

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: P380993

Luminaire Tested: **PRV-XL-PA3B-730-U-T4W**

Issue Date: 1/15/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P380993  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-11)  
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-T4W  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 980mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27468 lumens  
Efficiency: N/A  
Efficacy: 117.4 lumens/watt  
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5

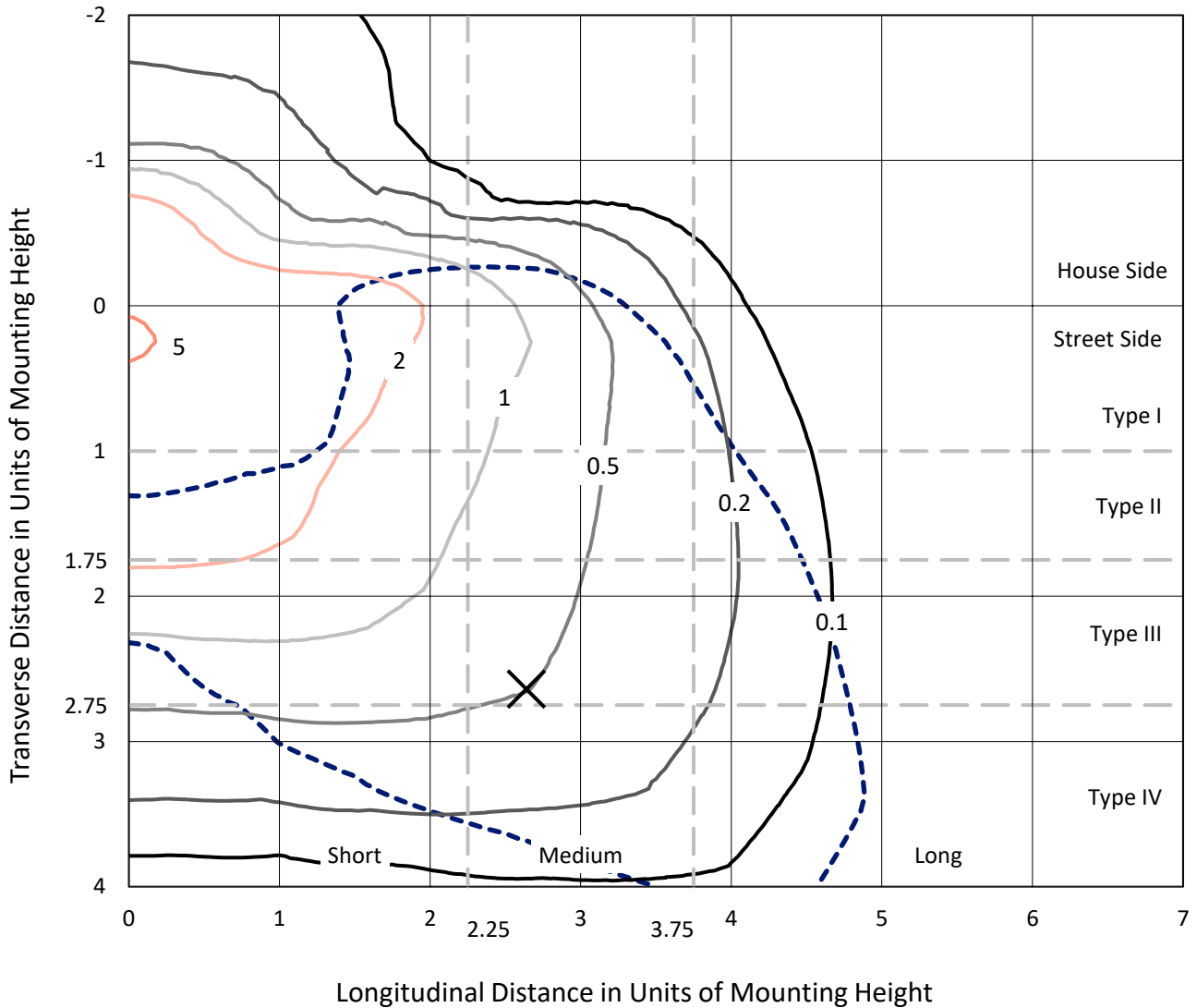
Input Watts (W): 234  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

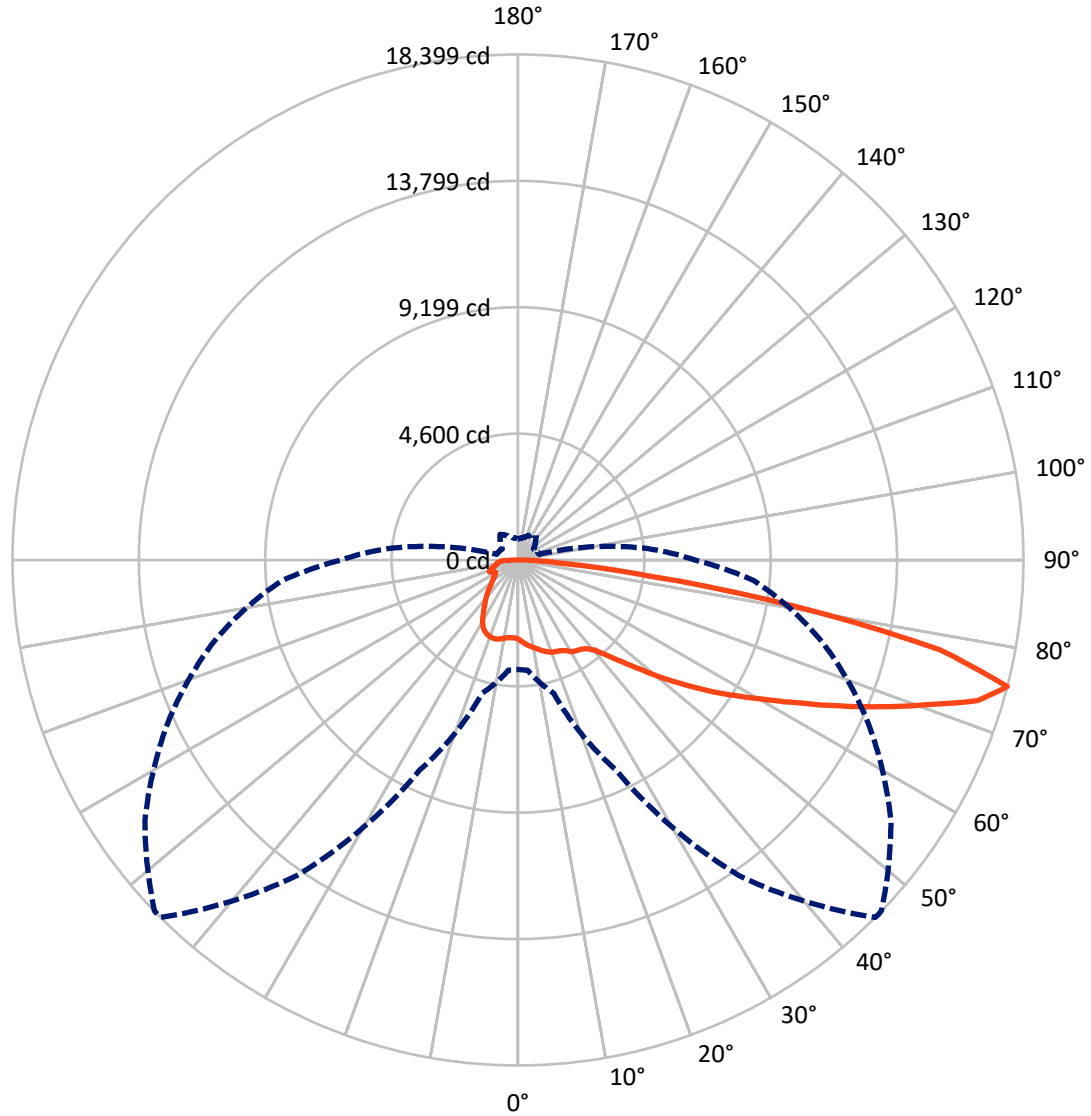
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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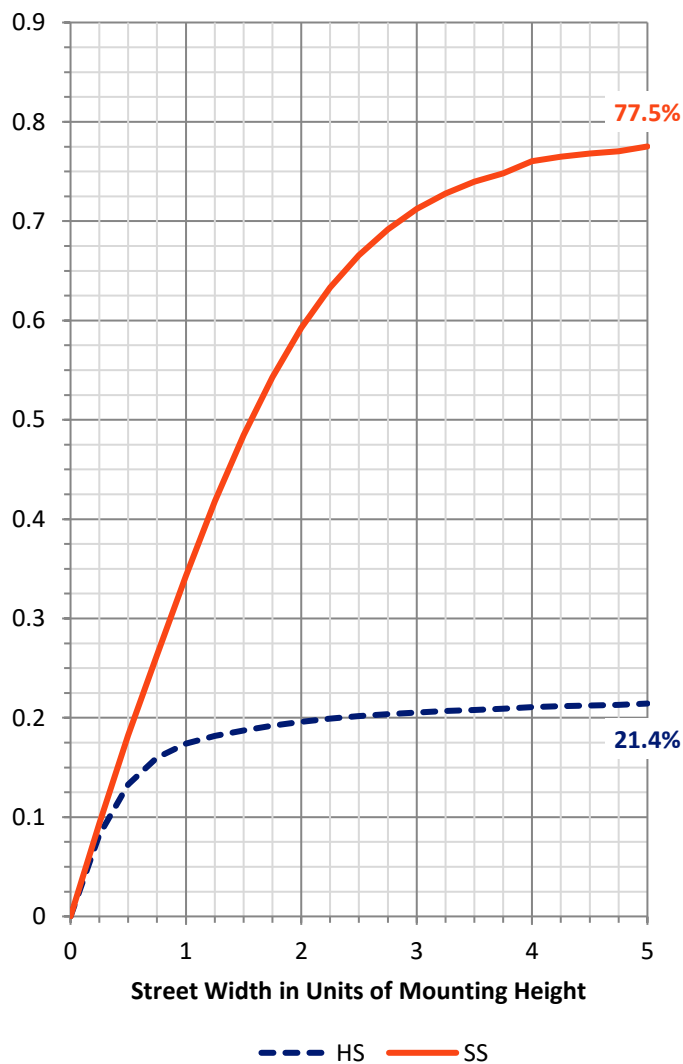
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6070.3	0.0	6070.3
	% Fixture	22.1	0.0	22.1
<b>Street Side</b>	Lumens	21397.7	0.0	21397.7
	% Fixture	77.9	0.0	77.9
<b>Total</b>	Lumens	27468.0	0.0	27468.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	285.4	1.0
10°-20°	907.9	3.3
20°-30°	1547.9	5.6
30°-40°	2168.7	7.9
40°-50°	3186.2	11.6
50°-60°	5070.8	18.5
60°-70°	7213.3	26.3
70°-80°	6039.7	22.0
80°-90°	1048.2	3.8
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°	27468.0	100.0
0°-180°	27468.0	100.0

**Coefficient of Utilization**



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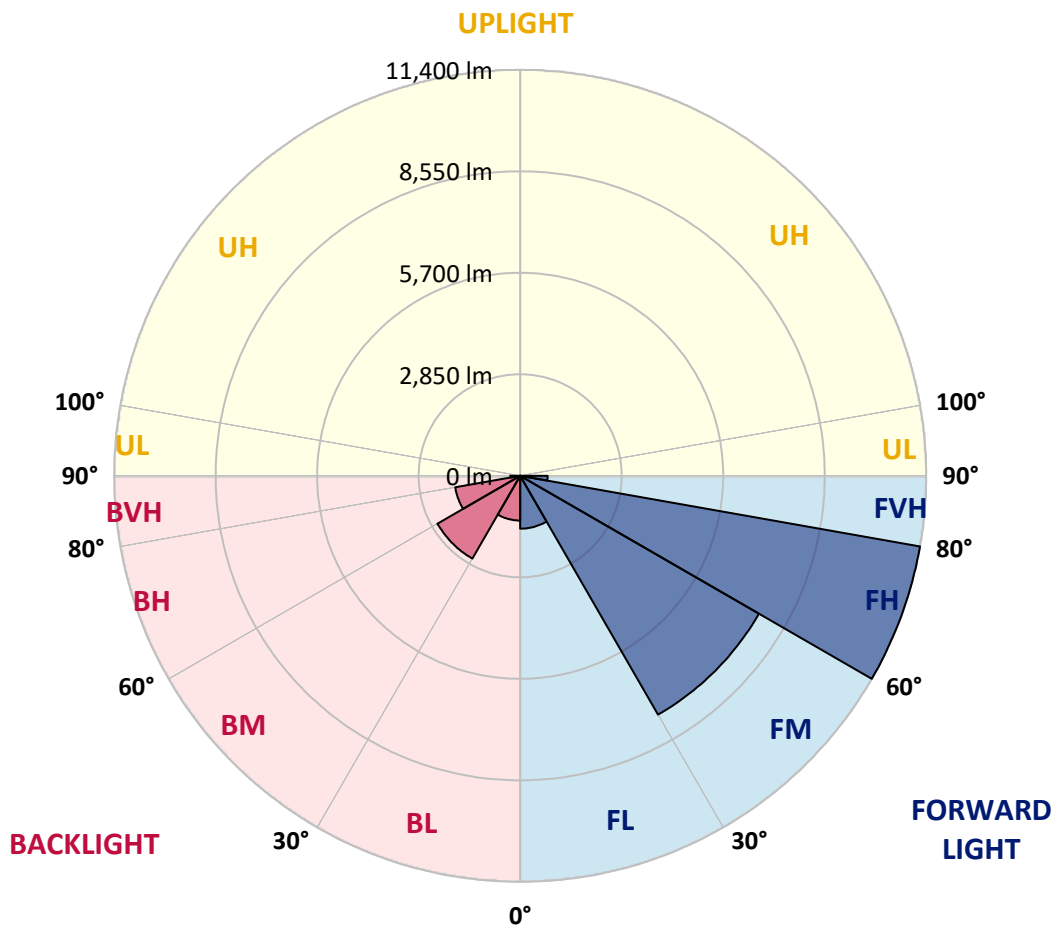
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1484.8	5.4			
FM (30°-60°)	7742.4	28.2			
FH (60°-80°)	11399.9	41.5			G4/12000
FVH (80°-90°)	770.6	2.8			G5
BL (0°-30°)	1256.3	4.6	B3/2500		
BM (30°-60°)	2683.4	9.8	B3/5000		
BH (60°-80°)	1853.0	6.7	B3/2500		G3/2500
BVH (80°-90°)	277.6	1.0			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2884.7	2884.7	2884.7	2884.7	2884.7	2884.7	2884.7	2884.7	2884.7	2884.7	2884.7
2.5°	3049.9	3035.2	3027.9	3027.9	2998.5	2980.2	2976.5	2950.8	2928.8	2906.8	2888.4
5°	3226.1	3215.1	3193.0	3174.7	3134.3	3082.9	3075.6	3020.5	2965.5	2914.1	2870.1
7.5°	3387.6	3365.5	3339.8	3303.1	3237.1	3167.3	3156.3	3079.3	3002.2	2925.1	2866.4
10°	3523.3	3501.3	3464.6	3413.2	3328.8	3244.4	3233.4	3152.7	3071.9	2980.2	2895.8
12.5°	3651.8	3633.5	3578.4	3508.7	3409.6	3332.5	3321.5	3251.8	3167.3	3064.6	2954.5
15°	3761.9	3743.6	3684.8	3604.1	3490.3	3431.6	3416.9	3350.9	3266.4	3156.3	3042.6
17.5°	3817.0	3817.0	3754.6	3666.5	3560.0	3516.0	3505.0	3424.3	3347.2	3240.7	3127.0
20°	3835.3	3842.7	3798.6	3692.2	3600.4	3582.1	3571.1	3505.0	3416.9	3314.1	3207.7
22.5°	3846.3	3861.0	3824.3	3703.2	3626.1	3615.1	3607.8	3563.7	3494.0	3394.9	3288.5
25°	3883.0	3883.0	3857.3	3721.5	3659.1	3655.5	3655.5	3629.8	3582.1	3497.7	3391.2
27.5°	3938.1	3934.4	3901.4	3761.9	3732.5	3743.6	3739.9	3736.2	3703.2	3618.8	3505.0
30°	4029.8	4029.8	3993.1	3842.7	3824.3	3872.0	3875.7	3883.0	3831.6	3699.5	3607.8
32.5°	4169.3	4154.6	4117.9	3923.4	3894.0	3938.1	3945.4	3941.7	3897.7	3772.9	3728.9
35°	4598.7	4565.7	4433.5	4103.2	3956.4	3982.1	3985.8	4004.1	4011.5	3912.4	3890.4
37.5°	5351.1	5307.0	5105.2	4529.0	4154.6	4092.2	4088.6	4136.3	4176.6	4088.6	4088.6
40°	6169.5	6132.8	6015.4	5263.0	4521.6	4316.1	4301.4	4345.5	4396.8	4334.5	4352.8
42.5°	6874.2	6903.6	6914.6	6041.1	5072.2	4734.5	4694.1	4631.7	4712.5	4657.4	4730.8
45°	7402.7	7388.0	7589.9	6837.5	5784.2	5259.3	5204.3	5035.5	5138.2	5134.5	5296.0
47.5°	7964.2	7938.5	8023.0	7586.2	6595.3	5901.6	5817.2	5567.6	5721.8	5828.2	6096.1
50°	8496.4	8503.7	8533.1	8177.1	7476.1	6683.4	6576.9	6242.9	6463.1	6687.0	7065.0
52.5°	9190.1	9138.7	9102.0	8867.1	8463.4	7498.1	7428.4	7046.7	7355.0	7619.2	8122.1
55°	9795.6	9762.6	9740.6	9729.6	9289.2	8397.3	8323.9	7927.5	8371.6	8558.8	9300.2
57.5°	10441.6	10423.2	10540.7	10727.9	10551.7	9311.2	9234.1	8852.4	9347.9	9480.0	10577.4
60°	10915.0	10926.0	11249.0	11726.1	11605.0	10302.1	10210.4	9872.7	10298.5	10415.9	11854.6
62.5°	10918.7	11028.8	11777.5	12632.7	12772.1	11443.5	11337.1	10970.1	11274.7	11274.7	12999.7
65°	9876.4	10001.2	11682.1	12856.5	13953.9	12801.5	12698.7	12122.5	12236.3	12082.1	14075.0
67.5°	8837.7	8984.5	10566.4	12874.9	14783.4	14254.9	14133.8	13274.9	13080.4	12691.4	14827.4
70°	8147.7	8250.5	9571.8	12636.3	15282.5	15774.3	15682.6	14368.7	13744.7	13201.5	14669.6
72.5°	6859.5	6822.8	8085.3	11502.3	15561.5	17499.3	17422.2	15557.8	14320.9	12959.3	12511.6
75°	3982.1	4026.2	5017.1	8426.7	14027.3	18398.5	18391.1	16574.4	14067.7	11447.2	8621.2
77.5°	1148.8	1181.8	1647.9	3703.2	8870.8	15693.6	16196.4	15157.7	11891.3	8158.8	4470.2
80°	502.8	528.5	715.7	1233.2	3820.6	10250.7	10691.2	10250.7	7171.5	3743.6	1754.3
82.5°	297.3	315.6	466.1	763.4	1831.4	4877.6	5472.2	4778.5	3093.9	1589.2	726.7
85°	168.8	176.2	267.9	484.5	1152.4	1706.6	1915.8	1794.7	1508.4	902.9	381.7
87.5°	77.1	80.7	132.1	227.5	645.9	576.2	598.2	792.8	873.5	550.5	190.8
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°	2884.7	2884.7	2884.7	2884.7	2884.7	2884.7	2884.7	2884.7	2884.7	2884.7	2884.7
2.5°	2881.1	2870.1	2848.0	2840.7	2829.7	2833.4	2837.0	2837.0	2840.7	2829.7	2829.7
5°	2851.7	2833.4	2811.3	2811.3	2811.3	2840.7	2866.4	2881.1	2888.4	2888.4	2881.1
7.5°	2840.7	2818.7	2793.0	2800.3	2807.7	2844.4	2892.1	2939.8	2954.5	2954.5	2947.1
10°	2862.7	2840.7	2822.3	2833.4	2851.7	2881.1	2917.8	2961.8	2998.5	3002.2	2998.5
12.5°	2914.1	2888.4	2870.1	2892.1	2914.1	2932.5	2950.8	2969.2	3016.9	3024.2	3024.2
15°	2998.5	2972.8	2950.8	2969.2	2976.5	2976.5	2976.5	2976.5	3024.2	3031.5	3031.5
17.5°	3082.9	3060.9	3038.9	3042.6	3020.5	2991.2	2980.2	2976.5	3002.2	3024.2	3027.9
20°	3163.7	3145.3	3123.3	3086.6	3031.5	2976.5	2958.1	2958.1	2972.8	3005.9	3005.9
22.5°	3251.8	3229.7	3193.0	3108.6	3016.9	2939.8	2921.4	2932.5	2950.8	2994.8	2991.2
25°	3350.9	3321.5	3259.1	3101.3	2969.2	2877.4	2881.1	2914.1	2947.1	2994.8	2994.8
27.5°	3461.0	3420.6	3295.8	3042.6	2862.7	2774.6	2807.7	2884.7	2932.5	2983.8	2991.2
30°	3582.1	3545.4	3325.2	2939.8	2690.2	2609.5	2690.2	2815.0	2888.4	2936.1	2947.1
32.5°	3728.9	3699.5	3350.9	2807.7	2466.3	2396.6	2514.1	2668.2	2785.6	2840.7	2851.7
35°	3912.4	3883.0	3383.9	2657.2	2257.1	2183.7	2290.2	2448.0	2602.1	2671.9	2693.9
37.5°	4150.9	4106.9	3413.2	2495.7	2081.0	1996.6	2047.9	2191.1	2330.5	2426.0	2451.7
40°	4455.6	4385.8	3438.9	2312.2	1926.8	1831.4	1849.8	1919.5	2000.2	2084.6	2117.7
42.5°	4885.0	4745.5	3442.6	2117.7	1769.0	1680.9	1673.6	1695.6	1695.6	1695.6	1706.6
45°	5483.2	5219.0	3449.9	1934.2	1607.5	1515.8	1493.8	1486.4	1431.4	1324.9	1317.6
47.5°	6239.3	5839.2	3483.0	1780.0	1438.7	1358.0	1328.6	1299.2	1196.5	1086.4	1064.3
50°	7208.2	6558.6	3549.0	1633.2	1295.6	1240.5	1203.8	1134.1	1020.3	935.9	913.9
52.5°	8323.9	7413.7	3611.4	1479.1	1189.1	1152.4	1108.4	1024.0	902.9	851.5	844.1
55°	9604.8	8368.0	3736.2	1343.3	1097.4	1071.7	1031.3	950.6	858.8	822.1	818.4
57.5°	10915.0	9436.0	3912.4	1222.2	1009.3	994.6	994.6	924.9	866.2	851.5	851.5
60°	12177.6	10353.5	3776.6	1108.4	928.5	935.9	1005.6	987.3	943.2	961.6	972.6
62.5°	13157.5	10893.0	3064.6	1016.6	869.8	935.9	1115.7	1115.7	1064.3	1057.0	1057.0
65°	13575.9	10885.7	2154.4	946.9	847.8	1027.6	1244.2	1185.5	1049.7	998.3	987.3
67.5°	13469.5	10408.6	1486.4	899.2	840.5	1123.1	1302.9	1137.7	983.6	939.6	906.5
70°	12533.6	9399.3	1145.1	855.1	829.5	1082.7	1284.6	1082.7	932.2	891.8	862.5
72.5°	10111.3	7538.5	950.6	811.1	785.4	1002.0	1222.2	1031.3	891.8	847.8	818.4
75°	6448.5	4741.8	803.8	752.4	701.0	899.2	1137.7	979.9	847.8	789.1	767.1
77.5°	3101.3	2044.3	701.0	682.6	631.3	833.1	1053.3	913.9	789.1	741.4	726.7
80°	1255.2	935.9	609.2	612.9	579.9	792.8	994.6	851.5	730.4	679.0	653.3
82.5°	653.3	543.2	513.8	528.5	528.5	756.1	950.6	800.1	679.0	657.0	572.5
85°	352.3	337.7	396.4	425.7	458.8	682.6	884.5	745.0	620.3	532.2	513.8
87.5°	172.5	220.2	223.9	256.9	319.3	546.9	745.0	623.9	517.5	429.4	422.1
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)