

Scaled data based on original data using  
LM-46-04 Photometric Testing of Indoor Luminaires Using High Intensity Discharge  
or Incandescent Filament Lamps (Reaffirmed 2012)

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: STREETWORKS

Report Number: ITL53278\_350MP

Luminaire Tested: **GMX35PXX5SF**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-46-04  
Report Number: ITL53278\_350MP  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GMX35PXX5SF  
Description: 400W MH TYPE V AREA  
Light Source: 350 WATT PULSE-START CLEAR ED-28 HORIZONTAL BURN  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 33000 (1 lamp)  
Luminaire Lumens: 24200.2 lumens  
Efficiency: 73.3%  
Efficacy: 61.0 lumens/watt  
Luminous Opening: Rectangular (W 1.01' x L: 1.03' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B5 - U0 - G3

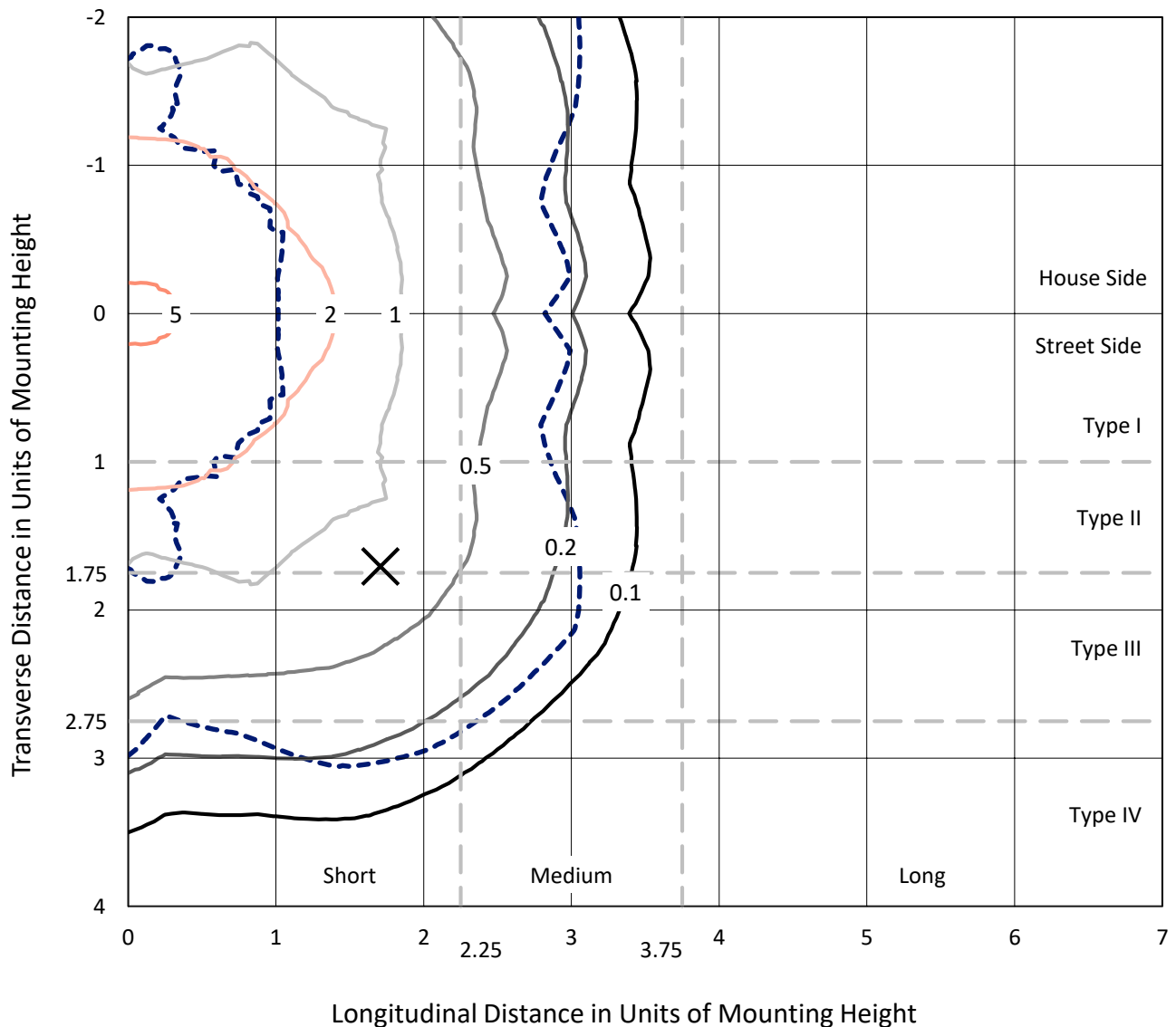
Input Watts (W): 397  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

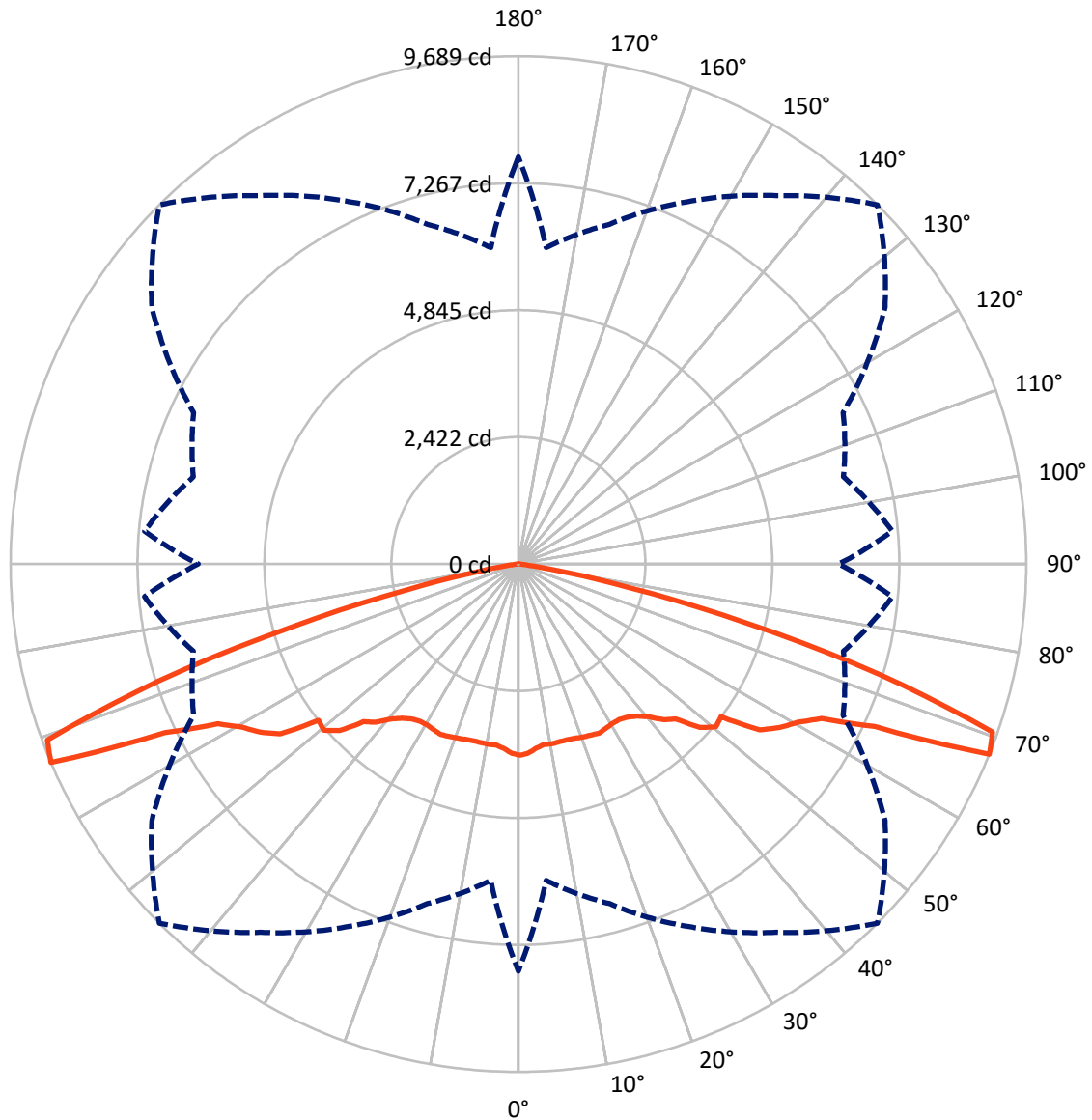
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical



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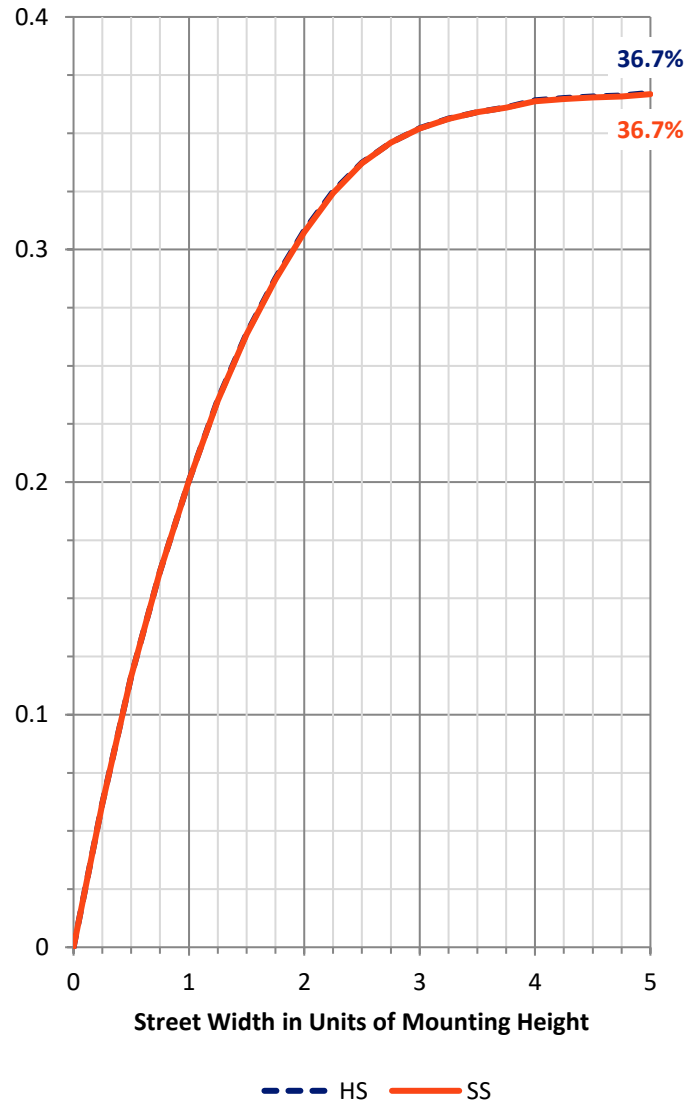
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12100.1	0.0	12100.1
	% Lamp	36.7	0.0	36.7
<b>Street Side</b>	Lumens	12100.1	0.0	12100.1
	% Lamp	36.7	0.0	36.7
<b>Total</b>	Lumens	24200.2	0.0	24200.2
	% Lamp	73.3	0.0	73.3

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	336.0	1.4	1.0
10°-20°	982.6	4.1	3.0
20°-30°	1642.7	6.8	5.0
30°-40°	2267.2	9.4	6.9
40°-50°	3374.7	13.9	10.2
50°-60°	4950.9	20.5	15.0
60°-70°	6747.3	27.9	20.4
70°-80°	3724.3	15.4	11.3
80°-90°	174.5	0.7	0.5
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	24200.2	100.0	73.3
0°-180°	24200.2	100.0	73.3

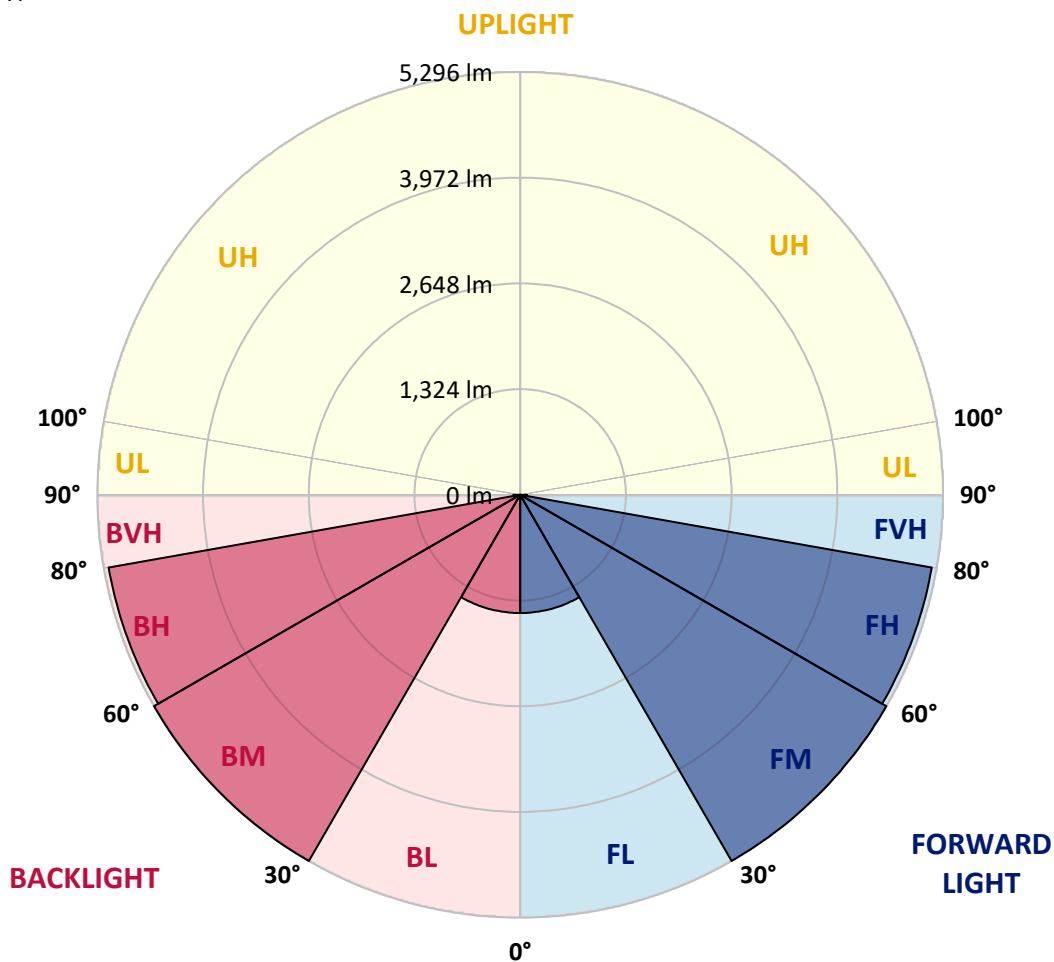


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1480.6	4.5			
FM (30°-60°)	5296.4	16.0			
FH (60°-80°)	5235.8	15.9			G3/7500
FVH (80°-90°)	87.2	0.3			G1/100
BL (0°-30°)	1480.6	4.5	B3/2500		
BM (30°-60°)	5296.4	16.0	B4/8500		
BH (60°-80°)	5235.8	15.9	B5		G3/7500
BVH (80°-90°)	87.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	
Trapped Light	8799.8	26.7			

**BUG Rating: B5-U0-G3**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3649.2	3649.2	3649.2	3649.2	3649.2	3649.2	3649.2	3649.2	3649.2	3649.2	3649.2
2.5°	3593.3	3593.3	3604.3	3604.3	3604.3	3611.7	3616.2	3619.9	3623.6	3630.9	3630.9
5°	3502.6	3506.2	3513.6	3517.2	3521.8	3529.2	3552.1	3577.8	3581.4	3597.0	3600.7
7.5°	3427.4	3431.1	3445.8	3453.1	3468.7	3479.7	3495.2	3509.9	3536.5	3547.5	3547.5
10°	3381.6	3388.9	3411.8	3434.8	3461.3	3487.9	3506.2	3517.2	3540.2	3559.4	3555.8
12.5°	3336.7	3336.7	3363.2	3404.5	3445.8	3479.7	3513.6	3536.5	3552.1	3563.1	3563.1
15°	3260.6	3272.5	3302.8	3363.2	3423.8	3479.7	3521.8	3555.8	3570.4	3577.8	3577.8
17.5°	3238.6	3242.2	3283.5	3347.7	3427.4	3495.2	3555.8	3593.3	3611.7	3619.9	3623.6
20°	3223.0	3234.9	3283.5	3351.3	3427.4	3521.8	3589.7	3638.2	3664.8	3675.8	3675.8
22.5°	3253.2	3272.5	3313.8	3370.6	3438.4	3543.8	3634.6	3698.8	3736.3	3755.6	3751.9
25°	3253.2	3287.2	3340.3	3400.8	3472.3	3574.1	3702.4	3778.5	3823.4	3834.4	3842.7
27.5°	3260.6	3268.8	3321.1	3397.2	3449.4	3552.1	3691.4	3789.5	3842.7	3853.7	3857.3
30°	3155.2	3162.5	3234.9	3321.1	3400.8	3529.2	3664.8	3778.5	3823.4	3842.7	3850.0
32.5°	3087.3	3098.3	3170.8	3279.8	3393.5	3536.5	3675.8	3800.5	3861.0	3902.2	3910.5
35°	3080.0	3094.7	3189.1	3310.1	3445.8	3586.0	3740.0	3872.9	3937.1	3982.0	3985.7
37.5°	3117.6	3132.2	3238.6	3381.6	3525.5	3680.4	3819.8	3962.8	4030.6	4083.8	4099.3
40°	3215.7	3253.2	3397.2	3555.8	3691.4	3830.8	3962.8	4106.7	4204.8	4268.9	4279.9
42.5°	3442.1	3479.7	3616.2	3782.2	3902.2	4060.8	4080.1	4249.7	4389.9	4457.8	4454.1
45°	4023.2	4019.6	4087.4	4170.8	4155.2	4215.8	4287.2	4397.2	4642.0	4759.3	4763.0
47.5°	4468.8	4420.2	4423.8	4363.3	4536.6	4657.6	4299.2	4518.2	5019.7	5151.7	5103.1
50°	4846.4	4830.8	4861.1	4933.5	5137.0	4884.0	5190.2	5117.8	5306.6	5737.4	5631.1
52.5°	4672.2	4684.2	4989.4	4951.8	4796.9	4839.1	5106.8	5099.4	5609.1	6058.2	6031.7
55°	4574.2	4543.9	4914.2	5110.4	5488.1	5582.5	5378.1	5574.2	6140.8	6427.7	6160.0
57.5°	4347.8	4283.6	5099.4	5661.3	6344.2	5884.1	7318.7	7039.1	6144.4	6446.9	6092.2
60°	4808.8	4299.2	4971.1	6058.2	5461.5	6126.1	7533.2	5782.3	5702.6	5857.5	5548.6
62.5°	6031.7	5231.4	5600.8	6714.6	6533.1	6488.2	6782.4	6031.7	6092.2	5963.8	5374.4
65°	7873.2	6235.2	6733.8	7725.7	7126.2	7473.6	8363.7	6891.5	6344.2	6721.9	5805.2
67.5°	7767.8	6058.2	6707.2	7627.6	8579.1	9689.2	8537.8	6835.6	6420.3	7160.1	6106.8
70°	6001.4	4732.8	5597.2	7088.6	8730.3	9594.8	8892.6	6329.6	5461.5	6083.9	5193.8
72.5°	4008.6	3215.7	3978.3	5589.8	6578.9	7224.2	6446.9	5344.2	3672.2	4170.8	3276.2
75°	2422.8	1894.8	2392.5	3706.1	4279.9	4484.3	4766.7	3872.9	2623.5	2755.5	2060.7
77.5°	1328.2	1011.1	1245.8	1917.7	2023.1	2144.1	2495.2	2695.0	1392.4	1434.6	1056.9
80°	618.8	502.3	584.8	759.0	686.6	679.2	811.2	814.9	618.8	562.8	422.6
82.5°	256.7	211.8	230.1	267.7	245.7	207.2	242.0	249.3	237.4	192.5	165.9
85°	90.8	75.2	75.2	83.4	71.5	64.2	67.8	71.5	78.8	60.5	53.2
87.5°	7.3	3.7	3.7	7.3	3.7	3.7	3.7	3.7	3.7	3.7	7.3
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°	3649.2	3649.2	3649.2	3649.2	3649.2	3649.2	3649.2	3649.2	3649.2	3649.2
2.5°	3630.9	3623.6	3619.9	3616.2	3611.7	3604.3	3604.3	3604.3	3593.3	3593.3
5°	3597.0	3581.4	3577.8	3552.1	3529.2	3521.8	3517.2	3513.6	3506.2	3502.6
7.5°	3547.5	3536.5	3509.9	3495.2	3479.7	3468.7	3453.1	3445.8	3431.1	3427.4
10°	3559.4	3540.2	3517.2	3506.2	3487.9	3461.3	3434.8	3411.8	3388.9	3381.6
12.5°	3563.1	3552.1	3536.5	3513.6	3479.7	3445.8	3404.5	3363.2	3336.7	3336.7
15°	3577.8	3570.4	3555.8	3521.8	3479.7	3423.8	3363.2	3302.8	3272.5	3260.6
17.5°	3619.9	3611.7	3593.3	3555.8	3495.2	3427.4	3347.7	3283.5	3242.2	3238.6
20°	3675.8	3664.8	3638.2	3589.7	3521.8	3427.4	3351.3	3283.5	3234.9	3223.0
22.5°	3755.6	3736.3	3698.8	3634.6	3543.8	3438.4	3370.6	3313.8	3272.5	3253.2
25°	3834.4	3823.4	3778.5	3702.4	3574.1	3472.3	3400.8	3340.3	3287.2	3253.2
27.5°	3853.7	3842.7	3789.5	3691.4	3552.1	3449.4	3397.2	3321.1	3268.8	3260.6
30°	3842.7	3823.4	3778.5	3664.8	3529.2	3400.8	3321.1	3234.9	3162.5	3155.2
32.5°	3902.2	3861.0	3800.5	3675.8	3536.5	3393.5	3279.8	3170.8	3098.3	3087.3
35°	3982.0	3937.1	3872.9	3740.0	3586.0	3445.8	3310.1	3189.1	3094.7	3080.0
37.5°	4083.8	4030.6	3962.8	3819.8	3680.4	3525.5	3381.6	3238.6	3132.2	3117.6
40°	4268.9	4204.8	4106.7	3962.8	3830.8	3691.4	3555.8	3397.2	3253.2	3215.7
42.5°	4457.8	4389.9	4249.7	4080.1	4060.8	3902.2	3782.2	3616.2	3479.7	3442.1
45°	4759.3	4642.0	4397.2	4287.2	4215.8	4155.2	4170.8	4087.4	4019.6	4023.2
47.5°	5151.7	5019.7	4518.2	4299.2	4657.6	4536.6	4363.3	4423.8	4420.2	4468.8
50°	5737.4	5306.6	5117.8	5190.2	4884.0	5137.0	4933.5	4861.1	4830.8	4846.4
52.5°	6058.2	5609.1	5099.4	5106.8	4839.1	4796.9	4951.8	4989.4	4684.2	4672.2
55°	6427.7	6140.8	5574.2	5378.1	5582.5	5488.1	5110.4	4914.2	4543.9	4574.2
57.5°	6446.9	6144.4	7039.1	7318.7	5884.1	6344.2	5661.3	5099.4	4283.6	4347.8
60°	5857.5	5702.6	5782.3	7533.2	6126.1	5461.5	6058.2	4971.1	4299.2	4808.8
62.5°	5963.8	6092.2	6031.7	6782.4	6488.2	6533.1	6714.6	5600.8	5231.4	6031.7
65°	6721.9	6344.2	6891.5	8363.7	7473.6	7126.2	7725.7	6733.8	6235.2	7873.2
67.5°	7160.1	6420.3	6835.6	8537.8	9689.2	8579.1	7627.6	6707.2	6058.2	7767.8
70°	6083.9	5461.5	6329.6	8892.6	9594.8	8730.3	7088.6	5597.2	4732.8	6001.4
72.5°	4170.8	3672.2	5344.2	6446.9	7224.2	6578.9	5589.8	3978.3	3215.7	4008.6
75°	2755.5	2623.5	3872.9	4766.7	4484.3	4279.9	3706.1	2392.5	1894.8	2422.8
77.5°	1434.6	1392.4	2695.0	2495.2	2144.1	2023.1	1917.7	1245.8	1011.1	1328.2
80°	562.8	618.8	814.9	811.2	679.2	686.6	759.0	584.8	502.3	618.8
82.5°	192.5	237.4	249.3	242.0	207.2	245.7	267.7	230.1	211.8	256.7
85°	60.5	78.8	71.5	67.8	64.2	71.5	83.4	75.2	75.2	90.8
87.5°	3.7	3.7	3.7	3.7	3.7	3.7	7.3	3.7	3.7	7.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)