

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: LUMARK

Report Number: P381121

Luminaire Tested: **PRV-XL-PA3B-730-U-T2U**

Issue Date: 1/15/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P381121  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-12)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 1/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: PRV-XL-PA3B-730-U-T2U  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 980mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27882 lumens  
Efficiency: N/A  
Efficacy: 119.2 lumens/watt  
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4

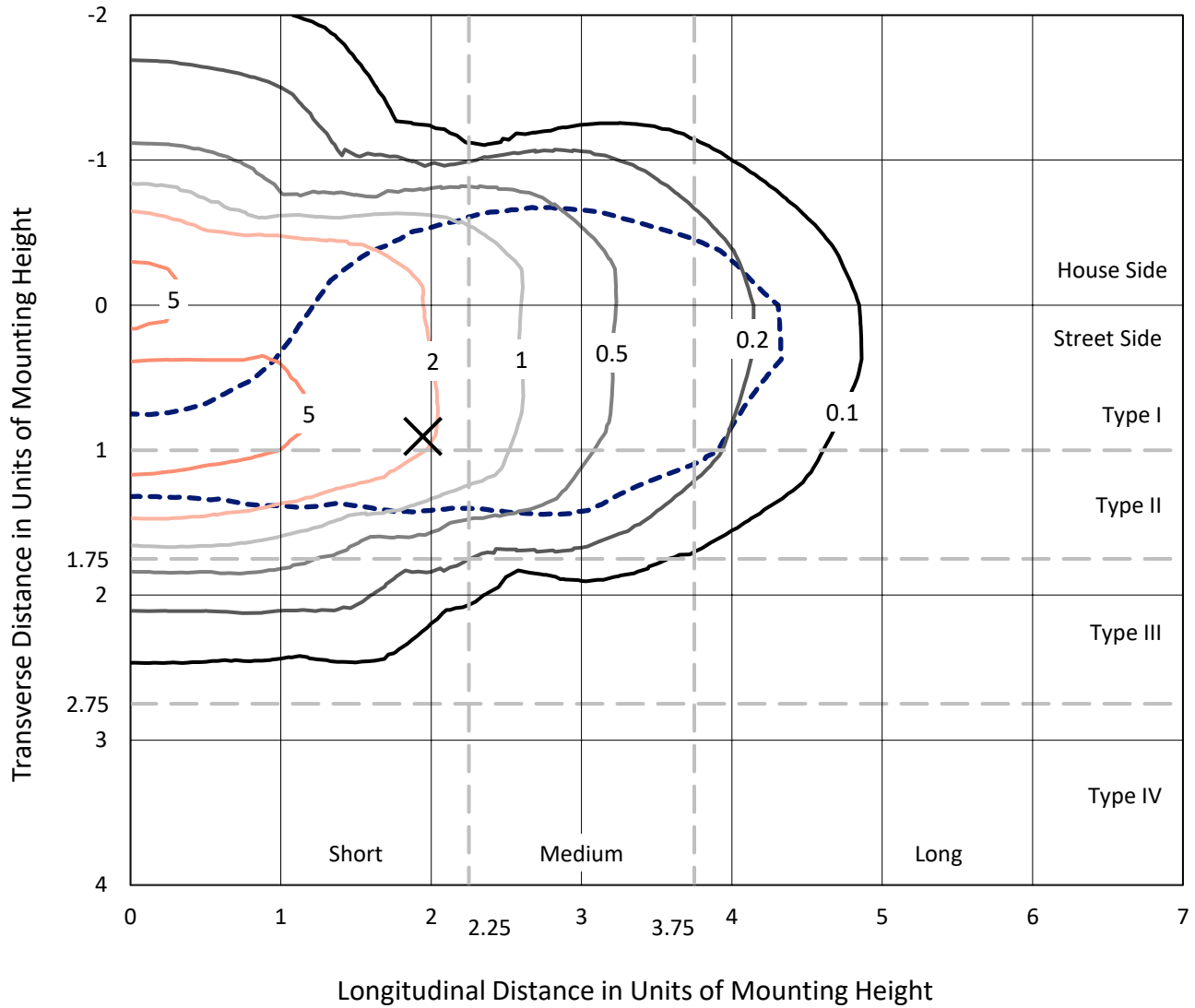
Input Watts (W): 234  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

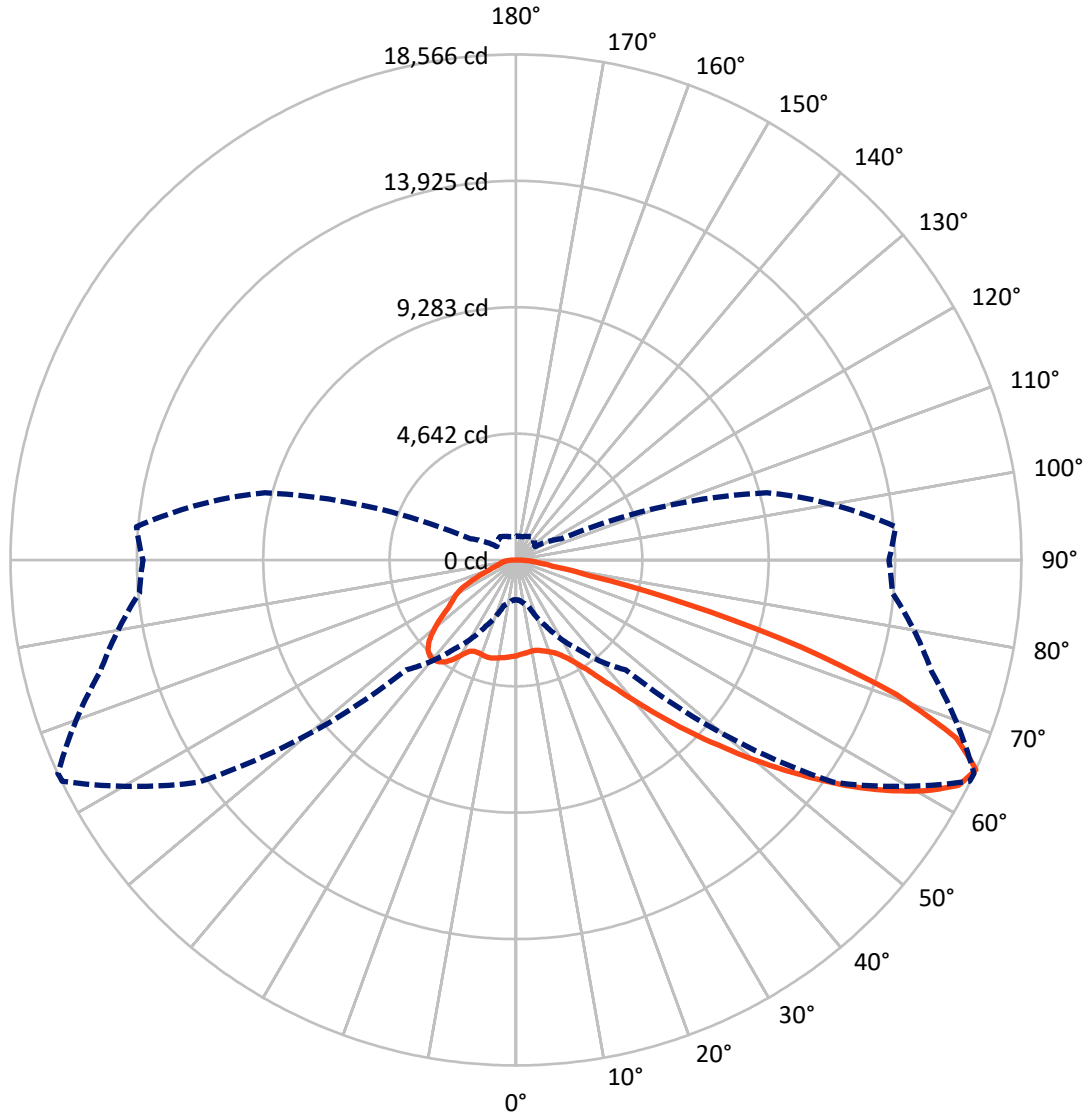
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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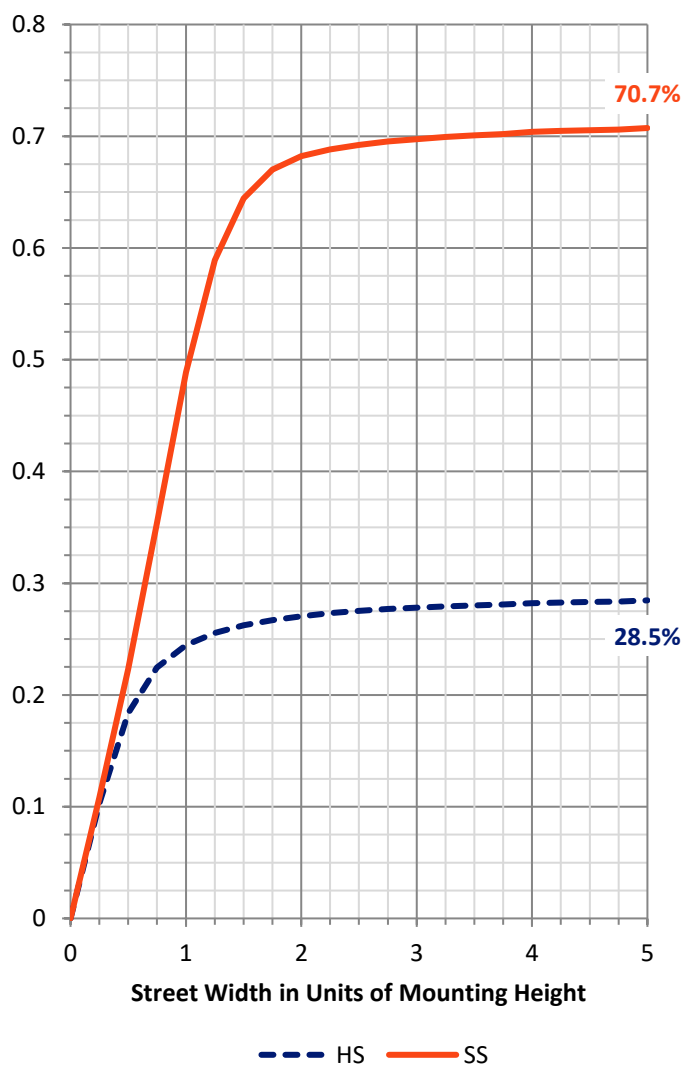
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8061.1	0.0	8061.1
	% Fixture	28.9	0.0	28.9
<b>Street Side</b>	Lumens	19820.9	0.0	19820.9
	% Fixture	71.1	0.0	71.1
<b>Total</b>	Lumens	27882.0	0.0	27882.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	335.6	1.2
10°-20°	1002.1	3.6
20°-30°	1780.1	6.4
30°-40°	3011.5	10.8
40°-50°	5242.4	18.8
50°-60°	6774.8	24.3
60°-70°	5928.3	21.3
70°-80°	3224.6	11.6
80°-90°	582.6	2.1
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°	27882.0	100.0
0°-180°	27882.0	100.0

**Coefficient of Utilization**



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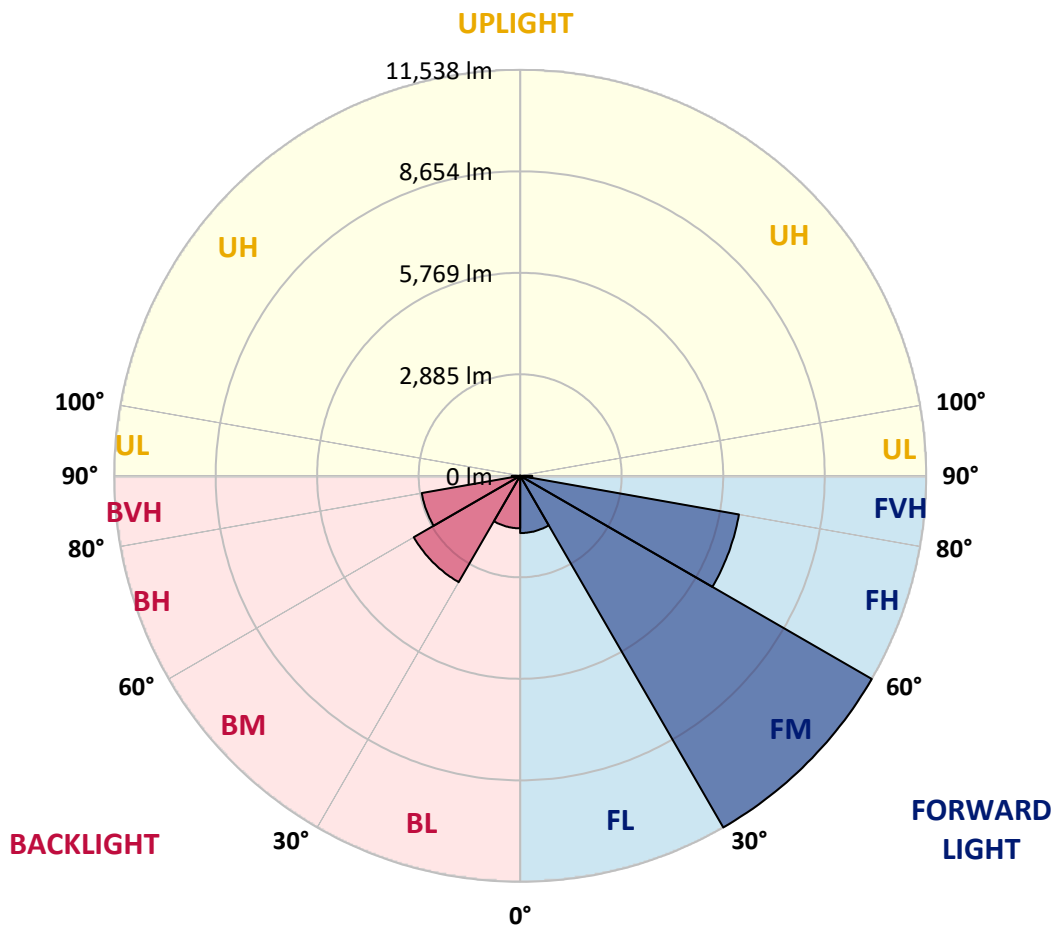
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1626.8	5.8			
FM (30°-60°)	11538.3	41.4			
FH (60°-80°)	6312.9	22.6			G3/7500
FVH (80°-90°)	342.8	1.2			G3/500
BL (0°-30°)	1491.0	5.3	B3/2500		
BM (30°-60°)	3490.3	12.5	B3/5000		
BH (60°-80°)	2840.0	10.2	B4/5000		G4/5000
BVH (80°-90°)	239.8	0.9			G3/500
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°	64°	65°	75°	85°
0°	3523.2	3523.2	3523.2	3523.2	3523.2	3523.2	3523.2	3523.2	3523.2	3523.2	3523.2
2.5°	3460.8	3457.1	3449.8	3457.1	3460.8	3468.1	3464.4	3471.8	3468.1	3479.1	3497.5
5°	3372.7	3365.4	3361.7	3380.0	3391.0	3409.4	3416.7	3442.4	3438.8	3457.1	3486.5
7.5°	3273.6	3273.6	3269.9	3292.0	3306.6	3339.7	3365.4	3409.4	3413.1	3446.1	3479.1
10°	3196.5	3200.2	3196.5	3214.9	3236.9	3277.3	3321.3	3383.7	3387.4	3435.1	3468.1
12.5°	3167.2	3167.2	3167.2	3192.9	3222.2	3277.3	3328.7	3394.7	3402.1	3453.4	3482.8
15°	3207.5	3211.2	3203.9	3229.6	3262.6	3328.7	3376.4	3446.1	3453.4	3501.1	3519.5
17.5°	3350.7	3365.4	3347.0	3361.7	3354.3	3405.7	3449.8	3519.5	3523.2	3563.5	3570.9
20°	3633.3	3647.9	3618.6	3600.2	3534.2	3530.5	3548.8	3603.9	3603.9	3629.6	3611.2
22.5°	4070.0	4084.7	4033.3	3963.6	3805.7	3728.7	3688.3	3714.0	3710.3	3721.3	3673.6
25°	4649.8	4646.2	4583.8	4455.3	4202.1	4014.9	3915.8	3875.5	3875.5	3853.5	3794.7
27.5°	5369.1	5314.1	5204.0	5049.9	4697.5	4437.0	4224.1	4121.4	4103.0	4037.0	3926.9
30°	6136.2	6095.8	5938.0	5714.1	5306.8	4972.8	4620.5	4415.0	4403.9	4260.8	4095.7
32.5°	7039.0	6972.9	6796.8	6528.9	6040.8	5571.0	5130.6	4818.7	4800.3	4572.8	4345.2
35°	8198.7	8143.6	7802.3	7534.4	6906.9	6290.3	5769.2	5354.5	5339.8	5060.9	4770.9
37.5°	9589.6	9446.5	9116.2	8613.4	7952.8	7222.5	6561.9	6040.8	6022.4	5714.1	5347.1
40°	10830.0	10701.6	10408.0	9945.6	9237.3	8426.2	7530.8	6899.5	6881.2	6506.8	6044.4
42.5°	11747.5	11659.5	11468.6	11200.7	10694.3	10202.5	8767.5	7938.1	7905.1	7420.7	6844.5
45°	12279.7	12209.9	12099.9	12165.9	12158.6	12066.8	10242.9	9174.9	9068.5	8440.9	7736.3
47.5°	12151.2	12088.8	12132.9	12646.7	13355.0	13887.1	11960.4	10441.0	10297.9	9479.5	8686.8
50°	11222.7	11248.4	11479.6	12463.2	14052.3	15234.0	13865.1	11883.3	11692.5	10525.4	9589.6
52.5°	9530.9	9593.3	10154.8	11531.0	13975.2	16107.4	15586.3	13373.3	13120.1	11545.7	10411.7
55°	7571.1	7728.9	8455.6	9901.5	12969.6	16169.8	16885.5	14870.7	14591.8	12503.5	11127.3
57.5°	5600.4	5835.2	6675.7	8004.2	11042.9	15182.6	17535.1	16302.0	15964.3	13454.1	11883.3
60°	3552.5	3695.6	4664.5	6231.6	8451.9	12767.8	17450.6	17520.4	17226.8	14400.9	12672.4
62.5°	2268.0	2337.8	2825.9	4444.3	5908.6	9453.8	16529.5	18441.5	18243.4	15263.4	13421.0
65°	1457.0	1486.3	1735.9	2734.1	4022.3	5706.8	14235.8	18540.6	18566.3	15802.8	13883.4
67.5°	1185.4	1200.1	1291.8	1688.2	2844.2	3152.5	9916.2	17131.4	17443.3	15663.4	13725.6
70°	1079.0	1097.3	1192.7	1346.9	2202.0	2176.3	4800.3	14334.9	14845.0	14859.7	13024.7
72.5°	910.1	935.8	1064.3	1273.5	1702.9	1717.5	2033.2	10209.8	10962.2	13281.6	11971.4
75°	759.7	774.4	884.5	1123.0	1442.3	1372.6	1427.6	5413.2	6499.5	10650.2	10852.1
77.5°	616.6	631.2	712.0	895.5	1280.8	1068.0	1123.0	2242.3	2770.8	7229.8	8870.3
80°	440.4	455.1	546.8	697.3	968.9	961.5	833.1	1236.8	1343.2	3908.5	5761.8
82.5°	315.6	326.6	414.7	499.1	671.6	965.2	627.6	840.4	880.8	1732.2	2323.1
85°	212.9	212.9	286.3	330.3	433.1	609.2	506.5	568.8	594.5	822.1	627.6
87.5°	91.7	91.7	154.1	168.8	227.5	282.6	378.0	286.3	293.6	444.1	256.9
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°	3523.2	3523.2	3523.2	3523.2	3523.2	3523.2	3523.2	3523.2	3523.2	3523.2	3523.2
2.5°	3508.5	3512.1	3519.5	3541.5	3556.2	3578.2	3589.2	3603.9	3603.9	3596.6	3600.2
5°	3501.1	3512.1	3537.8	3578.2	3603.9	3644.3	3673.6	3695.6	3703.0	3695.6	3699.3
7.5°	3497.5	3515.8	3559.9	3618.6	3655.3	3706.7	3747.0	3772.7	3791.1	3783.7	3787.4
10°	3486.5	3515.8	3570.9	3644.3	3699.3	3750.7	3787.4	3798.4	3809.4	3802.1	3798.4
12.5°	3501.1	3534.2	3592.9	3681.0	3743.4	3783.7	3794.7	3776.4	3750.7	3736.0	3732.3
15°	3530.5	3563.5	3622.2	3714.0	3769.0	3783.7	3758.0	3699.3	3640.6	3607.6	3603.9
17.5°	3570.9	3592.9	3640.6	3721.3	3765.4	3747.0	3695.6	3625.9	3581.9	3556.2	3559.9
20°	3596.6	3596.6	3633.3	3695.6	3732.3	3717.7	3655.3	3578.2	3508.5	3475.4	3464.4
22.5°	3633.3	3614.9	3618.6	3673.6	3725.0	3703.0	3570.9	3435.1	3336.0	3299.3	3295.6
25°	3732.3	3681.0	3647.9	3681.0	3802.1	3622.2	3358.0	3200.2	3108.5	3075.4	3079.1
27.5°	3853.5	3783.7	3714.0	3769.0	3864.5	3438.8	3086.4	2906.6	2851.6	2825.9	2836.9
30°	3974.6	3882.8	3791.1	3989.2	3820.4	3152.5	2737.8	2561.6	2513.9	2495.6	2510.3
32.5°	4198.4	4048.0	3937.9	4282.8	3684.6	2825.9	2359.8	2198.3	2154.3	2132.2	2124.9
35°	4572.8	4381.9	4271.8	4539.7	3493.8	2462.5	2014.8	1901.0	1853.3	1805.6	1798.3
37.5°	5112.3	4881.0	4782.0	4686.5	3225.9	2102.9	1750.6	1673.5	1603.8	1530.4	1526.7
40°	5758.2	5457.2	5383.8	4752.6	2855.2	1765.2	1567.1	1493.7	1405.6	1335.9	1339.5
42.5°	6503.2	6117.8	5960.0	4734.2	2396.5	1585.4	1435.0	1354.2	1277.1	1214.8	1211.1
45°	7299.5	6862.8	6499.5	4605.8	1941.4	1460.6	1354.2	1258.8	1181.7	1112.0	1104.7
47.5°	8180.3	7692.2	6998.6	4356.2	1603.8	1372.6	1306.5	1170.7	1101.0	1056.9	1056.9
50°	9068.5	8484.9	7457.4	3978.2	1405.6	1306.5	1236.8	1123.0	1068.0	1031.3	1031.3
52.5°	9828.1	9310.7	7835.4	3526.8	1280.8	1251.5	1189.1	1101.0	1042.3	1009.2	1005.6
55°	10565.8	10077.7	8173.0	3079.1	1178.1	1178.1	1178.1	1082.6	1016.6	987.2	983.5
57.5°	11299.8	10885.1	8525.3	2785.5	1086.3	1115.7	1156.0	1060.6	994.6	968.9	965.2
60°	12129.2	11854.0	8932.7	2580.0	1005.6	1049.6	1126.7	1034.9	957.9	935.8	932.2
62.5°	13010.0	13010.0	9303.3	2290.1	932.2	994.6	1082.6	1001.9	924.8	906.5	902.8
65°	13700.0	13997.2	9541.9	1857.0	858.8	939.5	1031.3	957.9	880.8	877.1	869.8
67.5°	13780.7	14246.8	9391.4	1401.9	792.7	880.8	979.9	910.1	836.8	836.8	825.7
70°	13200.8	13674.3	8921.7	1049.6	745.0	822.1	913.8	851.4	781.7	789.0	770.7
72.5°	12232.0	12349.4	7754.6	829.4	690.0	759.7	833.1	785.4	723.0	723.0	697.3
75°	10954.8	10301.6	5633.4	693.6	623.9	686.3	752.3	712.0	656.9	638.6	623.9
77.5°	8719.8	7464.7	3273.6	598.2	568.8	616.6	660.6	631.2	583.5	543.2	543.2
80°	5314.1	4374.6	1446.0	517.5	502.8	539.5	568.8	535.8	495.4	455.1	444.1
82.5°	2022.1	1688.2	701.0	444.1	440.4	462.4	484.4	451.4	422.0	403.7	348.6
85°	554.2	510.1	480.8	370.7	363.3	359.7	385.3	370.7	330.3	271.6	242.2
87.5°	209.2	238.5	260.6	227.5	242.2	223.9	256.9	234.9	209.2	135.8	121.1
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)