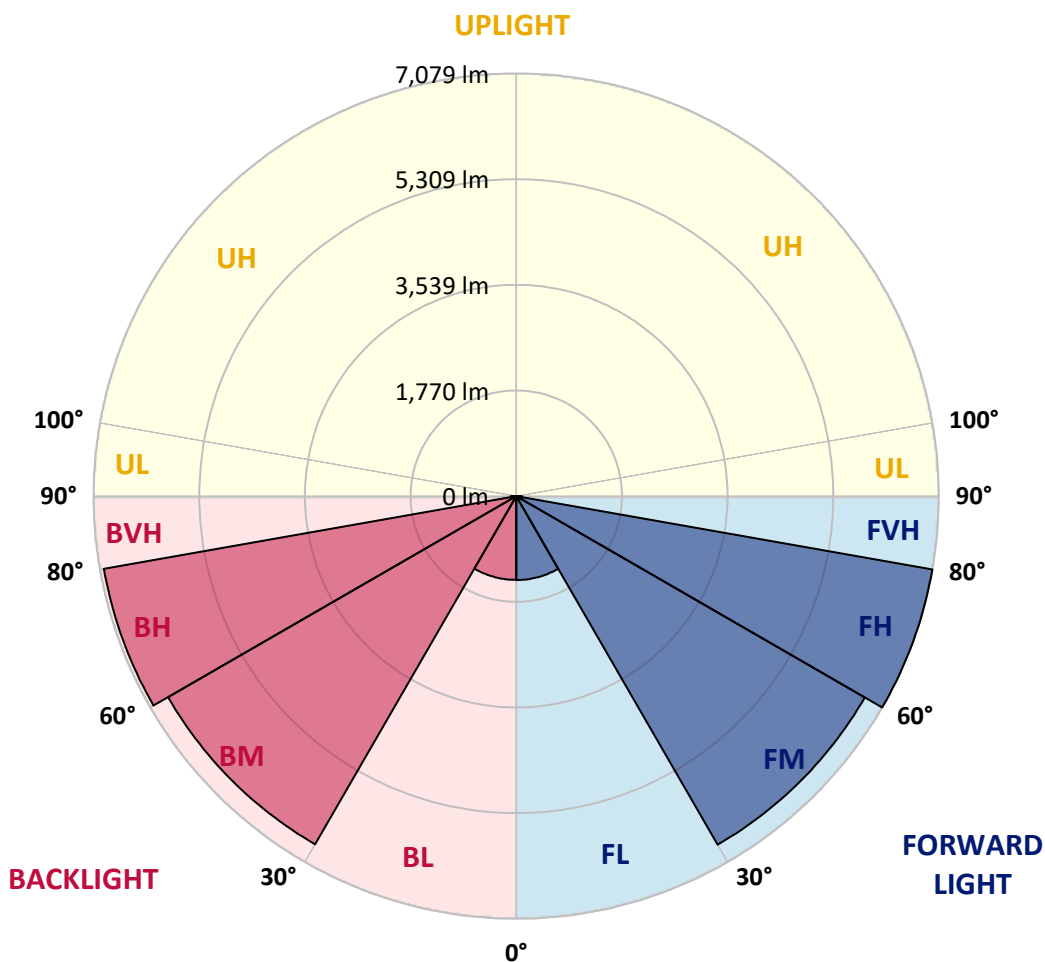
CATALOG NUMBER: IFLD-M-SA4E-727-U-5MQ

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1405.6	4.6			
FM (30°-60°)	6741.9	22.1			
FH (60°-80°)	7078.7	23.2			G3/7500
FVH (80°-90°)	94.4	0.3			G1/100
BL (0°-30°)	1402.7	4.6	B3/2500		
BM (30°-60°)	6734.6	22.0	B4/8500		
BH (60°-80°)	7014.8	23.0	B5		G3/7500
BVH (80°-90°)	90.1	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





REPORT NUMBER: P479233  
 CATALOG NUMBER: IFLD-M-SA4E-727-U-5MQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3338.5	3338.5	3338.5	3338.5	3338.5	3338.5	3338.5	3338.5	3338.5	3338.5	3338.5
2.5°	3261.7	3300.1	3328.0	3324.5	3335.0	3345.4	3331.5	3352.4	3338.5	3362.9	3376.8
5°	3324.5	3314.0	3317.5	3296.6	3345.4	3289.6	3289.6	3317.5	3352.4	3310.5	3335.0
7.5°	3286.1	3279.2	3261.7	3293.1	3303.6	3303.6	3331.5	3279.2	3338.5	3352.4	3355.9
10°	3244.3	3205.9	3258.2	3289.6	3296.6	3240.8	3265.2	3279.2	3261.7	3279.2	3289.6
12.5°	3209.4	3230.3	3230.3	3230.3	3219.8	3258.2	3282.6	3279.2	3244.3	3275.7	3219.8
15°	3205.9	3195.4	3226.8	3254.7	3237.3	3244.3	3254.7	3286.1	3219.8	3233.8	3233.8
17.5°	3202.4	3216.4	3226.8	3223.3	3282.6	3282.6	3272.2	3251.2	3303.6	3275.7	3237.3
20°	3216.4	3205.9	3233.8	3244.3	3286.1	3369.9	3338.5	3321.0	3293.1	3258.2	3258.2
22.5°	3233.8	3226.8	3265.2	3310.5	3390.8	3411.7	3408.2	3387.3	3338.5	3296.6	3289.6
25°	3296.6	3233.8	3275.7	3362.9	3390.8	3432.6	3460.6	3432.6	3366.4	3376.8	3314.0
27.5°	3390.8	3380.3	3436.1	3495.4	3471.0	3509.4	3485.0	3505.9	3509.4	3457.1	3394.3
30°	3502.4	3471.0	3505.9	3621.0	3631.5	3673.3	3631.5	3575.7	3593.1	3547.8	3516.4
32.5°	3662.9	3652.4	3718.7	3795.4	3809.4	3788.5	3767.5	3798.9	3725.7	3690.8	3635.0
35°	3767.5	3812.9	3893.1	3952.4	3997.8	3976.8	3987.3	3955.9	3973.4	3900.1	3875.7
37.5°	4078.0	4060.6	4078.0	4179.2	4189.6	4179.2	4189.6	4224.5	4200.1	4137.3	4074.5
40°	4371.0	4343.1	4385.0	4500.1	4493.1	4528.0	4458.3	4496.6	4496.6	4378.0	4353.6
42.5°	4590.8	4685.0	4733.8	4828.0	4862.9	4831.5	4817.6	4824.5	4901.3	4761.7	4709.4
45°	5044.3	5040.8	5187.3	5239.7	5142.0	5135.0	5107.1	5190.8	5243.2	5162.9	5142.0
47.5°	5536.2	5560.6	5644.3	5665.3	5724.6	5616.4	5616.4	5626.9	5811.8	5623.4	5525.7
50°	5979.2	6010.6	6178.1	6342.0	6230.4	6115.3	6160.6	6216.4	6317.6	6139.7	6056.0
52.5°	6516.4	6687.4	6799.0	6886.2	6966.5	6886.2	6781.6	6844.4	7043.2	6806.0	6701.3
55°	7290.9	7426.9	7531.6	7692.1	7758.3	7650.2	7639.7	7632.8	7744.4	7493.2	7350.2
57.5°	8156.0	8100.2	8267.6	8515.3	8756.0	8651.4	8620.0	8627.0	8654.9	8299.0	8190.9
60°	9230.5	9293.3	9492.1	9708.4	9963.0	10109.6	9903.7	9785.1	9809.5	9324.7	9157.2
62.5°	9844.4	9984.0	10434.0	11177.0	11689.8	12146.8	12178.2	11407.3	10891.0	9949.1	9237.4
65°	9547.9	9527.0	10374.7	11749.1	13692.2	15021.3	14822.5	12952.7	11149.1	9652.6	8696.7
67.5°	8121.1	8065.3	9090.9	11271.2	14480.6	17383.0	17156.2	13388.7	10277.0	8539.7	7458.3
70°	5232.7	5218.7	6331.6	8592.1	12928.2	15959.7	16043.4	12160.8	8365.3	6254.8	5183.9
72.5°	1901.2	2016.3	2661.7	4618.7	8780.5	12209.6	12261.9	9003.7	4810.6	2891.9	2131.4
75°	701.2	722.1	840.7	1500.0	4001.3	7496.7	7692.1	4367.6	1709.3	941.9	767.5
77.5°	404.7	408.1	450.0	558.2	1186.1	2926.8	3045.4	1325.6	662.8	502.3	464.0
80°	275.6	272.1	317.4	362.8	474.4	830.3	882.6	554.7	418.6	348.8	293.0
82.5°	160.5	170.9	233.7	258.1	289.5	366.3	373.3	345.4	314.0	258.1	191.9
85°	97.7	80.2	129.1	143.0	167.4	164.0	164.0	188.4	202.3	181.4	108.1
87.5°	24.4	24.4	31.4	34.9	45.3	34.9	38.4	73.3	97.7	90.7	55.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P479233  
 CATALOG NUMBER: IFLD-M-SA4E-727-U-5MQ

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3338.5	3338.5	3338.5	3338.5	3338.5	3338.5	3338.5	3338.5	3338.5	3338.5	3338.5
2.5°	3345.4	3335.0	3341.9	3380.3	3355.9	3282.6	3300.1	3338.5	3307.1	3289.6	3286.1
5°	3331.5	3352.4	3328.0	3335.0	3359.4	3300.1	3310.5	3359.4	3338.5	3345.4	3307.1
7.5°	3335.0	3345.4	3324.5	3293.1	3293.1	3341.9	3314.0	3321.0	3289.6	3341.9	3272.2
10°	3314.0	3286.1	3261.7	3279.2	3272.2	3258.2	3247.8	3268.7	3237.3	3282.6	3233.8
12.5°	3251.2	3258.2	3251.2	3244.3	3258.2	3293.1	3237.3	3244.3	3195.4	3202.4	3226.8
15°	3226.8	3247.8	3240.8	3279.2	3296.6	3244.3	3286.1	3244.3	3205.9	3185.0	3223.3
17.5°	3237.3	3268.7	3258.2	3286.1	3254.7	3293.1	3300.1	3282.6	3237.3	3219.8	3237.3
20°	3247.8	3237.3	3251.2	3300.1	3345.4	3307.1	3307.1	3296.6	3254.7	3230.3	3230.3
22.5°	3272.2	3254.7	3275.7	3314.0	3328.0	3387.3	3335.0	3310.5	3240.8	3178.0	3237.3
25°	3321.0	3331.5	3345.4	3331.5	3408.2	3401.2	3394.3	3376.8	3268.7	3272.2	3261.7
27.5°	3415.2	3355.9	3373.3	3457.1	3467.5	3495.4	3460.6	3491.9	3376.8	3380.3	3310.5
30°	3530.3	3467.5	3523.3	3596.6	3593.1	3645.4	3628.0	3635.0	3554.7	3509.4	3415.2
32.5°	3655.9	3648.9	3683.8	3729.2	3746.6	3774.5	3771.0	3771.0	3722.2	3603.6	3621.0
35°	3795.4	3844.3	3886.1	3935.0	3942.0	3976.8	3928.0	3935.0	3886.1	3798.9	3826.8
37.5°	4071.0	4067.5	4112.9	4172.2	4179.2	4151.3	4189.6	4172.2	4105.9	4046.6	4001.3
40°	4392.0	4322.2	4364.1	4503.6	4514.1	4465.2	4461.7	4458.3	4409.4	4280.3	4252.4
42.5°	4671.0	4761.7	4754.8	4800.1	4768.7	4744.3	4831.5	4782.7	4744.3	4608.3	4583.8
45°	5030.4	5058.3	5149.0	5295.5	5145.5	5145.5	5204.8	5166.4	5145.5	5044.3	4950.1
47.5°	5476.9	5501.3	5682.7	5693.2	5595.5	5529.2	5714.1	5721.1	5633.9	5557.1	5442.0
50°	6000.2	6010.6	6174.6	6342.0	6233.9	6108.3	6296.7	6369.9	6174.6	6069.9	5926.9
52.5°	6575.7	6544.4	6680.4	6994.4	6889.7	6851.3	7053.7	7071.1	6806.0	6642.0	6680.4
55°	7238.6	7196.7	7566.5	7779.3	7713.0	7643.2	7733.9	7775.8	7563.0	7294.4	7388.6
57.5°	8096.7	8117.6	8302.5	8511.8	8620.0	8637.4	8679.3	8637.4	8421.1	8149.0	8061.8
60°	8954.9	9017.7	9377.0	9771.2	9806.1	10113.0	10057.2	9847.9	9540.9	9153.7	9171.2
62.5°	9272.3	9220.0	9799.1	10761.9	11581.7	12143.3	11895.6	11152.6	10441.0	9736.3	9788.6
65°	8633.9	8763.0	9551.4	11058.4	12837.5	15059.7	13741.0	11686.3	10249.1	9338.6	9237.4
67.5°	7440.9	7538.6	8539.7	10130.5	13287.5	16852.7	14438.7	10932.8	9038.6	7859.5	7922.3
70°	5183.9	5232.7	6212.9	8299.0	12049.1	15903.9	13025.9	8396.7	6240.9	4974.5	5044.3
72.5°	2086.1	2204.7	2850.1	4999.0	8895.6	12084.0	8770.0	4405.9	2588.4	1925.6	1747.7
75°	770.9	774.4	910.5	1719.8	4224.5	7594.4	3955.9	1416.3	826.8	676.8	645.4
77.5°	446.5	443.0	474.4	620.9	1224.4	2965.2	1123.3	554.7	450.0	404.7	387.2
80°	279.1	275.6	324.4	411.6	537.2	812.8	474.4	345.4	303.5	261.6	261.6
82.5°	177.9	181.4	254.7	303.5	327.9	359.3	275.6	244.2	226.7	150.0	146.5
85°	115.1	104.7	177.9	202.3	181.4	160.5	153.5	129.1	118.6	73.3	80.2
87.5°	52.3	55.8	90.7	101.2	66.3	38.4	38.4	27.9	27.9	17.4	17.4
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)